

DZS/ENV/A-01/ENV/2022/108

Date: 26/05/2022

To,
Director
Ministry of Environment and Forest
Regional Office (Central)
Kendriya Bhawan, 5th Floor, Sector 'H' Aliganj,
Lucknow - 226024

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

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

Dear Sir,

With reference to the above-mentioned subject, please find enclosed herewith the compliance report of stipulated condition of Environment clearance for the period from October'21 to March'22 for Zinc Smelter, Debari.

Thanking you,
Yours faithfully



(Manas Tyagi)
Director - SBU, ZSD

- C.C. : 1. Member Secretary
Rajasthan State Pollution Control Board
4, Institutional Area, Jhalana Doongri, Jaipur-302004
2. Regional Officer,
Rajasthan State Pollution Control Board
F-470, Mewar Industrial Area, UCCI-UDAIPUR (RAJ)-313001
3. Scientist 'D' & In charge
Zonal Office (Central),
Central Pollution Control Board, 3rd Floor, Sahkar Bhawan,
North T.T. Nagar, Bhopal- 462003
4. 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 Limited

Zinc Smelter, Debari, Udaipur-313024

T-491-2942658000 F-491-294 7408147 www.hindzinc.com

Registered Office - Yashwanth Bhawan, Udaipur (Rajasthan) - 313004

CIN : L27204RJ1966PLC001208



HINDUSTAN ZINC

Zinc & Silver of India

**Six Monthly Compliance Report
of
Environmental Clearance Conditions
for**



Zinc Smelter Debari

M/s Hindustan Zinc Limited

Debari – 313024, Udaipur, Rajasthan

For the period

1st October 2021 to 31st March 2022

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

May 2022

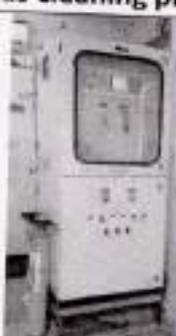
Name of the project: Expansion of Zinc Smelter (80,000 TPA to 1,00,000 TPA) at Debari, Udaipur Rajasthan by M/s Hindustan Zinc Ltd. – Environmental clearance regarding

Project Code:

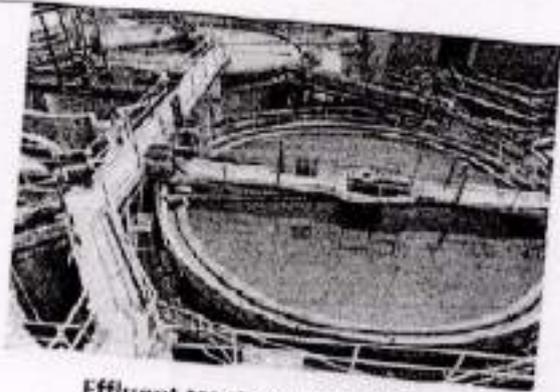
Clearance Letter No.: J-11011/479/2006-IA.II (I) dated 19th / 25th March, 2008

Period of Compliance Report: 1st October 2021 to 31st March 2022

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 inter-locked. The company shall install fume extractors and bag filters to control the emissions from all melting and casting units including Moore cake treatment plant. Cyclone, scrubber, wet ESP, Fluoride removal plant, absorption tower, demister etc. shall be installed in the Sulphuric acid plant I & II to control dust and 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. Moore cake treatment plant temporarily not in operation.</p> <p>Online analysers are installed as per CPCB guideline and connected to RSPCB and CPCB server. All PCEs are interlocked. AAQ monitoring reports for the period October 2021 to March 2022 are attached as Annexure - 1 and also reported to Pollution Control Board.</p> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;">  <p>Cyclone at Roaster</p> </div> <div style="text-align: center;">  <p>Gas cleaning plant</p> </div> </div> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;">  <p>Bag filter MCTP</p> </div> <div style="text-align: center;">  <p>Online analyzer</p> </div> </div> |

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).



Effluent treatment plant (ETP)

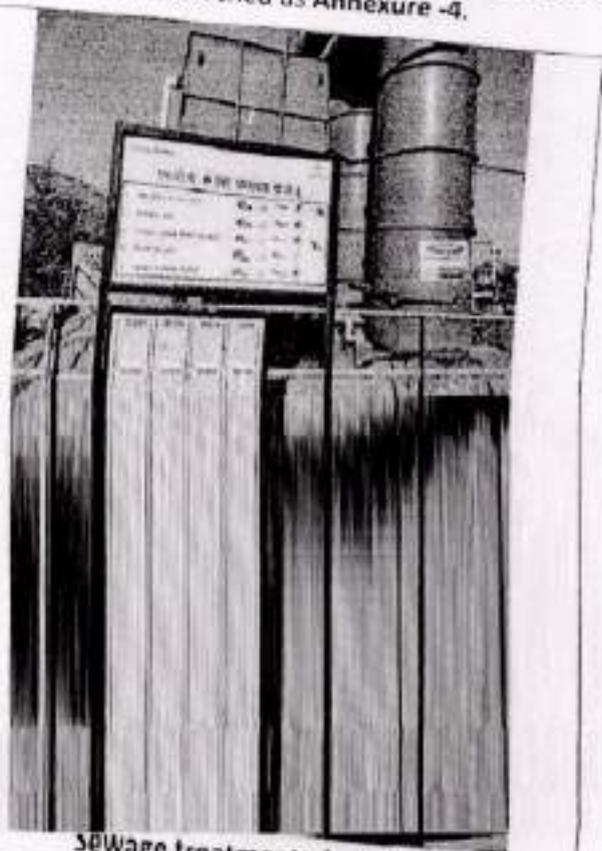
The sample of treated effluent are regularly collected and analyzed as per IS & CPCB approved procedures & treated effluent confirms the limits prescribed by the Board.

The treated water is recycled and zero discharge is maintained.

Reports of treated effluent for the period October 2021 to March 2022 are attached as **Annexure -3**

Domestic effluent from plant and colony is treated in sewage treatment plant (STP). Reports of treated effluent of plant & colony for the period October 2021 to March 2022 are attached as **Annexure -3A & 3B**.

Results of Piezowells for period of October 2021 to March 2022 are attached as **Annexure -4**.



Sewage treatment plant (STP)

All the process residues, spent catalyst, Cobalt cake, anode mud, cooler cake, Copper cake etc. shall be disposed off in common hazardous waste management

- 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 recyclers.
- The Jarosite sludge is neutralized with

conservation of wild fauna in consultation with the State Forest Department shall be prepared and implemented.

- conservation of wild fauna.
- 1000 nos. of medicinal plants are planted in colony. Medicinal plants also planted in factory premises. Dense greenery in & around the factory.
- Preservation of trees and shrubs for providing better niche for the animals.
- Installation of artificial nesting of Birds to promote Biodiversity conservation.
- Awareness program conducted for employees and their families on the occasion of Sparrow day, Water day, Biodiversity day, Earth day & World Environment Day.



8 Regular medical examination and health monitoring of all the employees for Lead (Pb) and Cadmium (Cd) shall be carried out and if cases of presence of Lead (Pb) and Cadmium (Cd) are detected, necessary compensation shall be arranged under the existing laws. A competent occupational health physician shall be appointed to carry out medical surveillance. Occupational health of all the workers shall be monitored for relevant parameters and records maintained for at least 40 years from the beginning of the employment or 15 years after the retirement or cessation of

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.

1. Dr. Sumit Sirova – MBBS, PGDD, FID, AFIM with 10. years experience.
2. Dr. Prajot Sharma – MBBS with 6 year experience

Records are maintained as per requirement.

| | | |
|--|--|--|
| | |  <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: 68.0 Hectare |
|--|--|--|

General Conditions:

| Sr. No | Condition | Compliance Status |
|--------|---|--|
| 1 | The project authorities must strictly adhere to the stipulations made by the Rajasthan State Pollution Control Board (RSPCB) and the State Government. | Noted |
| 2 | No expansion or modification in the plant shall be carried out without prior approval of the Ministry of Environment and Forests. | Noted |
| 3 | The gaseous emissions from various process units shall conform to the standards prescribed by the concerned authorities from time to time. The Rajasthan State Pollution Control Board (RSPCB) may specify more stringent standards for the relevant parameters keeping in view the nature of the industry and its size and location. At no time, the emissions level shall go beyond the prescribed standards. | <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>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> | <p>collected and analyzed as per IS & CPCB approved procedures & treated effluent conforms the limits prescribed by the Board.</p> <ul style="list-style-type: none"> The treated water is recycled and zero discharge is maintained. |
| <p>7 The project authorities must strictly comply with the rules and regulations with regards to handling and disposal of hazardous wastes in accordance with the Hazardous Waste (Management and Handling) Rule, 2003.</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)/6776(1)/2020-2021/5997-5999 dtd 19/03/2021, is valid up to date 31/07/2025. Disposal / recycling / reuse of HWs is as per the revised Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016. |
| <p>8 The overall noise levels in and around the plant area shall be kept well within the standards (85 dBA) by providing noise control measures including acoustic hoods, silencers, enclosures, etc. on all sources of noise generation. The ambient noise level should conform the standards prescribed under EPA Rules, 1989 viz. 75 dBA (daytime) to 70 dBA (nighttime).</p> | <ul style="list-style-type: none"> Noise control measures including acoustic hoods, silencers, enclosures etc. have been provided on all sources of noise generation. Ambient noise level is monitored by MoEF&CC, RSPCB & NABL approved laboratory. Report for the period October 2021 to March 2022 is attached as Annexure -5. |
| <p>9 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. <div data-bbox="845 1411 1284 1691" data-label="Image"> </div> <p style="text-align: center;">Occupational Health Center</p> |



Ambulance facility

10 The project proponent shall also comply with all the environmental protection measures and safeguards maintained as per the EIA/EMP/ risk analysis and DMP report.

- Environmental protection measures and safeguards recommended in the EIA/EMP/risk analysis and DMP report have been implemented.
- For emission control, ESP, Bag houses, cyclone and gas cleaning tower have been installed with adequate stacks height for proper dispersion of emission.
- For Effluent Control, zero discharge is maintained through ETP, RO and mist evaporators.
- For Hazardous waste management, best available technology being used for waste minimization and disposal of Hazardous waste is done as per Authorization conditions.

11 The project authorities shall provide Rs. 76.00 crores towards environmental pollution control measures to implement the conditions stipulated by the Ministry of Environment and Forests as well as the Government and submit and implementation schedule for all the conditions stipulated herein to this Ministry and its Regional Office at Lucknow.
The funds so provided shall not be diverted for any other purposes.

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

| Area/Equipments | Cost (Rs. in Crores) |
|--|----------------------|
| Acid Plant | 33.0 |
| Gas Cleaning | 16.0 |
| ESP, Bag Filter, Stacks | 13.0 |
| Stack Analyser | 0.5 |
| Covered conveyers | 2.0 |
| Modification/addition in water/ Effluent Treatment Facilities/RO Plant | 5.0 |
| Solid waste disposal facilities (Jarosite SLF etc) | 5.0 |
| Monitoring Facilities (Additional) | 0.5 |
| Green belt | 1.0 |
| Total | 76.0 |

| | | |
|----|---|--|
| | | <p>The Environmental expenditure for last five years are as under:</p> <p>2017-2018 Rs. 92.31 Lacs 2018-2019 Rs. 171.94 Lacs 2019-2020 Rs. 522.98 Lacs 2020-2021 Rs. 1078 Lacs 2021-2022 Rs. 1193 Lacs</p> |
| 12 | <p>The Regional Office of this Ministry at Lucknow, CPCB/RSPCB shall monitor the stipulated conditions.</p> <p>A six monthly compliance report and the monitored data along with statistical interpretation should be submitted to them regularly.</p> | <p>Compliance status is submitted regularly to the Ministry. Previous compliance of EC was submitted on 22.11.2021.</p> <p>The same is also available at company website.</p> |
| 13 | <p>The Project Proponent shall inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the Rajasthan Pollution Control Board and may also be seen at Website of the Ministry of Environment and Forests at http://envfor.nic.in.</p> <p>This shall be advertised within seven days from the date of issue of the clearance letter at least in two local newspaper that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of the same shall be forwarded to the Regional office.</p> | <p>Noted and informed.</p> <p>The information published in two local newspapers (Dainik Bhasker & Prthakal) on 25.03.2008). It was forwarded to regional office on date. 25.03.2008.</p> |
| 14 | <p>The project authorities shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities and the date of commencing the land development work.</p> | <p>Date of commencement of land development work is 4th January-2007.</p> |



TEAM TEST HOUSE

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



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BSPCB

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JDA/3/211

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TEST REPORT

| | | | |
|-----------------------|--|--------------------------------------|-------------------------------|
| Report No./ILR No. | TC502521500001525 | Date | 02-11-2021 |
| Issued To | M/S Hindusthan Zinc Limited [Debar Zinc Smelter] PO Zinc Smelter, District Udaipur (Rajasthan). | Type of Unit | Smelter |
| Type of Sample | Stack Emission Level | Date of Sample Collection/Monitoring | 22-10-2021 |
| Point of Collection | Zinc Melting Furnace | Date of Receipt | 27-10-2021 |
| Date of Test/Analysis | 27-10-2021 to 02-11-2021 | Sampling Plan | IS 11255:2008(Part 3)/RA 2018 |
| Quantity of Sample | | Sample Collected By | Vinay Kumar Yadav |
| Unit's representative | Ms. Navodita Shaktawat | Condition of Sample | Fit for testing |

RESULTS

| S.No | Parameters | Observed Value | Testing Protocol |
|------|--|----------------|--|
| 1 | Particulate matter [mg/Nm ³] | 27.5 | IS 11255 (Part 1):1985 Reaffirmed 2014 |

Notes :-

- * The results listed refer only to the tested sample (s) & parameters (s). Extension of products is neither intended 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.

[Signature]
Senior Analyst

[Signature]
Authorized Signatory

(Report No: TC502521500001525)



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RSPCB

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OIDRAN 10001:2007

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TEST REPORT

| | | | |
|-----------------------|---|--------------------------------------|------------------------------|
| Report No./JLR No. | TC502521500091526 | Date | 02-11-2021 |
| Issued To | M/S Hirdusthan Zinc Limbed (Dehori Zinc Smelter) PO Zinc Smelter, District Udaipur (Rajasthan) | Type of Unit | Smelter |
| Type of Sample | Stack Emission Level | Date of Sample Collection/Monitoring | 21-10-2021 |
| Point of Collection | Induction Furnace Stack | Date of Receipt | 27-10-2021 |
| Date of Test/Analysis | 27-10-2021 to 02-11-2021 | Sampling Plan | IS 11255:2008(Part 3)RA-2010 |
| Quantity of Sample | - | Sample Collected By | Vimal Kumar Yadav |
| Unit's representative | Ms. Navodita Shaktawat | Condition of Sample | Fit for testing |

RESULTS

| S.No | Parameters | Observed Value | Testing Protocol |
|------|--|----------------|--|
| 1 | Particulate matter [mg/Nm ³] | 31.28 | IS 11255 (Part 1);1995 Reaffirmed 2014 |

Notes:-

- The results listed refer only to the tested sample (a) & parameters (b). Enhancement of products is neither referred nor implied.
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Maal Yogi
/

Senior Analyst

Rajesh MANDSODIA

[Signature]

Authorized Signatory
(Report No: TC502521500091526)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

| | | | |
|-------------------------|---|--------------------------------------|-------------------------------|
| Report No./JILK No. | TC502521500001527 | Date : | 02-11-2021 |
| Issued To : | M/S Hindustan Zinc Limited (Deban Zinc Smelter) PO - Zinc Smelter, District Udaipur (Rajasthan). | Type of Unit : | Smelter |
| Type of Sample | Stack Emission Level | Date of Sample Collection/Monitoring | 21-10-2021 |
| Point of Collection | Azox Furnace | Date of Receipt : | 27-10-2021 |
| Date of Test/Analysis | 27-10-2021 to 02-11-2021 | Sampling Plan | IS 11255-2006/Part 2/Ann 2016 |
| Quantity of Sample | | Sample Collected By : | Vimal Kumar Yadav |
| Unit's representative : | Ms. Navodita Shekawat | 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) | 26.17 | IS 11255 (Part 1) 1985 Reaffirmed 2014 | 30 |

Notes :-

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Mal Yogi

Senior Analyst

Rajesh Maheshwar

Authorized Signatory
(Report No: TC502521500001527)



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TEST REPORT

| | | | |
|-----------------------|---|--------------------------------------|------------------------------|
| Report No./ULR No | TC502521500001529 | Date | 02-11-2021 |
| Issued To | M/S Hindustan Zinc Limited (Debar Zinc Smelter) PG - Zinc Smelter, District Udaipur (Rajasthan). | Type of Unit | Smelter |
| Type of Sample | Stack Emission Level | Date of Sample Collection/Monitoring | 22-10-2021 |
| Point of Collection | Slag Grinding | Date of Receipt | 27-10-2021 |
| Date of Test/Analysis | 27-10-2021 to 02-11-2021 | Sampling Plan | IS 11255:2008(Part 3)RA 2018 |
| Quantity of Sample | - | Sample Collected By | Vimal Kumar Yadav |
| Unit's representative | Ms. Navodita Shuktaawat | Condition of Sample | Fit for testing |

RESULTS

| S.No | Parameters | Observed Value | Testing Protocol |
|------|--|----------------|--|
| 1 | Particulate matter [mg/Nm ³] | 21.56 | IS 11255 (Part 1):1985 Reaffirmed 2014 |

Notes -

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Puran Mal Yogi
Senior Analyst

Puran Mal Yogi

Rajesh Muleshwar

Authorized Signatory

(Report No: TC502521500001529)



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Email : man@testinglab@teamtesthouse.com

TEST REPORT

| | | | |
|------------------------|--|---------------------------------------|------------------------------|
| Report No./ULR No.: | TC502521500001528 | Date: | 02-11-2021 |
| Issued To: | M/S Hindusthan Zinc Limited (Deban Zinc Smelter) PO - Zinc Smelter, District Udaipur (Rajasthan). | Type of Unit: | Smelter |
| Type of Sample: | Stack Emission Level | Date of Sample Collection/Monitoring: | 22-10-2021 |
| Point of Collection: | MCTP Stack | Date of Receipt: | 27-10-2021 |
| Date of Test/Analysis: | 27-10-2021 to 02-11-2021 | Sampling Plan: | IS 11255:2008(Part 3)RA 2018 |
| Quantity of Sample: | - | Sample Collected By: | Vimal Kumar Yadav |
| Unit's representative: | Ms. Navodita Shaktawat | Condition of Sample: | Fit for testing |

RESULTS

| S.No | Parameters | Observed Value | Testing Protocol |
|------|--|----------------|--|
| 1 | Particulate matter [mg/Nm ³] | 28.23 | IS 11255 (Part 1): 1985 Reaffirmed 2014 |

Notes:-

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P. Yogi
Senior Analyst
Puran Mal Yogi

Rajendra Singh
Authorized Signatory
(Report No: TC502521500001528)



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TEST REPORT

| | | | |
|-----------------------|---|--------------------------------------|------------------------------|
| Report No./ULR No. | 500001528 | Date | 02-11-2021 |
| Issued To | M/S Hindusthan Zinc Limited (Debari Zinc Smelter) PO : Zinc Smelter, District Udaipur (Rajasthan). | Type of Unit | Smelter |
| Type of Sample | Stack Emission Level | Date of Sample Collection/Monitoring | 22-10-2021 |
| Point of Collection | MCTP Stack | Date of Receipt | 27-10-2021 |
| Date of Test/Analysis | 27-10-2021 to 02-11-2021 | Sampling Plan | IS 11255:2008(Part 3)RA 2018 |
| Quantity of Sample | - | Sample Collected By | Vimal Kumar Yadav |
| Unit's representative | Ms. Navodita Shaktawat | Condition of Sample | Fit for testing |

RESULTS

| S.No | Parameters | Observed Value | Testing Protocol |
|------|----------------------------|----------------|------------------|
| 1 | Lead [mg/Nm ³] | 0.22 | USEPA method 20 |

Notes

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Senior Analyst

Purni Mai Yogi

Authorized Signatory
(Report No: 500001528)



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TEST REPORT

| | | | |
|-----------------------|---|--------------------------------------|------------------------------|
| Report No./ILR No.: | TCG02521500001530 | Date | 02-11-2021 |
| Issued To | M/S Hindustan Zinc Limited (Debari Zinc Smelter) PO Zinc Smelter, District Udaipur (Rajasthan) | Type of Unit | Smelter |
| Type of Sample | Stack Emission Level | Date of Sample Collection/Monitoring | 16-10-2021 |
| Point of Collection | Stack Register-II | Date of Receipt | 27-10-2021 |
| Date of Test/Analysis | 27-10-2021 to 02-11-2021 | Sampling Plan | IS 11255:2006(Part 3)RA 2018 |
| Quantity of Sample | | Sample Collected By | Vinay Kumar Yadav |
| Unit's representative | Mr. Navdeep Shaktawat | 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 |

Note :-

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

Puri

Senior Analyst
Puri Mai Yogi

Sharma

Authorized Signatory
(Report No: TCG02521500001530)



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Email : marketing@teamtesthouse.com

TEST REPORT

| | | | |
|-----------------------|---|--------------------------------------|------------------------------|
| Report No./ULR No. | 500001530 | Date : | 02-11-2021 |
| Issued To | M/S Hindusthan Zinc Limited (Debari Zinc Smelter) PO : Zinc Smelter, District Udaipur (Rajasthan). | Type of Unit | Smelter |
| Type of Sample | Stack Emission Level | Date of Sample Collection/Monitoring | 16-10-2021 |
| Point of Collection | Stack Roaster-II | Date of Receipt | 27-10-2021 |
| Date of Test/Analysis | 27-10-2021 to 02-11-2021 | Sampling Plan : | IS 11255:2008(Part 3)RA 2018 |
| Quantity of Sample | - | Sample Collected By | Vimal Kumar Yadav |
| Unit's representative | Ms. Navodita Shaktawat | Condition of Sample | Fit for testing |

RESULTS

| S.No | Parameters | Observed Value | Testing Protocol |
|------|--------------------------------|----------------|-------------------|
| 1 | Acid Mist (mg/m ³) | 25.4 | USEPA Method - 8A |

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Yogi
Senior Analyst

Yogi
Authorized Signatory
(Report No. 500001530)



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Email : ms@testinglab@teamtesthouse.com

TEST REPORT

| | | | |
|-----------------------|---|-----------------------------------|-------------------------------|
| Report No./ULR No. | TC502521500001531 | Date : | 02-11-2021 |
| Issued To | M/S Hindustan Zinc Limited (Debari Zinc Smelter) PO: Zinc Smelter, District Udaipur (Rajasthan), | Type of Unit | Smelter |
| Type of Sample | Stack Emission Level | Date of Sample Collection/Marking | 22-10-2021 |
| Point of Collection | Stack Roaster III | Date of Receipt : | 27-10-2021 |
| Date of Test/Analysis | 27-10-2021 to 02-11-2021 | Sampling Plan | IS 11255:2008(Part 3):RA 2014 |
| Quantity of Sample | - | Sample Collected By : | Vimal Kumar Yadav |
| Unit's representative | Ms. Navodita Shaktawat | Condition of Sample | Fit for testing |

RESULTS

| S.No | Parameters | Observed Value | Testing Protocol |
|------|---------------------------------------|----------------|---|
| 1 | Sulphur Dioxide (mg/Nm ³) | 123 | IS 11255(Part 2) : 1985 Reaffirmed 2014 |

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[Signature]
Senior Analyst
Vimal Yogi

[Signature]
Authorized Signatory
(Report No: TC502521500001531)



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TEST REPORT

| | | | |
|-----------------------|--|--------------------------------------|------------------------------|
| Report No./ULR No. | 500001531 | Date | 02-11-2021 |
| Issued To | M/S Hindusthan Zinc Limited [Detan Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan). | Type of Unit | Smelter |
| Type of Sample | Stack Emission Level | Date of Sample Collection/Monitoring | 22-10-2021 |
| Point of Collection | Stack Reactor III | Date of Receipt | 27-10-2021 |
| Date of Test/Analysis | 27-10-2021 to 02-11-2021 | Sampling Plan | IS 11255:2008(Part 3)RA 2018 |
| Quantity of Sample | - | Sample Collected By | Vimal Kumar Yadav |
| Unit's representative | Ms. Navodita Shaktawat | Condition of Sample | Fit for testing |

RESULTS

| S.No | Parameters | Observed Value | Testing Protocol |
|------|-------------------|----------------|------------------|
| 1 | Acid Mist [mg/m3] | 24.2 | USEPA Method 8A |

Notes

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Senior Analyst

Yogi

Authorized Signatory

(Report No: 500001531)



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TEST REPORT

| | | | |
|-----------------------|--|--------------------------------------|------------------------------|
| Report No./ULR No. | TC50252250001679 | Date | 05-11-2021 |
| Issued To | M/S Hindusthan Zinc Limited (Debari Zinc Smelter) PO - Zinc Smelter, District Udaipur (Rajasthan) | Type of Unit | Smelter |
| Type of Sample | Stack Emission Level | Date of Sample Collection/Monitoring | 21-10-2021 |
| Point of Collection | DG Set /CPP-1 | Date of Sample Receipt | 25-10-2021 |
| Date of Test | 25-10-2021 to 30-10-2021 | Sampling Plan | IS 11255-2008(Part 3)RA 2018 |
| Quantity of Sample | - | Sample Collected By | Vinod Kumar Yadav |
| Unit's representative | Mr. Navodita Shaktawat | Condition of Sample | F4 for testing |

RESULTS

| S.No | Parameters | Observed Value | Testing Protocol | Limits as per Environment protection rules, 1986 |
|------|--|----------------|--|--|
| 1 | Particulate matter [mg/Nm ³] | 50.29 | IS 11255 (Part 1) :1985 Reaffirmed 2014 | 100 |
| 2 | Oxides of Nitrogen [mg/Nm ³] | 265 | IS 11255 (Part 7) :1985 Redfirmed 2012 | 710 ppmv |
| 3 | Carbon monoxide [mg/Nm ³] | 72 | IS 5182 (Part 10) : 1999 RA 2019 | 150 |

Notes :

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[Signature]
Senior Analyst
PUNJ LBSI YOGI

[Signature]
K.N. MISHRA
Authorized Signatory
(Report No: TC50252250001679)



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Email : marketing@teamtesthouse.com

TEST REPORT

| | | | |
|------------------------|--|---------------------------------------|------------------------------|
| Report No./LTH No.: | 500001679 | Date: | 05-11-2021 |
| Issued To: | M/S Hindusthan Zinc Limited (Debari Zinc Smelter) PO: Zinc Smelter, District Udaipur (Rajasthan), | Type of Unit: | Smelter |
| Type of Sample: | Stack Emission Level | Date of Sample Collection/Monitoring: | 21-10-2021 |
| Point of Collection: | DG Set /CPP-1 | Date of Sample Receipt: | 25-10-2021 |
| Date of Test: | 25-10-2021 to 30-10-2021 | Sampling Plan: | IS 11255:2008(Part 3)RA 2016 |
| Quantity of Sample: | | Sample Collected by: | Vimal Kumar Vadev |
| Unit's representative: | Mr. Navindita Shaktawat | Condition of Sample: | Fit for testing |

RESULTS

| S.No | Parameters | Observed Value | Testing Protocol | Limits as per Environment protection rules, 1986 |
|------|---|----------------|--------------------------------|--|
| 1 | Non Methane Hydrocarbon as HC [mg/Nm ³] | 37 | IS 5182 (Part 21) 2001 RA 2017 | 100 |

Notes:

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Senior Analyst
Puran Mal Yogi

Authorized Signatory
(Report No: 500001679)



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|---|------------------------------------|---|

TEST REPORT

| | | | |
|-----------------------|--|---------------------------------------|-------------------------------|
| Report No./ILR No | TC50252250001680 | Date | 05-11-2021 |
| Issued To | MIS Hindustan Zinc Limited (Debon Zinc Smelter) PO - Zinc Smelter, District Udaipur (Rajasthan) | Type of Unit | Smelter |
| Type of Sample | Stack Emission Level | Date of Sample Collection/ Monitoring | 21-10-2021 |
| Point of Collection | DD, Sst /CPP-II | Date of Sample Receipt | 29-10-2021 |
| Date of Test | 25-10-2021 to 30-10-2021 | Sampling Plan | IS 11255:2008(Part 3)/RA 2018 |
| Quantity of Sample | | Sample Collected By | Vinod Kumar Yadav |
| Unit's representative | Ms. Navodita Shaktawat | Condition of Sample | Ft for testing |

RESULTS

| S.No | Parameters | Observed Value | Testing Protocol | Limits as per Environment protection rules, 1986 |
|------|--|----------------|---|--|
| 1 | Particulate matter [mg/Nm ³] | 64.64 | IS 11255 (Part 1) : 1985 Reaffirmed 2014 | 100 |
| 2 | Oxides of Nitrogen [mg/Nm ³] | 263 | IS 11255 (Part 7) : 1985 Reaffirmed 2012 | 710 ppw |
| 3 | Carbon monoxide [mg/Nm ³] | 76 | IS 5162 (Part 10) : 1999 RA 2019 | 150 |

Note :-

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Senior Analyst

Authorized Signatory
(Report No:- TC50252250001680)



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TEST REPORT

| | | | |
|-----------------------|--|-----------------------------------|------------------------------|
| Report No./JLR No. | 50001660 | Date | 05-11-2021 |
| Issued To | M/S Hindusthan Zinc Limited (Debon Zinc Smelter) PO: Zinc Smelter, District Udaipur (Rajasthan) | Type of Unit | Smelter |
| Type of Sample | Stack Emission Level | Date of Sample Collection/Storage | 21-10-2021 |
| Point of Collection | DG Set (CPP-II) | Date of Sample Receipt | 25-10-2021 |
| Date of Test | 25-10-2021 to 30-10-2021 | Sampling Plan | IS 11255:2006(Part 1)KA 2018 |
| Quantity of Sample | | Sample Collected By | Umar Kumar Yadav |
| Unit's representative | Ms. Navodita Shaktawat | Condition of Sample | Ft for testing |

RESULTS

| S.No | Parameters | Observed Value | Testing Protocol | Limits as per Environment protection rules, 1986 |
|------|---|----------------|----------------------------------|--|
| 1 | Non Methane Hydrocarbon as HC (mg/Nm ³) | 35 | IS 5162 (Part 21) - 2001 RA 2017 | 100 |

Notes -

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Senior Analyst *Umar Kumar Yadav*

Umar Kumar Yadav
Authorized Signatory
(Report No: 50001660)



