



Ultimate
ENVIROLYTICAL SOLUTIONS PVT. LTD.

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

Name & Address of The Customer		Report No.	UESPL/TR/24-25/04654	
To, Crest Steel And Power Private Limited Village: Joratarai, Post - Mangatta Rajnandgaon 491441		Lab Ref No.	UESPL/24-25/AAQM/08588-08589	
		Date of Sampling	14/01/2025	
		Date of Receipt	15/01/2025	
		Date of Report	20/01/2025	
		Date of Analysis	Start: 15/01/2025	End: 20/01/2025
SAMPLE DETAILS				
Monitoring For	Ambient Air Quality Monitoring			
Sampling Location	1. Near Canteen Area 2. Near Kiln No. 03			
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 ₁₀): 1X1 No., Filter Paper (PM _{2.5}): 1X1 No. SO ₂ : 30mlX1 No. PVC Bottle, NO ₂ : 30mlX1 NO. PVC Bottle.			


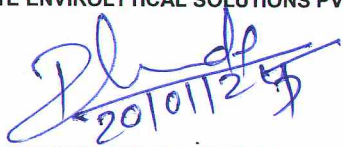
Test Method for Ambient Air Quality Monitoring	
Parameter	Method Reference
Particulate Matter size less than 10 microns (PM ₁₀)	IS:5182 (Part-23) :2006 RA 2022
Particulate Matter size less than 2.5 microns (PM _{2.5})	IS:5182 (Part-24) :2019
Sulphur Dioxide (SO ₂)	IS:5182 (Part-2/Sec.1) :2001 RA 2023
Nitrogen Dioxide (NO ₂)	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 Kiln No. 03
PM ₁₀	µg/m ³	100	84.07	68.08
PM _{2.5}	µg/m ³	60	31.76	28.11
SO ₂	µg/m ³	80	36.69	30.87
NO ₂	µg/m ³	80	39.38	36.21
CO	mg/m ³	4.0	0.53	0.49

REMARKS: RESULTS ARE AS ABOVE

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



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<i>Name & Address of The Customer</i>		Report No.	UESPL/TR/24-25/04655	
To, Crest Steel And Power Private Limited Village: Joratarai, Post – Mangatta Rajnandgaon 491441		Lab Ref No.	UESPL/24-25/W/08590	
		Date of Sampling	14/01/2025	
		Date of Receipt	15/01/2025	
		Date of Report	20/01/2025	
		Date of Analysis	Start: 15/01/2025	End: 20/01/2025
SAMPLE DETAILS				
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.- 04655

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)	0.61
3	pH	-	IS:3025(Part-11):2022	6.5 To 8.5	7.46
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)	292
6	Alkalinity Total (as CaCO ₃)	mg/L	IS:3025(Part-23):2023	200 (max)	110
7	Total Hardness (as CaCO ₃)	mg/L	IS:3025(Part-21):2009 RA 2019	200 (max)	172
8	Calcium (as Ca)	mg/L	IS:3025(Part-40):1991 RA 2019	75 (max)	40.88
9	Magnesium (as Mg)	mg/L	APHA 24 th Ed.2023,3500-Mg-B, 274	30 (max)	17.01
10	Chloride (as Cl)	mg/L	IS:3025(Part-32):1988 RA 2019	250 (max)	35.9
11	Sulphate (as SO ₄)	mg/L	IS:3025(Part-24/Sec.1): 2022	200 (max)	24.88
12	Nitrate (NO ₃)	mg/L	APHA 24th Ed.2023,4500-NO3-B, 434-435	45 (max)	12.52
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.- 04655

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 th Ed.2023, 5540-MBAS-C, 585	0.02 (max)	N.D.
28	Phenolic Compound (as C ₆ H ₅ OH)	mg/L	IS:3025(Part-43)	0.001(max)	N.D.
29	Poly-nuclear Aromatic Hydrocarbon (PAH)	µg/L	APHA 24 th 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.



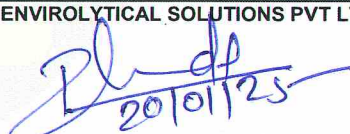
Microbial Parameter

1	Total Coliform	MPN/100 ML	IS:1622:1981:RA: 2019	Shall not be detectable in any 100 ml sample	40
2	E - Coli	MPN/100 ML	IS:1622:1981:RA: 2019	Shall not be detectable in any 100 ml sample	17

