



HDD-272, Phase III - Near JP Chowk
Ring Road No.-2, Kabir Nagar, Raipur (C.G.) - 492099
Ph : 0771 - 4027777 | Email : ultimatenviro@gmail.com

| | | | |
|--|-------------------------|------------------------------|-----------------|
| Name & Address of The Customer To, Crest Steel And Power Private Limited Village: Joratarai, Post - Mangatta Rajnandgaon 491441 | Report No. | UES/TR/23-24/06678 | |
| | Lab Ref No. | UES/23-24/AAQM/012704-012705 | |
| | Date of Sampling | 20/12/2023 | |
| | Date of Receipt | 21/12/2023 | |
| | Date of Report | 25/12/2023 | |
| | Date of Analysis | Start: 21/12/2023 | End: 25/12/2023 |

SAMPLE DETAILS

| | |
|-------------------------------------|--|
| Monitoring For | Ambient Air Quality Monitoring |
| Sampling Location | 1. Near Main Gate Area 2. Near Store Area |
| Customer Ref. No. & Date | 4232200409, Dated: 25.07.2023 |
| Duration Of Sampling | As per CPCB norms |
| Sample Collected By | Laboratory Chemist |
| Sampling Procedure | As Per Method Reference |
| Sample Quantity/Packing | Filter Paper (PM ₁₀): 1X1 No., Filter Paper (PM _{2.5}): 1X1 No. SO ₂ : 30mlX1 No. PVC Bottle, NO ₂ : 30mlX1 NO. PVC Bottle. |

Test Method for Ambient Air Quality Monitoring

| Parameter | Method Reference |
|--|--|
| Particulate Matter size less than 10 microns (PM ₁₀) | IS:5182:(Part-23):2006 &CPCB Guidelines Vol.-I |
| Particulate Matter size less than 2.5 microns (PM _{2.5}) | IS:5182:(Part-24):2019 &CPCB Guidelines Vol.-I |
| Sulphur Dioxide (SO ₂) | IS:5182:(Part-2):2001, RA 2006 &CPCB Guidelines Vol.-I |
| Nitrogen Dioxide (NO ₂) | IS:5182:(Part-6):2006 & CPCB Guidelines Vol.-I |

TEST REPORT

| Parameter | Unit | NAAQM Standard | Results | |
|-------------------|-------------------|----------------|---------------------|-----------------|
| | | | Near Main Gate Area | Near Store Area |
| PM ₁₀ | µg/m ³ | 100 | 76.5 | 81.4 |
| PM _{2.5} | µg/m ³ | 60 | 35.62 | 38.41 |
| SO ₂ | µg/m ³ | 80 | 16.24 | 17.44 |
| NO ₂ | µg/m ³ | 80 | 20.16 | 25.61 |
| CO | mg/m ³ | 4.0 | 1.34 | 2.11 |

REMARKS: RESULTS ARE AS ABOVE

Terms & conditions

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[Signature]
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AUTHORIZED SIGNATORY

-----End of the test report-----



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|--|-------------------------|--------------------|-----------------|
| Name & Address of The Customer To, Crest Steel And Power Private Limited Village: Joratarai, Post - Mangatta Rajnandgaon 491441 | REPORT NO. | UES/TR/23-24/06679 | |
| | LAB REF NO. | UES/23-24/W/012706 | |
| | DATE OF SAMPLING | 20/12/2023 | |
| | DATE OF RECEIPT | 21/12/2023 | |
| | DATE OF REPORT | 25/12/2023 | |
| | DATE OF ANALYSIS | START: 21/12/2023 | END: 25/12/2023 |

SAMPLE DETAILS

| | |
|---|---|
| ORDER /REFERENCE: | 4232200409, DATED: 25.07.2023 |
| CUSTOMER SAMPLE ID / SAMPLING LOCATION | NEW POND |
| SAMPLE TYPE | SURFACE WATER |
| SAMPLE COLLECTED BY | LABORATORY CHEMIST |
| PACKING OF SAMPLE | 3 L X 1 NO. PVC CAN, 1 L X 1 NO. GLASS BOTTLE |
| SAMPLING PROCEDURE | IS:3025(PART I):1987 RA 2003; APHA 22ND ED.2012, 1060-B, 1-39 |