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marketing@teamtesthouse.com

TEST REPORT

| | | | |
|-----------------------|---|--------------------------------------|------------------------------|
| Report No./JIR No | TC502521500001682 | Date | 04-12-2021 |
| Issued To | M/S Hindustan Zinc Limited (Debari Zinc Smelter) PO Zinc Smelter, District Udaipur (Rajasthan) | Type of Unit | Smelter |
| Type of Sample | Stack Emission Level | Date of Sample Collection/Monitoring | 22-11-2021 |
| Point of Collection | Zinc Melting Furnace | Date of Receipt | 26-11-2021 |
| Date of Test/Analysis | 25-11-2021 to 01-12-2021 | Sampling Plan | IS 11255:2008(Part 3)RA 2018 |
| Quantity of Sample | - | Sample Collected By | Vimal Kumar Yadav |
| Users representative | Mrs. Navrati Shaktawat | Condition of Sample | Fit for testing |

RESULTS

| S.No | Parameters | Observed Value | Testing Protocol |
|------|--|----------------|--|
| 1 | Particulate matter (mg/Nm ³) | 21.02 | IS 11255 (Part 1) 1985 Reaffirmed 2014 |

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[Signature]
Senior Analyst

[Signature]
Authorized Signatory
(Report No: TC502521500001682)



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TEST REPORT

| | | | |
|-------------------------|---|--------------------------------------|------------------------------|
| Report No./JLR No. | TC502521500001683 | Date : | 04-12-2021 |
| Issued To : | M/S Hindusthan Zinc Limited (Debari Zinc Smelter) PO : Zinc Smelter, District Udaipur (Rajasthan). | Type of Unit : | Smelter |
| Type of Sample | Stack Emission Level | Date of Sample Collection/Monitoring | 25-11-2021 |
| Point of Collection | Induction Furnace Stack | Date of Receipt | 25-11-2021 |
| Date of Test/Analysis | 25-11-2021 to 01-12-2021 | Sampling Plan | IS 11255:2008(Part 3)RA 2016 |
| Quantity of Sample | - | Sample Collected By | Vinai Kumar Yadav |
| Unit's representative : | Ms. Navodita Shaktawat | Condition of Sample : | Fit for testing |

RESULTS

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

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P. Singh

Senior Analyst

R. Singh

Authorized Signatory
(Report No: TC502521500001683)



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TEST REPORT

| | | | |
|-------------------------|---|--------------------------------------|-------------------------------|
| Report No./LR No | TC502521500001684 | Date : | 04-12-2021 |
| Issued To : | M/S Hindusthan Zinc Limited [Debar Zinc Smelter] PO - Zinc Smelter, District Udapur (Rajasthan). | Type of Unit : | Smelter |
| Type of Sample | Stack Emission Level | Date of Sample Collection/Monitoring | 22-11-2021 |
| Point of Collection | Azex Furnace | Date of Receipt : | 29-11-2021 |
| Date of Test/Analysis : | 25-11-2021 to 01-12-2021 | Sampling Plan : | IS-11255:2000(Part 3)/RA-2018 |
| Quantity of Sample | - | Sample Collected By | Vimal Kumar Yadav |
| Unit's representative : | Ms. Navudra Shaktawat | Condition of Sample | Fit for testing |

RESULTS

| S.No | Parameters | Observed Value | Testing Protocol |
|------|--|----------------|---|
| 1 | Particulate matter [mg/Nm ³] | 24.63 | IS 11255 (Part 1):1985 Reaffirmed 2014 |

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Vimal Kumar Yadav
Senior Analyst

Rajesh Kumar
Authorized Signatory
(Report No: TC502521500001684)



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Email : marketing@teamtesthouse.com

TEST REPORT

| | | | |
|-----------------------|--|--------------------------------------|-------------------------------|
| Report No./JLR No. | TC502521500001685 | Date : | 04-12-2021 |
| Issued To | M/S Hindusthan Zinc Limited (Dahan Zinc Smelter) PO : Zinc Smelter, District Udaipur (Rajasthan). | Type of Unit : | Smelter |
| Type of Sample | Stack Emission Level | Date of Sample Collection/Monitoring | 24-11-2021 |
| Point of Collection | Slag Grinding | Date of Receipt | 25-11-2021 |
| Date of Test/Analysis | 25-11-2021 to 01-12-2021 | Sampling Plan | IS 11255:2008(Part 3)/RA 2018 |
| Quantity of Sample | | Sample Collected By | Vimal Kumar Yadav |
| Unit's representative | Ms. Navodita Shaktawat | Condition of Sample | Fit for testing |

RESULTS

| S.No | Parameters | Observed Value | Testing Protocol |
|------|--|----------------|--|
| 1 | Particulate matter [mg/Nm ³] | 28.23 | IS 11255 (Part 1):1985 Reaffirmed 2014 |

Notes

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Senior Analyst

Authorized Signatory
(Report No: TC502521500001685)



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

TEST REPORT

| | | | |
|-----------------------|--|--------------------------------------|------------------------------|
| Report No./ULK No. | TC502521500001681 | Date | 04-12-2021 |
| Issued To | M/S Hindustan Zinc Limited (Debari Zinc Smelter) PO : Zinc Smelter, District Udaipur (Rajasthan). | Type of Unit | Smelter |
| Type of Sample | Stack Emission Level | Date of Sample Collection/Monitoring | 23-11-2021 |
| Point of Collection | MCTP Stack | Date of Receipt | 25-11-2021 |
| Date of Test/Analysis | 25-11-2021 to 01-12-2021 | Sampling Plan | IS 11255:2008(Part 3)RA 2018 |
| Quantity of Sample | | Sample Collected By | Vimal Kumar Yadav |
| Unit's representative | Ms. Navodita Shaktawat | Condition of Sample | Fit for testing |

RESULTS

| S.No | Parameters | Observed Value | Testing Protocol |
|------|--|----------------|--|
| 1 | Particulate matter (mg/Nm ³) | 23.95 | IS 11255 (Part 1) 1985 Reaffirmed 2014 |

Notes -

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Pursh Vimal Yagi

Senior Analyst

Rajesh Kumar
Authorized Signatory
(Report No: TC502521500001681)



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



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 Email : marketing@teamtesthouse.com

IDA/1/011

TEST REPORT

| | | | |
|-----------------------|--|--------------------------------------|-------------------------------|
| Report No./ILR No. | TC502521500001687 | Date | 04-12-2021 |
| Issued To | M/S Hindustan Zinc Limited (Delan Zinc Smelter) | Type of Unit | Smelter |
| Type of Sample | PO : Zinc Smelter, District Udaipur (Rajasthan), Stack Emission Level | Date of Sample Collection/Monitoring | 23-11-2021 |
| Point of Collection | Stack Roaster-II | Date of Receipt | 25-11-2021 |
| Date of Test/Analysis | 25-11-2021 to 01-12-2021 | Sampling Plan | IS 11255 2006 (Part 3) & 2014 |
| Quantity of Sample | - | Sample Collected By | Vinai Kumar Yadav |
| Unit's representative | Ms. Navodita Shaktawat | Condition of Sample | Fit for testing |

RESULTS

| S.No | Parameters | Observed Value | Testing Protocol |
|------|---------------------------------------|----------------|---|
| 1 | Sulphur Dioxide (mg/Nm ³) | 116 | IS 11255 (Part 2) :1985 Reaffirmed 2014 |

Notes -

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Pratibha Yadav
 Senior Analyst

[Signature]
 Authorized Signatory
 (Report No: TC502521500001687)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

| | | | |
|-------------------------|--|--|------------------------------|
| Report No./ULR No. : | 500001687 | Date : | 04-12-2021 |
| Issued To : | M/S Hindasthan Zinc Limited (Deean Zinc Smelter) PO : Zinc Smelter, District Udaipur (Rajasthan). | Type of Unit : | Smelter |
| Type of Sample : | Stack Emission Level | Date of Sample Collection/Monitoring : | 29-11-2021 |
| Point of Collection : | Stack Roaster-II | Date of Receipt : | 25-11-2021 |
| Date of Test/Analysis : | 25-11-2021 to 01-12-2021 | Sampling Plan : | IS 11266:2006(Part 3)RA 2018 |
| Quantity of Sample : | | Sample Collected By : | Vinod Kumar Yadav |
| Unit's representative : | Ms. Navneeta Shastriawat | Condition of Sample : | Fit for testing |

RESULTS

| S.No | Parameters | Observed Value | Testing Protocol |
|------|--------------------------------|----------------|-------------------|
| 1 | Acid Mist (mg/m ³) | 25.6 | USEPA Method - 8A |

- Notes*
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[Signature]
Senior Analyst

[Signature]
Authorized Signatory
(Report No: 500001687)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

| | | | |
|-------------------------|---|--|------------------------------|
| Report No./ULR No. : | TC502522500001934 | Date : | 04-01-2022 |
| Issued To : | M/S Hindusthan Zinc Limited (Debari Zinc Smelter) PO : Zinc Smelter, District Udaipur (Rajasthan), | Type of Unit : | Smelter |
| Type of Sample : | Stack Emission Level | Date of Sample Collection/Monitoring : | 27-12-2021 |
| Point of Collection : | Zinc Melting Furnace | Date of Receipt : | 29-12-2021 |
| Date of Test/Analysis : | 29-12-2021 to 04-01-2022 | Sampling Plan : | IS 11255-2008(Part 3)RA 2016 |
| Quantity of Sample : | - | Sample Collected By : | Vimal Kumar Yadav |
| Unit's representative : | Ms. Navodita Shaktawat | Condition of Sample : | Fit for testing |

RESULTS

| S.No | Parameters | Observed Value | Testing Protocol |
|------|--|----------------|--|
| 1 | Particulate matter (mg/Nm ³) | 24.81 | IS 11255 (Part 1):1985 Reaffirmed 2014 |

Notes :

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Signature
Senior Analyst

Signature
Authorized Signatory
(Report No. TC502522500001934)



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Email : marketing@teamtesthouse.com

TEST REPORT

| | | | |
|-------------------------|--|--------------------------------------|------------------------------|
| Report No./JLR No. : | TC502522500001935 | Date : | 04-01-2022 |
| Issued To | M/S Hindusthan Zinc Limited (Debari Zinc Smelter) PO : Zinc Smelter, District Lataipur (Rajasthan). | Type of Unit : | Smelter |
| Type of Sample : | Stack Emission Level | Date of Sample Collection/Monitoring | 28-12-2021 |
| Point of Collection | Induction Furnace Stack | Date of Receipt : | 28-12-2021 |
| Date of Test/Analysis | 29-12-2021 to 04-01-2022 | Sampling Plan : | IS 11255:2008(Part 3)RA 2018 |
| Quantity of Sample : | - | Sample Collected By : | Vimal Kumar Yadav |
| Unit's representative : | Ms. Navodita Shaktawat | Condition of Sample : | Fit for testing |

RESULTS

| S.No | Parameters | Observed Value | Testing Protocol |
|------|--|----------------|---|
| 1 | Particulate matter (mg/Nm ³) | 29.41 | IS 11255 (Part 1):1985 Reaffirmed 2014 |

Notes -

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Puran Mal Yogi
Puran Mal Yogi
Senior Analyst

Navodita Shaktawat
Authorized Signatory
(Report No. TC502522500001935)



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| | | | |
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| Report No./LR No.: | TC502522500001936 | Date: | 04-01-2022 |
| Issued To: | M/S Hindusthan Zinc Limited (Deban Zinc Smelter) PO : Zinc Smelter, District Udaipur (Rajasthan). | Type of Unit: | Smelter |
| Type of Sample: | Stack Emission Level | Date of Sample Collection/Monitoring | 31-12-2021 |
| Point of Collection: | Azox Furnace | Date of Receipt: | 29-12-2021 |
| Date of Test/Analysis: | 29-12-2021 to 04-01-2022 | Sampling Plan: | IS 11255:2008(Part 3)/IA 2016 |
| Quantity of Sample: | - | Sample Collected By: | Vimal Kumar Yadav |
| Unit's representative: | Ms. Navodita Shaktawat | Condition of Sample: | Fit for testing |

RESULTS

| S.No | Parameters | Observed Value | Testing Protocol |
|------|--|----------------|--|
| 1 | Particulate matter [mg/Nm ³] | 20.34 | IS 11255 (Part 1):1985 Reaffirmed 2014 |

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Puran

Senior Analyst

Puran Mal Yogi

Rajesh Maheshwari
Authorized Signatory

(Report No: TC502522500001936)



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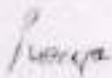
| | | | |
|------------------------|--|---------------------------------------|------------------------------|
| Report No./JLR No.: | TC502522500001937 | Date: | 04-01-2022 |
| Issued To: | M/S Hinduethan Zinc Limited (Deban Zinc Smelter) PO : Zinc Smelter, District Udaipur (Rajasthan). | Type of Unit: | Smelter |
| Type of Sample | Stack Emission Level | Date of Sample Collection/Monitoring: | 28-12-2021 |
| Point of Collection | Slag Grinding | Date of Receipt: | 29-12-2021 |
| Date of Test/Analysis: | 29-12-2021 to 04-01-2022 | Sampling Plan: | IS 11255:2008(Part 3)RA 2016 |
| Quantity of Sample: | | Sample Collected By: | Vimal Kumar Yadav |
| Unit's representative: | Ms. Navodita Shaktawat | Condition of Sample: | Fit for testing |

RESULTS

| S.No | Parameters | Observed Value | Testing Protocol |
|------|--|----------------|--|
| 1 | Particulate matter (mg/Nm ³) | 19.47 | IS 11255 (Part 1):1985 Reaffirmed 2014 |

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Senior Analyst

Pujan Mal Yogi


Authorized Signatory

(Report No. TC502522500001937)



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TEST REPORT

| | | | |
|-----------------------|---|--------------------------------------|------------------------------|
| Report No./ULR No. | TC502522500001933 | Date | 04-01-2022 |
| Issued To: | M/S Hindustan Zinc Limited (Debar Zinc Smelter) PO : Zinc Smelter, District Udaipur (Rajasthan). | Type of Unit | Smelter |
| Type of Sample | Stack Emission Level | Date of Sample Collection/Monitoring | 27-12-2021 |
| Point of Collection | MCTP Stack | Date of Receipt | 29-12-2021 |
| Date of Test/Analysis | 29-12-2021 to 04-01-2022 | Sampling Plan | IS 11255:2008(Part 3)RA 2018 |
| Quantity of Sample | | Sample Collected By | Vimal Kumar Yadav |
| Unit's representative | Ms. Navodita Shaktawat | Condition of Sample | Fit for testing |

RESULTS

| S.No | Parameters | Observed Value | Testing Protocol |
|------|--|----------------|--|
| 1 | Particulate matter (mg/Nm ³) | 23.41 | IS 11255 (Part 1):1985 Reaffirmed 2014 |

Notes -

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Praveen
Supervisor
Vimal Yogi

Rajesh
Rajesh Maheshwar
Authorized Signatory
(Report No: TC502522500001933)



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TEST REPORT

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|-----------------------|---|--------------------------------------|-------------------------------|
| Report No./JLR No. | 500001933 | Date : | 04-01-2022 |
| Issued To : | M/S Hindusthan Zinc Limited (Debari Zinc Smelter) PO : Zinc Smelter, District Udaipur (Rajasthan). | Type of Unit : | Smelter |
| Type of Sample | Stack Emission Level | Date of Sample Collection/Monitoring | 27-12-2021 |
| Point of Collection | MCTP Stack | Date of Receipt | 29-12-2021 |
| Date of Test/Analysis | 29-12-2021 to 04-01-2022 | Sampling Plan : | IS 11255:2008(Part 3)/RA 2016 |
| Quantity of Sample : | | Sample Collected By : | Vinay Kumar Yadav |
| Unit's representative | Ms. Navodita Shaktawat | Condition of Sample | Ft for testing |

RESULTS

| S.No | Parameters | Observed Value | Testing Protocol |
|------|----------------------------|----------------|------------------|
| 1 | Lead (mg/Nm ³) | 0.12 | USEPA method 29 |

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Priyanka
Senior Analyst

[Signature]
Authorized Signatory
(Report No: 500001933)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

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|-------------------------|---|--|-------------------------------|
| Report No./ULR No. : | TC502522500001939 | Date : | 04-01-2022 |
| Issued To : | M/S Hindusthan Zinc Limited (Debari Zinc Smelter) PC : Zinc Smelter, District Udaipur (Rajasthan). | Type of Unit : | Smelter |
| Type of Sample : | Stack EMISSION Level | Date of Sample Collection/Monitoring : | 29-12-2021 |
| Point of Collection : | Stack Reactor-II | Date of Receipt : | 29-12-2021 |
| Date of Test/Analysis : | 29-12-2021 to 04-01-2022 | Sampling Plan : | IS: 11255:2008(Part 3)RA 2018 |
| Quantity of Sample : | - | Sample Collected By : | Vimal Kumar Yadav |
| Unit's representative : | Ms. Navodita Shaktawat | Condition of Sample : | Fit for testing |

RESULTS

| S.No | Parameters | Observed Value | Testing Protocol |
|------|---------------------------------------|----------------|--|
| 1 | Sulphur Dioxide (mg/Nm ³) | 116 | IS 11255(Part 2) :1985 Reaffirmed 2014 |

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Senior Analyst Yogi

Authorized Signatory
(Report No: TC502522500001939)



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Email : marketing@teamtesthouse.com

TEST REPORT

| | | | |
|------------------------|--|---------------------------------------|-------------------------------|
| Report No./JLR No.: | 500001939 | Date: | 04-01-2022 |
| Issued To: | M/S Hindusthan Zinc Limited (Debari Zinc Smelter) PO: Zinc Smelter, District Udaipur (Rajasthan). | Type of Unit: | Smelter |
| Type of Sample: | Stack Emission Level | Date of Sample Collection/Monitoring: | 20-12-2021 |
| Point of Collection: | Stack Roaster-II | Date of Receipt: | 29-12-2021 |
| Date of Test/Analysis: | 28-12-2021 to 04-01-2022 | Sampling Plan: | IS 11256:2006(Part 3)/IA 2016 |
| Quantity of Sample: | - | Sample Collected By: | Vimal Kumar Yadav |
| Unit's representative: | Ms. Navodita Shaktawat | Condition of Sample: | Fit for testing |

RESULTS

| S.No | Parameters | Observed Value | Testing Protocol |
|------|-------------------|----------------|------------------|
| 1 | Acid Mist [ng/m3] | 26.7 | USEPA Method BA |

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Navodita
Senior Analyst
Mst Yogi

Rajendra Kumar Shaktawat
Authorized Signatory
(Report No: 500001939)



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TEST REPORT

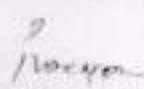
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|-------------------------|---|--|-------------------------------|
| Report No./ULR No. : | TC502522500001640 | Date : | 04-01-2022 |
| Issued To : | M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan), | Type of Unit : | Smelter |
| Type of Sample : | Stack Emission Level | Date of Sample Collection/Monitoring : | 29-12-2021 |
| Point of Collection : | Stack Roaster III | Date of Receipt : | 29-12-2021 |
| Date of Test/Analysis : | 29-12-2021 to 04-01-2022 | Sampling Plan : | IS 11255-2008(Part 3)/RA 2018 |
| Quantity of Sample : | - | Sample Collected By : | Vimal Kumar Yadav |
| Unit's representative : | Ms. Navodita Shaktawat | Condition of Sample : | Ft for testing |

RESULTS

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

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Senior Analyst **Mai Yogi**


Authorized Signatory
(Report No. TC502522500001640)



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TEST REPORT

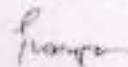
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|-------------------------|--|--|-------------------------------|
| Report No./ULR No. : | 500001940 | Date : | 04-01-2022 |
| Issued To : | M/S Hindusthan Zinc Limited (Debari Zinc Smelter) PO : Zinc Smelter, District Udaipur (Rajasthan) | Type of Unit : | Smelter |
| Type of Sample | Stack Emission Level | Date of Sample Collection/Monitoring : | 29-12-2021 |
| Point of Collection : | Stack Roaster III | Date of Receipt : | 29-12-2021 |
| Date of Test/Analysis : | 29-12-2021 to 04-01-2022 | Sampling Plan : | IS 11255:2008(Part 3)/RA 2016 |
| Quantity of Sample | - | Sample Collected By : | Vimal Kumar Yadav |
| Unit's representative : | Ms. Navodita Shaktawat | Condition of Sample : | Fit for testing |

RESULTS

| S.No | Parameters | Observed Value | Testing Protocol |
|------|--------------------------------|----------------|------------------|
| 1 | Acid Mist (mg/m ³) | 28.4 | USEPA Method BA |

Notes -

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P. Pradyumn
Senior Analyst


Rajesh Maheshwari
Authorized Signatory
(Report No: 500001940)



TEAM TEST HOUSE

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



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E.tmail : marketing@teamtesthouse.com

TEST REPORT

| | | | |
|------------------------|---|---------------------------------------|------------------------------|
| Report No./ULR No.: | TC502522500001938 | Date: | 04-01-2022 |
| Issued To: | M/S Hindusthan Zinc Limited (Debari Zinc Smelter) PO : Zinc Smelter, District Udaipur (Rajasthan). | Type of Unit: | Smelter |
| Type of Sample: | Stack Emission Level | Date of Sample Collection/Monitoring: | 28-12-2021 |
| Point of Collection: | Auxiliary Boiler Stack | Date of Receipt: | 29-12-2021 |
| Date of Test/Analysis: | 29-12-2021 to 04-01-2022 | Sampling Plan: | IS 11255:2008(Part 3)RA 2018 |
| Quantity of Sample: | - | Sample Collected By: | Vimal Kumar Yadav |
| Unit's representative: | Ms. Navodita Shaktawat | Condition of Sample: | Fit for testing |

RESULTS

| S.No | Parameters | Observed Value | Testing Protocol |
|------|--|----------------|---|
| 1 | Particulate matter [mg/Nm ³] | 22.71 | IS 11255 (Part 1) 1985 Reaffirmed 2014 |

Notes:

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Senior Analyst

Mini Yogi

Authorized Signatory

(Report No: TC502522500001938)



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TEST REPORT

| | | | |
|-------------------------|---|--|-------------------------------|
| Report No./ILR No. : | TC502522500000023 | Date | 31-01-2022 |
| Issued To : | M/S Hindusthan Zinc Limited (Debari Zinc Smelter) PO : Zinc Smelter, District Udaipur (Rajasthan). | Type of Unit : | Smelter |
| Type of Sample : | Stack Emission Level | Date of Sample Collection/Monitoring : | 04-01-2022 |
| Point of Collection : | Zinc Melting Furnace | Date of Receipt : | 07-01-2022 |
| Date of Test/Analysis : | 07-01-2022 to 27-01-2022 | Sampling Plan : | IS 11255:2008(Part 3)/RA 2018 |
| Quantity of Sample : | - | Sample Collected By : | Vimal Kumar Yadav |
| Unit's representative : | Ms. Navodita Shaktawat | Condition of Sample : | Fit for testing |

RESULTS

| S.No | Parameters | Observed Value | Testing Protocol |
|------|--|----------------|--|
| 1 | Particulate matter (mg/Nm ³) | 18.12 | IS 11255 (Part 1):1985 Reaffirmed 2014 |

Notes -

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P. Yogi
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P. Yogi

Rajesh Kumar
Rajesh Kumar
(Report No. TC502522500000023)



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TEST REPORT

| | | | |
|-------------------------|---|--|------------------------------|
| Report No./ULR No. | TC50252250000024 | Date | 31-01-2022 |
| Issued To : | M/S Hindusthan Zinc Limited (Debari Zinc Smelter) PO - Zinc Smelter, District Udaipur (Rajasthan). | Type of Unit : | Smelter |
| Type of Sample : | Stack Emission Level | Date of Sample Collection/Monitoring : | 04-01-2022 |
| Point of Collection : | Induction Furnace Stack | Date of Receipt : | 07-01-2022 |
| Date of Test/Analysis : | 07-01-2022 to 27-01-2022 | Sampling Plan : | IS 11255:2008(Part 3)RA 2018 |
| Quantity of Sample : | - | Sample Collected By : | Vinod Kumar Yadav |
| Unit's representative : | Ms. Navodita Shaktawat | Condition of Sample : | Fit for testing |

RESULTS

| S.No | Parameters | Observed Value | Testing Protocol |
|------|--|----------------|--|
| 1 | Particulate matter (mg/Nm ³) | 29.07 | IS 11255 (Part 1):1985 Reaffirmed 2014 |

Notes :-

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P. Mal Yogi
 Senior Analyst
Puran Mal Yogi

Rajesh Maheshwari
 Authorized Signatory
Rajesh Maheshwari
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TEST REPORT

| | | | |
|-------------------------|--|--|------------------------------|
| Report No./ULR No. : | TC502522500000025 | Date : | 31-01-2022 |
| Issued To : | M/S Hindusthan Zinc Limited (Debari Zinc Smelter) PO : Zinc Smelter, District Udaipur (Rajasthan) | Type of Unit : | Smelter |
| Type of Sample : | Stack Emission Level | Date of Sample Collection/Monitoring : | 04-01-2022 |
| Point of Collection : | Azex Furnace | Date of Receipt : | 07-01-2022 |
| Date of Test/Analysis : | 07-01-2022 to 27-01-2022 | Sampling Plan : | IS 11255:2008(Part 3)RA 2018 |
| Quantity of Sample : | - | Sample Collected By : | Vimal Kumar Yadav |
| Unit's representative : | Ms. Navodita Shaktawat | Condition of Sample : | Fit for testing |

RESULTS

| S.No | Parameters | Observed Value | Testing Protocol |
|------|--|----------------|--|
| 1 | Particulate matter (mg/Nm ³) | 25.77 | IS 11255 (Part 1):1985 Reaffirmed 2014 |

Notes -

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Senior Analyst
Puran Mal Yogi

Signature
Rajesh Malhotra
(Report No: TC502522500000025)



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TEST REPORT

| | | | | |
|------------------------|--|---------------------------------------|------------------------------|------------|
| Report No./ULR No.: | TC502522500000026 | | Date: | 31-01-2022 |
| Issued To: | M/S Hindusthan Zinc Limited (Deban Zinc Smelter) | Type of Unit: | Smelter | |
| Type of Sample: | Stack Emission Level | Date of Sample Collection/Monitoring: | 04-01-2022 | |
| Point of Collection: | Slag Grinding | Date of Receipt: | 07-01-2022 | |
| Date of Test/Analysis: | 07-01-2022 to 27-01-2022 | Sampling Plan: | IS 11255-2008(Part 3)RA 2016 | |
| Quantity of Sample: | - | Sample Collected By: | Vimal Kumar Yadav | |
| Unit's representative: | Ms. Navodita Shaktawat | Condition of Sample: | Fit for testing | |

| RESULTS | | | |
|---------|--|----------------|---|
| S.No | Parameters | Observed Value | Testing Protocol |
| 1 | Particulate matter (mg/Nm ³) | 26.01 | IS 11255 (Part 1): 1985 Reaffirmed 2014 |

Notes:

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P. Singh
 Senior Analyst
Purni Mal Yogi

P. Singh
 Rajesh Mal Yogi
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TEST REPORT

| | | | |
|-----------------------|--|--------------------------------------|------------------------------|
| Report No./LIR No. | TC502522500000022 | Date | 31-01-2022 |
| Issued To | M/S Hindusthan Zinc Limited (Debari Zinc Smelter) PO : Zinc Smelter, District Udaipur (Rajasthan) | Type of Unit | Smelter |
| Type of Sample | Stack Emission Level | Date of Sample Collection/Monitoring | 04-01-2022 |
| Point of Collection | MCTP Stack | Date of Receipt | 07-01-2022 |
| Date of Test/Analysis | 07-01-2022 to 27-01-2022 | Sampling Plan | IS 11255:2009(Part 1)RA 2018 |
| Quantity of Sample | - | Sample Collected By | Vinay Kumar Yadav |
| Unit's representative | Ms. Navodita Shaktawat | Condition of Sample | Fit for testing |

RESULTS

| S.No | Parameters | Observed Value | Testing Protocol |
|------|--|----------------|--|
| 1 | Particulate matter (mg/Nm ³) | 36.15 | IS 11255 (Part 1):1985 Reaffirmed 2014 |

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Senior Analyst
Puran Mal Yadav

Signature
Rajesh Malleshwar
 (Report No: TC502522500000022)



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TEST REPORT

| | | | |
|-------------------------|---|--|------------------------------|
| Report No./JLR No. : | 50000022 | Date | 31-01-2022 |
| Issued To : | M/S Hindusthan Zinc Limited (Doban Zinc Smelter) PO : Zinc Smelter, District Udaipur (Rajasthan) | Type of Unit : | Smelter |
| Type of Sample | Stack Emission Level | Date of Sample Collection/Monitoring : | 04-01-2022 |
| Point of Collection | MCTP Stack | Date of Receipt : | 07-01-2022 |
| Date of Test/Analysis : | 07-01-2022 to 27-01-2022 | Sampling Plan : | IS 11255:2006(Part 3)NA 2018 |
| Quantity of Sample | | Sample Collected By : | Vimal Kumar Yadav |
| Unit's representative : | MS. Navodita Shaktawat | Condition of Sample | Fit for testing |

RESULTS

| S.No | Parameters | Observed Value | Testing Protocol |
|------|----------------------------|----------------|------------------|
| 1 | Lead [mg/Nm ³] | 0.15 | USEPA method 29 |

Notes

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Senior Analyst
Puran Mal Yogi

Rajan Kishor Singh
 (Report No: 50000022)



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 Email : marketinglab@teamtesthouse.com

TEST REPORT

| | | | |
|-------------------------|--|--|------------------------------|
| Report No./LIR No. | TC502522500000028 | Date : | 31-01-2022 |
| Issued To : | M/S Hindustan Zinc Limited (Debari Zinc Smelter) PO : Zinc Smelter, District Udaipur (Rajasthan). | Type of Unit : | Smelter |
| Type of Sample : | Stack Emission Level | Date of Sample Collection/Monitoring : | 05-01-2022 |
| Point of Collection : | Stack Rodster-II | Date of Receipt : | 07-01-2022 |
| Date of Test/Analysis : | 07-01-2022 to 31-01-2022 | Sampling Plan : | IS 11255-2008(Part 3)RA-2018 |
| Quantity of Sample : | - | Sample Collected By : | Vimal Kumar Yadav |
| Unit's representative : | Ms. Navodita Shaktarwal | Condition of Sample : | Fit for testing |

RESULTS

| S.No | Parameters | Observed Value | Testing Protocol |
|------|---------------------------------------|----------------|--|
| 1 | Sulphur Dioxide (mg/Nm ³) | 131 | IS 11255(Part 2) :1985 Reaffirmed 2014 |

