



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

Name & Address of The Customer		Report No.	UESPL/TR/24-25/04482	
<b>To,</b> <b>Crest Steel And Power Private Limited</b> <b>Village: Joratarai,</b> <b>Post – Mangatta</b> <b>Rajnandgaon 491441</b>		Lab Ref No.	UESPL/24-25/AAQM/08210-08211	
		Date of Sampling	19/12/2024	
		Date of Receipt	20/12/2024	
		Date of Report	24/12/2024	
		Date of Analysis	Start: 20/12/2024	End: 24/12/2024
<b>SAMPLE DETAILS</b>				
Monitoring For	Ambient Air Quality Monitoring			
Sampling Location	1. Near Canteen Area 2. Near Store Area			
Customer Ref. No. & Date	4232200698, Dated: 29.03.2024			
Duration Of Sampling	As per CPCB norms			
Sample Collected By	Laboratory Chemist			
Sampling Procedure	As Per Method Reference			
Sample Quantity/Packing	Filter Paper (PM <sub>10</sub> ): 1X1 No., Filter Paper (PM <sub>2.5</sub> ): 1X1 No. SO <sub>2</sub> : 30mlX1 No. PVC Bottle, NO <sub>2</sub> : 30mlX1 NO. PVC Bottle.			

### Test Method for Ambient Air Quality Monitoring

Parameter	Method Reference
Particulate Matter size less than 10 microns (PM <sub>10</sub> )	IS:5182 (Part-23) :2006 RA 2022
Particulate Matter size less than 2.5 microns (PM <sub>2.5</sub> )	IS:5182 (Part-24) :2019
Sulphur Dioxide (SO <sub>2</sub> )	IS:5182 (Part-2/Sec.1) :2001 RA 2023
Nitrogen Dioxide (NO <sub>2</sub> )	IS:5182 (Part-6) :2006 RA 2022
Carbon Monoxide (CO) *	IS:5182 (Part-10)

### TEST REPORT

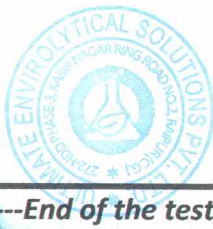
Parameter	Unit	NAAQM Standard	Results	
			Near Canteen Area	Near Store Area
PM <sub>10</sub>	µg/m <sup>3</sup>	100	66.44	69.54
PM <sub>2.5</sub>	µg/m <sup>3</sup>	60	27.86	29.08
SO <sub>2</sub>	µg/m <sup>3</sup>	80	12.82	16.73
NO <sub>2</sub>	µg/m <sup>3</sup>	80	17.34	20.58
CO	mg/m <sup>3</sup>	4.0	0.32	0.56

#### REMARKS: RESULTS ARE AS ABOVE

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For ULTIMATE ENVIROLYTICAL SOLUTIONS PVT LTD

AUTHORIZED SIGNATORY

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





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<b>Name &amp; Address of The Customer</b> <b>To,</b> <b>Crest Steel And Power Private Limited</b> <b>Village: Joratarai,</b> <b>Post – Mangatta</b> <b>Rajnandgaon 491441</b>		Report No.	UESPL/TR/24-25/04483	
		Lab Ref No.	UESPL/24-25/W/08212	
		Date of Sampling	19/12/2024	
		Date of Receipt	20/12/2024	
		Date of Report	24/12/2024	
		Date of Analysis	Start: 20/12/2024	End: 24/12/2024
<b>SAMPLE DETAILS</b>				
Order /Reference:	4232200698, Dated: 29.03.2024			
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	As Per Standard Method - UESPL/File/SW/01			