REPORT NO.- 06679

TEST REPORT

| Sr. No. | Parameter | Unit | Method Reference | Limits as per IS 10500 : 2012 | Result |
|---------|---|--------|---|-------------------------------|--------|
| 1 | Colour | Hazen | IS:3025:(Part-4) | 5 (max) | 5.0 |
| 2 | Turbidity | NTU | IS:3025:(Part-10) | 1.0 (max) | 0.89 |
| 3 | pH | - | IS:3025:(Part-11) | 6.5 To 8.5 | 7.89 |
| 4 | Residual Chlorine | mg/Lit | IS:3025:(part-26) | 0.2 (max) | N.D. |
| 5 | Total Dissolved Solids | mg/Lit | IS:3025:(Part-16) | 500 (max) | 188 |
| 6 | Alkalinity Total (as CaCO ₃) | mg/Lit | IS:3025:(Part-23) | 200 (max) | 96.0 |
| 7 | Total Hardness (as CaCO ₃) | mg/Lit | IS:3025:(Part-21) | 200 (max) | 144 |
| 8 | Calcium (as Ca) | mg/Lit | IS:3025:(Part-40) | 75 (max) | 33.67 |
| 9 | Magnesium (as Mg) | mg/Lit | APHA 23 nd Ed.2012,3500-Mg-B | 30 (max) | 14.58 |
| 10 | Chloride (as Cl) | mg/Lit | IS:3025:(Part-32) | 250 (max) | 20.9 |
| 11 | Sulphate (as SO ₄) | mg/Lit | IS:3025:(Part-24) | 200 (max) | 36.07 |
| 12 | Nitrate (NO ₃) | mg/Lit | IS:3025:(part-34) | 45 (max) | 13.12 |
| 13 | Boron (as B) | mg/Lit | IS:3025:(part-57) | 0.5 (max) | N.D. |
| 14 | Iron (as Fe) | mg/Lit | IS:3025:(part-53) | 0.3 (max) | N.D. |
| 15 | Fluoride (as F) | mg/Lit | IS:3025:(part-60) | 1.0 (max) | N.D. |
| 16 | Manganese (as Mn) | mg/Lit | IS:3025:(part-59) | 0.1 (max) | N.D. |
| 17 | Lead (as Pb) | mg/Lit | IS:3025:(part-47) | 0.01 (max) | N.D. |
| 18 | Zinc (as Zn) | mg/Lit | IS:3025:(part-49) | 5.0 (max) | N.D. |
| 19 | Copper (as Cu) | mg/Lit | IS:3025:(part-42) | 0.05 (max) | N.D. |
| 20 | Aluminium (as Al) | mg/Lit | IS:3025:(part-55) | 0.03 (max) | N.D. |
| 21 | Mercury (as Hg) | mg/Lit | IS:3025:(part-48) | 0.001(max) | N.D. |
| 22 | Arsenic (as As) | mg/Lit | IS:3025:(part-37) | 0.01 (max) | N.D. |
| 23 | Selenium (as Se) | mg/Lit | IS:3025:(part-56) | 0.1 (max) | N.D. |
| 24 | Chromium (as Cr) | mg/Lit | Annex J of IS:13428 | 0.001(max) | N.D. |
| 25 | Sulphide (as S) | mg/Lit | APHA 22 nd Ed.2012,4500 ^{-S} -C,4-175 & F 4-178 | 0.01 (max) | N.D. |
| 26 | Cyanide (as CN) | mg/Lit | IS:3025:(part-27) | 0.05 (max) | N.D. |
| 27 | Anionic Detergent (as MBAS) | mg/Lit | Annex K of IS:13428 | 0.02 (max) | N.D. |
| 28 | Phenolic Compound (as C ₆ H ₅ OH) | mg/Lit | IS:3025:(part-43) | 0.001(max) | N.D. |

