



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/24-25/04105	
To, Crest Steel And Power Private Limited Village: Joratarai, Post – Mangatta Rajnandgaon 491441		Lab Ref No.	UESPL/24-25/AAQM/07330-07331	
		Date of Sampling	28/10/2024	
		Date of Receipt	29/10/2024	
		Date of Report	06/11/2024	
		Date of Analysis	Start: 29/10/2024	End: 06/11/2024
SAMPLE DETAILS				
Monitoring For	Ambient Air Quality Monitoring			
Sampling Location	1. Near Canteen Area 2. Near DM Plant 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 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 DM Plant Area
PM ₁₀	µg/m ³	100	68.46	63.97
PM _{2.5}	µg/m ³	60	28.92	25.42
SO ₂	µg/m ³	80	15.86	13.75
NO ₂	µg/m ³	80	19.42	16.44
CO	mg/m ³	4.0	0.51	0.32

REMARKS: RESULTS ARE AS ABOVE

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 6/11/24 REVIEWED BY		 06/11/24 AUTHORIZED SIGNATORY
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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/24-25/04106	
		LAB REF NO.	UESPL/24-25/W/07332	
		DATE OF SAMPLING	28/10/2024	
		DATE OF RECEIPT	29/10/2024	
		DATE OF REPORT	06/11/2024	
		DATE OF ANALYSIS	START: 29/10/2024	END: 06/11/2024
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	IS:3025(PART I):1987 RA 2003; APHA 22ND ED.2012, 1060-B, 1-39			

REPORT NO.- 04106

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)	0.68
3	pH	-	IS:3025 (Part-11)- 2022	6.5 To 8.5	7.42
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)	324
6	Alkalinity Total (as CaCO ₃)	mg/L	IS:3025 (Part-23)- 2023	200 (max)	98
7	Total Hardness (as CaCO ₃)	mg/L	IS:3025 (Part-21)- 2009 RA 2019	200 (max)	184
8	Calcium (as Ca)	mg/L	IS:3025 (Part-40)- 1991 RA 2019	75 (max)	48.90
9	Magnesium (as Mg)	mg/L	APHA 24 th Ed.2023,3500-Mg-B, 274	30 (max)	15.07
10	Chloride (as Cl)	mg/L	IS:3025 (Part-32)- 1988 RA 2019	250 (max)	38.9
11	Sulphate (as SO ₄)	mg/L	IS:3025 (Part-24/Sec. 1)- 2022	200 (max)	29.14
12	Nitrate (NO ₃)	mg/L	APHA 24 th Ed.2023,4500-NO3-B, 434-435	45 (max)	15.24
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)-	0.05 (max)	N.D.

REPORT NO.- 04106

Sr. No.	Parameter	Unit	Method Reference	Limits as per IS 10500 : 2012	Result
20	Aluminium (as Al)	mg/L	1992 RA 2019 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.
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.

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	13

REMARKS: N.D.- NOT DETECTED

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AUTHORIZED SIGNATORY

-End of the test report.....



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<i>Name & Address Of The Customer</i>		REPORT NO.	UESPL/TR/24-25/04107
To, Crest Steel And Power Private Limited Village: Joratarai, Post – Mangatta Rajnandgaon 491441		LAB REF NO.	UESPL/24-25/N/07333-07334
		DATE OF REPORT	06/11/2024
		DATE OF SAMPLING	28/10/2024
SAMPLE DETAILS			
Monitoring For	Noise Level Monitoring		
Customer Ref. No. & Date	4232200698, DATED: 29.03.2024		
Sampling Location	1. Near Canteen Area 2. Near DM Plant 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 Canteen Area	dB(A)	70.4	62.4	75	70
Near DM Plant Area	dB(A)	67.3	58.2		

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 6/11/24 REVIEWED BY		For ULTIMATE ENVIROLYTICAL SOLUTIONS PVT LTD  06/11/24 AUTHORIZED SIGNATORY
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-----End of the test report-----