Notes

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[Signature]
 Pufan Mal Yogi

[Signature]
 Ramesh Mishra
 (Report No: TC502522500000028)



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TEST REPORT

| | | | |
|------------------------|--|---------------------------------------|------------------------------|
| Report No./LR No.: | 500000028 | Date: | 31-01-2022 |
| Issued To: | M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan) | Type of Unit: | Smelter |
| Type of Sample: | Stack Emission Level | Date of Sample Collection/Monitoring: | 05-01-2022 |
| Point of Collection: | Stack Roaster-II | Date of Receipt: | 07-01-2022 |
| Date of Test/Analysis: | 07-01-2022 to 31-01-2022 | Sampling Plan: | IS 11255:2009(Part 3)RA 2018 |
| Quantity of Sample: | - | Sample Collected By: | Vinay Kumar Yadav |
| Unit's representative: | Ms. Navodita Shuklaawat | Condition of Sample: | Fit for testing |

RESULTS

| S.No | Parameters | Observed Value | Testing Protocol |
|------|-------------------|----------------|------------------|
| 1 | Acid Mist [mg/m3] | 26.7 | USEPA Method 8A |

NOTE -

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Puraj
 Senior Analyst
Puran Mal Yogi

Rajesh
Rajesh Kumar Bhatnagar
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TEST REPORT

| | | | |
|-----------------------|--|--------------------------------------|------------------------------|
| Report No./ULR No. : | TC502522500000029 | Date : | 31-01-2022 |
| Issued To : | M/S Hindustan Zinc Limited (Debari Zinc Smelter) PO : Zinc Smelter, District Udaipur (Rajasthan). | Type of Unit : | Smelter |
| Type of Sample : | Stack Emission Level | Date of Sample Collection/Monitoring | 04-01-2022 |
| Point of Collection | Stack Roaster III | Date of Receipt | 07-01-2022 |
| Date of Test/Analysis | 07-01-2022 to 31-01-2022 | Sampling Plan : | IS 11255:2008(Part 3)RA 2018 |
| Quantity of Sample | - | Sample Collected By | Vimal Kumar Yadav |
| Unit's representative | Ms. Navodita Shaktawat | Condition of Sample : | Fit for testing |

RESULTS

| S.No | Parameters | Observed Value | Testing Protocol |
|------|---------------------------------------|----------------|---------------------------------------|
| 1 | Sulphur Dioxide (mg/Nm ³) | 126 | IS 11255(Part 2):1985 Reaffirmed 2014 |

Notes :-

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Pursh Mal Yogi

Rajesh Mehrotra
 Rajesh Mehrotra
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TEST REPORT

| | | | |
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| Issued To : | M/S Hindustan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan). | Type of Unit : | Smelter |
| Type of Sample : | Stack Emission Level | Date of Sample Collection/Monitoring : | 04-01-2022 |
| Point of Collection : | Stack Rooster III | Date of Receipt : | 07-01-2022 |
| Date of Test/Analysis : | 07-01-2022 to 31-01-2022 | Sampling Plan : | ISI 11255:2008(Part 3)RA 2018 |
| Quantity of Sample : | - | Sample Collected By : | Vimal Kumar Yadav |
| Unit's representative : | Ms. Navodita Shaktawat | Condition of Sample : | Fit for testing |

RESULTS

| S.No | Parameters | Observed Value | Testing Protocol |
|------|--------------------------------|----------------|------------------|
| 1 | Acid Mist [mg/m ³] | 28.5 | USEPA Method 8A |

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Puran
Senior Analyst
Puran Mal Yogi

Rajesh
Rajesh Maheshwari
(Report No: 50000029)



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TEST REPORT

| | | | |
|------------------------|---|---------------------------------------|-------------------------------|
| Report No./LR No.: | TC502522500000027 | Date: | 01-01-2022 |
| Issued To: | M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan). | Type of Unit: | Mines |
| Type of Sample: | Stack Emission Level | Date of Sample Collection/Monitoring: | 05-01-2022 |
| Point of Collection: | Auxiliary Boiler Stack | Date of Receipt: | 07-01-2022 |
| Date of Test/Analysis: | 07-01-2022 to 27-01-2022 | Sampling Plan: | IS 11255-2008(Part 3)/RA 2018 |
| Quantity of Sample: | - | Sample Collected By: | Vimal Kumar Yadav |
| Unit's representative: | Ms. Navodita Shaktawat | Condition of Sample: | Fit for testing |

RESULTS

| S.No | Parameters | Observed Value | Testing Protocol |
|------|--|----------------|--|
| 1 | Particulate matter [mg/Nm ³] | 41.36 | IS 11255 (Part 1), 1985 Reaffirmed 2014 |

Note -

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Senior Analyst
Puran Meher Yoge

Rajasthan Metrology
Rajesh Kumar Singhary
(Report No: TC502522500000027)



TEAM TEST HOUSE

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



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ISO 9001:2015

ISO 14001:2015

ISO 45001:2018 (OH&S)

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Email : marketing@teamtesthouse.com

TEST REPORT

| | | | |
|-------------------------|--|--|-------------------------------|
| Report No./LR No. : | TC502522500000132 | Date : | 12-02-2022 |
| Issued To : | M/S Hindustan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan), | Type of Unit : | Smelter |
| Type of Sample : | Stack Emission Level | Date of Sample Collection/Monitoring : | 08-02-2022 |
| Point of Collection : | Zinc Melting Furnace | Date of Receipt : | 09-02-2022 |
| Date of Test/Analysis : | 09-02-2022 to 11-02-2022 | Sampling Plan : | IS 11255:2008(Part 3)/RA 2018 |
| Quantity of Sample : | - | Sample Collected By : | Vinod Kumar Yadav |
| Unit's representative : | Ms. Navodita Shaktawat | Condition of Sample : | Fit for testing |

RESULTS

| S.No | Parameters | Observed Value | Testing Protocol |
|------|--|----------------|--|
| 1 | Particulate matter [mg/Nm ³] | 20.18 | IS 11255 (Part 1):1985 Reaffirmed 2014 |

Notes :-

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

Authorised Signatory
Rajesh Maheshwar
(Report No: TC502522500000132)



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KNPC B

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 Email : marketing@teamtesthouse.com

TEST REPORT

| | | | |
|-------------------------|---|--|-------------------------------|
| Report No./ULR No. | TC50252250000133 | Date : | 12-02-2022 |
| Issued To : | M/S Hindustan Zinc Limited (Deban Zinc Smelter) PO : Zinc Smelter, District Udaipur (Rajasthan). | Type of Unit : | Smelter |
| Type of Sample : | Stack Emission Level | Date of Sample Collection/Monitoring : | 08-02-2022 |
| Point of Collection : | Induction Furnace Stack | Date of Receipt : | 09-02-2022 |
| Date of Test/Analysis : | 09-02-2022 to 11-02-2022 | Sampling Plan : | IS 11255:2008(Part 3)/RA 2018 |
| Quantity of Sample : | - | Sample Collected By : | Vimal Kumar Yadav |
| Unit's representative : | Ms. Nivedita Shaktigwal | Condition of Sample : | Fit for testing |

RESULTS

| S.No | Parameters | Observed Value | Testing Protocol |
|------|--|----------------|--|
| 1 | Particulate matter [mg/Nm ³] | 28.73 | IS 11255 (Part 1):1985 Reaffirmed 2014 |

Notes -

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Manoj Mal
 Senior Analyst

Rajesh Maheshwari
 Regulatory Signatory
 (Report No: TC50252250000133)



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RSPCB

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Email : marketing@teamtesthouse.com

TEST REPORT

| | | | |
|-----------------------|--|--------------------------------------|------------------------------|
| Report No./ULR No. | TC50252250000134 | Date | 12-02-2022 |
| Issued To | M/S Hindusthan Zinc Limited (Debari Zinc Smelter) PO - Zinc Smelter, District Udaipur (Rajasthan) | Type of Unit | Smelter |
| Type of Sample | Stack Emission Level | Date of Sample Collection/Monitoring | 08-02-2022 |
| Point of Collection | Azox Furnace | Date of Receipt | 09-02-2022 |
| Date of Test/Analysis | 09-02-2022 to 11-02-2022 | Sampling Plan | IS 11255:2008(Part 3)RA 2018 |
| Quantity of Sample | | Sample Collected By | Vimal Kumar Yadav |
| Unit's representative | Ms. Navodita Shaktawat | Condition of Sample | Fit for testing |

RESULTS

| S.No | Parameters | Observed Value | Testing Protocol |
|------|--|----------------|---|
| 1 | Particulate matter (mg/Nm ³) | 24.09 | IS 11255 (Part 1):1985 Reaffirmed 2014 |

Notes -

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[Signature]
Senior Analyst Mal Yogi

[Signature]
Rajesh Maheshwari
Authorized Signatory
(Report No: TC50252250000134)



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TEST REPORT

| | | | |
|-----------------------|---|--------------------------------------|------------------------------|
| Report No./ULR No. | TC502522500000135 | Date | 12-02-2022 |
| Issued To | M/S Hindusthan Zinc Limited (Debari Zinc Smelter) PO Zinc Smelter, District Udaipur (Rajasthan). | Type of Unit | Smelter |
| Type of Sample | Stack Emission Level | Date of Sample Collection/Monitoring | 08.02.2022 |
| Point of Collection | Slag Grinding | Date of Receipt | 09.02.2022 |
| Date of Test/Analysis | 09-02-2022 to 11-02-2022 | Sampling Plan | IS 11255:2008(Part 3)RA 2018 |
| Quantity of Sample | | Sample Collected By | Vimal Kumar Yadav |
| Unit's representative | Ms. Navodita Shaktawat | Condition of Sample | Fit for testing |

RESULTS

| S.No | Parameters | Observed Value | Testing Protocol |
|------|--|----------------|--|
| 1 | Particulate matter (mg/Nm ³) | 19.14 | IS 11255 (Part 1):1985 Reaffirmed 2014 |

Notes:-

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Srini V. Yogi
 Senior Analyst/M&E Yogi

Hajari Maheshwari
 Authorized Signatory
 (Report No: TC502522500000135)



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Email : marketing@teamtesthouse.com

TEST REPORT

| | | | |
|-----------------------|--|--------------------------------------|-------------------------------|
| Report No./ULR No. | TC50252250000131 | Date | 12-02-2022 |
| Issued To | M/S Hindustan Zinc Limited (Dabai Zinc Smelter) PO - Zinc Smelter, District Udaipur (Rajasthan) | Type of Unit | Smelter |
| Type of Sample | Stack Emission Level | Date of Sample Collection/Monitoring | 08-02-2022 |
| Point of Collection | MCTP Stack | Date of Receipt | 09-02-2022 |
| Date of Test/Analysis | 09-02-2022 to 11-02-2022 | Sampling Plan | IS 11255-2008(Part 3)/RA 2016 |
| Quantity of Sample | - | Sample Collected By | Vimal Kumar Yadav |
| Unit's representative | Ms. Navodita Shaktawat | Condition of Sample | Fit for testing |

RESULTS

| S.No | Parameters | Observed Value | Testing Protocol |
|------|--|----------------|--|
| 1 | Particulate matter (mg/Nm ³) | 37.72 | IS 11255 (Part 1):1985 Reaffirmed 2014 |

Notes -

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Signature
S. P. Mal Yogi

Signature
Rajesh Maheshwar
Authorized Signatory
(Report No: TC50252250000131)



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 Email : marketinglab@teamtesthouse.com

TEST REPORT

| | | | |
|-------------------------|--|--|------------------------------|
| Report No./IIR No. : | 500000131 | Date : | 12-02-2022 |
| Issued To : | M/S Hindusthan Zinc Limited (Debon Zinc Smelter) PO Zinc Smelter, District Udaipur (Rajasthan). | Type of Unit : | Smelter |
| Type of Sample : | Stack Emission Level | Date of Sample Collection/Monitoring : | 08-02-2022 |
| Point of Collection : | MCTP Stack | Date of Receipt : | 09-02-2022 |
| Date of Test/Analysis : | 09-02-2022 to 11-02-2022 | Sampling Plan : | IS 11255:2008(Part 3)HA 2018 |
| Quantity of Sample : | - | Sample Collected By : | Vimal Kumar Yadav |
| Unit's representative : | Ms. Navodita Shaktawat | Condition of Sample : | Fit for testing |

RESULTS

| S.No | Parameters | Observed Value | Testing Protocol |
|------|----------------------------|----------------|------------------|
| 1 | Lead (mg/Nm ³) | 0.07 | USEPA method 29 |

Notes :-

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Sr. Analyst *Mai Yoda*

Authorized Signatory
 (Report No: 500000131)



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|--|-----------------------------------|--|---------|

TEST REPORT

| | | | |
|-------------------------|--|--|-------------------------------|
| Report No./ULR No. : | 50000136 | Date : | 12-02-2022 |
| Issued To : | M/S Hindustan Zinc Limited (Debari Zinc Smelter) PO : Zinc Smelter, District Udaipur (Rajasthan). | Type of Unit : | Smelter |
| Type of Sample : | Stack Emission Level | Date of Sample Collection/Monitoring : | 08-02-2022 |
| Point of Collection : | Stack Roaster-II | Date of Receipt : | 09-02-2022 |
| Date of Test/Analysis : | 08-02-2022 to 11-02-2022 | Sampling Plan : | IS 11255:2008(Part 3)/RA 2018 |
| Quantity of Sample : | - | Sample Collected By : | Vinay Kumar Yadav |
| Unit's representative : | Ms. Navdita Shaktawat | Condition of Sample : | Fit for testing |

RESULTS

| S.No | Parameters | Observed Value | Testing Protocol |
|------|--------------------------------|----------------|------------------|
| 1 | Acid Mist (mg/m ³) | 28.2 | USEPA Method 8A |

Notes :

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Pradyumn
Senior Analyst
Pradyumn Mal Yogi

Rajendra
Rajendra Mal Yogi
Senior Analyst
(Report No: 50000136)



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 Email : marketinglab@teamtesthouse.com

TEST REPORT

| | | | |
|-------------------------|---|--|------------------------------|
| Report No./JLR No. : | TC50252250000136A | Date : | 11-04-2022 |
| Issued To : | M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udalgur (Rajasthan). | Type of Unit : | Smelter |
| Type of Sample : | Stack Emission Level | Date of Sample Collection/Monitoring : | 08-02-2022 |
| Point of Collection : | Stack Roaster-II | Date of Receipt : | 09-02-2022 |
| Date of Test/Analysis : | 09-02-2022 to 11-02-2022 | Sampling Plan : | IS 11255-2008(Part 3)RA 2018 |
| Quantity of Sample : | - | Sample Collected By : | Vinay Kumar Yadav |
| Unit's representative : | Ms. Navodita Shaktawat | Condition of Sample : | Fit for testing |

RESULTS

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

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

B. J. Singh
Authorized Signatory
(Report No: TC50252250000136)



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TEST REPORT

| | | | |
|------------------------|--|---------------------------------------|--------------------------------|
| Report No./ULR No.: | TC502522500000137 | Date: | 12-02-2022 |
| Issued To: | M/S Hindusthan Zinc Limited [Debon Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan). | Type of Unit: | Smelter |
| Type of Sample: | Stack Emission Level | Date of Sample Collection/Monitoring: | 08-02-2022 |
| Point of Collection: | Stack Roaster III | Date of Receipt: | 08-02-2022 |
| Date of Test/Analysis: | 08-02-2022 to 11-02-2022 | Sampling Plan: | IS 11255 2008 (Part 3) RA 2010 |
| Quantity of Sample: | - | Sample Collected By: | Vimal Kumar Yadav |
| Unit's representative: | Ms. Navodita Shaktawat | Condition of Sample: | Fit for testing |

RESULTS

| S.No | Parameters | Observed Value | Testing Protocol |
|------|---------------------------------------|----------------|--|
| 1 | Sulphur Dioxide (mg/Nm ³) | 128 | IS 11255 (Part 2) : 1985 Reaffirmed 2014 |

Notes:

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Senior Analyst
Purni Mal Yogi

Rakesh Wadhwa
Authorized Signatory
(Report No: TC502522500000137)



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TEST REPORT

| | | | |
|-------------------------|---|--|-------------------------------|
| Report No./ULR No. : | 90000137 | Date : | 12-02-2022 |
| Issued To : | M/S Hindusthan Zinc Limited (Debari Zinc Smelter) PO : Zinc Smelter, District Udaipur (Rajasthan). | Type of Unit : | Smelter |
| Type of Sample : | Stack Emission Level | Date of Sample Collection/Monitoring : | 08-02-2022 |
| Point of Collection : | Stack Roaster II | Date of Receipt : | 09-02-2022 |
| Date of Test/Analysis : | 09-02-2022 to 11-02-2022 | Sampling Plan : | IS 11255:2008(Part JIRA 7018) |
| Quantity of Sample : | - | Sample Collected By : | Vimal Kumar Yadav |
| Unit's representative : | Ms. Nevudita Shaktawat | Condition of Sample : | Fit for testing |

RESULTS

| S.No | Parameters | Observed Value | Testing Protocol |
|------|--------------------------------|----------------|------------------|
| 1 | Acid Mist (mg/m ³) | 25.7 | USEPA Method 8A |

Notes -

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[Signature]
Sengr Analyst Mal Yogi

[Signature]
Rajesh Mathur
Authorized Signatory
(Report No: 90000137)



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TEST REPORT

| | | | |
|-------------------------|--|--------------------------------------|------------------------------|
| Report No./JLR No. | TC502522500000272 | Date : | 12-03-2022 |
| Issued To : | M/S Hindustan Zinc Limited (Debari Zinc Smelter) PO : Zinc Smelter, District Udaipur (Rajasthan). | Type of Unit : | Smelter |
| Type of Sample : | Stack Emission Level | Date of Sample Collection/Monitoring | 07-03-2022 |
| Point of Collection | Zinc Melting Furnace | Date of Receipt | 09-03-2022 |
| Date of Test/Analysis : | 09-03-2022 to 11-03-2022 | Sampling Plan | IS 11255-2008(Part 3)RA 2018 |
| Quantity of Sample | - | Sample Collected By : | Vimal Kumar Yadav |
| Unit's representative : | Ms. Navodita Shaktawat | Condition of Sample : | Fit for testing |

RESULTS

| S.No | Parameters | Observed Value | Testing Protocol |
|------|--|----------------|--|
| 1 | Particulate matter (mg/Nm ³) | 17.92 | IS 11255 (Part 1):1985 Reaffirmed 2014 |

Notes -

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Senior Analyst
Parag Mal Yogi

Authorized Signatory
(Report No. TC502522500000272)



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TEST REPORT

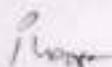
| | | | |
|------------------------|---|---------------------------------------|------------------------------|
| Report No./ILR No.: | TC502522500000273 | Date: | 12-03-2022 |
| Issued To: | M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan). | Type of Unit: | Smelter |
| Type of Sample: | Stack Emission Level | Date of Sample Collection/Monitoring: | 07-03-2022 |
| Point of Collection: | Induction Furnace Stack | Date of Receipt: | 09-03-2022 |
| Date of Test/Analysis: | 08-03-2022 to 11-03-2022 | Sampling Plan: | IS 11255:2008(Part 3)RA 2010 |
| Quantity of Sample: | - | Sample Collected By: | Vimal Kumar Yadav |
| Units representative: | Ms. Navodita Shahiwat | Condition of Sample: | Fit for testing |

RESULTS

| S.No | Parameters | Observed Value | Testing Protocol |
|------|--|----------------|--|
| 1 | Particulate matter [mg/Nm ³] | 29.24 | IS 11255 (Part 1):1985 Reaffirmed 2014 |

Notes -

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Senior Analyst
Purni Mal Yogi


Ravi
Authorized Signatory
(Report No. TC502522500000273)



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TEST REPORT

| | | | |
|-----------------------|--|--------------------------------------|-------------------------------|
| Report No./ULR No. | TC502522500000274 | Date | 12-03-2022 |
| Issued To | M/S Hindusthan Zinc Limited (Debari Zinc Smelter) PO : Zinc Smelter, District Udaipur (Rajasthan) | Type of Unit | Smelter |
| Type of Sample | Stack Emission Level | Date of Sample Collection/Monitoring | 07-03-2022 |
| Point of Collection | Azex Furnace | Date of Receipt | 09-03-2022 |
| Date of Test/Analysis | 08-03-2022 to 11-03-2022 | Sampling Plan | IS 11255:2006(Part 3)/RA 2018 |
| Quantity of Sample | - | Sample Collected By | Vimal Kumar Yadav |
| Unit's representative | Ms. Navodita Shaktawat | Condition of Sample | Fit for testing |

RESULTS

| S.No | Parameters | Observed Value | Testing Protocol |
|------|--|----------------|--|
| 1 | Particulate matter (mg/Nm ³) | 27.71 | IS 11255 (Part 1):1985 Reaffirmed 2014 |

Notes :-

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Script Analyst

Mai Yagi
Mai Yagi

Rajesh Maheshwari
Rajesh Maheshwari
Authorized Signatory
(Report No: TC502522500000274)



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| Report No./ULR No. | TC502522500000275 | Date : | 12-03-2022 |
| Issued To : | M/S Hindustan Zinc Limited (Debari Zinc Smelter) PO : Zinc Smelter, District Udaipur (Rajasthan). | Type of Unit : | Smelter |
| Type of Sample | Stack Emission Level | Date of Sample Collection/Monitoring : | 07-03-2022 |
| Point of Collection | Slag Grinding | Date of Receipt : | 09-03-2022 |
| Date of Test/Analysis : | 09-03-2022 to 11-03-2022 | Sampling Plan : | IS 11256:2008(Part 3)/RA 2018 |
| Quantity of Sample | - | Sample Collected By : | Vimal Kumar Yadav |
| Unit's representative : | Ms. Navodita Shaktawat | Condition of Sample : | Fit for testing |

RESULTS

| S.No | Parameters | Observed Value | Testing Protocol |
|------|--|----------------|--|
| 1 | Particulate matter (mg/Nm ³) | 38.08 | IS 11255 (Part 1):1985 Reaffirmed 2014 |

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Senior Analyst
Purni Mal Yogi

Authorized Signatory
(Report No: TC502522500000275)



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TEST REPORT

| | | | |
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| Report No./ILR No : | TC502522500000271 | Date : | 12-03-2022 |
| Issued To : | M/S Hindustan Zinc Limited (Debari Zinc Smelter) PO - Zinc Smelter, District Udaipur (Rajasthan) | Type of Unit : | Smelter |
| Type of Sample : | Stack Emission Level | Date of Sample Collection/Monitoring : | 07-03-2022 |
| Point of Collection : | MCTP Stack | Date of Receipt : | 09-03-2022 |
| Date of Test/Analysis : | 09-03-2022 | Sampling Plan : | IS 11266-2008(Part 3)/RA 2018 |
| Quantity of Sample : | - | Sample Collected By : | Vimal Kumar Yadav |
| Unit's representative : | Ms. Navodita Shaktawat | Condition of Sample : | Fit for testing |

RESULTS

| S.No | Parameters | Observed Value |
|------|--|----------------|
| 1 | Particulate matter (mg/Nm ³) | Shutdown |
| 2 | Lead (mg/Nm ³) | |

Notes -

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(Signature)
Senior Analyst
Vimal Kumar Yadav

(Signature)
Authorized Signatory
(Report No: TC502522500000271)



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TEST REPORT

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| Report No./JLR No.: | TC502522500000276 | Date | 12-03-2022 |
| Issued To: | M/S Hindusthan Zinc Limited (Debari Zinc Smelter) PO : Zinc Smelter, District Udaipur (Rajasthan). | Type of Unit: | Smelter |
| Type of Sample: | Stack Emission Level | Date of Sample Collection/Monitoring: | 07-03-2022 |
| Point of Collection: | Stack Roaster-II | Date of Receipt: | 09-03-2022 |
| Date of Test/Analysis: | 09-03-2022 to 11-03-2022 | Sampling Plan: | IS 11255 2008(Part 3)RA 2018 |
| Quantity of Sample: | - | Sample Collected By: | Vimal Kumar Yadav |
| Unit's representative: | Ms. Navodita Shaktawat | Condition of Sample: | Ft for testing |

RESULTS

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

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Senior Analyst

Peran Mal Yogi

Ray

Authorized Signatory

(Report No. TC502522500000276)



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| Report No./ILR No. : | 50000276 | Date : | 12-03-2022 |
| Issued To : | M/S Hindustan Zinc Limited (Debari Zinc Smelter) PO : Zinc Smelter, District Udaipur (Rajasthan), | Type of Unit : | Smelter |
| Type of Sample : | Stack Emission Level | Date of Sample Collection/Monitoring : | 07-03-2022 |
| Point of Collection : | Stack Roaster-II | Date of Receipt : | 08-03-2022 |
| Date of Test/Analysis : | 09-03-2022 to 11-03-2022 | Sampling Plan : | IS 11255:2008(Part 3)RA 2018 |
| Quantity of Sample : | - | Sample Collected By : | Vimal Kumar Yadav |
| Unit's representative : | Ms. Navodita Shaktiwal | Condition of Sample : | Fit for testing |

RESULTS

| S.No | Parameters | Observed Value | Testing Protocol |
|------|--------------------------------|----------------|----------------------------------|
| 1 | Acid Mist [mg/m ³] | 26.5 | IS 3025 (Part 57) : 2005 RA 2017 |

Notes -

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Mol Yogi
Senior Analyst Mol Yogi

Rajendra
Authorized Signatory
(Report No: 50000276)



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| Report No./ULR No. : | TC50252250000277 | Date : | 12-03-2022 |
| Issued To : | M/S Hindusthan Zinc Limited (Debari Zinc Smelter) PO : Zinc Smelter, District Udaipur (Rajasthan). | Type of Unit : | Smelter |
| Type of Sample : | Stack Emission Level | Date of Sample Collection/Monitoring : | 07-03-2022 |
| Point of Collection : | Stack Rooster III | Date of Receipt : | 09-03-2022 |
| Date of Test/Analysis : | 09-03-2022 to 11-03-2022 | Sampling Plan : | IS 11255:2008(Part 3)RA 2018 |
| Quantity of Sample : | - | Sample Collected By : | Vimal Kumar Yadav |
| Unit's representative : | Ms. Navodita Shaktawat | Condition of Sample : | Fit for testing |

RESULTS

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

Notes :-

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Sample Analyst
Gurun Mal Yogi

Rajesh Maheshwari
Authorized Signatory

(Report No: TC50252250000277)



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TEST REPORT

| | | | |
|-------------------------|--|--|------------------------------|
| Report No./ULR No. : | TC50252250000269 | Date : | 11-04-2022 |
| Issued To : | M/s Hindustan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan). | Type of Unit : | Smelter |
| Type of Sample : | Stack Emission Level | Date of Sample Collection/Monitoring : | 16-03-2022 |
| Point of Collection : | DG Set /CPP-1 | Date of Sample Receipt : | 18-03-2022 |
| Date of Test : | 18-03-2022 to 30-03-2022 | Sampling Plan : | IS 11255-2008/Part 3/RA 2019 |
| Quantity of Sample : | - | Sample Collected By : | Vimal Kumar Yadav |
| Unit's representative : | Ms. Navodita Shaktawat | Condition of Sample : | Fit for testing |

RESULTS

| S.No | Parameters | Observed Value | Testing Protocol | Limits as per Environment protection rules, 1986 |
|------|--|----------------|---|--|
| 1 | Particulate matter [mg/Nm ³] | 42.48 | IS 11255 (Part 1) : 1985 Reaffirmed 2014 | 75 |
| 2 | Oxides of Nitrogen [mg/Nm ³] | 260 | IS 11255 (Part 7) : 1985 Reaffirmed 2012 | 710 ppmv |
| 3 | Carbon monoxide [mg/Nm ³] | 117 | IS 5182 (Part 10) : 1995 RA 2019 | 150 |

Notes -

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Pujan Mal Yogi
Senior Analyst

Authorized Signatory
(Report No: TC50252250000269)



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TEST REPORT

| | | | |
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| Report No./LR No. | 500000277 | Date : | 12-03-2022 |
| Issued To : | M/S Hinduethan Zinc Limited (Dabari Zinc Smelter) PO : Zinc Smelter, District Udaipur (Rajasthan). | Type of Unit : | Smelter |
| Type of Sample | Stack Emission Level | Date of Sample Collection/Monitoring | 07-03-2022 |
| Point of Collection | Stack Roaster III | Date of Receipt : | 08-03-2022 |
| Date of Test/Analysis | 09-03-2022 to 11-03-2022 | Sampling Plan | IS 11255:2008(Part 3)/RA 2016 |
| Quantity of Sample | | Sample Collected By | Vimal Kumar Yadav |
| Unit's representative | Ms. Navodita Shaktawat | Condition of Sample : | Fits for testing |

RESULTS

| S.No | Parameters | Observed Value | Testing Protocol |
|------|-------------------|----------------|------------------|
| 1 | Acid Mist (mg/m3) | 24.3 | USEPA Method 8A |

Notes :-

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Senior Analyst
Puran Mal Yogi

Authorized Signatory
(Report No. 500000277)



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TEST REPORT

| | | | |
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| Report No./ALR No. : | 50000259 | Date : | 11-04-2022 |
| Issued To : | M/S Hindusthan Zinc Limited (Dahan Zinc Smelter) PO : Zinc Smelter, District Udaipur (Rajasthan), | Type of Unit | Smelter |
| Type of Sample : | Stack Emission Level | Date of Sample Collection/Monitoring : | 16-03-2022 |
| Point of Collection : | DG Set /CPP-1 | Date of Sample Receipt : | 18-03-2022 |
| Date of Test : | 18-03-2022 to 30-03-2022 | Sampling Plan : | IS 11255:2008(Part 3)/RA 2018 |
| Quantity of Sample : | - | Sample Collected By : | Vimal Kumar Yadav |
| Unit's representative : | Ms. Navodita Shaktawat | Condition of Sample : | Fit for testing |

RESULTS

| S.No | Parameters | Observed Value | Testing Protocol | Limits as per Environment protection rules, 1986 |
|------|---|----------------|----------------------------------|--|
| 1 | Non Methane Hydrocarbon as HC [mg/Nm ³] | 35 | IS 5182 (Part 21) : 2001 RA 2017 | 100 |

Notes :

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Senior Analyst

Pooja
Pooja Mal Yogi

Authorized Signatory
(Report No: 50000259)



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TEST REPORT

| | | | |
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| Report No./ILR No. | TC502522500000270 | Date | 11-04-2022 |
| Issued To : | M/S Hindustan Zinc Limited (Deban Zinc Smelter) PO - Zinc Smelter, District Udaipur (Rajasthan). | Type of Unit | Smelter |
| Type of Sample | Stack Emission Level | Date of Sample Collection/Monitoring | 18-03-2022 |
| Point of Collection | DG Set /CPP-II | Date of Sample Receipt | 18-03-2022 |
| Date of Test : | 18-03-2022 to 30-03-2022 | Sampling Plan : | IS 11255:2006(Part 3)RA 2018 |
| Quantity of Sample : | | Sample Collected By | Vimal Kumar Yadav |
| Unit's representative : | Ms. Navodita Shaktawat | Condition of Sample | Fit for testing |

RESULTS

| S.No | Parameters | Observed Value | Testing Protocol | Limits as per Environment protection rules, 1986 |
|------|--|----------------|--|--|
| 1 | Particulate matter [mg/Nm ³] | 42.04 | IS 11255 (Part 1): 1985 Reaffirmed 2014 | 75 |
| 2 | Oxides of Nitrogen [mg/Nm ³] | 249 | IS 11255 (Part 17): 1985 Redfirmed 2012 | 710 ppmv |
| 3 | Carbon monoxide [mg/Nm ³] | 96 | IS 5182 (Part 10): 1999 RA 2019 | 150 |

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Puran Mal Yogi
Puran Mal Yogi
Senior Analyst

Rajesh Mathur
Rajesh Mathur
Authorized Signatory
(Report No.: TC502522500000270)



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TEST REPORT

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| Report No./JLH No. : | 50000270 | Date : | 11-04-2022 |
| Issued To : | M/S Hindusthan Zinc Limited [Debon Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan) | Type of Unit : | Smelter |
| Type of Sample : | Stack Emission Level | Date of Sample Collection/Monitoring : | 16-03-2022 |
| Point of Collection : | DG-Set /CPP-II | Date of Sample Receipt : | 16-03-2022 |
| Date of Test : | 18-03-2022 to 30-03-2022 | Sampling Plan : | IS 11255:2008(Part 3)/RA 2018 |
| Quantity of Sample : | | Sample Collected By : | Vimal Kumar Yadav |
| Unit's representative : | Ms. Navodita Shaktawat | Condition of Sample : | Fit for testing |

RESULTS

| S.No | Parameters | Observed Value | Testing Protocol | Limits as per Environment protection rules, 1986 |
|------|---|----------------|-------------------------------------|--|
| 1 | Non Methane Hydrocarbon as HC [mg/Nm ³] | 41 | IS 5182 (Part 21) : 2001 RA 2017 | 100 |

Notes -

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Senior Analyst *Vimal Yadav*

Authorized Signatory
(Report No: 50000270.)