REPORT NO. - 06679

TEST REPORT

| Sr. No. | Parameter | Unit | Method Reference | Limits as per IS 10500 : 2012 | Result |
|----------------------------|---|------------|--|--|--------|
| 29 | Poly-nuclear Aromatic Hydrocarbon (PAH) | µg/Lit | APHA 22 nd Ed.2012,6440-6-93 | 0.0001(max) | N.D. |
| 30 | Mineral Oil | mg/Lit | IS:3025 (part-39):1991, RA 2003, Ed. 2.1 | 0.05 (max) | N.D. |
| Microbial Parameter | | | | | |
| 1 | Total Coliform | MPN/100 ML | IS:1622:1981:RA:2019 | Shall not be detectable in any 100 ml sample | 40.0 |
| 2 | E - Coli | MPN/100 ML | IS:1622:1981:RA:2019 | Shall not be detectable in any 100 ml sample | <2.0 |

Note: mg/lit.: milligram per liter.

REMARKS: N.D.- NOT DETECTED**Terms & conditions**

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-----End of the test report.....



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|--|------------------|---------------------------|
| Name & Address Of The Customer To, Crest Steel And Power Private Limited Village: Joratarai, Post – Mangatta Rajnandgaon 491441 | REPORT NO. | UES/TR/23-24/06680 |
| | LAB REF NO. | UES/23-24/N/012707-012708 |
| | DATE OF REPORT | 25/12/2023 |
| | DATE OF SAMPLING | 20/12/2023 |

SAMPLE DETAILS

| | |
|--------------------------|--|
| Monitoring For | Noise Level Monitoring |
| Customer Ref. No. & Date | 4232200409, Dated: 25.07.2023 |
| Sampling Location | 1. Near Main Gate Area 2. Near Store Area |
| Sample Collected By | Laboratory Chemist |
| Sampling Procedure | Manufacturer's Instruction |

TEST REPORT

| LOCATION | UNIT | RESULT | | LIMIT (INDUSTRIAL ZONE) | |
|---------------------|-------|----------|------------|-------------------------|------------|
| | | DAY TIME | NIGHT TIME | DAY TIME | NIGHT TIME |
| Near Main Gate Area | dB(A) | 65.6 | 47.5 | 75 | 70 |
| Near Store Area | dB(A) | 59.3 | 44.7 | | |

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-----End of the test report-----



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|---|--|-------------------------------------|-------------------------------|-----------------|
| <i>Name & Address Of The Customer</i> | | Report No | UES/TR/23-24/06682 | |
| To, Crest Steel And Power Private Limited Village: Joratarai, Post – Mangatta Rajnandgaon 491441 | | Lab. Ref. No. | UES/23-24/W/012710 | |
| | | Date of Sampling | 20/12/2023 | |
| | | Date of Receipt | 21/12/2023 | |
| | | Date of Report | 25/12/2023 | |
| | | Date of Analysis | Start: 21/12/2023 | End: 25/12/2023 |
| SAMPLE DETAILS | | | | |
| Customer Sample ID | SID – Kiln Effluent Water | Customer Ref. No. & Date | 4232200409, Dated: 25.07.2023 | |
| Sample Type | Effluent Water | Sample Condition At Receipt | Ok | |
| Packing of Sample | Jerry Cane (3 ltr.*1) Glass bottle (1 ltr.*1) | Sample Collected By | Laboratory Chemist | |
| Other Details | Sealed | Quantity Received | Approx. 5Ltr. | |

TEST REPORT

| SR. NO. | PARAMETER | UNIT | METHOD OF TEST | LIMITS AS PER CONSENT | RESULT |
|---------|--|------|-------------------|-----------------------|--------|
| 1 | pH Value at 25.2°C | - | IS:3025:(Part-11) | 5.5 To 9.0 | 7.54 |
| 2 | Total Suspended Solid | mg/L | IS:3025:(Part-17) | 100 | 32.0 |
| 3 | Chemical Oxygen Demand | mg/L | IS:3025:(Part-58) | 250 | 84.0 |
| 4 | Bio-chemical Oxygen Demand at 27°C for three day | mg/L | IS:3025:(Part-44) | 30 | 16.4 |
| 5 | Oil & Grease | mg/L | IS:3025:(Part-39) | 10 | Absent |

Note:mg/lit.: milligram per liter. N.D.: Not Detected.

