Ultimate
ENVIROLYTICAL SOLUTIONS

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

**Recognized by Ministry of Environment Forest and Climate Change under EP act 1996**

*Name & Address of The Customer*

**To,**
**Crest Steel And Power Private Limited**
**Village: Joratarai,**
**Post – Mangatta**
**Rajnandgaon 491441**

| | | |
|---|---|---|
| Report No. | UES/TR/23-24/03957 | |
| Lab Ref No. | UES/23-24/AAQM/07514-07516 | |
| Date of Sampling | 04/08/2023 | |
| Date of Receipt | 05/08/2023 | |
| Date of Report | 09/08/2023 | |
| Date of Analysis | Start: 05/08/2023 | End: 09/08/2023 |

**SAMPLE DETAILS**

| | |
|---|---|
| Monitoring For | Ambient Air Quality Monitoring |
| Sampling Location | 1. Near Main Gate Area<br>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.<br>$SO_2$: 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 |
| $PM_{10}$ | $\mu g/m^3$ | 100 | 73 | 78 |
| $PM_{2.5}$ | $\mu g/m^3$ | 60 | 32 | 36 |
| $SO_2$ | $\mu g/m^3$ | 80 | 18 | 21 |
| $NO_2$ | $\mu g/m^3$ | 80 | 46 | 54 |
| CO | $mg/m^3$ | 4.0 | 0.9 | 1.0 |

***REMARKS: RESULTS ARE AS ABOVE***

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09/08/23

**REVIEWED BY**

ULTIMATE ENVIROLYTICAL SOLUTIONS PHASE-3, KABIR NAGAR RING ROAD NO.2 RAIPUR (C.G.)

*For* **ULTIMATE ENVIROLYTICAL SOLUTIONS**

**AUTHORIZED SIGNATORY**

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

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| Name & Address of The Customer | | | |
|---|---|---|---|
| **To,**<br>**Crest Steel And Power Private Limited**<br>**Village: Joratarai,**<br>**Post – Mangatta**<br>**Rajnandgaon 491441** | REPORT NO. | UES/TR/23-24/03958 | |
| | LAB REF NO. | UES/23-24/W/07517 | |
| | DATE OF SAMPLING | 04/08/2023 | |
| | DATE OF RECEIPT | 05/08/2023 | |
| | DATE OF REPORT | 09/08/2023 | |
| | DATE OF ANALYSIS | START:05/08/2023 | END:09/08/2023 |

**SAMPLE DETAILS**

| | |
|---|---|
| ORDER /REFERENCE: | 4232200409, DATED: 25.07.2023 |
| CUSTMER 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. – 03958

## 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) | 3.47 |
| 3 | pH | - | IS:3025:(Part-11) | 6.5 To 8.5 | 7.94 |
| 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) | 135.53 |
| 6 | Alkalinity Total (as $CaCO_3$) | mg/Lit | IS 3025:(Part-23) | 200 (max) | 76.0 |
| 7 | Total Hardness ( as $CaCO_3$) | mg/Lit | IS 3025:(Part-21) | 200 (max) | 96.0 |
| 8 | Calcium (as Ca) | mg/Lit | IS 3025:(Part-40) | 75 (max) | 30.46 |
| 9 | Magnesium (as Mg) | mg/Lit | IS 3025:(Part-46) | 30 (max) | 4.86 |
| 10 | Chloride (as Cl) | mg/Lit | IS 3025:(Part-32) | 250 (max) | 13.99 |
| 11 | Sulphate (as $SO_4$) | mg/Lit | IS 3025:(Part-24) | 200 (max) | 18.56 |
| 12 | Nitrate ($NO_3$) | mg/Lit | IS 3025(part-34) | 45 (max) | 16.05 |
| 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 22nd 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 $C_6H_5OH$) | mg/Lit | IS 3025(part-43) | 0.001(max) | N.D. |

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*REPORT NO. – 03958*

# TEST REPORT

| Sr. No. | Parameter | Unit | Method Reference | Limits as per IS 10500 : 2012 | Result |
|---|---|---|---|---|---|
| 29 | Poly-nuclear Aromatic Hydrocarbon (PAH) | µg/Lit | APHA 22nd 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 | 33.0 |
| 2 | E – Coli | MPN/ 100 ML | IS: 1622:1981:RA:2019 | Shall not be detectable in any 100 ml sample | 4.0 |

Note: mg/lit.: milligram per liter.