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TEST REPORT

| | | | |
|-----------------------|--|--------------------------------------|------------------------------|
| Report No./ULR No. | TC50252140003142 | Date: | 02-11-2021 |
| Issued To | M/E Hindusthan Zinc Limited (Dewan Zinc Smelter) PO: Zinc Smelter, District Udaipur (Rajasthan) | Type of Unit | Smelter |
| Type of Sample | Ambient Air Quality Monitoring | Date of Sample Collection/Monitoring | 27-10-2021 |
| Point of Collection | Laboratory Tap | Date of Receipt | 27-10-2021 |
| Date of Test/Analysis | 27-10-2021 to 02-11-2021 | Sampling Plan | IS 5182:2000(Part 14)RA 2014 |
| Quantity of Sample | | Sample Collected By | Vimal Kumar Yadav |
| Unit's representative | Ms. Navdita Shaktewal | Condition of Sample | Fit for testing |

RESULTS

| S.No | Parameters | Observed Value | Testing Protocol | Limits as per National Ambient Air Quality Standard, 2009 |
|------|---|----------------|--|---|
| 1 | Ammonia [microgram/m ³] | BDL (<10.0) | IS 5182 (Part 25) - 2018 | 400.00 |
| 2 | Carbon Monoxide [microgram/m ³] | 470 | TTH/AAQM08 | 4000 |
| 3 | Lead [microgram/m ³] | 0.12 | IS 5182 (Part 22) : 2004 Reaffirmed 2019 | 1.00 |
| 4 | Nitrogen Dioxide as NO ₂ [microgram/m ³] | 15.61 | IS 5182 (Part 6) : 2006 Reaffirmed 2017 | 80.00 |
| 5 | Ozone [microgram/m ³] | 20.5 | APHA 1977, Part 819 | 100.00 |
| 6 | Particulate Matter (PM _{2.5}) [microgram/m ³] | 31.75 | IS 5182 (Part 24) : 2019 | 80.00 |
| 7 | Sulphur Dioxide [microgram/m ³] | 8.7 | IS 5182 (Part 2) : 2001 RA 2017 | 80.00 |
| 8 | Particulate Matter (PM ₁₀) [microgram/m ³] | 69.09 | IS 5182 (Part 23)-2006 RA 2017 | 100.00 |
| 9 | Arsenic [ng/m ³] | BDL (~2.0) | IS 5182 (Part 22) : 2004 Reaffirmed 2019 | 6.00 |
| 10 | Nickel [ng/m ³] | 3.5 | IS 5182 : Part 26 : 2020 | 20.00 |

Notes:

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Rajran Mal Yogi

Rajran Mal Yogi



TEAM TEST HOUSE

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

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Email : marketing@teamtesthouse.com

TEST REPORT

| | | | |
|-----------------------|--|--------------------------------------|------------------------------|
| Report No./ULR No. | 400003142 | Date | 02-11-2021 |
| Issued To | M/S Hindustan Zinc Limited (Debari Zinc Smelter) PO - Zinc Smelter, District Udaipur (Rajasthan). | Type of Unit | Smelter |
| Type of Sample | Ambient Air Quality Monitoring | Date of Sample Collection/Monitoring | 22-10-2021 |
| Point of Collection | Laboratory Top | Date of Receipt | 27-10-2021 |
| Date of Test/Analysis | 27-10-2021 to 02-11-2021 | Sampling Plan | IS 5182:2000(Part 14)RA 2014 |
| Quantity of Sample | - | Sample Collected By | Vimal Kumar Yadav |
| Unit's representative | Ms. Navrati Shaktawat | Condition of Sample | Fit for testing |

RESULTS

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

Notes

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Senior Analyst

Authorized Signatory
(Report No: 400003142)



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Marketing@teamtesthouse.com

TEST REPORT

| | | | |
|-----------------------|---|--------------------------------------|------------------------------|
| Report No./ILR No. | TC502521400003143 | Date | 02-11-2021 |
| ISSUED TO | M/S Hindustan Zinc Limited (Debarh Zinc Smelter) PO : Zinc Smelter, District Udaipur (Rajasthan) | Type of Unit | Smelter |
| Type of Sample | Ambient Air Quality Monitoring | Date of Sample Collection/Monitoring | 21-10-2021 |
| Point of Collection | Near Railway Gate | Date of Receipt | 27-10-2021 |
| Date of Test/Analysis | 27-10-2021 to 02-11-2021 | Sampling Plan | IS 5182:2000(Part 14)RA 2014 |
| Quantity of Sample | | Sample Collected By | Vimal Kumar Yadav |
| Unit's representative | Ms. Navodita Shaktawat | Condition of Sample | Fit for testing |

RESULTS

| S.No | Parameters | Observed Value | Testing Protocol | Limits as per National Ambient Air Quality Standard, 2009 |
|------|---|----------------|---|---|
| 1 | Ammonia [microgram/m ³] | BDL (<10.0) | IS 5182 (Part 25) : 2018 | 400.00 |
| 2 | Carbon Monoxide [microgram/m ³] | 450 | TTH/AAQM/08 | 4000 |
| 3 | Lead [microgram/m ³] | 0.23 | IS 5182 (Part 22) : 2004 Reaffirmed 2019 | 1.00 |
| 4 | Nitrogen Dioxide as NO ₂ [microgram/m ³] | 16.85 | IS 5182 (Part 6) : 2006 Reaffirmed 2017 | 80.00 |
| 5 | Ozone [microgram/m ³] | 30.6 | APHA 1977 Part 819 | 100.00 |
| 6 | Particulate Matter (PM _{2.5}) [microgram/m ³] | 45.53 | IS 5182 (Part 24) : 2019 | 60.00 |
| 7 | Sulphur Dioxide [microgram/m ³] | 8.51 | IS 5182 (Part 2) : 2001 RA 2017 | 80.00 |
| 8 | Particulate Matter (PM ₁₀) [microgram/m ³] | 86.68 | IS 5182 (Part 23)-2006 RA 2017 | 100.00 |
| 9 | Arsenic [ng/m ³] | BDL(<2.0) | IS 5182 (Part 22) : 2004 Reaffirmed 2019 | 6.00 |
| 10 | Nickel [ng/m ³] | 4.0 | IS 5182 : Part 26 : 2020 | 20.00 |

Notes -

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Purpi Mal Yagi
Team

Rajesh Maheshwari

Rj



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TEST REPORT

| | | | |
|-----------------------|--|--------------------------------------|------------------------------|
| Report No./ILR No. | 400003143 | Date | 02-11-2021 |
| Issued To | M/s Hindustan Zinc Limited (Debas Zinc Smelter) PO - Zinc Smelter, District Udaipur (Rajasthan) | Type of Unit | Smelter |
| Type of Sample | Ambient Air Quality Monitoring | Date of Sample Collection/Monitoring | 21-10-2021 |
| Point of Collection | Near Railway Gate | Date of Receipt | 27-10-2021 |
| Date of Test/Analysis | 27-10-2021 to 02-11-2021 | Sampling Plan | IS 5182:2000(Part 14)RA 2014 |
| Quantity of Sample | | Sample Collected By | Vimal Kumar Yadav |
| Unit's representative | Ms. Navrota Shrivastava | Condition of Sample | Fit for testing |

RESULTS

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

Notes:

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Senior Analyst

Putan Mar Yogi
 Putan Mar Yogi

Rajesh

Rajesh

Authorized Signatory
 (Report No: 400003143)



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Email : marketing@teamtesthouse.com

TEST REPORT

| | | | |
|-----------------------|---|--------------------------------------|------------------------------|
| Report No./LFR No. | TC50262140003144 | Date | 02-11-2021 |
| Issued To | M/S Hindustan Zinc Limited (Dahan Zinc Smelter) PO - Zinc Smelter, District Laxapur (Rajasthan). | Type of Unit | Smelter |
| Type of Sample | Ambient Air Quality Monitoring | Date of Sample Collection/Monitoring | 21-10-2021 |
| Point of Collection | Near ETP | Date of Receipt | 27-10-2021 |
| Date of Test/Analysis | 27-10-2021 to 02-11-2021 | Sampling Plan | IS 5182:2000(Part 14)RA 2014 |
| Quantity of Sample | - | Sample Collected By | Vinay Kumar Yadav |
| Unit's representative | Ms. Navridita Shaktawat | Condition of Sample | Fit for testing |

RESULTS

| S.No | Parameters | Observed Value | Testing Protocol | Limits as per National Ambient Air Quality Standard, 2006 |
|------|---|----------------|---|---|
| 1 | Ammonia [microgram/m ³] | BDL (<10.0) | IS 5182 (Part 25) : 2018 | 400.00 |
| 2 | Carbon Monoxide [microgram/m ³] | 450 | TTH/AAQM/08 | 4000 |
| 3 | Lead [microgram/m ³] | 0.24 | IS 5182 (Part 22) : 2004 Reaffirmed 2019 | 1.00 |
| 4 | Nitrogen Dioxide as NO ₂ [microgram/m ³] | 15.67 | IS 5182 (Part 6) : 2006 Reaffirmed 2017 | 60.00 |
| 5 | Ozone [microgram/m ³] | 26.5 | APHA 1977 Part 819 | 100.00 |
| 6 | Particulate Matter (PM _{2.5}) [microgram/m ³] | 31.93 | IS 5182 (Part 24) : 2019 | 60.00 |
| 7 | Sulphur Dioxide [microgram/m ³] | 9 | IS 5182 (Part 2) : 2001 RA 2017 | 80.00 |
| 8 | Particulate Matter (PM ₁₀) [microgram/m ³] | 76.22 | IS 5182 (Part 23)-2006 RA 2017 | 100.00 |
| 9 | Arsenic [ng/m ³] | BDL(<2.0) | IS 5182 (Part 22) : 2004 Reaffirmed 2019 | 6.00 |
| 10 | Nickel [ng/m ³] | 6.1 | IS 5182 - Part 26 - 2020 | 20.00 |

Notes -

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Rajesh Mal Yogi
(Lead)

Rajesh Nageshwar

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TEST REPORT

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|-----------------------|--|--------------------------------------|------------------------------|
| Report No./I.L.R. No. | 400003144 | Date | 02-11-2021 |
| Issued To | M/S Hindustani Zinc Limited (Debari Zinc Smelter) PO - Zinc Smelter, District Udaipur (Rajasthan) | Type of Unit | Smelter |
| Type of Sample | Ambient Air Quality Monitoring | Date of Sample Collection/Monitoring | 21-10-2021 |
| Point of Collection | Near ETP | Date of Receipt | 27-10-2021 |
| Date of Test/Analysis | 27-10-2021 to 02-11-2021 | Sampling Plan | IS 5182:2000(Part 14)RA 2014 |
| Quantity of Sample | - | Sample Collected By | Vimal Kumar Yadav |
| Unit's representative | Ms. Navodita Shaktawat | Condition of Sample | Ft for testing |

RESULTS

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

- Notes:
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Navodita Shaktawat
 Navodita Shaktawat

Senior Analyst

Vimal Kumar Yadav
 Vimal Kumar Yadav
 Authorized Signatory
 (Report No. 400003144)



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Email : marketing@teamtesthouse.com

TEST REPORT

| | | | |
|-----------------------|---|--------------------------------------|------------------------------|
| Report No./ILR No. | TC50252140003145 | Date | 02-11-2021 |
| Issued To | M/S Hindusthan Zinc Limited (Debian Zinc Smelter) PO : Zinc Smelter, District Udaipur (Rajasthan). | Type of Unit | Smelter |
| Type of Sample | Ambient Air Quality Monitoring | Date of Sample Collection/Monitoring | 21-10-2021 |
| Point of Collection | Near DG Set | Date of Receipt | 27-10-2021 |
| Date of Test/Analysis | 27-10-2021 to 02-11-2021 | Sampling Plan | IS 5182:2000(Part 14)RA 2014 |
| Quantity of Sample | | Sample Collected By | Vimal Kumar Yadav |
| Unit's Representative | Ms. Navmita Shaktawat | Condition of Sample | Fit for testing |

RESULTS

| S.No | Parameters | Observed Value | Testing Protocol | Limits as per National Ambient Air Quality Standard, 2009 |
|------|---|----------------|---|---|
| 1 | Ammonia [microgram/m ³] | BDL (<10.0) | IS 5182 (Part 25) : 2018 | 400.00 |
| 2 | Carbon Monoxide [microgram/m ³] | 470 | TTH/AQM/08 | 4000 |
| 3 | Lead [microgram/m ³] | 0.23 | IS 5182 (Part 22) : 2004 Reaffirmed 2019 | 1.00 |
| 4 | Nitrogen Dioxide as NO ₂ [microgram/m ³] | 14.57 | IS 5182 (Part 5) : 2000 Reaffirmed 2017 | 80.00 |
| 5 | Ozone [microgram/m ³] | 28.3 | APHA 1977, Part 819 | 100.00 |
| 6 | Particulate Matter (PM _{2.5}) [microgram/m ³] | 36.34 | IS 5182 (Part 24) : 2019 | 60.00 |
| 7 | Sulphur Dioxide [microgram/m ³] | 7.34 | IS 5182 (Part 2) : 2001 RA 2017 | 80.00 |
| 8 | Particulate Matter (PM ₁₀) [microgram/m ³] | 73.58 | IS 5182 (Part 23)-2006 RA 2017 | 100.00 |
| 9 | Arsenic [ng/m ³] | BDL (<2.0) | IS 5182 (Part 12) : 2004 Reaffirmed 2019 | 6.00 |
| 10 | Nickel [ng/m ³] | 5.5 | IS 5182 : Part 26 : 2020 | 20.00 |

Notes

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Purnima Vagl

[Signature]

Rajput

[Signature]



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TEST REPORT

| | | | |
|-----------------------|--|--------------------------------------|------------------------------|
| Report No./ULR No. | 400003145 | Date | 02-11-2021 |
| Issued To: | M/s Hindustan Zinc Limited (Debari Zinc Smelter) PO : Zinc Smelter, District Udaipur (Rajasthan). | Type of Unit | Smelter |
| Type of Sample | Ambient Air Quality Monitoring | Date of Sample Collection/Monitoring | 21-10-2021 |
| Point of Collection | Near DG Set | Date of Receipt | 27-10-2021 |
| Date of Test/Analysis | 27-10-2021 to 02-11-2021 | Sampling Plan | IS 5182:2000(Part 14)RA 2014 |
| Quantity of Sample | | Sample Collected By | Vinod Kumar Yadav |
| Unit's representative | Ms. Navodita Shaktawat | Condition of Sample | Fit for testing |

RESULTS

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

Notes :-

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Navodita Shaktawat
 Senior Analyst

Vinod Kumar Yadav
 Authorized Signatory
 (Report No. 400003145)



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Email : marketing@teamtesthouse.com

TEST REPORT

| | | | |
|-----------------------|---|--------------------------------------|------------------------------|
| Report No./JLR No. | TC50252140003286 | Date : | 24-11-2021 |
| Issued To : | M/S Hindusthan Zinc Limited (Debari Zinc Smelter) PO : Zinc Smelter, District Udaipur (Rajasthan). | Type of Unit : | Smelter |
| Type of Sample | Ambient Air Quality Monitoring | Date of Sample Collection/Monitoring | 08-11-2021 |
| Point of Collection | Laboratory Top | Date of Receipt | 11-11-2021 |
| Date of Test/Analysis | 11-11-2021 to 24-11-2021 | Sampling Plan | IS 5182 2000(Part 14)RA 2014 |
| Quantity of Sample | | Sample Collected By | Vimal Kumar Yadav |
| Unit's representative | Ms. Navodita Shaktawat | Condition of Sample | Fit for testing |

RESULTS

| S.No | Parameters | Observed Value | Testing Protocol | Limits as per National Ambient Air Quality Standard, 2009 |
|------|---|----------------|---|---|
| 1 | Ammonia [microgram/m ³] | BDL (<10.0) | IS 5182 (Part 25) : 2019 | 400.00 |
| 2 | Carbon Monoxide [microgram/m ³] | 470 | IS 5182 (Part 22) : 2004 Reaffirmed 2019 | 4000 |
| 3 | Lead [microgram/m ³] | 0.3 | IS 5182 (Part 24) : 2019 | 1.00 |
| 4 | Nitrogen Dioxide as NO ₂ [microgram/m ³] | 4.07 | IS 5182 (Part 6) : 2000 Reaffirmed 2017 | 80.00 |
| 5 | Ozone [microgram/m ³] | 31.7 | APHA 1977, Part 819 | 100.00 |
| 6 | Particulate Matter (PM _{2.5}) [microgram/m ³] | 31.00 | IS 5182 (Part 2) : 2001 RA 2017 | 60.00 |
| 7 | Sulphur Dioxide [microgram/m ³] | 4.95 | IS 5182 (Part 23)-2006 RA 2017 | 80.00 |
| 8 | Particulate Matter (PM ₁₀) [microgram/m ³] | 77.21 | IS 5182 (Part 22) : 2004 Reaffirmed 2019 | 100.00 |
| 9 | Arsenic [ng/m ³] | BDL (<2.0) | IS 5182 Part 26, 2020 | 6.00 |
| 10 | Nickel [ng/m ³] | 8.5 | | 20.00 |

Notes :

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PL 30 381 7031

REPORT NUMBER



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TEST REPORT

| | | | |
|------------------------|--|--------------------------------------|------------------------------|
| Report No./ULR NO.: | 400003266 | Date | 24-11-2021 |
| Issued To: | M/S Hindusthan Zinc Limited [Dahan Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan). | Type of Unit | Smelter |
| Type of Sample | Ambient Air Quality Monitoring | Date of Sample Collection/Monitoring | 08-11-2021 |
| Point of Collection | Laboratory Top | Date of Receipt | 11-11-2021 |
| Date of Test/Analysis | 11-11-2021 to 24-11-2021 | Sampling Plan | IS 5182:2000(Part 14)RA 2014 |
| Quantity of Sample | | Sample Collected by | Vinod Kumar Yadav |
| Unit's representative: | Ms. Navodita Shaktawat | Condition of Sample | Fit for testing |

RESULTS

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

Notes:

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Senior Analyst

Authorized Signatory
(Report No. 400003266)



TEAM TEST HOUSE

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



RSPCB

ISO 9001:2015

OHSAS 18001:2007

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Email : marketinglab@teamtesthouse.com

TEST REPORT

| | | | |
|-----------------------|--|--------------------------------------|------------------------------|
| Report No./ULR No | TC502521400003287 | Date | 24-11-2021 |
| Issued To | M/S Hindusthan Zinc Limited (Debari Zinc Smelter) PO - Zinc Smelter, District Udaipur (Rajasthan) | Type of Unit | Smelter |
| Type of Sample | Ambient Air Quality Monitoring | Date of Sample Collection/Monitoring | 08-11-2021 |
| Point of Collection | Near Railway Gate | Date of Receipt | 11-11-2021 |
| Date of Test/Analysis | 11-11-2021 to 24-11-2021 | Sampling Plan | IS 5182:2000(Part 14)RA 2014 |
| Quantity of Sample | | Sample Collected By | Vinay Kumar Yadav |
| Unit's representative | Ms. Navridita Shaktawat | Condition of Sample | Fit for testing |

RESULTS

| S.No | Parameters | Observed Value | Testing Protocol | Limits as per National Ambient Air Quality Standard, 2009 |
|------|---|----------------|---|---|
| 1 | Ammonia [microgram/m ³] | BDL (<10.0) | IS 5182 (Part 25) : 2018 | 100.00 |
| 2 | Carbon Monoxide [microgram/m ³] | 490 | TTH/AAQM/08 | 4000 |
| 3 | Lead [microgram/m ³] | 0.14 | IS 5182 (Part 22) : 2004 Reaffirmed 2019 | 1.00 |
| 4 | Nitrogen Dioxide as NO ₂ [microgram/m ³] | 17.18 | IS 5182 (Part 6) : 2006 Reaffirmed 2017 | 80.00 |
| 5 | Ozone [microgram/m ³] | 28.6 | APHA 1977 Part 819 | 100.00 |
| 6 | Particulate Matter (PM _{2.5}) [microgram/m ³] | 39.67 | IS 5182 (Part 24) : 2019 | 60.00 |
| 7 | Sulphur Dioxide [microgram/m ³] | 5.24 | IS 5182 (Part 2) : 2001 RA 2017 | 80.00 |
| 8 | Particulate Matter (PM ₁₀) [microgram/m ³] | 76 | IS 5182 (Part 23)-2006 RA 2017 | 100.00 |
| 9 | Arsenic [ng/m ³] | BDL (<2.0) | IS 5182 (Part 22) : 2004 Reaffirmed 2019 | 6.00 |
| 10 | Nickel [ng/m ³] | 10.1 | IS 5182 : Part 26 : 2020 | 20.00 |

Notes -

- The results listed refer only to the tested sample (s) & constituent (s). Containment 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 the special permission in writing.
- The samples will be destroyed after 35 days from the date of issue of test report unless otherwise specified.

Pawan Malhotra

Vinay Kumar Yadav



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Website : marketing@teamtesthouse.com

TEST REPORT

| | | | |
|-------------------------|---|--|------------------------------|
| Report No./ULR No. | 400003287 | Date : | 24-11-2021 |
| Issued To : | M/S Hinduathan Zinc Limited (Debari Zinc Smelter) PO : Zinc Smelter, District Udaipur (Rajasthan), | Type of Unit : | Smelter |
| Type of Sample : | Ambient Air Quality Monitoring | Date of Sample Collection/Monitoring : | 08-11-2021 |
| Point of Collection : | Near Railway Gate | Date of Receipt : | 11-11-2021 |
| Date of Test/Analysis : | 11-11-2021 to 24-11-2021 | Sampling Plan : | IS 5182:2000(Part 14)RA 2014 |
| Quantity of Sample : | | Sample Collected By : | Vinod Kumar Yadav |
| Unit's representative : | Ms. Navodita Shaktawat | Condition of Sample : | Fit for testing |

RESULTS

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

Notes :-

1. The results listed refer only to the tested samples (as & submitted) and. Extent/work of pollutants is neither advised nor implied.
2. 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.
3. The samples will be destroyed after 15 days from the date of issue of test report unless otherwise specified.

Praveen

Senior Analyst

[Signature]

Authorized Signatory
(Report No. 400003287)



TEAM TEST HOUSE

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TEST REPORT

| | | | |
|-----------------------|--|--------------------------------------|------------------------------|
| Report No./ULR No. | TC502521400003288 | Date: | 24-11-2021 |
| Issued To | M/S Hindusthan Zinc Limited (Debon Zinc Smelter) PO : Zinc Smelter, District Udaipur (Rajasthan). | Type of Unit | Smelter |
| Type of Sample | Ambient Air Quality Monitoring | Date of Sample Collection/Monitoring | 09-11-2021 |
| Point of Collection | Near ETP | Date of Receipt | 11-11-2021 |
| Date of Test/Analysis | 11-11-2021 to 24-11-2021 | Sampling Plan | IS 5182:2000(Part 14)RA 2014 |
| Quantity of Sample | - | Sample Collected By | Vimal Kumar Yadav |
| Unit's representative | Ms. Navodita Shaktawat | Condition of Sample | Fit for testing |

RESULTS

| S.No | Parameters | Observed Value | Testing Protocol | Limits as per National Ambient Air Quality Standard, 2009 |
|------|---|----------------|--|---|
| 1 | Ammonia [microgram/m ³] | BDL (<10.0) | IS 5182 (Part 25) : 2019 | 400.00 |
| 2 | Carbon Monoxide [microgram/m ³] | 370 | TTH/AAQM/08 | 4000 |
| 3 | Lead [microgram/m ³] | 0.15 | IS 5182 (Part 22) : 2004 Reaffirmed 2019 | 1.00 |
| 4 | Nitrogen Dioxide as NO ₂ [microgram/m ³] | 15.86 | IS 5182 (Part 6) : 2006 Reaffirmed 2017 | 80.00 |
| 5 | Ozone [microgram/m ³] | 25.8 | APHA 1977, Part 819 | 100.00 |
| 6 | Particulate Matter (PM _{2.5}) [microgram/m ³] | 20.54 | IS 5182 (Part 24) : 2019 | 60.00 |
| 7 | Sulphur Dioxide [microgram/m ³] | 4.05 | IS 5182 (Part 2) : 2001 RA 2017 | 80.00 |
| 8 | Particulate Matter (PM ₁₀) [microgram/m ³] | 78.50 | IS 5182 (Part 23)-2006 RA 2017 | 100.00 |
| 9 | Arsenic [ng/m ³] | BDL (<2.0) | IS 5182 (Part 22) : 2004 Reaffirmed 2019 | 5.00 |
| 10 | Nickel [ng/m ³] | 10.3 | IS 5182 : Part 26 : 2020 | 20.00 |

Notes :

- The results listed refer only to the tested sample (s) & conditions. (1) Employment of products is neither advised 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.