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<i>Name & Address Of The Customer</i>		REPORT NO.	UESPL/TR/24-25/04108
To,		LAB REF NO.	UESPL/24-25/FE/07335
Crest Steel And Power Private Limited		DATE OF SAMPLING	28/10/2024
Village: Joratarai,		DATE OF RECEIPT	29/10/2024
Post - Mangatta		DATE OF REPORT	06/11/2024
Rajnandgaon 491441		DATE OF ANALYSIS	START:29/10/2024 END:06/11/2024
SAMPLE DETAILS			
Monitoring For	Fugitive Emission		
Customer Ref. No.	4232200698, Dated: 29.03.2024		
Sampling Location	Near Store 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 Store Area	µg/m ³	860	2000	EPA Method IO-2.1

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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/24-25/04109
		Lab. Ref. No.	UESPL/24-25/W/07336
		Date of Sampling	28/10/2024
		Date of Receipt	29/10/2024
		Date of Report	06/11/2024
		Date of Analysis	Start: 29/10/2024 End: 06/11/2024
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	7.24
2	Total Suspended Solid	mg/L	IS:3025 (Part-17) - 2022	100	18.6
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	13.2
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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Ultimate
ENVIROLYTICAL SOLUTIONS PVT. LTD.

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Name & Address Of The Customer		REPORT NO	UESPL/TR/24-25/04110	
To, Crest Steel And Power Private Limited Village: Joratarai, Post – Mangatta Rajnandgaon 491441		LAB REF NO	UESPL/24-25/ST/07337	
		DATE OF SAMPLING	28/10/2024	
		DATE OF RECEIPT	29/10/2024	
		DATE OF REPORT	06/11/2024	
		DATE OF ANALYSIS	START:29/10/2024	END:06/11/2024
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, 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	62.0	-	IS:11255:(Part-3):2008
FLUE GAS VELOCITY	M/s	8.79	-	IS:11255:(Part-3):2008
TOTAL GAS QUANTITY	Nm ³ /h	270687.7	-	IS:11255:(Part-3):2008
TOTAL PARTICULATE MATTER (TPM)	mg/Nm ³	39.2	50	IS:11255:(Part-1):1985 RA 2019
SULPHUR DIOXIDE (SO ₂)	mg/Nm ³	188.4	600	IS:11255:(Part-2):1985 RA 2019
OXIDES OF NITROGEN (NO _x)	mg/Nm ³	124.0	300	IS:11255:(Part-7):2005 RA 2022
CARBON MONOXIDE (CO)	mg/Nm ³	0.1	-	IS 13270 RA 2019

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

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Name & Address Of The Customer		REPORT NO	UESPL/TR/24-25/04111	
To, Crest Steel And Power Private Limited Village: Joratarai, Post – Mangatta Rajnandgaon 491441		LAB REF NO	UESPL/24-25/ST/07338	
		DATE OF SAMPLING	28/10/2024	
		DATE OF RECEIPT	29/10/2024	
		DATE OF REPORT	06/11/2024	
		DATE OF ANALYSIS	START:29/10/2024	END:06/11/2024
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

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	137.0	-	IS:11255:(Part-3):2008
FLUE GAS VELOCITY	M/s	11.64	-	IS:11255:(Part-3):2008
TOTAL GAS QUANTITY	Nm ³ /h	108471.8	-	IS:11255:(Part-3):2008
TOTAL PARTICULATE MATTER (TPM)	mg/Nm ³	37.0	50	IS:11255:(Part-1):1985 RA 2019
SULPHUR DIOXIDE (SO ₂)	mg/Nm ³	194.4	600	IS:11255:(Part-2):1985 RA 2019
OXIDES OF NITROGEN (NO _x)	mg/Nm ³	120.2	300	IS:11255:(Part-7):2005 RA 2022
CARBON MONOXIDE (CO)	mg/Nm ³	0.1	-	IS 13270 RA 2019

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