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-----End of the test report-----



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| <i>Name & Address Of The Customer</i> | | REPORT NO. | UES/TR/23-24/06681 | |
|--|--|-------------------------|--------------------------|------------------------|
| To, | | LAB REF NO. | UES/23-24/FE/012709 | |
| Crest Steel And Power Private Limited | | DATE OF SAMPLING | 20/12/2023 | |
| Village: Joratarai, | | DATE OF RECEIPT | 21/12/2023 | |
| Post - Mangatta | | DATE OF REPORT | 25/12/2023 | |
| Rajnandgaon 491441 | | DATE OF ANALYSIS | START: 21/12/2023 | END: 25/12/2023 |
| SAMPLE DETAILS | | | | |
| Monitoring For | Fugitive Emission | | | |
| Customer Ref. No. | 4232200409, Dated: 25.07.2023 | | | |
| Sampling Location | Near Boiler Area | | | |
| Duration Of Sampling | 8 Hours | | | |
| Sample Collected by | Laboratory Chemist | | | |
| Sampling Procedure | As Per Method Reference | | | |
| Sample Quantity/Packing | GMF Filter Paper (8 X 10 Inch) : 1x1 No. | | | |

TEST REPORT

| Locations | Unit | Suspended Particulate Matter (SPM) | Limit as per Moef & CC Notification | Method Reference |
|------------------|--------------------------|------------------------------------|-------------------------------------|-------------------|
| Near Boiler Area | $\mu\text{g}/\text{m}^3$ | 862 | 2000 | EPA Method IO-2.1 |

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-----End of the test report-----



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|---|---|------------------|---------------------|-----------------|
| Name & Address Of The Customer | | REPORT NO | UES/TR/23-24/06683 | |
| To, Crest Steel And Power Private Limited Village: Joratarai, Post - Mangatta Rajnandgaon 491441 | | LAB REF NO | UES/23-24/ST/012711 | |
| | | DATE OF SAMPLING | 20/12/2023 | |
| | | DATE OF RECEIPT | 21/12/2023 | |
| | | DATE OF REPORT | 25/12/2023 | |
| | | DATE OF ANALYSIS | START: 21/12/2023 | END: 25/12/2023 |
| SAMPLE DETAILS | | | | |
| MONITORING FOR | STACK EMISSION MONITORING | | | |
| SAMPLING LOCATION | STACK NO. - 1 (WHRB+AFBC) | | | |
| SAMPLE COLLECTED BY | LABORATORY CHEMIST | | | |
| SAMPLING PROCEDURE | IS 11255 PART 1,2:1985 REAFFIRMED 2009; PART 3:2008, PART 7:2005 REAFFIRMED 2012, IS 5182 (PART 10) :2003 | | | |
| SAMPLE QUANTITY/PACKING | THIMBLE: 1 X 1 NO., SO2: 30 ML X 1 NO. PVC BOTTLE, NOX: 25 ML X 1 NO. PVC BOTTLE, RUBBER BLADDER: 1 X 1 NO., HG: 500ML X 1 NO. GLASS BOTTLE & 500ML X 3 NO. PVC BOTTLE. | | | |

TEST REPORT

| Stack details | | | | |
|--|---------------------------|----------|-------|---------------------------------|
| STACK IDENTITY | STACK NO. - 1 (WHRB+AFBC) | | | |
| STACK ATTACHED TO | ESP | | | |
| MATERIAL OF CONSTRUCTION | RCC | | | |
| STACK HEIGHT ABOVE GROUND LEVEL (MTR.) | 75 | | | |
| STACK DIAMETER | 3.5 | | | |
| STACK SHAPE AT TOP | CIRCULAR | | | |
| TYPE OF FUEL | COAL | | | |
| Parameter | Unit | Result | Limit | Method Reference |
| FLUE GAS TEMPERATURE | °C | 111.5 | - | IS 11255 (Part 3):2008 |
| FLUE GAS VELOCITY | M/s | 11.21 | - | IS 11255 (Part 3):2008 |
| TOTAL GAS QUANTITY | Nm ³ /h | 300769.5 | - | IS 11255 (Part 3):2008 |
| TOTAL PARTICULATE MATTER (TPM) | mg/Nm ³ | 44.5 | 50 | IS 11255 (Part 1):1985, RA 2003 |
| SULPHUR DIOXIDE (SO ₂) | mg/Nm ³ | 194.6 | 600 | IS 11255 (Part 2):1985, RA 2003 |
| OXIDES OF NITROGEN (NO _x) | mg/Nm ³ | 116.4 | 300 | IS 11255 (Part 7):2005, RA 2012 |
| CARBON MONOXIDE (CO) | mg/Nm ³ | 0.3 | - | IS 13270 RA 2019 |