*REMARKS: N.D.- NOT DETECTED*

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09/08/23

**REVIEWED BY**

ULTIMATE ENVIROLYTICAL SOLUTIONS 272-HDD PHASE-3, KABIR NAGAR RING ROAD NO.2, RAIPUR (C.G.)

*For* **ULTIMATE ENVIROLYTICAL SOLUTIONS**

Subhajeet

**AUTHORIZED SIGNATORY**

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

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| Name & Address Of The Customer | | |
|---|---|---|
| **To,**<br>**Crest Steel And Power Private Limited**<br>**Village: Joratarai,**<br>**Post – Mangatta**<br>**Rajnandgaon 491441** | **REPORT NO.** | **UES/TR/23-24/03959** |
| | **LAB REF NO.** | **UES/23-24/N/07518-7519** |
| | **DATE OF REPORT** | **08/08/2023** |
| | **DATE OF SAMPLING** | **04/08/2023** |

**SAMPLE DETAILS**

| | |
|---|---|
| *Monitoring For* | *Noise Level Monitoring* |
| *Customer Ref. No. & Date* | *4232200409, Dated: 25.07.2023* |
| *Sampling Location* | *1. Near Main Gate Area*<br>*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) | 58.1 | 43.6 | 75 | 70 |
| *Near Store Area* | dB(A) | 55.9 | 41.4 | | |

***REMARKS: RESULTS ARE AS ABOVE***

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08/08/23

**REVIEWED BY**

ULTIMATE ENVIROLYTICAL SOLUTIONS PHASE-3, KABIR NAGAR RING ROAD NO.2 RAIPUR (C.G.)

*For* ULTIMATE ENVIROLYTICAL SOLUTIONS

Subhajeet

**AUTHORIZED SIGNATORY**

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

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|---|---|---|---|
| **To,**<br>**Crest Steel And Power Private Limited**<br>**Village: Joratarai,**<br>**Post – Mangatta**<br>**Rajnandgaon 491441** | REPORT NO. | UES/TR/23-24/03960 | |
| | LAB REF NO. | UES/23-24/FE/07520 | |
| | DATE OF SAMPLING | 04/08/2023 | |
| | DATE OF RECEIPT | 05/08/2023 | |
| | DATE OF REPORT | 09/08/2023 | |
| | DATE OF ANALYSIS | START:05/08/2023 | END:09/08/2023 |

| 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 | µg/m$^3$ | 826 | 2000 | EPA Method IO-2.1 |

***REMARKS:N.D.- NOT DETECTED***

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05/08/23

**REVIEWED BY**

ULTIMATE ENVIROLYTICAL SOLUTIONS HDD-272, PHASE-3, KABIR NAGAR, RING ROAD NO.2, RAIPUR (C.G.)

*For* **ULTIMATE ENVIROLYTICAL SOLUTIONS**

Subhajeet

**AUTHORIZED SIGNATORY**

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

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|---|---|---|---|
| **To,**<br>**Crest Steel And Power Private Limited**<br>**Village: Joratarai,**<br>**Post – Mangatta**<br>**Rajnandgaon 491441** | Report No | UES/TR/23-24/03967 | |
| | Lab. Ref. No. | UES/23-24/W/07527 | |
| | Date of Sampling | 04/08/2023 | |
| | Date of Receipt | 05/08/2023 | |
| | Date of Report | 09/08/2023 | |
| | Date of Analysis | Start: 05/08/2023 | End: 09/08/2023 |

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)<br>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):1983, RA 2012 | 5.5 To 9.0 | 7.18 |
| 2 | Total Suspended Solid | mg/L | IS:3025:(Part-17):1984, RA 2012 | 100 | 56.0 |
| 3 | Chemical Oxygen Demand | mg/L | IS:3025:(Part-58):2006, RA 2012 | 250 | 104.0 |
| 4 | Bio-chemical Oxygen Demand at 27°C for three day | mg/L | IS:3025:(Part-44):1993 RA 2014 | 30 | 18.4 |
| 5 | Oil & Grease | mg/L | IS:3025:(Part-39):1986 | 10 | Absent |