Receipt

Pooja Mal Yadav

Recd

Pooja Mal Yadav



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TEST REPORT

| | | | |
|-------------------------|---|--------------------------------------|------------------------------|
| Report No./JLR No. | 400003288 | Date | 24-11-2021 |
| Issued To : | M/S Hindusthan Zinc Limited (Dehari Zinc Smelter) PO : Zinc Smelter, District Udaipur (Rajasthan). | Type of Unit | Smelter |
| Type of Sample : | Ambient Air Quality Monitoring | Date of Sample Collection/Monitoring | 09-11-2021 |
| Point of Collection | Near ETP | Date of Receipt | 11-11-2021 |
| Date of Test/Analysis : | 11-11-2021 to 24-11-2021 | Sampling Plan | IS 5182:2000(Part 14)RA 2014 |
| Quantity of Sample | - | Sample Collected By | Vimal Kumar Yadav |
| Unit's representative | Ms. Navodita Shaktiwal | Condition of Sample | Fit for testing |

RESULTS

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

Notes :

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Senior Analyst

Authorized Signatory
(Report No. 400003288)



TEAM TEST HOUSE
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RNPCB

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TEST REPORT

| | | | |
|-----------------------|---|--------------------------------------|------------------------------|
| Report No./ULR No. | 400003288 | Date | 24-11-2021 |
| Issued To | M/S Hindustan Zinc Limited (Debari Zinc Smelter) PO : Zinc Smelter, District Udaipur (Rajasthan) | Type of Unit | Smelter |
| Type of Sample | Ambient Air Quality Monitoring | Date of Sample Collection/Monitoring | 09-11-2021 |
| Point of Collection | Near ETP | Date of Receipt | 11-11-2021 |
| Date of Test/Analysis | 11-11-2021 to 24-11-2021 | Sampling Plan | IS 5102:2000(Part 14)RA 2014 |
| Quantity of Sample | | Sample Collected By | Vimal Kumar Yadav |
| Line's representative | Ms. Navdita Shaktawat | Condition of Sample | Fit for testing |

RESULTS

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

Notes :

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[Signature]
Senior Analyst

[Signature]
Authorized Signatory
(Report No: 400003288)



TEAM TEST HOUSE

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



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Email: marketing@teamtesthouse.com

TEST REPORT

| | | | |
|------------------------|---|---------------------------------------|------------------------------|
| Report No./ULR No.: | TC502521400003289 | Date: | 24-11-2021 |
| Issued To: | M/S Hindusthan Zinc Limited (Debari Zinc Smelter) PO - Zinc Smelter, District Udaipur (Rajasthan), | Type of Unit: | Smelter |
| Type of Sample: | Ambient Air Quality Monitoring | Date of Sample Collection/Monitoring: | 09-11-2021 |
| Point of Collection: | Near DG Set | Date of Receipt: | 11-11-2021 |
| Date of Test/Analysis: | 11-11-2021 to 24-11-2021 | Sampling Plan: | IS 5182-2000(Part 14)RA 2014 |
| Quantity of Sample: | - | Sample Collected By: | Vimal Kumar Yadav |
| Unit's representative: | Ms. Navodita Shaktawat | Condition of Sample: | Fit for testing |

RESULTS

| S.No | Parameters | Observed Value | Testing Protocol | Limits as per National Ambient Air Quality Standard, 2009 |
|------|---|----------------|---|---|
| 1 | Ammonia [microgram/m ³] | BDL (<10.0) | IS 5182 (Part 25) : 2010 | 400.00 |
| 2 | Carbon Monoxide [microgram/m ³] | 430 | TTH/AAQM/06 | 4000 |
| 3 | Lead [microgram/m ³] | 0.14 | IS 5182 (Part 22) : 2004 Reaffirmed 2019 | 1.00 |
| 4 | Nitrogen Dioxide as NO ₂ [microgram/m ³] | 16.21 | IS 5182 (Part 6) : 2006 Reaffirmed 2017 | 80.00 |
| 5 | Ozone [microgram/m ³] | 27.3 | APHA 1977, Part 819 | 100.00 |
| 6 | Particulate Matter (PM _{2.5}) [microgram/m ³] | 36.8 | IS 5182 (Part 24) : 2019 | 60.00 |
| 7 | Sulphur Dioxide [microgram/m ³] | 4.98 | IS 5182 (Part 2) : 2001 RA 2017 | 80.00 |
| 8 | Particulate Matter (PM ₁₀) [microgram/m ³] | 82.52 | IS 5182 (Part 23)-2006 RA 2017 | 160.00 |
| 9 | Arsenic [ng/m ³] | BDL (<2.0) | IS 5182 (Part 22) : 2004 Reaffirmed 2019 | 6.00 |
| 10 | Nickel [ng/m ³] | 7.1 | IS 5182 : Part 26 : 2020 | 20.00 |

Notes:

1. The results listed refer only to the tested sample (s) & parameters (s). Enhancement of product's quality inferred here implies.
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Accept

By



TEAM TEST HOUSE

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

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Email : marketing@teamtesthouse.com

TEST REPORT

| | | | |
|-------------------------|---|--------------------------------------|------------------------------|
| Report No./ULR No. | 400003289 | Date : | 24-11-2021 |
| Issued To : | M/S Hindustan Zinc Limited (Debari Zinc Smelter) PO - Zinc Smelter, District Udaipur (Rajasthan) | Type of Test : | Smelter |
| Type of Sample : | Ambient Air Quality Monitoring | Date of Sample Collection/Monitoring | 09-11-2021 |
| Point of Collection | Near DG Set | Date of Receipt : | 11-11-2021 |
| Date of Test/Analysis : | 11-11-2021 to 24-11-2021 | Sampling Plan | IS 5182:2000(Part 14)RA 2014 |
| Quantity of Sample : | - | Sample Collected By : | Vimal Kumar Yadav |
| Unit's representative : | Ms. Navodita Shaktawat | Condition of Sample | Fit for testing |

RESULTS

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

Notes :

- 1. The results stated here only to the tested sample (s) & parameter (s). Assessment of products is neither claimed nor implied.
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Senior Analyst

Authorized Signatory
(Report No: 400003289)



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TEST REPORT

| | | | |
|------------------------|---|---------------------------------------|------------------------------|
| Report No./ULR No.: | TC50252240000025 | Date: | 31-01-2022 |
| Issued To: | M/S Hindusthan Zinc Limited (Debari Zinc Smelter) PO : Zinc Smelter, District Udaipur (Rajasthan). | Type of Unit: | Smelter |
| Type of Sample: | Ambient Air Quality Monitoring | Date of Sample Collection/Monitoring: | 04-01-2022 |
| Point of Collection: | Laboratory Tap | Date of Receipt: | 07-01-2022 |
| Date of Test/Analysis: | 07-01-2022 to 27-01-2022 | Sampling Plan: | IS 5182:2000(Part 14)RA 2014 |
| Quantity of Sample: | - | Sample Collected By: | Vimal Kumar Yadav |
| Unit's representative: | Ms. Navodita Shastawat | Condition of Sample: | Fit for testing |

RESULTS

| S No | Parameters | Observed Value | Testing Protocol | Limits as per National Ambient Air Quality Standard, 2009 |
|------|---|----------------|---|---|
| 1 | Ammonia [microgram/m ³] | BDL (<10.0) | IS 5182 (Part 25) : 2018 | 400.00 |
| 2 | Carbon Monoxide [microgram/m ³] | 320 | TTH/AAQM/08 | 4000 |
| 3 | Lead [microgram/m ³] | 0.17 | IS 5182 (Part 22) : 2004 Reaffirmed 2019 | 1.00 |
| 4 | Nitrogen Dioxide as NO ₂ [microgram/m ³] | 17.5 | IS 5182 (Part 6) : 2006 Reaffirmed 2017 | 80.00 |
| 5 | Ozone [microgram/m ³] | 28.6 | APHA 1977, Part 819 | 100.00 |
| 6 | Particulate Matter (PM _{2.5}) [microgram/m ³] | 38.78 | IS 5182 (Part 24) : 2019 | 60.00 |
| 7 | Sulphur Dioxide [microgram/m ³] | 5.21 | IS 5182 (Part 2) : 2001 RA 2017 | 80.00 |
| 8 | Particulate Matter (PM ₁₀) [microgram/m ³] | 87.63 | IS 5182 (Part 23)-2006 RA 2017 | 100.00 |
| 9 | Arsenic [ng/m ³] | BDL (<2.0) | IS 5182 (Part 22) : 2004 Reaffirmed 2019 | 6.00 |
| 10 | Nickel [ng/m ³] | 8 | IS 5182 : Part 26 : 2020 | 20.00 |

Notes -

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Puran
Puran Mal Yogi

Rajesh
Rajesh Maheshwar



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TEST REPORT

| | | | |
|-------------------------|---|--|------------------------------|
| Report No./ULR No. | 400000025 | Date : | 31-01-2022 |
| Issued To : | M/S Hindusthan Zinc Limited (Debari Zinc Smelter) PO : Zinc Smelter, District Udaipur (Rajasthan). | Type of Unit : | Smelter |
| Type of Sample | Ambient Air Quality Monitoring | Date of Sample Collection/Monitoring : | 04-01-2022 |
| Point of Collection | Laboratory Top | Date of Receipt : | 07-01-2022 |
| Date of Test/Analysis : | 07-01-2022 to 27-01-2022 | Sampling Plan : | IS 5182-2000(Part 14)RA 2014 |
| Quantity of Sample | - | Sample Collected By : | Vimal Kumar Yadav |
| Unit's representative | Ms. Navodita Chakrawal | Condition of Sample : | Fit for testing |

RESULTS

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

Notes -

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

Praveen
Sd/-
Praveen Mal Yogi

Rajesh
Sd/-
Rajesh Malleshwar
Authorized Signatory
(Report No: 400000025)



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 Email : marketing@teamtesthouse.com

TEST REPORT

| | | | |
|------------------------|---|---------------------------------------|------------------------------|
| Report No./ILR No.: | TC502522400000026 | Date: | 31-01-2022 |
| Issued To: | M/S Hindusthan Zinc Limited (Deban Zinc Smelter) PC: Zinc Smelter, District Udaipur (Rajasthan), | Type of Unit: | Smelter |
| Type of Sample: | Ambient Air Quality Monitoring | Date of Sample Collection/Monitoring: | 04-01-2022 |
| Point of Collection: | Near Railway Gate | Date of Receipt: | 07-01-2022 |
| Date of Test/Analysis: | 07-01-2022 to 27-01-2022 | Sampling Plan: | IS 5182:2000(Part 14)RA 2014 |
| Quantity of Sample: | | Sample Collected By: | Vimal Kumar Yadav |
| Unit's representative: | Ms. Navodita Shaktawat | Condition of Sample: | Fit for testing |

RESULTS

| S.No | Parameters | Observed Value | Testing Protocol | Limits as per National Ambient Air Quality Standard, 2009 |
|------|---|----------------|--|---|
| 1 | Ammonia [microgram/m ³] | BDL (<10.0) | IS 5182 (Part 25) : 2018 | 400.00 |
| 2 | Carbon Monoxide [microgram/m ³] | 470 | ITM/AAQM/08 | 4000 |
| 3 | Lead [microgram/m ³] | 0.19 | IS 5182 (Part 22) : 2004 Reaffirmed 2019 | 1.00 |
| 4 | Nitrogen Dioxide as NO ₂ [microgram/m ³] | 19.22 | IS 5182 (Part 6) : 2006 Reaffirmed 2017 | 80.00 |
| 5 | Ozone [microgram/m ³] | 26.3 | APHA 1977, Part 019 | 100.00 |
| 6 | Particulate Matter (PM _{2.5}) [microgram/m ³] | 47.47 | IS 5182 (Part 24) : 2019 | 60.00 |
| 7 | Sulphur Dioxide [microgram/m ³] | 5.32 | IS 5182 (Part 2) : 2001 RA 2017 | 80.00 |
| 8 | Particulate Matter (PM ₁₀) [microgram/m ³] | 80.21 | IS 5182 (Part 23)-2006 RA 2017 | 100.00 |
| 9 | Arsenic [ng/m ³] | BDL (<2.0) | IS 5182 (Part 22) : 2004 Reaffirmed 2019 | 6.00 |
| 10 | Nickel [ng/m ³] | 8.3 | IS 5182 : Part 26 : 2020 | 20.00 |

Notes -

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(Signature)
Dr. Mal Yogi

(Signature)
Rajesh Maheshwar



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ISPCB

ISO 9001:2015

ISO 14001:2015

ISO 45001:2018 (OH&S)

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Marketing@teamtesthouse.com

TEST REPORT

| | | | |
|-------------------------|---|--|------------------------------|
| Report No./JLR No. | 400000026 | Date : | 31-01-2022 |
| Issued To : | M/S Hindusthan Zinc Limited (Debari Zinc Smelter) PO : Zinc Smelter, District Udaipur (Rajasthan), | Type of Unit : | Smelter |
| Type of Sample : | Ambient Air Quality Monitoring | Date of Sample Collection/Monitoring : | 04-01-2022 |
| Point of Collection : | Near Railway Gate | Date of Receipt : | 07-01-2022 |
| Date of Test/Analysis : | 07-01-2022 to 27-01-2022 | Sampling Plan : | IS 5182:2000(Part 14)RA 2014 |
| Quantity of Sample : | - | Sample Collected By : | Vinay Kumar Yadav |
| Unit's representative : | Ms. Navodita Shaktawat | Condition of Sample : | Fit for testing |

RESULTS

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

Notes -

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Senior Analyst
Puran Mal Yogi

Authorized Signatory
(Report No: 400000026)



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

TEST REPORT

| | | | |
|------------------------|--|---------------------------------------|------------------------------|
| Report No./ULR No.: | TC502522400000027 | Date: | 31-01-2022 |
| Issued To: | M/S Hindustan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan). | Type of Unit: | Smelter |
| Type of Sample: | Ambient Air Quality Monitoring | Date of Sample Collection/Monitoring: | 04-01-2022 |
| Point of Collection: | Near ETP | Date of Receipt: | 07-01-2022 |
| Date of Test/Analysis: | 07-01-2022 to 27-01-2022 | Sampling Plan: | IS 5182:2009/Part 14/RA 2014 |
| Quantity of Sample: | - | Sample Collected By: | Vimal Kumar Yadav |
| Unit's representative: | Ms. Navodita Shaktawat | Condition of Sample: | Fit for testing |

RESULTS

| S.No | Parameters | Observed Value | Testing Protocol | Limits as per National Ambient Air Quality Standard, 2009 |
|------|---|----------------|--|---|
| 1 | Ammonia [microgram/m ³] | BDL (<10.0) | IS 5182 (Part 25) : 2018 | 400.00 |
| 2 | Carbon Monoxide [microgram/m ³] | 450 | TTH/AAQM/08 | 4000 |
| 3 | Lead [microgram/m ³] | 0.17 | IS 5182 (Part 22) : 2004 Reaffirmed 2019 | 1.00 |
| 4 | Nitrogen Dioxide as NO ₂ [microgram/m ³] | 16.49 | IS 5182 (Part 6) : 2006 Reaffirmed 2017 | 80.00 |
| 5 | Ozone [microgram/m ³] | BDL (<20.0) | APHA 1977, Part 819 | 100.00 |
| 6 | Particulate Matter (PM _{2.5}) [microgram/m ³] | 42.17 | IS 5182 (Part 24) : 2019 | 60.00 |
| 7 | Sulphur Dioxide [microgram/m ³] | 5.58 | IS 5182 (Part 2) : 2001 RA 2017 | 80.00 |
| 8 | Particulate Matter (PM ₁₀) [microgram/m ³] | 86.67 | IS 5182 (Part 23)-2006 RA 2017 | 100.00 |
| 9 | Arsenic [ng/m ³] | BDL (<2.0) | IS 5182 (Part 22) : 2004 Reaffirmed 2019 | 6.00 |
| 10 | Nickel [ng/m ³] | 6.6 | IS 5182 : Part 26 : 2020 | 20.00 |

- Notes :-
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(Signature)
Purni Mal Yadav

(Signature)
Rajesh Maheshwari



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 Email: marketing@teamtesthouse.com

TEST REPORT

| | | | |
|------------------------|---|--------------------------------------|------------------------------|
| Report No./JLR No. | 40000027 | Date: | 31-01-2022 |
| Issued To: | M/S Hindusthan Zinc Limited (Debari Zinc Smelter) PO - Zinc Smelter, District Jaipur (Rajasthan) | Type of Unit: | Smelter |
| Type of Sample: | Ambient Air Quality Monitoring | Date of Sample Collection/Monitoring | 04-01-2022 |
| Point of Collection: | Near ETP | Date of Receipt: | 07-01-2022 |
| Date of Test/Analysis: | 07-01-2022 to 27-01-2022 | Sampling Plan: | IS 5182-2000(Part 14)RA 2014 |
| Quantity of Sample: | - | Sample Collected By: | Vimal Kumar Yadav |
| Unit's representative: | Ms. Navodita Shaktawat | Condition of Sample: | Fit for testing |

RESULTS

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

Notes:

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Senior Analyst
 Purni Mal Yadav

Authorised Signatory
 Rajesh Kumar Singh
 (Report No: 40000027)



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 Email : marketing@teamtesthouse.com

TEST REPORT

| | | | |
|-------------------------|--|--|------------------------------|
| Report No./ULR No. : | TC50252240000028 | Date | 31-01-2022 |
| Issued To | M/S Hindusthan Zinc Limited (Deban Zinc Smelter) PO : Zinc Smelter, District Udaipur (Rajasthan), | Type of Unit : | Smelter |
| Type of Sample : | Ambient Air Quality Monitoring | Date of Sample Collection/Monitoring : | 04-01-2022 |
| Point of Collection : | Near DG Set | Date of Receipt : | 07-01-2022 |
| Date of Test/Analysis : | 07-01-2022 to 27-01-2022 | Sampling Plan : | IS 5182:2000(Part 14)RA 2014 |
| Quantity of Sample | - | Sample Collected By : | Vimal Kumar Yadav |
| Unit's representative : | Ms. Navodita Shaktiwar | Condition of Sample : | Fit for testing |

RESULTS

| S.No | Parameters | Observed Value | Testing Protocol | Limits as per National Ambient Air Quality Standard, 2009 |
|------|---|----------------|--|---|
| 1 | Ammonia [microgram/m ³] | BDL (<10.0) | IS 5182 (Part 25) : 2018 | 400.00 |
| 2 | Carbon Monoxide [microgram/m ³] | 410 | TTH/AAQM/08 | 4000 |
| 3 | Lead [microgram/m ³] | 0.16 | IS 5182 (Part 22) : 2004 Reaffirmed 2019 | 1.00 |
| 4 | Nitrogen Dioxide as NO ₂ [microgram/m ³] | 17.44 | IS 5182 (Part 6) : 2006 Reaffirmed 2017 | 80.00 |
| 5 | Ozone [microgram/m ³] | 25.6 | APHA 1977, Part 619 | 100.00 |
| 6 | Particulate Matter (PM _{2.5}) [microgram/m ³] | 35.39 | IS 5182 (Part 24) : 2019 | 60.00 |
| 7 | Sulphur Dioxide [microgram/m ³] | 5.24 | IS 5182 (Part 2) : 2001 RA 2017 | 80.00 |
| 8 | Particulate Matter (PM ₁₀) [microgram/m ³] | 80.89 | IS 5182 (Part 23)-2006 RA 2017 | 100.00 |
| 9 | Arsenic [ng/m ³] | BDL(<2.0) | IS 5182 (Part 22) : 2004 Reaffirmed 2019 | 6.00 |
| 10 | Nickel [ng/m ³] | 6.3 | IS 5182 : Part 26 : 2020 | 20.00 |

Notes:-

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Puran
Puran Mal Vogi

Rajesh
Rajesh Maheshwar



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TEST REPORT

| | | | |
|-------------------------|---|--------------------------------------|------------------------------|
| Report No./JLR No. | 40000028 | Date : | 31-01-2022 |
| Issued To : | M/S Hindusthan Zinc Limited (Dolan Zinc Smelter) PO : Zinc Smelter, District Udaipur (Rajasthan) | Type of Unit : | Smelter |
| Type of Sample : | Ambient Air Quality Monitoring | Date of Sample Collection/Monitoring | 04-01-2022 |
| Point of Collection | Near DG Set | Date of Receipt : | 07-01-2022 |
| Date of Test/Analysis | 07-01-2022 to 27-01-2022 | Sampling Plan : | IS 5182-2000(Part 14)RA 2014 |
| Quantity of Sample | | Sample Collected By | Vimal Kumar Yadav |
| Unit's representative : | Mr. Navodita Shaktawat | Condition of Sample | Fit for testing |

RESULTS

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

Notes -

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Navodita
Signature of **Navodita Shaktawat**

Vimal
Signature of **Vimal Kumar Yadav**
Authorized Signatory
(Report No: 40000028)



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gurgaon@teamtesthouse.com

TEST REPORT

| | | | |
|-----------------------|---|------------------------------------|-------------------|
| Report No./ILR No. | TC502521200002014 | Date | 03-11-2021 |
| Issued To | M/S Hindusthan Zinc Limited (Dahan Zinc Smelter) PO - Zinc Smelter, District Udaipur (Rajasthan) | Type of Test | Smelter |
| Type of Sample | Wastewater Sample | Date of Sample Collection/Location | 23-10-2021 |
| Point of Collection | ETP Outlet | Date of Receipt | 27-10-2021 |
| Date of Test/Analysis | 27-10-2021 to 03-11-2021 | Sampling Method | APHA 2017 - 1060 |
| Quantity of Sample | 2 Ltr | Analyst - Name of Analyst | Vimal Kumar Yadav |
| Unit's representative | Mrs. Navodita Shukawat | Quantity of Sample | 2.2 ltr testing |

RESULTS

| S.No | Parameters | Observed Value | Testing Method | Limits as per Environment protection rules, 1986 |
|------|--|----------------|---------------------|--|
| 1 | Total Suspended Solids [mg/l] | 25 | APHA 2017 2540-D | |
| 2 | Biochemical Oxygen Demand (BOD) [mg/l] | 3.9 | APHA 2017 5210-B | 100 |
| 3 | Chloride as Cl [mg/l] | 479.75 | APHA 2017 4500-Cl-B | 30 |
| 4 | Chemical Oxygen Demand (COD) [mg/l] | 41.65 | APHA 2017 5200-D | 250 |
| 5 | Cyanide [mg/l] | Less than 0.05 | APHA 2017 4500-CN-D | 0.2 |
| 6 | Fluoride [mg/l] | 1.42 | APHA 2017 4500-F-C | 2.0 |
| 7 | pH | 7.21 | APHA 2017 4500 H+B | 5.5 - 9.0 |
| 8 | Sulphide as S [mg/l] | BDL (<0.1) | APHA 2017 4500-S2-F | 2 |
| 9 | Cadmium [mg/l] | 0.02 | APHA 2017 3111-B | 2.0 |
| 10 | Copper [mg/l] | 0.07 | APHA 2017 3111-B | 3.0 |
| 11 | Iron [mg/l] | 0.03 | APHA 2017 3111-B | 3.0 |
| 12 | Lead [mg/l] | BDL (<0.01) | APHA 2017 3111-B | 0.1 |
| 13 | Nickel [mg/l] | 0.02 | APHA 2017 3111-B | 3.0 |
| 14 | Zinc [mg/l] | 0.11 | APHA 2017 3111-B | 5.0 |
| 15 | Oil & Grease [mg/l] | 0 | APHA 2017 5220-B | 10 |

Notes -

- The results listed refer only to the tested sample (s) & parameters (s). End-user's responsibility to confirm (marked not applied) applicability of data without our special permission in writing.
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Vimal Kumar Yadav



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Email : marketing@teamtesthouse.com

TEST REPORT

| | | | |
|-----------------------|--|--------------------------------------|-------------------|
| Report No./ILR No. | TC502521200002753 | Date | 07-12-2021 |
| Issued To | M/S Hindustan Zinc Limited (Debari Zinc Smelter) PO - Zinc Smelter, District Udaipur (Rajasthan). | Type of Unit | Smelter |
| Type of Sample | Wastewater Sample | Date of Sample Collection/Monitoring | 24-11-2021 |
| Point of Collection | ETP Outlet | Date of Receipt | 25-11-2021 |
| Date of Test/Analysis | 25-11-2021 to 07-12-2021 | Sampling Plan | APHA-2017-1060 |
| Quantity of Sample | 2 Ltr | Sample Collected By | Vinay Kumar Yadav |
| Unit's representative | Mr. Navodite Shukrawar | 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) | 14 | APHA 2017:2540-D | 100 |
| 2 | Biochemical Oxygen Demand (BOD) (mg/l) | 6.5 | APHA 2017:5210-B | 30 |
| 3 | Chloride as Cl (mg/l) | 784.86 | APHA 2017-4500-Cl-B | - |
| 4 | Chemical Oxygen Demand (COD) (mg/l) | 42.43 | APHA 2017:5220-C | 250 |
| 5 | Cyanide (mg/l) | Less than 0.05 | APHA 2017-4500-CN-D | 0.2 |
| 6 | Fluoride (mg/l) | 1.07 | APHA 2017-4500-F-G | 2.0 |
| 7 | pH | 7.10 | 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) | 0.06 | APHA 2017-3111-B | 5.0 |
| 12 | Lead (mg/l) | BDL(<0.01) | APHA 2017-3111-B | 0.1 |
| 13 | Nickel (mg/l) | 0.04 | APHA 2017-3111-B | 3.0 |
| 14 | Zinc (mg/l) | 0.24 | APHA 2017-3111-B | 5.0 |
| 15 | Oil & Grease (mg/l) | 2 | APHA 2017-5520-B | 10 |

Notes -

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S. K. Singh

P. K.



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Email : marketing@teamtesthouse.com

TEST REPORT

| | | | |
|-------------------------|---|--|-------------------|
| Report No./JLR No. : | TC502522200002556 | Date : | 11-01-2022 |
| Issued To : | M/S Hindusthan Zinc Limited (Dabari Zinc Smelter) PO : Zinc Smelter, District Udaipur (Rajasthan), | Type of Unit : | Smelter |
| Type of Sample : | Wastewater Sample | Date of Sample Collection/Monitoring : | 29-12-2021 |
| Point of Collection : | ETP Outlet | Date of Receipt : | 29-12-2021 |
| Date of Test/Analysis : | 29-12-2021 to 11-01-2022 | Sampling Plan : | APHA 2017 : 1000 |
| Quantity of Sample : | 2 ltr | Sample Collected By : | Vimal Kumar Yadav |
| Unit's representative : | Ms. Navodita Shaktawat | Condition of Sample : | Fit for testing |

RESULTS

| S.No | Parameters | Observed Value | Testing Protocol | Limits as per Environment protection rules, 1986 |
|------|--|----------------|-----------------------|--|
| 1 | Total Suspended Solids [mg/l] | 20 | APHA 2017:2540-D | 100 |
| 2 | Biochemical Oxygen Demand (BOD) [mg/l] | 7.38 | APHA 2017:5210-B | 30 |
| 3 | Chloride as Cl [mg/l] | 635.97 | APHA 2017 : 4500-Cl-B | - |
| 4 | Chemical Oxygen Demand (COD) [mg/l] | 55.1 | APHA 2017 : 5220-C | 250 |
| 5 | Cyanide [mg/l] | Less than 0.05 | APHA 2017 : 4500-CN D | 0.2 |
| 6 | Fluoride [mg/l] | 1.15 | APHA 2017 : 4500-F-C | 2.0 |
| 7 | pH | 7.73 | APHA:2017 : 4500 H+B | 5.5 - 9.0 |
| 8 | Sulphide as S [mg/l] | BDL (<0.1) | APHA 2017 : 4500-S2-F | 2 |
| 9 | Cadmium [mg/l] | BDL (<0.001) | APHA 2017 :3111-B | 2.0 |
| 10 | Copper [mg/l] | 0.05 | APHA :2017 :3111-B | 3.0 |
| 11 | Iron [mg/l] | 0.07 | APHA :2017 :3111-B | 3.0 |
| 12 | Lead [mg/l] | BDL (<0.01) | APHA :2017 :3111-B | 0.1 |
| 13 | Nickel [mg/l] | 0.03 | APHA :2017 :3111-B | 3.0 |
| 14 | Zinc [mg/l] | 0.32 | APHA :2017 :3111-B | 5.0 |
| 15 | Oil & Grease [mg/l] | 3 | APHA 2017 : 5520 B | 10 |

Notes :-

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Email : marketing@teamtesthouse.com

TEST REPORT

| | | | |
|-----------------------|---|--------------------------------------|-------------------|
| Report No./ILR No. | TG502522200000049 | Date | 18-01-2022 |
| Issued To : | M/S Hindusthan Zinc Limited (Debari Zinc Smelter) PO : Zinc Smelter, District Udaipur (Rajasthan). | Type of Unit | Smelter |
| Type of Sample | Wastewater Sample | Date of Sample Collection/Monitoring | 05-01-2022 |
| Point of Collection | ETP Outlet | Date of Receipt | 07-01-2022 |
| Date of Test/Analysis | 07-01-2022 to 18-01-2022 | Sampling Plan | APHA 2017 1060 |
| Quantity of Sample | 2 Ltr. | Sample Collected By | Vimal Kumar Yadav |
| Unit's representative | Ms. Navodita Shaktiwal | Condition of Sample | Fit for testing |

RESULTS

| S.No | Parameters | Observed Value | Testing Protocol | Limits as per Environment protection rules, 1986 |
|------|--|----------------|-------------------------|--|
| 1 | Total Suspended Solids (mg/l) | 24 | APHA 2017:2540-D | 100 |
| 2 | Biochemical Oxygen Demand (BOD) (mg/l) | 8.67 | APHA 2017:5210-B | 30 |
| 3 | Chloride as Cl (mg/l) | 587.05 | APHA 2017 : 4500- Cl- B | - |
| 4 | Chemical Oxygen Demand (COD) (mg/l) | 62.98 | APHA:2017 : 5220-C | 250 |
| 5 | Cyanide (mg/l) | Less than 0.05 | APHA 2017 : 4500- CN D | 0.2 |
| 6 | Fluoride (mg/l) | 1.27 | APHA:2017 : 4500-F-C | 2.0 |
| 7 | pH | 7.43 | APHA:2017 : 4500 H+B | 5.5 - 9.0 |
| 8 | Sulphide as S (mg/l) | BDL(<0.1) | APHA, 2017 : 4500-S2-F | 2 |
| 9 | Cadmium (mg/l) | BDL(<0.001) | APHA 2017 :3111- B | 2.0 |
| 10 | Copper (mg/l) | BDL(<0.01) | APHA :2017 :3111- B | 3.0 |
| 11 | Iron (mg/l) | 0.04 | APHA :2017 :3111- B | 3.0 |
| 12 | Lead (mg/l) | BDL(<0.01) | APHA :2017 :3111- B | 0.1 |
| 13 | Nickel (mg/l) | 0.06 | APHA 2017 :3111- B | 3.0 |
| 14 | Zinc (mg/l) | 0.24 | APHA :2017 :3111- B | 5.0 |
| 15 | Oil & Grease (mg/l) | 4 | APHA 2017 : 5520 B | 10 |

Notes :-

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

Sunil Kumar

[Signature]
PC/2022/01/01/01/01/01



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

TEST REPORT

| | | | |
|-------------------------|---|--|-------------------|
| Report No./ULR No. : | TC50252220000277 | Date : | 16-02-2022 |
| Issued To : | M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan), | Type of Unit : | Smelter |
| Type of Sample : | Wastewater Sample | Date of Sample Collection/Monitoring : | 08-02-2022 |
| Point of Collection | ETP Outlet | Date of Receipt : | 09-02-2022 |
| Date of Test/Analysis : | 09-02-2022 to 16-02-2022 | Sampling Plan : | APHA 2017 : 1060 |
| Quantity of Sample | 2 Ltr. | Sample Collected By : | Vimal Kumar Yadav |
| Unit's representative | Ms. Navodita Shaktawat | Condition of Sample : | Fit for testing |

RESULTS

| S.No | Parameters | Observed Value | Testing Protocol | Limits as per Environment protection rules, 1986 |
|------|--|----------------|-------------------------|--|
| 1 | Total Suspended Solids [mg/l] | 20 | APHA.2017.2540-D | 100 |
| 2 | Biochemical Oxygen Demand (BOD) [mg/l] | 7.2 | APHA 2017:5210-B | 30 |
| 3 | Chloride as Cl [mg/l] | 609.79 | APHA 2017 : 4500- Cl- B | - |
| 4 | Chemical Oxygen Demand (COD) [mg/l] | 58.75 | 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 | 7.21 | APHA 2017 : 4500 H+B | 5.5 - 9.0 |
| 8 | Sulphide as S [mg/l] | BDL(<0.1) | APHA. 2017 : 4500-S2-F | 2 |
| 9 | Cadmium [mg/l] | UDL(<0.001) | APHA :2017 :3111- B | 2.0 |
| 10 | Copper [mg/l] | 0.09 | APHA :2017 :3111- B | 3.0 |
| 11 | Iron [mg/l] | 0.03 | APHA 2017 :3111- B | 3.0 |
| 12 | Lead [mg/l] | BDL(<0.01) | APHA :2017 :3111- B | 0.1 |
| 13 | Nickel [mg/l] | BDL(<0.01) | APHA 2017 :3111- B | 3.0 |
| 14 | Zinc [mg/l] | 0.21 | APHA 2017 :3111- B | 5.0 |
| 15 | Oil & Grease [mg/l] | 4 | APHA 2017 : 5520 B | 10 |

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GUJJI KOTWAL

Rajesh Maheshwari



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 Email : marketing@teamtesthouse.com