REPORT NO.- 04483

**TEST REPORT**

Sr. No.	Parameter	Unit	Method Reference	Limits as per IS 10500 : 2012	Result
1	Colour	Hazen	IS:3025(Part-4):2021	5 (max)	10
2	Turbidity	NTU	IS:3025(Part-10):2023	1.0 (max)	0.44
3	pH	-	IS:3025(Part-11):2022	6.5 To 8.5	7.39
4	Residual Chlorine	mg/L	IS 3025(Part-26):2021	0.2 (max)	N.D.
5	Total Dissolved Solids	mg/L	IS:3025(Part-16):2023	500 (max)	330
6	Alkalinity Total (as CaCO <sub>3</sub> )	mg/L	IS:3025(Part-23):2023	200 (max)	108
7	Total Hardness ( as CaCO <sub>3</sub> )	mg/L	IS:3025(Part-21):2009 RA 2019	200 (max)	180
8	Calcium (as Ca)	mg/L	IS:3025(Part-40):1991 RA 2019	75 (max)	50.50
9	Magnesium (as Mg)	mg/L	APHA 24 <sup>th</sup> Ed.2023,3500-Mg-B, 274	30 (max)	13.12
10	Chloride (as Cl)	mg/L	IS:3025(Part-32):1988 RA 2019	250 (max)	40.9
11	Sulphate (as SO <sub>4</sub> )	mg/L	IS:3025(Part-24/Sec.1): 2022	200 (max)	27.88
12	Nitrate (NO <sub>3</sub> )	mg/L	APHA 24th Ed.2023,4500-NO3-B, 434-435	45 (max)	13.89
13	Boron (as B)	mg/L	IS:3025(Part-57)	0.5 (max)	N.D.
14	Iron (as Fe)	mg/L	IS:3025(Part-53):2003 RA 2019	0.3 (max)	N.D.
15	Fluoride (as F)	mg/L	IS:3025(Part-60):2008 RA 2019	1.0 (max)	N.D.
16	Manganese (as Mn)	mg/L	USEPA - SW - 846 : Method -7000B	0.1 (max)	N.D.
17	Lead (as Pb)	mg/L	IS:3025(Part-47):1994 RA 2019	0.01 (max)	N.D.
18	Zinc (as Zn)	mg/L	IS:3025(Part-49):1994 RA 2019	5.0 (max)	N.D.
19	Copper (as Cu)	mg/L	IS:3025(Part-42):1992 RA 2019	0.05 (max)	N.D.
20	Aluminium (as Al)	mg/L	IS:3025(Part-55):2003, RA 2019	0.03 (max)	N.D.
21	Mercury (as Hg)	mg/L	IS:3025(Part-48):1994 RA 2019	0.001(max)	N.D.
22	Arsenic (as As)	mg/L	IS:3025(Part-37):2022	0.01 (max)	N.D.



REPORT NO.- 04483

**TEST REPORT**

Sr. No.	Parameter	Unit	Method Reference	Limits as per IS 10500 : 2012	Result
23	Selenium (as Se)	mg/L	IS:3025(Part-56)	0.1 (max)	N.D.
24	Chromium (as Cr)	mg/L	IS:3025(Part-52):2003 RA 2019	0.001(max)	N.D.
25	Sulphide (as S)	mg/L	IS:3025(Part-29)	0.01 (max)	N.D.
26	Cyanide (as CN)	mg/L	IS:3025(Part-27)	0.05 (max)	N.D.
27	Anionic Detergent (as MBAS)	mg/L	APHA 24 <sup>th</sup> Ed.2023, 5540-MBAS-C, 585	0.02 (max)	N.D.
28	Phenolic Compound (as C <sub>6</sub> H <sub>5</sub> OH)	mg/L	IS:3025(Part-43)	0.001(max)	N.D.
29	Poly-nuclear Aromatic Hydrocarbon (PAH)	µg/L	APHA 24 <sup>th</sup> Ed. 6440-PAH-B, 703	0.0001(max)	N.D.
30	Mineral Oil	mg/L	IS:3025(Part-39):1991, RA 2003, Ed. 2.1	0.05 (max)	N.D.



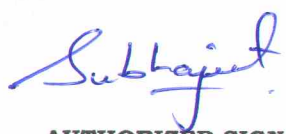
**Microbial Parameter**

1	Total Coliform	MPN/100 ML	IS:1622:1981:RA: 2019	Shall not be detectable in any 100 ml sample	50
2	E - Coli	MPN/100 ML	IS:1622:1981:RA: 2019	Shall not be detectable in any 100 ml sample	20

Note: mg/lit.: milligram per liter.

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

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 <b>REVIEWED BY</b>		<b>For ULTIMATE ENVIROLYTICAL SOLUTIONS PVT LTD</b>  <b>AUTHORIZED SIGNATORY</b>
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-----End of the test report.....





**Ultimate**  
ENVIROLYTICAL SOLUTIONS PVT. LTD.

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Name &amp; Address Of The Customer

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

Report No	UESPL/TR/24-25/04484	
Lab. Ref. No.	UESPL/24-25/W/08213	
Date of Sampling	19/12/2024	
Date of Receipt	20/12/2024	
Date of Report	24/12/2024	
Date of Analysis	Start: 20/12/2024	End: 24/12/2024