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-----End of the test report.....



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|---|--|------------------|---------------------|-----------------|
| Name & Address Of The Customer | | REPORT NO | UES/TR/23-24/06684 | |
| To, Crest Steel And Power Private Limited Village: Joratarai, Post - Mangatta Rajnandgaon 491441 | | LAB REF NO | UES/23-24/ST/012712 | |
| | | DATE OF SAMPLING | 20/12/2023 | |
| | | DATE OF RECEIPT | 21/12/2023 | |
| | | DATE OF REPORT | 25/12/2023 | |
| | | DATE OF ANALYSIS | START: 21/12/2023 | END: 25/11/2023 |
| SAMPLE DETAILS | | | | |
| MONITORING FOR | STACK EMISSION MONITORING | | | |
| SAMPLING LOCATION | STACK NO - 2 (WHRB) | | | |
| SAMPLE COLLECTED BY | LABORATORY CHEMIST | | | |
| SAMPLING PROCEDURE | IS 11255 PART 1,2:1985 REAFFIRMED 2009; PART 3:2008, PART 7:2005 REAFFIRMED 2012, IS 5182 (PART 10) :2003 | | | |
| SAMPLE QUANTITY/PACKING | THIMBLE: 1 X 1 NO., SO ₂ : 30 ML X 1 NO. PVC BOTTLE, NOX: 25 ML X 1 NO. PVC BOTTLE, RUBBER BLADDER: 1 X 1 NO., HG: 500ML X 1 NO. GLASS BOTTLE & 500ML X 3 NO. PVC BOTTLE. | | | |

TEST REPORT

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|--|---------------------|---------------|--------------|---------------------------------|
| Stack details | | | | |
| STACK IDENTITY | STACK NO - 2 (WHRB) | | | |
| STACK ATTACHED TO | ESP | | | |
| MATERIAL OF CONSTRUCTION | RCC | | | |
| STACK HEIGHT ABOVE GROUND LEVEL (MTR.) | 65 | | | |
| STACK DIAMETER | 2.13 | | | |
| STACK SHAPE AT TOP | CIRCULAR | | | |
| TYPE OF FUEL | COAL | | | |
| Parameter | Unit | Result | Limit | Method Reference |
| FLUE GAS TEMPERATURE | °C | 157.8 | - | IS 11255 (Part 3):2008 |
| FLUE GAS VELOCITY | M/s | 7.23 | - | IS 11255 (Part 3):2008 |
| TOTAL GAS QUANTITY | Nm ³ /h | 64122.5 | - | IS 11255 (Part 3):2008 |
| TOTAL PARTICULATE MATTER (TPM) | mg/Nm ³ | 42.7 | 50 | IS 11255 (Part 1):1985, RA 2003 |
| SULPHUR DIOXIDE (SO ₂) | mg/Nm ³ | 206.4 | 600 | IS 11255 (Part 2):1985, RA 2003 |
| OXIDES OF NITROGEN (NO _x) | mg/Nm ³ | 130.7 | 300 | IS 11255 (Part 7):2005, RA 2012 |
| CARBON MONOXIDE (CO) | mg/Nm ³ | 0.2 | - | IS 13270 RA 2019 |

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[Signature]
25/12/23

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For ULTIMATE ENVIROLYTICAL SOLUTIONS

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AUTHORIZED SIGNATORY

-----End of the test report-----