TEST REPORT

| | | | |
|------------------------|--|---------------------------------------|-------------------|
| Report No./ILR NO.: | TC502522209000482 | Date: | 22-03-2022 |
| Issued To: | M/S Hindustan Zinc Limited (Dabari Zinc Smelter) PO - Zinc Smelter, District Udaipur (Rajasthan). | Type of Unit: | Smelter |
| Type of Sample: | Liquid Effluents | Date of Sample Collection/Monitoring: | 07-03-2022 |
| Point of Collection: | ETP Outlet | Date of Receipt: | 09-03-2022 |
| Date of Test/Analysis: | 09-03-2022 to 22-03-2022 | Sampling Plan: | APHA 2017 - 1060 |
| Quantity of Sample: | 2 Ltr. | Sample Collected By: | Vimal Kumar Yadav |
| Unit's representative: | Ms. Navodita Shakawat | Condition of Sample: | Fit for testing |

| S.No | Parameters | RESULTS | | |
|------|--|----------------|---------------------|--|
| | | Observed Value | Testing Protocol | Limits as per Environment protection rules, 1986 |
| 1 | Total Suspended Solids (mg/l) | 25 | | 100 |
| 2 | Biochemical Oxygen Demand (BOD) (mg/l) | 8.86 | APHA.2017.2540-D | 30 |
| 3 | Chloride as Cl (mg/l) | 606.62 | APHA 2017.5210-B | |
| 4 | Chemical Oxygen Demand (COD) (mg/l) | 71.1 | APHA 2017.4500-Cl-B | |
| 5 | Cyanide (mg/l) | Less than 0.05 | APHA:2017:5220-C | 250 |
| 6 | Fluoride (mg/l) | 1.47 | APHA 2017.4500-CND | 0.2 |
| 7 | pH | 7.45 | APHA:2017.4500-F-C | 2.0 |
| 8 | Sulphide as S (mg/l) | BDL (<0.1) | APHA:2017.4500 H+B | 5.5 - 9.0 |
| 9 | Cadmium (mg/l) | BDL (<0.001) | APHA.2017.4500-S2-F | 2 |
| 10 | Copper (mg/l) | 0.11 | APHA :2017.3111- B | 2.0 |
| 11 | Iron (mg/l) | 0.05 | APHA :2017.3111- B | 3.0 |
| 12 | Lead (mg/l) | BDL (<0.01) | APHA :2017.3111- B | 3.0 |
| 13 | Nickel (mg/l) | BDL (<0.01) | APHA :2017.3111- B | 0.1 |
| 14 | Zinc (mg/l) | 0.36 | APHA :2017.3111- B | 3.0 |
| 15 | Oil & Grease (mg/l) | 3 | APHA :2017.3111- B | 5.0 |
| | | | APHA 2017 : 5520 B | 10 |

Notes:

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Vimal Kumar

Rajesh Maheshwari



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TEST REPORT

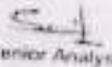
| | | | |
|------------------------|---|--------------------------------------|-------------------|
| Report No./JLR No.: | TC502521200002013 | Date: | 02-11-2021 |
| Issued To: | M/S Hindustan Zinc Limited (Debari Zinc Smelter) PO - Zinc Smelter, District Udaipur (Rajasthan) | Type of Unit: | Smelter |
| Type of Sample: | Wastewater Sample | Date of Sample Collection/Issued to: | 22-10-2021 |
| Point of Collection: | STP Outlet (Plant) | Date of Receipt: | 27-10-2021 |
| Date of Test Analysis: | 27-10-2021 to 02-11-2021 | Sampling Method: | APHA 2017 - 1060 |
| Quantity of Sample: | 2 Lit | Sample Collected by: | Vinay Kumar Yadav |
| Unit's representative: | Ms. Navodha Shaktawat | Operation of Sample: | Fit for testing |

RESULTS

| S.No | Parameters | Observed Value | Testing Protocol | Limits as per Environment protection rules, 1986 |
|------|--|----------------|------------------------|--|
| 1 | Total Suspended Solids (mg/l) | 11 | APHA 2017 2540-D | 100 |
| 2 | Ammonical Nitrogen as N (mg/l) | 1.19 | APHA 2017 - 4500-NH3 G | 50 |
| 3 | Biochemical Oxygen Demand (BOD) (mg/l) | 5.25 | APHA 2017 5210-B | 30 |
| 4 | Chemical Oxygen Demand (COD) (mg/l) | 47.62 | 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 8620 B | 10 |
| 7 | Nitrate as NO3 (mg/l) | 19.76 | APHA 2017 4500-NO3- B | 50 |

Notes:

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Senior Analyst
Sunil Kumar


Authorized Signatory
(Report No. TC502521200002013)



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TEST REPORT

| | | | |
|-------------------------|---|--|-------------------|
| Report No./JLR No. : | TC502521200002016 | Date : | 02-11-2021 |
| Issued To : | M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan), | Type of Unit : | Smelter |
| Type of Sample : | Liquid Effluents | Date of Sample Collection/Monitoring : | 23-10-2021 |
| Point of Collection : | STP Outlet Colony | Date of Receipt : | 27-10-2021 |
| Date of Test/Analysis : | 27-10-2021 to 02-11-2021 | Sampling Plan : | APHA 2017 : 1060 |
| Quantity of Sample : | 2ltr. | Sample Collected By : | Vimal Kumar Yadav |
| Unit's representative : | Ms. Navodita Shaktawat | Condition of Sample : | Fit for testing |

RESULTS

| S.No | Parameters | Observed Value | Testing Protocol | Limits as per Environment protection rules, 1986 |
|------|--|---|-------------------------|--|
| 1 | Total Suspended Solids [mg/l] | 14 | APHA.2017.2540-D | 100 |
| 2 | Ammonical Nitrogen as N [mg/l] | 3.61 | 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] | 47.62 | APHA:2017 : 5220-C | 250 |
| 5 | pH | 7.32 | APHA:2017 : 4500 H+B | 5.5 - 9.0 |
| 6 | Oil & Grease [mg/l] | 3 | APHA 2017 : 5520 B | 10 |
| 7 | Total Residual Chlorine [mg/l] | BDL (<0.1) | APHA 2017 : 4500- Cl- B | 1.0 |
| 8 | Nitrate as NO3 [mg/l] | 18.88 | 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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Purni Mal Yogi
Senior Analyst

Rajesh Maheshwan
Authorized Signatory
(Report No: TC502521200002016)



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Email : marketing@teamtesthouse.com

TEST REPORT

| | | | |
|-------------------------|---|--|-------------------|
| Report No./ULR No. : | 200002016 | Date : | 02-11-2021 |
| Issued To : | M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan). | Type of Unit : | Smelter |
| Type of Sample : | Liquid Effluents | Date of Sample Collection/Monitoring : | 23-10-2021 |
| Point of Collection : | STP Outlet Colony | Date of Receipt : | 27-10-2021 |
| Date of Test/Analysis : | 27-10-2021 to 02-11-2021 | Sampling Plan : | APHA 2017 : 1060 |
| Quantity of Sample : | 2ltr | Sample Collected By : | Vimal Kumar Yadav |
| Unit's representative : | Ms. Navodita Shaktawat | Condition of Sample : | Fit for testing |

RESULTS

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

Notes :-

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P. Thakur
Senior Analyst

P. Thakur
Authorized Signatory
(Report No: 200002016)



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team@teamtestinghub@teamtesthouse.com

TEST REPORT

| | | | |
|-----------------------|---|---------------------------|-------------------|
| Report No./R/R No. | 20002016 | Date | 02-11-2021 |
| Issued To | M/S Hindusthan Zinc Limited (Dehan Zinc Smelter) PO : Zinc Smelter, District Udaipur (Rajasthan) | Sample Name | Smelter |
| Type of Sample | Wastewater Sample | Date of Sample Collection | 23-10-2021 |
| Point of Collection | STP Outlet Colony | Date of Test/Analysis | 27-10-2021 |
| Date of Test/Analysis | 27-10-2021 to 02-11-2021 | Standard Used | APHA 2017 1060 |
| Quantity of Sample | 2 Ltr | Sample Collected By | Sunil Kumar Yadav |
| Unit's representative | Ms. Navodita Shaktawat | Sample Used For | Water testing |

| S.No | Parameters | RESULTS | | |
|------|-----------------------------|----------------|----------------|--|
| | | Observed Value | Testing Method | Limits as per Environment protection rules, 1986 |
| 1 | Faecal coliform (MPN/100ml) | Not Detected | MPN/100ml | * |

Notes

- The results report refer only to the tested sample for 4 parameters i.e. Escherichia coli, coliform, sulphide, and nitrate.
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Senior Analyst

Sunil Kumar

Authorized Signatory
(Report No: 20002016)



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TEST REPORT

| | | | |
|-----------------------|---|--------------------------------------|-------------------|
| Report No./ULR No. | TC502521200002252 | Date | 07-12-2021 |
| Issued To | M/S Hindustan Zinc Limited (Debari Zinc Smelter) PO : Zinc Smelter, District Udaipur (Rajasthan) | Type of Unit | Smelter |
| Type of Sample | Wastewater Sample | Date of Sample Collection/Monitoring | 24-11-2021 |
| Point of Collection | STP Outlet (Plant) | Date of Receipt | 25-11-2021 |
| Date of Test/Analysis | 25-11-2021 to 07-12-2021 | Sampling Plan | APHA 2017 : 1000 |
| Quantity of Sample | 2 Ltr. | Sample Collected By | Vinay Kumar Yadav |
| Unit's representative | Ms. Navodita Shaktawat | Condition of Sample | Fit for testing |

RESULTS

| S.No | Parameters | Observed Value | Testing Protocol | Limits as per Environment protection rules, 1986 |
|------|--|----------------|------------------------|--|
| 1 | Total Suspended Solids [mg/l] | 13 | APHA 2017:2540-D | 100 |
| 2 | Ammonical Nitrogen as N [mg/l] | 2.88 | APHA 2017 : 4500-NH3 C | 50 |
| 3 | Biochemical Oxygen Demand (BOD) [mg/l] | 5 | APHA 2017:5210-B | 30 |
| 4 | Chemical Oxygen Demand (COD) [mg/l] | 29.38 | APHA 2017 : 5220-C | 250 |
| 5 | pH | 7.22 | 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] | 5.13 | APHA 2017 : 4500-NO3-B | 50 |

Notes -

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Authorized Signatory
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TEST REPORT

| | | | |
|-------------------------|---|--|--------------------|
| Report No./TLR No. | TC502521200002255 | Date : | 07-12-2021 |
| Issued To : | M/S Hindustan Zinc Limited (Dewan Zinc Smelter) | Type of Unit : | Smelter |
| Type of Sample : | PO - Zinc Smelter, District Udaipur (Rajasthan), Wastewater Sample | Date of Sample Collection/Monitoring : | 24-11-2021 |
| Point of Collection : | STP Outlet Colony | Date of Receipt : | 25-11-2021 |
| Date of Test/Analysis : | 25-11-2021 to 07-12-2021 | Sampling Plan : | APHA 2017 : 1000 |
| Quantity of Sample : | 2 ltr | Sample Collected By : | Vimal Kumar Yastav |
| Unit's representative : | Ms. Navodita Shuklawar | Condition of Sample : | Fit for testing |

RESULTS

| S.No | Parameters | Observed Value | Testing Protocol | Limits as per Environment protection rules, 1986 |
|------|--|---|----------------------|--|
| 1 | Total Suspended Solids [mg/l] | 17 | APHA 2017 2540-D | 100 |
| 2 | Ammonical Nitrogen as N [mg/l] | 2.91 | APHA 2017 4500-NH3 C | 50 |
| 3 | Biochemical Oxygen Demand (BOD) [mg/l] | 8.58 | APHA 2017 5210-B | 30 |
| 4 | Chemical Oxygen Demand (COD) [mg/l] | 64 | APHA 2017 5220-C | 250 |
| 5 | pH | 7.04 | 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] | 13.32 | 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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Email : marketing@teamtsth.com

TEST REPORT

| | | | |
|-----------------------|--|--------------------------------------|-------------------|
| Report No./ILR No. | 200002255 | Date : | 07-12-2021 |
| Issued To : | M/S Hindustan Zinc Limited (Debari Zinc Smelter) | Type of Unit : | Smelter |
| Type of Sample | Wastewater Sample | Date of Sample Collection/Monitoring | 24-11-2021 |
| Point of Collection | STP Outlet Colony | Date of Receipt | 25-11-2021 |
| Date of Test/Analysis | 25-11-2021 to 07-12-2021 | Sampling Plan : | APHA 2017 : 1060 |
| Quantity of Sample | 2 Ltr. | Sample Collected By | Vimal Kumar Yadav |
| Unit's representative | Ms. Navodita Shaktawat | Condition of Sample | Fit for testing |

RESULTS

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

Notes

1. The results given refer only to the tested sample(s) & parameters(s). Endorsement of products is neither intended nor implied.
2. This report is not to be reproduced, stored, or used for any other purpose without the prior written permission of the laboratory.
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Senior Analyst

Authorized Signatory
(Report No- 200002255)



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Email : marketing@teamtesthouse.com

TEST REPORT

| | | | |
|-------------------------|---|--|-------------------|
| Report No./ULR No. : | TC502522200002555 | Date : | 11-01-2022 |
| Issued To : | M/S Hindusthan Zinc Limited [Dobari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan). | Type of Unit : | Smelter |
| Type of Sample | Wastewater Sample | Date of Sample Collection/Monitoring : | 29-12-2021 |
| Point of Collection | STP Outlet (Plant) | Date of Receipt : | 29-12-2021 |
| Date of Test/Analysis | 29-12-2021 to 11-01-2022 | Sampling Plan : | APHA 2017 : 1060 |
| Quantity of Sample : | 2 litr | Sample Collected By : | Vimal Kumar Yadav |
| Unit's representative : | Ms. Navodita Shaktawat | Condition of Sample : | Fit for testing |

RESULTS

| S.No | Parameters | Observed Value | Testing Protocol | Limits as per Environment protection rules, 1986 |
|------|--|----------------|------------------------|--|
| 1 | Total Suspended Solids [mg/l] | 19 | APHA 2017:2540-D | 100 |
| 2 | Ammonical Nitrogen as N [mg/l] | 2.72 | APHA 2017 : 4500-NH3 C | 50 |
| 3 | Biochemical Oxygen Demand (BOD) [mg/l] | 5.56 | APHA 2017:5210-B | 30 |
| 4 | Chemical Oxygen Demand (COD) [mg/l] | 43.3 | APHA:2017 : 5220-C | 250 |
| 5 | pH | 7.64 | 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] | 5.74 | APHA 2017 : 4500-NO3-B | 50 |

Note :-

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Sunil Kumar
Senior Analyst
Sunil Kumar

[Signature]
Authorized Signatory
(Report No: TC502522200002555)



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Email : marketing@teamtesthouse.com

TEST REPORT

| | | | |
|------------------------|---|---------------------------------------|-------------------|
| Report No./ILR No.: | TC502522200002558 | Date: | 11-01-2022 |
| Issued To: | M/S Hindusthan Zinc Limited (Debari Zinc Smelter) PO : Zinc Smelter, District Udaipur (Rajasthan). | Type of Unit: | Smelter |
| Type of Sample: | Wastewater Sample | Date of Sample Collection/Monitoring: | 29-12-2021 |
| Point of Collection: | STP Outlet Colony | Date of Receipt: | 29-12-2021 |
| Date of Test/Analysis: | 29-12-2021 to 11-01-2022 | Sampling Plan: | APHA 2017 : 1050 |
| Quantity of Sample: | 2 ltr | Sample Collected By: | Vimal Kumar Yadav |
| Unit's representative: | Ms. Navodita Shaktawat | Condition of Sample: | Fit for testing |

RESULTS

| S.No | Parameters | Observed Value | Testing Protocol | Limits as per Environment protection rules, 1986 |
|------|--|--|-------------------------|--|
| 1 | Total Suspended Solids [mg/l] | 26 | APHA 2017:2540-D | 100 |
| 2 | Ammonical Nitrogen as N [mg/l] | 3.16 | APHA 2017 : 4500-NH3 C | 50 |
| 3 | Biochemical Oxygen Demand (BOD) [mg/l] | 7.43 | APHA 2017 : 5210-B | 30 |
| 4 | Chemical Oxygen Demand (COD) [mg/l] | 74.70 | APHA:2017 : 5220-C | 250 |
| 5 | pH | 7.12 | APHA 2017 : 4500 H+B | 5.5 - 9.0 |
| 6 | Oil & Grease [mg/l] | 4 | APHA 2017 : 5520 B | 10 |
| 7 | Total Residual Chlorine [mg/l] | BDL(<0.1) | APHA 2017 : 4500-Cl-B | 1.0 |
| 8 | Nitrate as NO3 [mg/l] | 15.74 | APHA 2017 : 4500-NO3- B | 50 |
| 9 | Bioassay test | 100% 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. : TC502522200002558)



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TEST REPORT

| | | | |
|-------------------------|---|--|-------------------|
| Report No./ULR No. : | 200002558 | Date : | 11-01-2022 |
| Issued To : | M/S Hindusthan Zinc Limited (Debari Zinc Smelter) PO : Zinc Smelter, District Udaipur (Rajasthan). | Type of Unit : | Smelter |
| Type of Sample : | Wastewater Sample | Date of Sample Collection/Monitoring : | 29-12-2021 |
| Point of Collection : | STP Outlet Colony | Date of Receipt : | 29-12-2021 |
| Date of Test/Analysis : | 29-12-2021 to 11-01-2022 | Sampling Plan : | APHA 2017 : 1060 |
| Quantity of Sample : | 2 ltr | Sample Collected By : | Vinay Kumar Yadav |
| Unit's representative : | Ms. Navodita Shaktawat | Condition of Sample : | Fit for testing |

RESULTS

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

Notes :-

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Senior Analyst

Sunil Kumar

Authorized Signatory
(Report No: 200002558)



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TEST REPORT

| | | | |
|------------------------|---|---------------------------------------|-------------------|
| Report No./JLR No.: | TC502522200000048 | Date: | 18-01-2022 |
| Issued To: | M/S Hindusthan Zinc Limited (Dopan Zinc Smelter) PO : Zinc Smelter, District: Udaipur (Rajasthan). | Type of Unit: | Smelter |
| Type of Sample: | Wastewater Sample | Date of Sample Collection/Monitoring: | 05-01-2022 |
| Point of Collection: | STP Outlet (Plant) | Date of Receipt: | 07-01-2022 |
| Date of Test/Analysis: | 07-01-2022 to 18-01-2022 | Sampling Plan: | APHA 2017 : 1069 |
| Quantity of Sample: | 2 Ltr. | Sample Collected By: | Vimal Kumar Yadav |
| Unit's representative: | Ms. Navodita Shaktawat | Condition of Sample: | Fit for testing |

RESULTS

| S No | Parameters | Observed Value | Testing Protocol | Limits as per Environment protection rules, 1986 |
|------|--|----------------|-------------------------|--|
| 1 | Total Suspended Solids [mg/l] | 21 | APHA 2017:2540-D | 100 |
| 2 | Ammonical Nitrogen as N [mg/l] | 4.71 | APHA 2017 : 4500-NH3 C | 50 |
| 3 | Biochemical Oxygen Demand (BOD) [mg/l] | 6.4 | APHA 2017:5210-B | 30 |
| 4 | Chemical Oxygen Demand (COD) [mg/l] | 47.23 | APHA 2017 : 5220-C | 250 |
| 5 | pH | 7.17 | APHA 2017 : 4500 H+B | 5.5 - 9.0 |
| 6 | Oil & Grease [mg/l] | 3 | APHA 2017 : 5520 B | 10 |
| 7 | Nitrate as NO3 [mg/l] | 11.75 | APHA 2017 : 4500-NO3- B | 50 |

Notes:

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

Authorized Signatory
 (Report No: TC502522200000048)



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TEST REPORT

| | | | |
|-----------------------|---|--------------------------------------|-------------------|
| Report No./ULR No. | TC502522200000051 | Date | 18-01-2022 |
| Issued To | M/S Hindusthan Zinc Limited (Debari Zinc Smelter) PO : Zinc Smelter, District Udaipur (Rajasthan). | Type of Unit | Smelter |
| Type of Sample | Wastewater Sample | Date of Sample Collection/Monitoring | 05-01-2022 |
| Point of Collection | STP Outlet Colony | Date of Receipt | 07-01-2022 |
| Date of Test/Analysis | 07-01-2022 to 18-01-2022 | Sampling Plan | APHA 2017 : 1060 |
| Quantity of Sample | 2 Ltr. | Sample Collected By | Vimal Kumar Yadav |
| Unit's representative | Ms. Navodita Shaktawat | Condition of Sample | Fit for testing |

RESULTS

| S.No | Parameters | Observed Value | Testing Protocol | Limits as per Environment protection rules, 1986 |
|------|--|---|-------------------------|--|
| 1 | Total Suspended Solids (mg/l) | 22 | APHA 2017:2540-D | 100 |
| 2 | Ammonical Nitrogen as N (mg/l) | 2.22 | APHA 2017 : 4500-NH3 C | 50 |
| 3 | Biochemical Oxygen Demand (BOD) (mg/l) | 10.67 | APHA 2017:5210-B | 30 |
| 4 | Chemical Oxygen Demand (COD) (mg/l) | 98.4 | APHA 2017 : 5220-C | 250 |
| 5 | pH | 7.35 | APHA 2017 : 4500 H+B | 5.5 - 9.0 |
| 6 | Oil & Grease (mg/l) | 5 | APHA 2017 : 5520 B | 10 |
| 7 | Total Residual Chlorine (mg/l) | BDL (<0.1) | APHA 2017 : 4500- Cl- B | 1.0 |
| 8 | Nitrate as NO3 (mg/l) | 18.79 | 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
Sunil Kumar

Authorized Signatory
(Report No: TC502522200000051)



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TEST REPORT

| | | | |
|-------------------------|---|--------------------------------------|-------------------|
| Report No./JLR No. : | 200000051 | Date : | 18-01-2022 |
| Issued To : | M/S Hindusthan Zinc Limited (Debari Zinc Smelter) PO : Zinc Smelter, District Udaipur (Rajasthan). | Type of Unit : | Smelter |
| Type of Sample : | Wastewater Sample | Date of Sample Collection/Monitoring | 05-01-2022 |
| Point of Collection | STP Outlet Colony | Date of Receipt | 07-01-2022 |
| Date of Test/Analysis : | 07-01-2022 to 18-01-2022 | Sampling Plan : | APHA 2017 : 106D |
| Quantity of Sample | 2 Ltr. | Sample Collected By : | Vimal Kumar Yadav |
| Unit's representative | Ms. Navodita Shaktawat | Condition of Sample : | Fit for testing |

RESULTS

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

Note :-

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

Sunit Kumar

Rajesh Maheshwar
Authorized Signatory
(Report No. 200000051)



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TEST REPORT

| | | | |
|------------------------|--|---------------------------------------|-------------------|
| Report No./ULR No.: | TC50252220000276 | Date: | 16-02-2022 |
| Issued To: | M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO: Zinc Smelter, District Udaipur (Rajasthan). | Type of Unit: | Smaller |
| Type of Sample: | Wastewater Sample | Date of Sample Collection/Monitoring: | 08-02-2022 |
| Point of Collection: | STP Outlet (Plant) | Date of Receipt: | 09-02-2022 |
| Date of Test/Analysis: | 09-02-2022 to 16-02-2022 | Sampling Plan: | APHA 2017: 1060 |
| Quantity of Sample: | 2 Ltr. | Sample Collected By: | Vimal Kumar Yadav |
| Unit's representative: | Ms. Navodita Shaktawat | Condition of Sample: | Fit for testing. |

RESULTS

| S.No | Parameters | Observed Value | Testing Protocol | Limits as per Environment protection rules, 1986 |
|------|--|----------------|-----------------------|--|
| 1 | Total Suspended Solids [mg/l] | 17 | APHA, 2017: 2540-D | 100 |
| 2 | Ammonical Nitrogen as N [mg/l] | 4.97 | APHA 2017: 4500-NH3 C | 50 |
| 3 | Biochemical Oxygen Demand (BOD) [mg/l] | 6.17 | APHA 2017: 5210-B | 30 |
| 4 | Chemical Oxygen Demand (COD) [mg/l] | 38.02 | APHA 2017: 5220-C | 250 |
| 5 | pH | 7.75 | 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] | 18.49 | APHA 2017: 4500-NO3-B | 50 |

Notes:

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[Signature]
 Senior Analyst

[Signature]
 Authorized Signatory
 (Report No: TC50252220000276)



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TEST REPORT

| | | | |
|-------------------------|---|--|-------------------|
| Report No./ULR No. : | TC50252220000279 | Date : | 17-02-2022 |
| Issued To : | M/S Hindusthan Zinc Limited (Debari Zinc Smelter) PO : Zinc Smelter, District Udaipur (Rajasthan). | Type of Unit : | Smelter |
| Type of Sample : | Wastewater Sample | Date of Sample Collection/Monitoring : | 07-02-2022 |
| Point of Collection : | STP Outlet Colony | Date of Receipt : | 09-02-2022 |
| Date of Test/Analysis : | 09-02-2022 to 17-02-2022 | Sampling Plan : | APHA 2017 : 1060 |
| Quantity of Sample : | 2 Ltr. | Sample Collected By : | Vinay Kumar Yadav |
| Unit's representative : | Ms. Navodita Shaktawat | Condition of Sample : | Fit for testing |

RESULTS

| S.No | Parameters | Observed Value | Testing Protocol | Limits as per Environment protection rules, 1986 |
|------|--|---|-------------------------|--|
| 1 | Total Suspended Solids [mg/l] | 13 | APHA 2017 : 2540-D | 100 |
| 2 | Ammonical Nitrogen as N [mg/l] | 1.1 | APHA 2017 : 4500-NH3-C | 50 |
| 3 | Biochemical Oxygen Demand (BOD) [mg/l] | 11.25 | APHA 2017:5210-B | 30 |
| 4 | Chemical Oxygen Demand (COD) [mg/l] | 124.42 | APHA:2017 : 5220-C | 250 |
| 5 | pH | 7.19 | APHA:2017 : 4500 H+B | 5.5 - 9.0 |
| 6 | Oil & Grease [mg/l] | 4 | APHA 2017 : 5520 B | 10 |
| 7 | Total Residual Chlorine [mg/l] | 0.1 | APHA 2017 : 4500- Cl- B | 1.0 |
| 8 | Nitrate as NO3 [mg/l] | 9.78 | 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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Vinay Kumar

Rajesh Maheshwari
Authorized Signatory
(Report No: TC50252220000279)



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TEST REPORT

| | | | |
|-------------------------|--|---------------------------------------|-------------------|
| Report No./ULR No | 200000279 | Date : | 17-02-2022 |
| Issued To : | M/S Hindusthan Zinc Limited (Dobari Zinc Smelter) PO : Zinc Smelter, District Udaipur (Rajasthan) | Type of Unit : | Smelter |
| Type of Sample : | Wastewater Sample | Date of Sample Collection/Modelling : | 07-02-2022 |
| Point of Collection | STP Outlet Colony | Date of Receipt : | 09-02-2022 |
| Date of Test/Analysis : | 09-02-2022 to 17-02-2022 | Sampling Plan : | APHA 2017 : 1060 |
| Quantity of Sample | 2 Lit | Sample Collected By : | Vimal Kumar Yadav |
| Unit's representative | Ms. Navodita Shaktawat | Condition of Sample : | Fit for testing |

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

Notes -

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Vimal Kumar

Authorized Signatory
 (Report No: 200000279)



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TEST REPORT

| | | | |
|------------------------|---|---------------------------------------|-------------------|
| Report No./ULR No.: | TC502522200000481 | Date: | 22-03-2022 |
| Issued To: | M/S Hindusthan Zinc Limited (Debari Zinc Smelter) PO : Zinc Smelter, District Udaipur (Rajasthan). | Type of Unit: | Smelter |
| Type of Sample: | Liquid Effluents | Date of Sample Collection/Monitoring: | 07-03-2022 |
| Point of Collection: | STP Outlet (Plant) | Date of Receipt: | 09-03-2022 |
| Date of Test/Analysis: | 09-03-2022 to 22-03-2022 | Sampling Plan: | APHA 2017 : 1060 |
| Quantity of Sample: | 2 Ltr. | Sample Collected By: | Vimal Kumar Yadav |
| Unit's representative: | Ms. Navodita Shaktawat | Condition of Sample: | Fit for testing |

RESULTS

| S.No | Parameters | Observed Value | Testing Protocol | Limits as per Environment protection rules, 1986 |
|------|--|----------------|-------------------------|--|
| 1 | Total Suspended Solids [mg/l] | 21 | APHA.2017.2540-D | 100 |
| 2 | Ammonical Nitrogen as N [mg/l] | 4.27 | APHA 2017 : 4500-NH3 C | 50 |
| 3 | Biochemical Oxygen Demand (BOD) [mg/l] | 7.11 | APHA 2017 : 5210-B | 30 |
| 4 | Chemical Oxygen Demand (COD) [mg/l] | 45.25 | APHA:2017 : 5220-C | 250 |
| 5 | pH | 7.48 | 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] | 22.71 | APHA 2017 : 4500-NO3- B | 50 |

Notes :

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Senior Analyst
Sunil Kumar

Rajesh Maheshwan
Authorized Signatory
(Report No: TC502522200000481)



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ISO 14001:2015,

ISO 45001:2018 (OHS)

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Email : marketinglab@teamtesthouse.com

TEST REPORT

| | | | |
|-----------------------|--|--------------------------------------|-------------------|
| Report No./ULR No. | 20000484 | Date | 22-03-2022 |
| Issued To | M/S Hindusthan Zinc Limited (Debari Zinc Smelter) PO : Zinc Smelter, District Udaipur (Rajasthan) | Type of Unit | Smelter |
| Type of Sample | Liquid Effluents | Date of Sample Collection/Monitoring | 08-03-2022 |
| Point of Collection | STP Outlet Colony | Date of Receipt | 09-03-2022 |
| Date of Test/Analysis | 09-03-2022 to 22-03-2022 | Sampling Plan | APHA 2017 : 1060 |
| Quantity of Sample | 2 Ltr. | Sample Collected By | Vimal Kumar Yadav |
| Unit's representative | Ms. Navodita Shaktawat | Condition of Sample | Fit for testing |

RESULTS

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

Notes :-

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

Rajesh Mishreshwan
Authorized Signatory
(Report No. 20000484)