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

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ULTIMATE ENVIROLYTICAL SOLUTIONS * HDD-272, PHASE-3, KABIR NAGAR RING ROAD NO.2, RAIPUR (C.G.) *

*For* ULTIMATE ENVIROLYTICAL SOLUTIONS

Subhajeet

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*End of the test report*

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| **To,**<br>**Crest Steel And Power Private Limited**<br>**Village: Joratarai,**<br>**Post – Mangatta**<br>**Rajnandgaon 491441** | REPORT NO | UES/TR/23-24/03968 | |
| | LAB REF NO | UES/23-24/ST/07528 | |
| | DATE OF SAMPLING | 04/08/2023 | |
| | DATE OF RECEIPT | 05/08/2023 | |
| | DATE OF REPORT | 09/08/2023 | |
| | DATE OF ANALYSIS | START:05/08/2023 | END:09/08/2023 |

| 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 | 94.6 | - | IS 11255 (Part 3):2008 |
| FLUE GAS VELOCITY | M/s | 7.15 | - | IS 11255 (Part 3):2008 |
| TOTAL GAS QUANTITY | $Nm^3/h$ | 200657.3 | - | IS 11255 (Part 3):2008 |
| TOTAL PARTICULATE MATTER (TPM) | $mg/Nm^3$ | 40.1 | 50 | IS 11255 (Part 1):1985, RA 2003 |
| SULPHUR DIOXIDE ($SO_2$) | $mg/Nm^3$ | 210.8 | 600 | IS 11255 (Part 2):1985, RA 2003 |
| OXIDES OF NITROGEN ($NO_x$) | $mg/Nm^3$ | 118.6 | 300 | IS 11255 (Part 7):2005, RA 2012 |
| CARBON MONOXIDE (CO) | $mg/Nm^3$ | 0.2 | - | IS 13270 RA 2019 |

REMARKS: :N.D.: NOT DETECTED

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09/08/23
**REVIEWED BY**

ULTIMATE ENVIROLYTICAL SOLUTIONS PHASE-3, KABIR NAGAR RING ROAD NO.2, RAIPUR (C.G.)

For ULTIMATE ENVIROLYTICAL SOLUTIONS
Subhajeet
**AUTHORIZED SIGNATORY**

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

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|---|---|---|---|
| **To,**<br>**Crest Steel And Power Private Limited**<br>**Village: Joratarai,**<br>**Post – Mangatta**<br>**Rajnandgaon 491441** | REPORT NO | UES/TR/23-24/03969 | |
| | LAB REF NO | UES/23-24/ST/07529 | |
| | DATE OF SAMPLING | 04/08/2023 | |
| | DATE OF RECEIPT | 05/08/2023 | |
| | DATE OF REPORT | 09/08/2023 | |
| | DATE OF ANALYSIS | START:05/08/2023 | END:09/08/2023 |

**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., 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 – 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 | 96.2 | - | IS 11255 (Part 3):2008 |
| FLUE GAS VELOCITY | M/s | 7.68 | - | IS 11255 (Part 3):2008 |
| TOTAL GAS QUANTITY | $Nm^3/h$ | 79478.0 | - | IS 11255 (Part 3):2008 |
| TOTAL PARTICULATE MATTER (TPM) | $mg/Nm^3$ | 39.4 | 50 | IS 11255 (Part 1):1985, RA 2003 |
| SULPHUR DIOXIDE ($SO_2$) | $mg/Nm^3$ | 186.8 | 600 | IS 11255 (Part 2):1985, RA 2003 |
| OXIDES OF NITROGEN ($NO_x$) | $mg/Nm^3$ | 121.6 | 300 | IS 11255 (Part 7):2005, RA 2012 |
| CARBON MONOXIDE (CO) | $mg/Nm^3$ | 0.2 | - | IS 13270 RA 2019 |

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09/08/23
**REVIEWED BY**

ULTIMATE ENVIROLYTICAL SOLUTIONS HDD-272, PHASE-3, KABIR NAGAR RING ROAD NO.2, RAIPUR (C.G.)

For **ULTIMATE ENVIROLYTICAL SOLUTIONS**

**AUTHORIZED SIGNATORY**

*End of the test report*