## SAMPLE DETAILS

Customer Sample ID	Cooling Tower No.3	Customer Ref. No. & Date	4232200698, Dated: 29.03.2024
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) - 2022	5.5 To 9.0	7.27
2	Total Suspended Solid	mg/L	IS:3025 (Part-17) - 2022	100	12.8
3	Chemical Oxygen Demand	mg/L	IS:3025 (Part-58) - 2023	250	50
4	Bio-chemical Oxygen Demand at 27°C for three day	mg/L	IS:3025 (Part-44) - 2023	30	12.6
5	Oil & Grease	mg/L	IS:3025 (Part-39) - 2021	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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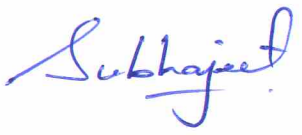
<b>Name &amp; Address Of The Customer</b> <b>To,</b> <b>Crest Steel And Power Private Limited</b> <b>Village: Joratarai,</b> <b>Post – Mangatta</b> <b>Rajnandgaon 491441</b>		<b>REPORT NO.</b>	UESPL/TR/24-25/04485
		<b>LAB REF NO.</b>	UESPL/24-25/N/08214-08215
		<b>DATE OF REPORT</b>	24/12/2024
		<b>DATE OF SAMPLING</b>	19/12/2024
<b>SAMPLE DETAILS</b>			
<b>Monitoring For</b>	Noise Level Monitoring		
<b>Customer Ref. No. &amp; Date</b>	4232200698, Dated: 29.03.2024		
<b>Sampling Location</b>	1. Near Canteen Area 2. Near Store Area		
<b>Sample Collected By</b>	Laboratory Chemist		
<b>Sampling Procedure</b>	Manufacturer's Instruction		

TEST REPORT					
LOCATION	UNIT	RESULT		LIMIT (INDUSTRIAL ZONE)	
		DAY TIME	NIGHT TIME	DAY TIME	NIGHT TIME
Near Canteen Area	dB(A)	69.6	61.2	75	70
Near Store Area	dB(A)	71.9	62.4		

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Name & Address Of The Customer		Report No	UESPL/TR/24-25/04487	
<b>To,</b> <b>Crest Steel And Power Private Limited</b> <b>Village: Joratarai,</b> <b>Post – Mangatta</b> <b>Rajnandgaon 491441</b>		Lab Ref No	UESPL/24-25/ST/08217	
		Date of Sampling	19/12/2024	
		Date of Receipt	20/12/2024	
		Date of Report	24/12/2024	
		Date of Analysis	Start: 20/12/2024	End: 24/12/2024
<b>SAMPLE DETAILS</b>				
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., SO <sub>2</sub> : 30 ml X 1 No. PVC Bottle, NO <sub>x</sub> : 25 ml X 1 No. PVC Bottle, Rubber Bladder: 1 X 1 No., Hg: 500 ml X 1 No. Glass Bottle & 500 ml X 3 No. PVC Bottle.			

## TEST REPORT

<b>Stack details</b>				
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	70.0	-	IS:11255:(Part-3):2008
Flue Gas Velocity	M/s	9.48	-	IS:11255:(Part-3):2008
Total Gas Quantity	Nm <sup>3</sup> /h	285127.3	-	IS:11255:(Part-3):2008
Total Particulate Matter (TPM)	mg/Nm <sup>3</sup>	39.0	50	IS:11255:(Part-1):1985 RA 2019
Sulphur Dioxide (SO <sub>2</sub> )	mg/Nm <sup>3</sup>	194.2	600	IS:11255:(Part-2):1985 RA 2019
Oxides of Nitrogen (NO <sub>x</sub> )	mg/Nm <sup>3</sup>	128.0	300	IS:11255:(Part-7):2005 RA 2022
Carbon Monoxide (CO)	mg/Nm <sup>3</sup>	0.1	-	IS 13270 RA 2019

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





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<b>To,</b> <b>Crest Steel And Power Private Limited</b> <b>Village: Joratarai,</b> <b>Post – Mangatta</b> <b>Rajnandgaon 491441</b>		Report No	UESPL/TR/24-25/04488	
		Lab Ref No	UESPL/24-25/ST/08218	
		Date of Sampling	19/12/2024	
		Date of Receipt	20/12/2024	
		Date of Report	24/12/2024	
		Date of Analysis	Start: 20/12/2024	End: 24/12/2024
<b>SAMPLE DETAILS</b>				
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., SO <sub>2</sub> : 30 ml X 1 No. PVC Bottle, NO <sub>x</sub> : 25 ml X 1 No. PVC Bottle, Rubber Bladder: 1 X 1 No., Hg: 500 ml X 1 No. Glass Bottle & 500 ml X 3 No. PVC Bottle.			

## TEST REPORT

<b>Stack details</b>				
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	138.0	-	IS:11255:(Part-3):2008
Flue Gas Velocity	M/s	11.26	-	IS:11255:(Part-3):2008
Total Gas Quantity	Nm <sup>3</sup> /h	104675.3	-	IS:11255:(Part-3):2008
Total Particulate Matter (TPM)	mg/Nm <sup>3</sup>	37.1	50	IS:11255:(Part-1):1985 RA 2019
Sulphur Dioxide (SO <sub>2</sub> )	mg/Nm <sup>3</sup>	196.2	600	IS:11255:(Part-2):1985 RA 2019
Oxides of Nitrogen (NO <sub>x</sub> )	mg/Nm <sup>3</sup>	124.6	300	IS:11255:(Part-7):2005 RA 2022
Carbon Monoxide (CO)	mg/Nm <sup>3</sup>	0.1	-	IS 13270 RA 2019

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