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TEST REPORT

| | | | |
|-----------------------|---|--------------------------------------|-------------------|
| Report No./ULR No. : | 20000484 | Date : | 22-03-2022 |
| Issued To : | M/S Hindustan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan) | Type of Unit : | Smelter |
| Type of Sample : | Liquid Effluents | Date of Sample Collection/Monitoring | 06-03-2022 |
| Point of Collection | STP Outlet Colony | Date of Receipt | 09-03-2022 |
| Date of Test/Analysis | 09-03-2022 to 22-03-2022 | Sampling Plan : | APHA 2017 : 1060 |
| Quantity of Sample : | 2 Ltr. | Sample Collected By : | Vimal Kumar Yadav |
| Unit's representative | Ms. Navodita Shaktawat | Condition of Sample : | Fit for testing |

RESULTS

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

Notes -

- 1. The results listed refer only to the tested sample (s) & parameter (s). Enhancement of products is neither intended nor implied.
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Senior Analyst
Sunil Kumar

Rajesh Maheshwan
Authorized Signatory
(Report No. 20000484)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

| | | | |
|-------------------------|---|--|-----------------------------|
| Report No./ULR No. : | TC50252210000022 | Date : | 19-01-2022 |
| Issued To : | M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan), | Type of Unit : | Smelter |
| Type of Sample : | Borewell Water | Date of Sample Collection/Monitoring : | 05-01-2022 |
| Point of Collection : | Peizometer No.-1 | Date of Receipt : | 07-01-2022 |
| Date of Test/Analysis : | 07-01-2022 to 19-01-2022 | Sampling Plan : | IS 3025:1987(Part 1)RA 2014 |
| Quantity of Sample : | 1 Ltr. | Sample Collected By : | Vimal Kumar Yadav |
| Unit's representative : | Ms. Navodita Shaktawat | Condition of Sample : | Fit for testing |

RESULTS

| S.No | Parameters | Observed Value | Testing Protocol |
|------|----------------|----------------|----------------------------------|
| 1 | pH | 7.87 | 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] | BDL(<0.001) | IS 3025 (Part 41) : 1992 RA 2019 |
| 4 | Lead [mg/l] | BDL(<0.01) | IS 3025 (Part 47) : 1994 RA 2019 |
| 5 | Zinc [mg/l] | 0.02 | IS 3025 (Part 49) : 1994 RA 2019 |

Notes :-

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

Rajesh Maheshwari
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TEST REPORT

| | | | |
|-------------------------|---|--|------------------------------|
| Report No./ILR No. : | TC502522100000023 | Date : | 19-01-2022 |
| Issued To : | M/S Hindusthan Zinc Limited (Debari Zinc Smelter) PO : Zinc Smelter, District Udaipur (Rajasthan). | Type of Unit : | Smelter |
| Type of Sample : | Borewell Water | Date of Sample Collection/Monitoring : | 05-01-2022 |
| Point of Collection : | Peizometer No.-2 | Date of Receipt : | 07-01-2022 |
| Date of Test/Analysis : | 07-01-2022 to 19-01-2022 | Sampling Plan : | IS 3025:1987(Part 1)/RA 2014 |
| Quantity of Sample : | 1 Ltr. | Sample Collected By : | Vimal Kumar Yadav |
| Unit's representative : | Ms. Navodita Shaktawat | Condition of Sample : | Fit for testing |

RESULTS

| S.No | Parameters | Observed Value | Testing Protocol |
|------|----------------|----------------|----------------------------------|
| 1 | pH | 7.83 | IS 3025 (Part 11) : 1983 RA 2017 |
| 2 | Iron [mg/l] | BDL(<0.01) | IS 3025 (Part 53) : 2003 RA 2019 |
| 3 | Cadmium [mg/l] | BDL(<0.001) | IS 3025 (Part 41) : 1992 RA 2019 |
| 4 | Lead [mg/l] | BDL(<0.01) | IS 3025 (Part 47) : 1994 RA 2019 |
| 5 | Zinc [mg/l] | 0.03 | IS 3025 (Part 49) : 1994 RA 2019 |

Notes :-

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

Rajesh Maheshwar
Rajesh Maheshwar
Authorized Signatory
(Report No: TC502522100000023)



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TEST REPORT

| | | | |
|-------------------------|---|--|-----------------------------|
| Report No./ULR No. : | TC502522100000024 | Date : | 19-01-2022 |
| Issued To : | M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan). | Type of Unit : | Smelter |
| Type of Sample : | Borewell Water | Date of Sample Collection/Monitoring : | 05-01-2022 |
| Point of Collection : | Peizometer No.-3 | Date of Receipt : | 07-01-2022 |
| Date of Test/Analysis : | 07-01-2022 to 19-01-2022 | Sampling Plan : | IS 3025:1987(Part 1)RA 2014 |
| Quantity of Sample : | 1 Ltr. | Sample Collected By : | Vimal Kumar Yadav |
| Unit's representative : | Ms. Navodita Shaktawat | Condition of Sample : | Fit for testing |

RESULTS

| S.No | Parameters | Observed Value | Testing Protocol |
|------|----------------|----------------|----------------------------------|
| 1 | pH | 7.99 | IS 3025 (Part 11) : 1983 RA 2017 |
| 2 | Iron [mg/l] | BDL(<0.01) | IS 3025 (Part 53) : 2003 RA 2019 |
| 3 | Cadmium [mg/l] | BDL(<0.001) | IS 3025 (Part 41) : 1992 RA 2019 |
| 4 | Lead [mg/l] | BDL(<0.01) | IS 3025 (Part 47) : 1994 RA 2019 |
| 5 | Zinc [mg/l] | 0.02 | IS 3025 (Part 49) : 1994 RA 2019 |

Notes -

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Balaram Agarwal
Senior Analyst

Rakesh Maheshwari
Authorized Signatory
(Report No: TC502522100000024)



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TEST REPORT

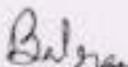
| | | | |
|-------------------------|---|--|-----------------------------|
| Report No./ULR No. : | TC502522100000025 | Date : | 19-01-2022 |
| Issued To : | M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan). | Type of Unit : | Smelter |
| Type of Sample : | Borewell Water | Date of Sample Collection/Monitoring : | 05-01-2022 |
| Point of Collection | Peizometer No -4 | Date of Receipt : | 07-01-2022 |
| Date of Test/Analysis : | 07-01-2022 to 19-01-2022 | Sampling Plan : | IS 3025:1987(Part 1)RA 2014 |
| Quantity of Sample : | 1 Ltr. | Sample Collected By : | Vimal Kumar Yadav |
| Unit's representative : | Ms. Navodita Shaktawat | Condition of Sample : | Fit for testing |

RESULTS

| S.No | Parameters | Observed Value | Testing Protocol |
|------|----------------|----------------|----------------------------------|
| 1 | pH | 7.98 | 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: TC502522100000025)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

| | | | |
|-------------------------|---|--|-----------------------------|
| Report No./ULR No. : | TC502522100000026 | Date : | 19-01-2022 |
| Issued To : | M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan). | Type of Unit : | Smelter |
| Type of Sample : | Borewell Water | Date of Sample Collection/Monitoring : | 05-01-2022 |
| Point of Collection : | Peizometer No.-5 | Date of Receipt : | 07-01-2022 |
| Date of Test/Analysis : | 07-01-2022 to 19-01-2022 | Sampling Plan : | IS 3025:1987(Part 1)RA 2014 |
| Quantity of Sample : | 1 Ltr. | Sample Collected By : | Vimal Kumar Yadav |
| Unit's representative : | Ms. Navodita Shaktawat | Condition of Sample : | Fit for testing |

RESULTS

| S.No | Parameters | Observed Value | Testing Protocol |
|------|----------------|----------------|----------------------------------|
| 1 | pH | 7.94 | 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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Balraj
Balraj Agarwal
Senior Analyst

Rajesh
Rajesh Maheshwari
Authorized Signatory
(Report No: TC502522100000026)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

| | | | |
|-------------------------|---|--|------------------------------|
| Report No./ULR No. : | TC502522100000027 | Date : | 19-01-2022 |
| Issued To : | M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan). | Type of Unit : | Smelter |
| Type of Sample : | Borewell Water | Date of Sample Collection/Monitoring : | 05-01-2022 |
| Point of Collection : | Peizometer No.-6 | Date of Receipt : | 07-01-2022 |
| Date of Test/Analysis : | 07-01-2022 to 19-01-2022 | Sampling Plan : | IS 3025:1987(Part 1)/RA 2014 |
| Quantity of Sample : | 1 Ltr. | Sample Collected By : | Vimal Kumar Yadav |
| Unit's representative : | Ms. Navodita Shaktawat | Condition of Sample : | Fit for testing |

RESULTS

| S.No | Parameters | Observed Value | Testing Protocol |
|------|----------------|----------------|----------------------------------|
| 1 | pH | 8.05 | IS 3025 (Part 11) : 1983 RA 2017 |
| 2 | Iron [mg/l] | BDL(<0.01) | IS 3025 (Part 53) : 2003 RA 2019 |
| 3 | Cadmium [mg/l] | BDL(<0.001) | IS 3025 (Part 41) : 1992 RA 2019 |
| 4 | Lead [mg/l] | BDL(<0.01) | IS 3025 (Part 47) : 1994 RA 2019 |
| 5 | Zinc [mg/l] | 0.02 | IS 3025 (Part 49) : 1994 RA 2019 |

Notes -

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

Rajesh Maheshwari
Authorized Signatory
(Report No: TC502522100000027)



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

TEST REPORT

| | | | |
|-------------------------|---|--|-----------------------------|
| Report No./ULR No. : | TC502522100000028 | Date : | 19-01-2022 |
| Issued To : | M/S Hindusthan Zinc Limited (Debari Zinc Smelter) PO : Zinc Smelter, District Udaipur (Rajasthan). | Type of Unit : | Smelter |
| Type of Sample : | Borewell Water | Date of Sample Collection/Monitoring : | 05-01-2022 |
| Point of Collection : | Peizometer No.-7 | Date of Receipt : | 07-01-2022 |
| Date of Test/Analysis : | 07-01-2022 to 19-01-2022 | Sampling Plan : | IS 3025:1987(Part 1)RA 2014 |
| Quantity of Sample : | 1 Ltr. | Sample Collected By : | Vimal Kumar Yadav |
| Unit's representative : | Ms. Navodita Shaktawat | Condition of Sample : | Fit for testing |

RESULTS

| S.No | Parameters | Observed Value | Testing Protocol |
|------|----------------|----------------|----------------------------------|
| 1 | pH | 7.95 | IS 3025 (Part 11) : 1983 RA 2017 |
| 2 | Iron [mg/l] | BDL(<0.01) | IS 3025 (Part 53) : 2003 RA 2019 |
| 3 | Cadmium [mg/l] | BDL(<0.001) | IS 3025 (Part 41) : 1992 RA 2019 |
| 4 | Lead [mg/l] | BDL(<0.01) | IS 3025 (Part 47) : 1994 RA 2019 |
| 5 | Zinc [mg/l] | 0.03 | IS 3025 (Part 49) : 1994 RA 2019 |

Notes -

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

Rajesh Maheshwari
Authorized Signatory

(Report No: TC502522100000028)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

| | | | |
|-------------------------|---|--|-----------------------------|
| Report No./ULR No. : | TC502522100000029 | Date : | 19-01-2022 |
| Issued To : | M/S Hindusthan Zinc Limited (Debari Zinc Smelter) PO : Zinc Smelter, District Udaipur (Rajasthan). | Type of Unit : | Smelter |
| Type of Sample : | Borewell Water | Date of Sample Collection/Monitoring : | 05-01-2022 |
| Point of Collection : | Peizometer No.-8 | Date of Receipt : | 07-01-2022 |
| Date of Test/Analysis : | 07-01-2022 to 19-01-2022 | Sampling Plan : | IS 3025:1987(Part 1)RA 2014 |
| Quantity of Sample : | 1 Ltr. | Sample Collected By : | Vimal Kumar Yadav |
| Unit's representative : | Ms. Navodita Shaktawat | Condition of Sample : | Fit for testing |

RESULTS

| S.No | Parameters | Observed Value | Testing Protocol |
|------|----------------|----------------|----------------------------------|
| 1 | pH | 7.94 | IS 3025 (Part 11) : 1983 RA 2017 |
| 2 | Iron [mg/l] | BDL(<0.01) | IS 3025 (Part 53) : 2003 RA 2019 |
| 3 | Cadmium [mg/l] | BDL(<0.001) | IS 3025 (Part 41) : 1992 RA 2019 |
| 4 | Lead [mg/l] | BDL(<0.01) | IS 3025 (Part 47) : 1994 RA 2019 |
| 5 | Zinc [mg/l] | 0.02 | IS 3025 (Part 49) : 1994 RA 2019 |

Notes :-

- # 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.

Balraj
B. Senior Analyst

Rajiv
Rajiv Maheshwan
Authorized Signatory
(Report No: TC502522100000029)



TEAM TEST HOUSE

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



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TEST REPORT

| | | | |
|-------------------------|---|--|-----------------------------|
| Report No./ULR No. : | TC502522100000030 | Date : | 19-01-2022 |
| Issued To : | M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan), | Type of Unit : | Smelter |
| Type of Sample : | Borewell Water | Date of Sample Collection/Monitoring : | 05-01-2022 |
| Point of Collection : | Peizometer No.-9 | Date of Receipt : | 07-01-2022 |
| Date of Test/Analysis : | 07-01-2022 to 19-01-2022 | Sampling Plan : | IS 3025:1987(Part 1)RA 2014 |
| Quantity of Sample : | 1 Ltr. | Sample Collected By : | Vimal Kumar Yadav |
| Unit's representative : | Ms. Navodita Shaktawat | Condition of Sample : | Fit for testing |

RESULTS

| S.No | Parameters | Observed Value | Testing Protocol |
|------|----------------|----------------|----------------------------------|
| 1 | pH | 8.01 | 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] | BDL(<0.001) | IS 3025 (Part 41) : 1992 RA 2019 |
| 4 | Lead [mg/l] | BDL(<0.01) | IS 3025 (Part 47) : 1994 RA 2019 |
| 5 | Zinc [mg/l] | 0.02 | IS 3025 (Part 49) : 1994 RA 2019 |

Notes :-

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

Rajesh Maheshwari
Authorized Signatory

(Report No: TC502522100000030)



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TEST REPORT

| | | | |
|-------------------------|---|--|-----------------------------|
| Report No./ULR No. : | TC50252210000031 | Date : | 19-01-2022 |
| Issued To : | M/S Hindusthan Zinc Limited (Debari Zinc Smelter) PO - Zinc Smelter, District Udaipur (Rajasthan), | Type of Unit : | Smelter |
| Type of Sample : | Borewell Water | Date of Sample Collection/Monitoring : | 05-01-2022 |
| Point of Collection : | Peizometer No.-10 | Date of Receipt : | 07-01-2022 |
| Date of Test/Analysis : | 07-01-2022 to 19-01-2022 | Sampling Plan : | IS 3025:1987(Part 1)RA 2014 |
| Quantity of Sample : | 1 Ltr. | Sample Collected By : | Vimal Kumar Yadav |
| Unit's representative : | Ms. Navodita Shaklewal | Condition of Sample : | Fit for testing |

RESULTS

| S.No | Parameters | Observed Value | Testing Protocol |
|------|----------------|----------------|----------------------------------|
| 1 | pH | 8.00 | IS 3025 (Part 11) : 1983 RA 2017 |
| 2 | Iron [mg/l] | BDL(<0.01) | IS 3025 (Part 53) : 2003 RA 2019 |
| 3 | Cadmium [mg/l] | BDL(<0.001) | IS 3025 (Part 41) : 1992 RA 2019 |
| 4 | Lead [mg/l] | BDL(<0.01) | IS 3025 (Part 47) : 1994 RA 2019 |
| 5 | Zinc [mg/l] | 0.03 | IS 3025 (Part 49) : 1994 RA 2019 |

Notes :

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

Rajesh Maheshwar
Rajesh Maheshwar
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TEST REPORT

| | | | |
|-----------------------|---|--------------------------------------|-------------------|
| Report No./ILR No. | TC502521400002461 | Date : | 04-12-2021 |
| Issued To : | M/S Hindusthan Zinc Limited (Debari Zinc Smelter) PO : Zinc Smelter, District Udaipur (Rajasthan). | Type of Unit : | Smelter |
| Type of Sample | Ambient Noise Level Monitoring | Date of Sample Collection/Monitoring | 22-11-2021 |
| Point of Collection | Near Environmental lab | Date of Receipt : | 25-11-2021 |
| Date of Test/Analysis | 26-11-2021 to 01-12-2021 | Sampling Plan : | TTH/NOISE/01 |
| Quantity of Sample | | Sample Collected By : | Vimal Kumar Yadav |
| Unit's representative | Ms. Navodita Shaktawat | Condition of Sample | Fit for testing |

RESULTS

| S.No | Parameters | Observed Value | Testing Protocol | Limits as per Environment protection rules, 1986 |
|------|--|----------------|------------------|--|
| 1 | Noise Level (Day Time) : Leq [dB(A)] | 63.2 | IS 9989 | 75 |
| 2 | Noise Level (Night Time) : Leq [dB(A)] | 56.5 | IS 9989 | 70 |

Notes

- The results listed herein apply to the testing sample (s) & parameters (s). Contamination of products is neither implied 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 10 days from the date of issue of test report unless otherwise specified.

Puran Mal Yogi
Senior Analyst

Rajesh Singh
Authorized Signatory
(Report No: TC502521400002461)



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Email : marketing@teamtesthouse.com

TEST REPORT

| | | | |
|-------------------------|--|--|-------------------|
| Report No./ILR No. : | TC502521600002462 | Date | 04-12-2021 |
| Issued To | M/S Hindustan Zinc Limited (Delant Zinc Smelter) PO Zinc Smelter, District Udaipur (Rajasthan), | Type of Unit : | Smaller |
| Type of Sample | Ambient Noise Level Monitoring | Date of Sample Collection/Monitoring : | 22-11-2021 |
| Point of Collection | Near Railway Gate/ SRP | Date of Receipt : | 25-11-2021 |
| Date of Test/Analysis | 25-11-2021 to 01-12-2021 | Sampling Plan : | TTH/NOISE/01 |
| Quantity of Sample : | - | Sample Collected by : | Vinay Kumar Yadav |
| Unit's representative : | Ms. Navodita Shuklaawat | Condition of Sample : | Fit for testing |

RESULTS

| S.No | Parameters | Observed Value | Testing Protocol | Limits as per Environment protection rules, 1986 |
|------|--|----------------|------------------|--|
| 1 | Noise Level (Day Time) : Leq [dB(A)] | 64.8 | IS 9985 | 75 |
| 2 | Noise Level (Night Time) : Leq [dB(A)] | 57.5 | IS 9985 | 70 |

Notes :-

- # The results listed refer only to the tested samples (a) & parameters (a). Enforcement of products is neither affected nor applied.
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- # The samples will be destroyed after 15 days from the date of issue of test report unless otherwise specified.

Pawan Mal Yogi
Senior Analyst

Authorized Signatory
(Report No: TC502521600002462)



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TEST REPORT

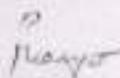
| | | | |
|-------------------------|---|--------------------------------------|-------------------|
| Report No./L.R. NO. | TC502521600002464 | Date : | 04-12-2021 |
| Issued To : | M/S Hindusthan Zinc Limited (Debari Zinc Smelter) PO - Zinc Smelter, District Udaipur (Rajasthan). | Type of Unit | Smelter |
| Type of Sample | Ambient Noise Level Monitoring | Date of Sample Collection/Monitoring | 22-11-2021 |
| Point of Collection | Near DG Set Room | Date of Receipt : | 25-11-2021 |
| Date of Test/Analysis : | 25-11-2021 to 01-12-2021 | Sampling Plan : | TTH/NOISE/01 |
| Quantity of Sample | | Sample Collected By : | Vinod Kumar Yadav |
| Unit's representative | Ms. Navodita Shaktawat | Condition of Sample | Fit for testing |

RESULTS

| S.No | Parameters | Observed Value | Testing Protocol | Limits as per Environment protection rules, 1986 |
|------|--|----------------|------------------|--|
| 1 | Noise Level (Day Time) : Leq [dB(A)] | 67.5 | IS 9989 | 75 |
| 2 | Noise Level (Night Time) : Leq [dB(A)] | 58.2 | IS 9989 | 70 |

Notes

- The results listed here apply to the tested sample (s) & parameter (s). Endorsement of products is neither intended nor implied.
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 Senior Analyst


 Authorized Signatory
 (Report No: TC502521600002464)



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TEST REPORT

| | | | |
|-----------------------|---|--------------------------------------|-------------------|
| Report No./JLR No. | TC502521600002461 | Date | 04-12-2021 |
| Issued To | M/S Hindusthan Zinc Limited (Debari Zinc Smelter) PO : Zinc Smelter, District Udaipur (Rajasthan). | Type of Unit | Smelter |
| Type of Sample | Ambient Noise Level Monitoring | Date of Sample Collection/Monitoring | 25-11-2021 |
| Point of Collection | Near Environmental lab | Date of Receipt | 25-11-2021 |
| Date of Test/Analysis | 25-11-2021 to 01-12-2021 | Sampling Plan | TTH/NOISE/01 |
| Quantity of Sample | | Sample Collected By | Vimal Kumar Yadav |
| Unit's representative | Ms. Nivedita Shaktawat | Condition of Sample | Fit for testing |

RESULTS

| S No | Parameters | Observed Value | Testing Protocol | Limits as per Environment protection rules, 1986 |
|------|--|----------------|------------------|--|
| 1 | Noise Level (Day Time) : Leq [dB(A)] | 63.2 | IS 9989 | 75 |
| 2 | Noise Level (Night Time) : Leq [dB(A)] | 55.5 | IS 9989 | 70 |

Notes :

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Puran Mal Yogi
Senior Analyst

Rajesh Manojwar
Authorized Signatory
(Report No. TC502521600002461)



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TEST REPORT

| | | | |
|-------------------------|--|--|-------------------|
| Report No./JLR No. : | TC502521600002462 | Date : | 04-12-2021 |
| Issued To : | M/S Hindusthan Zinc Limited (Delhi Zinc Smelter) PO - Zinc Smelter, District Udaipur (Rajasthan). | Type of Unit : | Smelter |
| Type of Sample : | Ambient Noise Level Monitoring | Date of Sample Collection/Monitoring : | 22-11-2021 |
| Point of Collection : | Near Railway Gate/ SRP | Date of Receipt : | 29-11-2021 |
| Date of Test/Analysis : | 25-11-2021 to 01-12-2021 | Sampling Plan : | TT14/NOISE/01 |
| Quantity of Sample : | - | Sample Collected by : | Vinod Kumar Yadav |
| Unit's representative : | Ms. Navodita Shakawat | Condition of Sample : | Fit for testing |

RESULTS

| S.No | Parameters | Observed Value | Testing Protocol | Limits as per Environment protection rules, 1986 |
|------|--|----------------|------------------|--|
| 1 | Noise Level (Day Time) : Leq [dB(A)] | 64.8 | IS 9989 | 75 |
| 2 | Noise Level (Night Time) : Leq [dB(A)] | 57.5 | IS 9989 | 70 |

- Notes -**
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[Signature]
 Senior Analyst

[Signature]
 Authorized Signatory
 (Report No: TC502521600002462)



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TEST REPORT

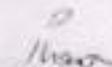
| | | | |
|-----------------------|--|--------------------------------------|-------------------|
| Report No./L.R No. | TC50252100002463 | Date | 04-12-2021 |
| Issued To | M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan) | Type of Unit | Smelter |
| Type of Sample | Ambient Noise Level Monitoring | Date of Sample Collection/Monitoring | 22-11-2021 |
| Point of Collection | Near ETP | Date of Receipt | 25-11-2021 |
| Date of Test/Analysis | 25-11-2021 to 01-12-2021 | Sampling Plan | TTN01NOISE/01 |
| Quantity of Sample | | Sample Collected By | Vimal Kumar Yadav |
| Unit's representative | Ms. Navonita Shaktawat | Condition of Sample | Fit for testing |

RESULTS

| S.No | Parameters | Observed Value | Testing Protocol | Limits as per Environment protection rules, 1986 |
|------|--|----------------|------------------|--|
| 1 | Noise Level (Day Time) : Leq [dB(A)] | 66.5 | IS 9969 | 75 |
| 2 | Noise Level (Night Time) : Leq [dB(A)] | 59.5 | IS 9969 | 70 |

Notes -

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Senior Analyst


Authorized Signatory
(Report No: TC50252100002463)



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TEST REPORT

| | | | |
|-------------------------|---|--|-------------------|
| Report No./ULR No. | TC502521600002465 | Date : | 04-12-2021 |
| Issued To : | M/S Hindusthan Zinc Limited (Debari Zinc Smelter) PO : Zinc Smelter, District Udaipur (Rajasthan). | Type of Unit : | Smelter |
| Type of Sample : | Ambient Noise Level Monitoring | Date of Sample Collection/Monitoring : | 23-11-2021 |
| Point of Collection : | Near ZSD Main Gate | Date of Receipt : | 25-11-2021 |
| Date of Test/Analysis : | 25-11-2021 to 01-12-2021 | Sampling Plan : | TT/NOISE/01 |
| Quantity of Sample : | | Sample Collected By : | Vimal Kumar Yadav |
| Unit's representative : | Ms. Navndita Shuklawat | 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 9889 | 75 |
| 2 | Noise Level (Night Time) : Leq [dB(A)] | 56.5 | IS 9889 | 70 |

Note:-

- The results stated refer only to the tested sample(s) & parameters (s). Extent/coverage of process is neither asserted nor implied.
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Pooja
Senior Analyst

Dr. Pooja
Authorized Signatory
(Report No: TC502521600002465)



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TEST REPORT

| | | | |
|-----------------------|--|--------------------------------------|-------------------|
| Report No./ILR No. | TC502521600002466 | Date | 04-12-2021 |
| Issued To: | M/S Hindusthan Zinc Limited (Debar Zinc Smelter) PO - Zinc Smelter, District Udaipur (Rajasthan). | Type of Unit | Smelter |
| Type of Sample | Ambient Noise Level Monitoring | Date of Sample Collection/Monitoring | 23-11-2021 |
| Point of Collection | Near ZE | Date of Receipt | 25-11-2021 |
| Date of Test/Analysis | 25-11-2021 to 01-12-2021 | Sampling Plan | TTH/NOISE/01 |
| Quantity of Sample | - | Sample Collected By: | Vimal Kumar Yadav |
| Unit's representative | Ms. Navodita Shaktawat | Condition of Sample | Fit for testing |

RESULTS

| S.No | Parameters | Observed Value | Testing Protocol | Limits as per Environment protection rules, 1986 |
|------|--|----------------|------------------|--|
| 1 | Noise Level (Day Time) : Leq [dB(A)] | 64.6 | IS 9989 | 75 |
| 2 | Noise Level (Night Time) : Leq [dB(A)] | 57.3 | IS 9989 | 70 |

Notes:

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

Purshottam Lal
Senior Analyst

Rajesh Matheshwar
Authorized Signatory
(Report No: TC502521600002466)



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JDAUDH

TEST REPORT

| | | | | |
|-------------------------|---|-------------------|--|-------------------|
| Report No./ULR No. : | TC502521600002467 | | Date : | 04-12-2021 |
| Issued To : | M/S. Hindusthan Zinc Limited (Deban Zinc Smelter) | Type of Unit : | Smelter | |
| Type of Sample : | Ambient Noise Level Monitoring | | Date of Sample Collection/Monitoring : | 23-11-2021 |
| Point of Collection : | Near Weigh Bridge | Date of Receipt : | 25-11-2021 | |
| Date of Test/Analysis : | 25-11-2021 to 01-12-2021 | | Sampling Plan : | TTH/NOISE/01 |
| Quantity of Sample : | | | Sample Collected By : | Vinod Kumar Yadav |
| Unit's representative : | Ms. Navodita Shukrawar | | Condition of Sample : | Fit for testing |

RESULTS

| S.No | Parameters | Observed Value | Testing Protocol | Limits as per Environment protection rules, 1986 |
|------|--|----------------|------------------|--|
| 1 | Noise Level (Day Time) : Leq [dB(A)] | 65.7 | IS 9889 | 75 |
| 2 | Noise Level (Night Time) : Leq [dB(A)] | 57.4 | IS 9889 | 70 |

Notes :-

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

[Signature]
Senior Analyst

[Signature]
Authorized Signatory
(Report No: TC502521600002467)



TEAM TEST HOUSE

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



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Email : marketinglab@teamtesthouse.com

JDA/UDI

TEST REPORT

| | | | |
|-------------------------|--|--------------------------------------|-------------------|
| Report No./ULR No. | TC502521600002468 | Date : | 04-12-2021 |
| Issued To : | M/S Hindustan Zinc Limited (Debian Zinc Smelter) PO : Zinc Smelter, District Udaipur (Rajasthan). | Type of Unit : | Smelter |
| Type of Sample | Ambient Noise Level Monitoring | Date of Sample Collection/Monitoring | 25-11-2021 |
| Point of Collection | Near Leaching | Date of Receipt : | 25-11-2021 |
| Date of Test/Analysis | 25-11-2021 to 04-12-2021 | Sampling Plan | TTM/NOISE/01 |
| Quantity of Sample | - | Sample Collected By | Vimal Kumar Yadav |
| Unit's representative : | Ms. Navodita Shaktawat | Condition of Sample : | Fit for testing |

RESULTS

| S.No | Parameters | Observed Value | Testing Protocol | Limits as per Environment protection rules, 1986 |
|------|--|----------------|------------------|--|
| 1 | Noise Level (Day Time) - Leq [dB(A)] | 66.5 | IS 9969 | 70 |
| 2 | Noise Level (Night Time) - Leq [dB(A)] | 55.8 | IS 9969 | 70 |

Notes :-

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Punit Yogi
Senior Analyst

Navodita Shaktawat
Authorized Signatory
(Report No: TC502521600002468)



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CHAS 18001:2007

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TEST REPORT

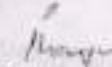
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|-------------------------|--|--|-------------------|
| Report No./ULR No. | TC502521600002469 | Date : | 04-12-2021 |
| Issued To : | M/S Hindusthan Zinc Limited (Debari Zinc Smelter) PO : Zinc Smelter, District Udaipur (Rajasthan) | Type of Unit : | Smelter |
| Type of Sample : | Ambient Noise Level Monitoring | Date of Sample Collection/Monitoring : | 24-11-2021 |
| Place of Collection : | Near MCTP Entrance | Date of Receipt : | 25-11-2021 |
| Date of Test/Analysis : | 25-11-2021 to 04-12-2021 | Sampling Plan : | TTH/NOISE/01 |
| Quantity of Sample : | - | Sample Collected By : | Vimal Kumar Yadav |
| Unit's representative : | Ms. Navodita Shukrawar | Condition of Sample : | Fit for testing |