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	UESPL/TR/24-25/04656
		Lab. Ref. No.	UESPL/24-25/W/08591
		Date of Sampling	14/01/2025
		Date of Receipt	15/01/2025
		Date of Report	20/01/2025
		Date of Analysis	Start: 15/01/2025 End: 20/01/2025
SAMPLE DETAILS			
Customer Sample ID	Cooling Tower No.3 (Process Water)	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	7.36
2	Total Suspended Solid	mg/L	IS:3025 (Part-17) - 2022	100	8.4
3	Chemical Oxygen Demand	mg/L	IS:3025 (Part-58) - 2023	250	30
4	Bio-chemical Oxygen Demand at 27°C for three day	mg/L	IS:3025 (Part-44) - 2023	30	10.2
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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Name & Address Of The Customer To, Crest Steel And Power Private Limited Village: Joratarai, Post – Mangatta Rajnandgaon 491441		REPORT NO.	UESPL/TR/24-25/04657
		LAB REF NO.	UESPL/24-25/N/08592-08593
		DATE OF REPORT	20/01/2025
		DATE OF SAMPLING	14/01/2025
SAMPLE DETAILS			
Monitoring For	Noise Level Monitoring		
Customer Ref. No. & Date	4232200698, Dated: 29.03.2024		
Sampling Location	1. Near Canteen Area 2. Near Kiln No. 03		
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 Canteen Area	dB(A)	68.8	60.5	75	70
Near Kiln No. 03	dB(A)	70.1	61.6		

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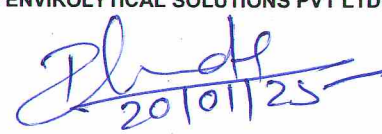
Name & Address Of The Customer To, Crest Steel And Power Private Limited Village: Joratarai, Post – Mangatta Rajnandgaon 491441		Report No.		UESPL/TR/24-25/04658	
		Lab Ref No.		UESPL/24-25/FE/08594	
		Date of Sampling		14/01/2025	
		Date of Receipt		15/01/2025	
		Date of Report		20/01/2025	
		Date of Analysis		Start: 15/01/2025	End: 20/01/2025
SAMPLE DETAILS					
Monitoring For		Fugitive Emission			
Customer Ref. No.		4232200698, Dated: 29.03.2024			
Sampling Location		SMS Mechanical (HVS)			
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
SMS Mechanical (HVS)	$\mu\text{g}/\text{m}^3$	1238	2000	EPA Method IO-2.1

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Name & Address Of The Customer To, Crest Steel And Power Private Limited Village: Joratarai, Post – Mangatta Rajnandgaon 491441		Report No		UESPL/TR/24-25/04659	
		Lab Ref No		UESPL/24-25/ST/08595	
		Date of Sampling		14/01/2025	
		Date of Receipt		15/01/2025	
		Date of Report		20/01/2025	
		Date of Analysis		Start: 15/01/2025	End: 20/01/2025
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., SO ₂ : 30 ml X 1 No. PVC Bottle, NO _x : 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

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	74.5	-	IS:11255:(Part-3):2008
Flue Gas Velocity	M/s	9.67	-	IS:11255:(Part-3):2008
Total Gas Quantity	Nm ³ /h	287075.5	-	IS:11255:(Part-3):2008
Total Particulate Matter (TPM)	mg/Nm ³	31.20	50	IS:11255:(Part-1):1985 RA 2019
Sulphur Dioxide (SO ₂)	mg/Nm ³	216.07	600	IS:11255:(Part-2):1985 RA 2019
Oxides of Nitrogen (NO _x)	mg/Nm ³	175.70	300	IS:11255:(Part-7):2005 RA 2022
Carbon Monoxide (CO)	mg/Nm ³	0.36	-	IS 13270 RA 2019

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Name & Address Of The Customer		Report No	UESPL/TR/24-25/04660	
To, Crest Steel And Power Private Limited Village: Joratarai, Post – Mangatta Rajnandgaon 491441		Lab Ref No	UESPL/24-25/ST/08596	
		Date of Sampling	14/01/2025	
		Date of Receipt	15/01/2025	
		Date of Report	20/01/2025	
		Date of Analysis	Start: 15/01/2025	End: 20/01/2025
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, NO _x : 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

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	141.0	-	IS:11255:(Part-3):2008
Flue Gas Velocity	M/s	11.39	-	IS:11255:(Part-3):2008
Total Gas Quantity	Nm ³ /h	105116.5	-	IS:11255:(Part-3):2008
Total Particulate Matter (TPM)	mg/Nm ³	42.51	50	IS:11255:(Part-1):1985 RA 2019
Sulphur Dioxide (SO ₂)	mg/Nm ³	320.25	600	IS:11255:(Part-2):1985 RA 2019
Oxides of Nitrogen (NO _x)	mg/Nm ³	202.82	300	IS:11255:(Part-7):2005 RA 2022
Carbon Monoxide (CO)	mg/Nm ³	0.41	-	IS 13270 RA 2019

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