RESULTS

| S.No | Parameters | Observed Value | Testing Protocol | Limits as per Environment protection rules, 1986 |
|------|--|----------------|------------------|--|
| 1 | Noise Level (Day Time) : Leq [dB(A)] | 63.8 | IS 9989 | 75 |
| 2 | Noise Level (Night Time) : Leq [dB(A)] | 56.4 | IS 9989 | 70 |

Notes

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Senior Analyst


Rajesh Maheshwari
Authorized Signatory
(Report No: TC502521600002469)



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ISO 14001:2015,

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TEST REPORT

| | | | |
|-------------------------|---|--|-------------------|
| Report No./JLR No. : | TC502521200002016 | Date : | 02-11-2021 |
| Issued To : | M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan). | Type of Unit : | Smelter |
| Type of Sample : | Liquid Effluents | Date of Sample Collection/Monitoring : | 23-10-2021 |
| Point of Collection : | STP Outlet Colony | Date of Receipt : | 27-10-2021 |
| Date of Test/Analysis : | 27-10-2021 to 02-11-2021 | Sampling Plan : | APHA 2017 : 1060 |
| Quantity of Sample : | 2ltr. | Sample Collected By : | Vimal Kumar Yadav |
| Unit's representative : | Ms. Navodita Shaktawat | Condition of Sample : | Fit for testing |

RESULTS

| S.No | Parameters | Observed Value | Testing Protocol | Limits as per Environment protection rules, 1986 |
|------|--|---|--|--|
| 1 | Total Suspended Solids [mg/l] | 14 | | |
| 2 | Ammonical Nitrogen as N [mg/l] | 3.61 | APHA 2017:2540-D | 100 |
| 3 | Biochemical Oxygen Demand (BOD) [mg/l] | 5.5 | APHA 2017 : 4500-NH3 C | 50 |
| 4 | Chemical Oxygen Demand (COD) [mg/l] | 47.62 | APHA 2017:5210-B | 30 |
| 5 | pH | 7.32 | APHA:2017 : 5220-C | 250 |
| 6 | Oil & Grease [mg/l] | 3 | APHA:2017 : 4500 H+B | 5.5 - 9.0 |
| 7 | Total Residual Chlorine [mg/l] | BDL (<0.1) | APHA 2017 : 5520 B | 10 |
| 8 | Nitrate as NO3 [mg/l] | 18.88 | APHA 2017 : 4500- Cl- B | 1.0 |
| 9 | Bioassay test | 100% survival of fish after 96 hrs in 100% dilution | APHA 2017 : 4500-NO3- B IS 6582 :1971 | 50 90 % Survival of Fish after 96 hours in 100 % Effluent |

Notes :

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Puran Mai Yogi
Puran Mai Yogi
Senior Analyst

Rajesh Maheshwan
Rajesh Maheshwan
Authorized Signatory
(Report No: TC502521200002016)



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TEST REPORT

| | | | |
|-----------------------|---|--------------------------------------|-------------------|
| Report No./ULR No. | TC502521600002471 | Date | 04-12-2021 |
| Issued To : | M/S Hindusthan Zinc Limited (Debari Zinc Smelter) | Type of Unit : | Smelter |
| Type of Sample : | PO : Zinc Smelter, District Udaipur (Rajasthan) | Date of Sample Collection/Monitoring | 24-11-2021 |
| Point of Collection | Ambient Noise Level Monitoring | Date of Receipt | 25-11-2021 |
| Date of Test/Analysis | Near Work Shop | Sampling Point | TTH/NOISE/01 |
| Quantity of Sample | 25-11-2021 to 04-12-2021 | Sample Collected By | Vimal Kumar Yadav |
| Unit's representative | Ms. Navodita Shaktiwal | Condition of Sample | Fit for testing |

RESULTS

| S.No | Parameters | Observed Value | Testing Protocol | Limits as per Environment protection rules, 1986 |
|------|--|----------------|------------------|--|
| 1 | Noise Level (Day Time) : Leq [dB(A)] | 62.8 | IS 9989 | 75 |
| 2 | Noise Level (Night Time) : Leq [dB(A)] | 54.3 | IS 9989 | 70 |

Notes :

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Rey
 Senior Analyst

[Signature]
 Authorized Signatory
 (Report No: TC502521600002471)



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TEST REPORT

| | | | |
|-----------------------|---|--------------------------------------|-------------------|
| Report No./ULH No. | TC502521600002472 | Date | 04-12-2021 |
| Issued To | M/S Hindusthan Zinc Limited (Debari Zinc Smelter) PO - Zinc Smelter, District Udaipur (Rajasthan). | Type of Unit | Smelter |
| Type of Sample | Ambient Noise Level Monitoring | Date of Sample Collection/Monitoring | 24-11-2021 |
| Point of Collection | Near Solar Area | Date of Receipt | 25-11-2021 |
| Date of Test/Analysis | 25-11-2021 to 04-12-2021 | Sampling Plan | 1TH/NOISE/01 |
| Quantity of Sample | - | Sample Collected By | Vimal Kumar Yadav |
| Unit's representative | Ms. Navodita Shaktawat | Condition of Sample | Fit for testing |

RESULTS

| S.No | Parameters | Observed Value | Testing Protocol | Limits as per Environment protection rules, 1986 |
|------|--|----------------|------------------|--|
| 1 | Noise Level (Day Time) : Leq [dB(A)] | 62.6 | IS 9969 | 75 |
| 2 | Noise Level (Night Time) : Leq [dB(A)] | 55.2 | IS 9969 | 70 |

Notes -

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Navodita Shaktawat
 Senior Analyst

Navodita Shaktawat
 Authorized Signatory
 (Report No: TC502521600002472)



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 Email : marketinglab@teamtesthouse.com

TEST REPORT

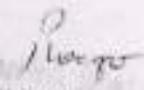
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|-------------------------|--|--------------------------------------|-------------------|
| Report No./ULR No. : | TC502521600002473 | Date : | 04-12-2021 |
| Issued To : | M/S Hindusthan Zinc Limited [Deban Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan). | Type of Unit : | Smelter |
| Type of Sample : | Ambient Noise Level Monitoring | Date of Sample Collection/Monitoring | 22-11-2021 |
| Point of Collection : | Near Hospital | Date of Receipt : | 25-11-2021 |
| Date of Test/Analysis : | 25-11-2021 to 04-12-2021 | Sampling Plan | ITH/NOISE/01 |
| Quantity of Sample : | | Sample Collected By : | Vimal Kumar Yadav |
| Unit's representative : | Ms. Navodita Shaktawat | Condition of Sample : | Fit for testing |

RESULTS

| S.No | Parameters | Observed Value | Testing Protocol | Limits as per Environment protection rules, 1986 |
|------|--|----------------|------------------|--|
| 1 | Noise Level (Day Time) : Leq [dB(A)] | 58.7 | IS 9989 | 75 |
| 2 | Noise Level (Night Time) : Leq [dB(A)] | 51.5 | IS 9989 | 70 |

Notes :

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 Senior Analyst


 Authorized Signatory
 (Report No: TC502521600002473)



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TEST REPORT

| | | | |
|-----------------------|--|--------------------------------------|-------------------|
| Report No./J.R. NO. | TC502521600002474 | Date | 04-12-2021 |
| Issued To | M/S Hindusthan Zinc Limited (Debari Zinc Smelter) PO - Zinc Smelter, District Udaipur (Rajasthan) | Type of Unit | Smelter |
| Type of Sample | Ambient Noise Level Monitoring | Date of Sample Collection/Monitoring | 22-11-2021 |
| Point of Collection | Near STP | Date of Receipt | 25-11-2021 |
| Date of Test/Analysis | 25-11-2021 to 04-12-2021 | Sampling Plan | TTH/NOISE/01 |
| Quantity of Sample | | Sample Collected By | Vimal Kumar Yadav |
| Unit's representative | Ms. Navodita Shaktawat | Condition of Sample | Fit for testing |

| S.No | Parameters | RESULTS | | |
|------|--|----------------|------------------|--|
| | | Observed Value | Testing Protocol | Limits as per Environment protection rules, 1986 |
| 1 | Noise Level (Day Time) : Leq [dB(A)] | 65.5 | IS 9989 | 75 |
| 2 | Noise Level (Night Time) : Leq [dB(A)] | 58.5 | IS 9989 | 70 |

Notes :-

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Yogi
 Senior Analyst

Yogi
 Authorized Signatory
 (Report No: TC502521600002474)



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TEST REPORT

| | | | | |
|-----------------------|---|-----------------|--------------------------------------|-------------------|
| Report No./JLR No | TC502521600002475 | | Date | 04-12-2021 |
| Issued To | M/S Hindustan Zinc Limited [Deban Zinc Smelter] | Type of Unit | Smelter | |
| Type of Sample | Ambient Noise Level Monitoring | | Date of Sample Collection/Monitoring | 22-11-2021 |
| Point of Collection | Near Store | Date of Receipt | 25-11-2021 | |
| Date of Test/Analysis | 25-11-2021 to 04-12-2021 | | Sampling Plan | TTH/NOISE/01 |
| Quantity of Sample | - | | Sample Collected By | Vimal Kumar Yadav |
| Unit's representative | Ms. Navodita Shaktawat | | Condition of Sample | Fit for testing |

RESULTS

| S.No | Parameters | Observed Value | Testing Protocol | Limits as per Environment protection rules, 1986 |
|------|--|----------------|------------------|--|
| 1 | Noise Level (Day Time) : Leq [dB(A)] | 61.8 | IS 9989 | 75 |
| 2 | Noise Level (Night Time) : Leq [dB(A)] | 53.5 | IS 9989 | 70 |

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(Signature)
Senior Analyst

(Signature)
Rajesh Maheshwari
Authorized Signatory
(Report No: TC502521600002475)



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



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TEST REPORT

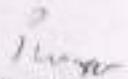
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|-------------------------|--|--|-------------------|
| Report No./ULR No. : | TC50252260000012 | Date : | 31-01-2022 |
| Issued To : | M/S Hindustan Zinc Limited [Debari Zinc Smelter] PO - Zinc Smelter, District Udaipur (Rajasthan). | Type of Unit : | Smelter |
| Type of Sample : | Ambient Noise Level Monitoring | Date of Sample Collection/Monitoring : | 05-01-2022 |
| Point of Collection : | Near Environmental lab | Date of Receipt : | 07-01-2022 |
| Date of Test/Analysis : | 07-01-2022 to 31-01-2022 | Sampling Plan : | ITM/NOISE/01 |
| Quantity of Sample : | | Sample Collected By : | Vimal Kumar Yadav |
| Unit's representative : | Ms. Navodita Shaktawat | Condition of Sample : | Fit for testing |

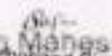
RESULTS

| S.No | Parameters | Observed Value | Testing Protocol | Limits as per Environment protection rules, 1986 |
|------|--|----------------|------------------|--|
| 1 | Noise Level (Day Time) : Leq [dB(A)] | 61.4 | IS 9989 | 75 |
| 2 | Noise Level (Night Time) : Leq [dB(A)] | 54.8 | IS 9989 | 70 |

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Senior Analyst
Puran Mal Yogi


Rajesh Maheshwar
Authorized Signatory
(Report No: TC50252260000012)



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TEST REPORT

| | | | |
|-------------------------|---|--|-------------------|
| Report No./ILR No. : | TC50252260000013 | Date : | 31-01-2022 |
| Issued To : | M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan). | Type of Unit : | Smelter |
| Type of Sample : | Ambient Noise Level Monitoring | Date of Sample Collection/Monitoring : | 05-01-2022 |
| Point of Collection : | Near Railway Gate/ SRP | Date of Receipt : | 07-01-2022 |
| Date of Test/Analysis : | 07-01-2022 to 31-01-2022 | Sampling Plan : | TTH/NOISE/01 |
| Quantity of Sample : | - | Sample Collected By : | Vimal Kumar Yadav |
| Unit's representative : | Ms. Navodita Shaktawat | Condition of Sample : | Fit for testing |

RESULTS

| S.No | Parameters | Observed Value | Testing Protocol | Limits as per Environment protection rules, 1986 |
|------|--|----------------|------------------|--|
| 1 | Noise Level (Day Time) : Leq [dB(A)] | 62.3 | IS 9989 | 75 |
| 2 | Noise Level (Night Time) : Leq [dB(A)] | 55.5 | IS 9989 | 70 |

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[Signature]
Sd/- Vimal Yadav

[Signature]
Rajesh Kumar
(Report No: TC50252260000013)



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TEST REPORT

| | | | |
|-----------------------|---|--|-------------------|
| Report No./ILR No. : | TC502522600000014 | Date | 31-01-2022 |
| Issued To : | M/S Hindusthan Zinc Limited (Debari Zinc Smelter) PO : Zinc Smelter, District Udaipur (Rajasthan). | Type of Unit | Smelter |
| Type of Sample : | Ambient Noise Level Monitoring | Date of Sample Collection/Monitoring : | 05-01-2022 |
| Point of Collection | Near ETP | Date of Receipt : | 07-01-2022 |
| Date of Test/Analysis | 07-01-2022 to 31-01-2022 | Sampling Plan : | TT/NOISE/01 |
| Quantity of Sample : | - | Sample Collected By : | Vimal Kumar Yadav |
| Unit's representative | Ms. Navodita Shaktawat | Condition of Sample | Fit for testing |

RESULTS

| S.No | Parameters | Observed Value | Testing Protocol | Limits as per Environment protection rules, 1986 |
|------|--|----------------|------------------|--|
| 1 | Noise Level (Day Time) : Leq [dB(A)] | 65.3 | IS 9989 | 75 |
| 2 | Noise Level (Night Time) : Leq [dB(A)] | 57.2 | IS 9989 | 70 |

- Notes :-
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Puraj
 Senior Analyst
Puran Mal Yogi

Rajesh
 Authorized Signatory
Rajesh Maheshwari
 (Report No: TC502522600000014)



TEAM TEST HOUSE

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 Email : surkatingh@teamtsthouse.com

TEST REPORT

| | | | |
|-------------------------|--|--|-------------------|
| Report No./ULR No. : | TC502522600000015 | Date : | 31-01-2022 |
| Issued To : | M/S Hindusthan Zinc Limited (Dubari Zinc Smelter) PO - Zinc Smelter, District Udaipur (Rajasthan) | Type of Unit : | Smelter |
| Type of Sample : | Ambient Noise Level Monitoring | Date of Sample Collection/Monitoring : | 05-01-2022 |
| Point of Collection : | Near DG Set Room | Date of Receipt : | 07-01-2022 |
| Date of Test/Analysis : | 07-01-2022 to 31-01-2022 | Sampling Plan : | TTHNOISE/01 |
| Quantity of Sample : | - | Sample Collected By : | Vimal Kumar Yadav |
| Unit's representative : | Ms. Navodita Shaktawat | Condition of Sample : | Fit for testing |

RESULTS

| S.No | Parameters | Observed Value | Testing Protocol | Limits as per Environment protection rules, 1986 |
|------|--|----------------|------------------|--|
| 1 | Noise Level (Day Time) : Leq [dB(A)] | 63.6 | IS 9989 | 75 |
| 2 | Noise Level (Night Time) : Leq [dB(A)] | 56.4 | IS 9989 | 70 |

Notes :

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Vimal Kumar Yadav
 Sr. Analyst

Vimal Kumar Yadav
 Regional Director
 (Report No: TC502522600000015)



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TEST REPORT

| | | | |
|-------------------------|--|--|-------------------|
| Report No./ULR No. : | TC50252260000016 | Date : | 01-01-2022 |
| Issued To : | M/S Hindusthan Zinc Limited (Dabon Zinc Smelter) PO : Zinc Smelter, District Udaipur (Rajasthan). | Type of Unit : | Smelter |
| Type of Sample : | Ambient Noise Level Monitoring | Date of Sample Collection/Monitoring : | 05-01-2022 |
| Point of Collection : | Near ZSD Main Gate | Date of Receipt : | 07-01-2022 |
| Date of Test/Analysis : | 07-01-2022 to 31-01-2022 | Sampling Plan : | TT/HCISE/01 |
| Quantity of Sample : | - | Sample Collected By : | Vinod Kumar Yadav |
| Unit's representative : | Mrs. Navodita Shaktawill | Condition of Sample : | Fit for testing |

RESULTS

| S.No | Parameters | Observed Value | Testing Protocol | Limits as per Environment protection rules, 1986 |
|------|--|----------------|------------------|--|
| 1 | Noise Level (Day Time) : Leq [dB(A)] | 52.8 | IS 9089 | 75 |
| 2 | Noise Level (Night Time) : Leq [dB(A)] | 57.3 | IS 9089 | 70 |

Notes :

1. The results listed refer only to the tested samples (s) & parameters (s). Enforcement of products is neither inferred nor implied.
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Puran
Senior Analyst
Puran Mal Yogi

Rajesh
Authorized Signatory
Rajesh Manojwar
(Report No: TC50252260000016)



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ISO 14001:2015

ISO 45001:2018 (OH&S)

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Email : marketing@teamtesthouse.com

TEST REPORT

| | | | |
|-------------------------|--|--|-------------------|
| Report No./ULR No. : | TC502522600000017 | Date : | 31-01-2022 |
| Issued To : | M/S Hindustan Zinc Limited [Dabari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan). | Type of Unit : | Smelter |
| Type of Sample : | Ambient Noise Level Monitoring | Date of Sample Collection/Monitoring : | 05-01-2022 |
| Point of Collection : | Near ZE | Date of Receipt : | 07-01-2022 |
| Date of Test/Analysis : | 07-01-2022 to 31-01-2022 | Sampling Plan : | TTHNOISE/01 |
| Quantity of Sample : | - | Sample Collected By : | Vimal Kumar Yadav |
| Unit's representative : | Ms. Navodita Shaktawat | Condition of Sample : | Fit for testing |

RESULTS

| S.No | Parameters | Observed Value | Testing Protocol | Limits as per Environment protection rules, 1986 |
|------|--|----------------|------------------|--|
| 1 | Noise Level (Day Time) : Leq [dB(A)] | 63.1 | IS 9989 | 75 |
| 2 | Noise Level (Night Time) : Leq [dB(A)] | 56.8 | IS 9989 | 70 |

Notes :

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Senior Analyst

Puran Mal Yadav
Puran Mal Yadav

Rajesh Kumar
Rajesh Kumar

(Report No: TC502522600000017)



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TEST REPORT

| | | | |
|-----------------------|--|--------------------------------------|-------------------|
| Report No./ULR No. | TC502522600000018 | Date | 31-01-2022 |
| Issued To | M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan) | Type of Unit | Smelter |
| Type of Sample | Ambient Noise Level Monitoring | Date of Sample Collection/Monitoring | 05-01-2022 |
| Point of Collection | Near Weigh Bridge | Date of Receipt | 07-01-2022 |
| Date of Test/Analysis | 07-01-2022 to 31-01-2022 | Sampling Plan | TTH/NOISE/01 |
| Quantity of Sample | - | Sample Collected By | Vimal Kumar Yadav |
| Unit's representative | Ms. Navodita Shaktawat | Condition of Sample | Fit for testing |

RESULTS

| S.No | Parameters | Observed Value | Testing Protocol | Limits as per Environment protection rules, 1986 |
|------|--|----------------|------------------|--|
| 1 | Noise Level (Day Time) : Leq [dB(A)] | 65.3 | IS 9089 | 75 |
| 2 | Noise Level (Night Time) : Leq [dB(A)] | 56.3 | IS 9089 | 70 |

Notes -

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

Authorized Signatory
 (Report No: TC502522600000018)



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Email : marketing@teamtesthouse.com

TEST REPORT

| | | | |
|-----------------------|--|--------------------------------------|-------------------|
| Report No./TIR No. | TC502522600000020 | Date | 31-01-2022 |
| Issued To | M/S Hindusthan Zinc Limited (Deban Zinc Smelter) PO : Zinc Smelter, District Udaipur (Rajasthan). | Type of Unit | Smelter |
| Type of Sample | Ambient Noise Level Monitoring | Date of Sample Collection/Monitoring | 05-01-2022 |
| Point of Collection | Near MCTP Entrance | Date of Receipt | 07-01-2022 |
| Date of Test/Analysis | 07-01-2022 to 27-01-2022 | Sampling Plan | TTH/NOISE/01 |
| Quantity of Sample | - | Sample Collected By | Vimal Kumar Yadav |
| Unit's representative | Ms. Navodita Shaktawat | Condition of Sample | Fit for testing |

RESULTS

| S.No | Parameters | Observed Value | Testing Protocol | Limits as per Environment protection rules, 1986 |
|------|--|----------------|------------------|--|
| 1 | Noise Level (Day Time) : Leq [dB(A)] | 68.8 | IS 9989 | 75 |
| 2 | Noise Level (Night Time) : Leq [dB(A)] | 57.9 | IS 9989 | 70 |

Notes -

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Senior Analyst
Puran Mal Yogi

Authorized Signatory
Rajeev
(Report No: TC502522600000020)



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TEST REPORT

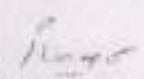
| | | | |
|-------------------------|---|--|-------------------|
| Report No./ULR No. : | TC502522600000021 | Date : | 31-01-2022 |
| Issued To : | M/S Hindusthan Zinc Limited (Debari Zinc Smelter) PO : Zinc Smelter, District Udaipur (Rajasthan). | Type of Unit : | Smelter |
| Type of Sample : | Ambient Noise Level Monitoring | Date of Sample Collection/Monitoring : | 05-01-2022 |
| Point of Collection : | Near Roadster | Date of Receipt : | 07-01-2022 |
| Date of Test/Analysis : | 07-01-2022 to 27-01-2022 | Sampling Plan : | TTH/NOISE/01 |
| Quantity of Sample : | - | Sample Collected By : | Vimal Kumar Yadav |
| Line's representative : | Ms. Navodita Shaktawat | Condition of Sample : | Fit for testing |

RESULTS

| S.No | Parameters | Observed Value | Testing Protocol | Limits as per Environment protection rules, 1986 |
|------|--|----------------|------------------|--|
| 1 | Noise Level (Day Time) : Leq [dB(A)] | 67.4 | IS 9889 | 75 |
| 2 | Noise Level (Night Time) : Leq [dB(A)] | 59.2 | IS 9889 | 70 |

Notes -

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Senior Analyst
Puran Mal Yogi


Rajesh Kumar
(Report No: TC502522600000021)



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TEST REPORT

| | | | |
|-----------------------|--|--------------------------------------|-------------------|
| Report No./ULR No. | TC502522600000022 | Date | 31-01-2022 |
| Issued To | M/S Hindustan Zinc Limited (Debari Zinc Smelter) PO - Zinc Smelter, District Udaipur (Rajasthan). | Type of Unit | Smelter |
| Type of Sample | Ambient Noise Level Monitoring | Date of Sample Collection/Monitoring | 05-01-2022 |
| Point of Collection | Near Work Shop | Date of Receipt | 07-01-2022 |
| Date of Test/Analysis | 07-01-2022 to 27-01-2022 | Sampling Plan | TTH/NOISE/01 |
| Quantity of Sample | | Sample Collected By | Vinod Kumar Yadav |
| Unit's representative | Ms. Navodita Shaktawat | Condition of Sample | Fit for testing |

RESULTS

| S.No | Parameters | Observed Value | Testing Protocol | Limits as per Environment protection rules, 1986 |
|------|---|----------------|------------------|--|
| 1 | Noise Level (Day Time) :- Leq [dB(A)] | 63.8 | IS 9989 | 75 |
| 2 | Noise Level (Night Time) :- Leq [dB(A)] | 55.2 | IS 9989 | 70 |

Notes :-

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Prakash
 Senior Analyst

Sgt
 Rajendra Singh
 (Report No. TC502522600000022)



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TEST REPORT

| | | | |
|-------------------------|--|--|-------------------|
| Report No./ULR No. : | TC502522600000023 | Date : | 31-01-2022 |
| Issued To : | M/S Hindustan Zinc Limited (Debari Zinc Smelter) PO : Zinc Smelter, District Udaipur (Rajasthan). | Type of Unit : | Smelter |
| Type of Sample : | Ambient Noise Level Monitoring | Date of Sample Collection/Monitoring : | 05-01-2022 |
| Point of Collection : | Near Solar Area | Date of Receipt : | 07-01-2022 |
| Date of Test/Analysis : | 07-01-2022 to 27-01-2022 | Sampling Plan : | TTH/NOISE/01 |
| Quantity of Sample : | - | Sample Collected By : | Vimal Kumar Yadav |
| Unit's representative : | Ms. Navodita Shaktawat | Condition of Sample : | Fit for testing |

RESULTS

| S.No | Parameters | Observed Value | Testing Protocol | Limits as per Environment protection rules, 1986 |
|------|--|----------------|------------------|--|
| 1 | Noise Level (Day Time) : Leq [dB(A)] | 64.9 | IS 9989 | 75 |
| 2 | Noise Level (Night Time) : Leq [dB(A)] | 57.3 | IS 9989 | 70 |

- Notes -
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P. Yadav
 Senior Analyst
Pursh Mal Yadav

R. K. Mehta
 R.K. Mehta Laboratory
 (Report No. TC502522600000023)



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TEST REPORT

| | | | |
|------------------------|--|---------------------------------------|-------------------|
| Report No./ULR No. | TC50252260000024 | Date: | 31-01-2022 |
| Issued To: | M/S Hindustan Zinc Limited (Debari Zinc Smelter) PO Zinc Smelter, District Udaipur (Rajasthan). | Type of Unit: | Smelter |
| Type of Sample: | Ambient Noise Level Monitoring | Date of Sample Collection/Monitoring: | 05-01-2022 |
| Point of Collection: | Near Hospital | Date of Receipt: | 07-01-2022 |
| Date of Test/Analysis: | 07-01-2022 to 27-01-2022 | Sampling Plan: | TT/NOISE/01 |
| Quantity of Sample: | - | Sample Collected By: | Vimal Kumar Yadav |
| Unit's representative: | Ms. Navodita Shaktawat | Condition of Sample: | Fit for testing |

RESULTS

| S.No | Parameters | Observed Value | Testing Protocol | Limits as per Environment protection rules, 1986 |
|------|--|----------------|------------------|--|
| 1 | Noise Level (Day Time) : Leq [dB(A)] | 58.6 | IS 9969 | 75 |
| 2 | Noise Level (Night Time) : Leq [dB(A)] | 53.1 | IS 9969 | 70 |

Notes -

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Signed Analyst
Piran Mal Yogi

Rajesh Kumar Choudhary
(Report No: TC50252260000024)



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TEST REPORT

| | | | |
|------------------------|--|---------------------------------------|-------------------|
| Report No./ULR No.: | TC502522600000025 | Date: | 31-01-2022 |
| Issued To: | M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO: Zinc Smelter, District Udaipur (Rajasthan). | Type of Unit: | Smelter |
| Type of Sample: | Ambient Noise Level Monitoring | Date of Sample Collection/Monitoring: | 05-01-2022 |
| Point of Collection: | Near STP | Date of Receipt: | 07-01-2022 |
| Date of Test/Analysis: | 07-01-2022 to 27-01-2022 | Sampling Plan: | TTHNOISE/01 |
| Quantity of Sample: | - | Sample Collected By: | Vimal Kumar Yadav |
| Unit's representative: | Ms. Navodita Shaktawat | Condition of Sample: | Fd 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)] | 62.6 | IS 9989 | 75 |
| 2 | Noise Level (Night Time) : Loq [dB(A)] | 54.8 | IS 9989 | 70 |

Notes

- The results listed refer only to the tested sample (s) & parameters (s). Endorsement of products & (s) is inferred not implied.
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[Signature]
Sd/-
Pirani Mal Yogi

[Signature]
Rajesh Kumar Signatory
(Report No: TC502522600000025)



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TEST REPORT

| | | | |
|-------------------------|--|--|-------------------|
| Report No./JLR No. | TC50252260000026 | | |
| Issued To : | M/S Hindustan Zinc Limited (Debari Zinc Smelter) PO : Zinc Smelter, District Udaipur (Rajasthan). | Date : | 31-01-2022 |
| Type of Sample : | Ambient Noise Level Monitoring | Type of Unit : | Smelter |
| Point of Collection : | Near Store | Date of Sample Collection/Monitoring : | 05-01-2022 |
| Date of Test/Analysis : | 07-01-2022 to 27-01-2022 | Date of Receipt : | 07-01-2022 |
| Quantity of Sample : | | Sampling Plan : | TTHNOISE/01 |
| Unit's representative : | Ms. Navodita Shaktawat | Sample Collected By : | Vimal Kumar Yadav |
| | | Condition of Sample : | Fit for testing |

RESULTS

| S.No | Parameters | Observed Value | Testing Protocol | Limits as per Environment protection rules, 1986 |
|------|--|----------------|------------------|--|
| 1 | Noise Level (Day Time) : Leq [dB(A)] | 61.6 | IS 9889 | 75 |
| 2 | Noise Level (Night Time) : Leq [dB(A)] | 53.8 | IS 9889 | 70 |

Notes :

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Puran Mal
 Senior Analyst
Puran Mal Yogi

Rajesh Kumar
 Rajesh Kumar
 (Report No: TC50252260000026)



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TEST REPORT

| | | | |
|------------------------|---|---------------------------------------|-------------------|
| Report No./JLR No.: | TC50252260000019 | Date: | 31-01-2022 |
| Issued To: | M/S Hindusthan Zinc Limited (Deban Zinc Smelter) PO - Zinc Smelter, District Udaipur (Rajasthan) | Type of Unit: | Smelter |
| Type of Sample: | Ambient Noise Level Monitoring | Date of Sample Collection/Monitoring: | 05-01-2022 |
| Point of Collection: | Near Leaching | Date of Receipt: | 07-01-2022 |
| Date of Test/Analysis: | 07-01-2022 to 31-01-2022 | Sampling Plan: | TT/NOISE/01 |
| Quantity of Sample: | - | Sample Collected By: | Vinod Kumar Yadav |
| Unit's representative: | Ms. Navodita Shaktawat | Condition of Sample: | Fit for testing |

RESULTS

| S.No | Parameters | Observed Value | Testing Protocol | Limits as per Environment protection rules, 1986 |
|------|--|----------------|------------------|--|
| 1 | Noise Level (Day Time) : Leq [dB(A)] | 67.3 | IS 9989 | 75 |
| 2 | Noise Level (Night Time) : Leq [dB(A)] | 58.1 | 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.

Purni Mal Yogi
 Senior Analyst

Rajesh Malleshwar
 Authorized Signatory
 (Report No: TC50252260000019)