



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/23-24/08660	
Lab Ref No.	UES/23-24/AAQM/016808-016809	
Date of Sampling	02/02/2024	
Date of Receipt	03/02/2024	
Date of Report	07/02/2024	
Date of Analysis	Start: 03/02/2024	End: 07/02/2024

SAMPLE DETAILS

Monitoring For	Ambient Air Quality Monitoring
Sampling Location	1. Near Main Gate Area 2. Near New Project 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 & CPCB Guidelines Vol.-I
Nitrogen Dioxide (NO ₂)	IS:5182: (Part-6):2006 & CPCB Guidelines Vol.-I
Carbon Monoxide (CO)*	IS:5182: (Part-10)

TEST REPORT

Parameter	Unit	NAAQM Standard	Results	
			Near Main Gate Area	Near New Project Area
PM ₁₀	µg/m ³	100	78.93	72.73
PM _{2.5}	µg/m ³	60	35.76	33.41
SO ₂	µg/m ³	80	17.47	14.58
NO ₂	µg/m ³	80	23.38	21.44
CO	mg/m ³	4.0	0.92	0.35

REMARKS: RESULTS ARE AS ABOVE

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For ULTIMATE ENVIROLYTICAL SOLUTIONS

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/23-24/08661	
		LAB REF NO.		UES/23-24/W/016810	
		DATE OF SAMPLING		02/02/2024	
		DATE OF RECEIPT		03/02/2024	
		DATE OF REPORT		07/02/2024	
		DATE OF ANALYSIS		START: 03/02/2024 END: 07/02/2024	
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. – 08661					

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)	0.64
3	pH	-	IS:3025:(Part-11)	6.5 To 8.5	7.74
4	Residual Chlorine	mg/L	IS:3025:(part-26)	0.2 (max)	N.D.
5	Total Dissolved Solids	mg/L	IS:3025:(Part-16)	500 (max)	232
6	Alkalinity Total (as CaCO ₃)	mg/L	IS:3025:(Part-23)	200 (max)	90.0
7	Total Hardness (as CaCO ₃)	mg/L	IS:3025:(Part-21)	200 (max)	162.0
8	Calcium (as Ca)	mg/L	IS:3025:(Part-40)	75 (max)	43.29
9	Magnesium (as Mg)	mg/L	APHA 24 th Ed.2023,3500-Mg-B, 274	30 (max)	13.12
10	Chloride (as Cl)	mg/L	IS:3025:(Part-32)	250 (max)	24.9
11	Sulphate (as SO ₄)	mg/L	IS:3025:(Part-24)	200 (max)	31.56
12	Nitrate (NO ₃)	mg/L	IS:3025:(Part-34)	45 (max)	9.85
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)	0.3 (max)	N.D.
15	Fluoride (as F)	mg/L	IS:3025:(Part-60)	1.0 (max)	N.D.
16	Manganese (as Mn)	mg/L	IS:3025:(Part-59)	0.1 (max)	N.D.
17	Lead (as Pb)	mg/L	IS:3025:(Part-47)	0.01 (max)	N.D.
18	Zinc (as Zn)	mg/L	IS:3025:(Part-49)	5.0 (max)	N.D.
19	Copper (as Cu)	mg/L	IS:3025:(Part-42)	0.05 (max)	N.D.
20	Aluminium (as Al)	mg/L	IS:3025:(Part-55)	0.03 (max)	N.D.
21	Mercury (as Hg)	mg/L	IS:3025:(Part-48)	0.001(max)	N.D.
22	Arsenic (as As)	mg/L	IS:3025:(Part-37)	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	Annex J of IS:13428	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	Annex K of IS:13428	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.

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REPORT NO. - 08661

TEST REPORT

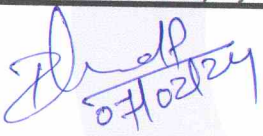


Sr. No.	Parameter	Unit	Method Reference	Limits as per IS 10500 : 2012	Result
29	Poly-nuclear Aromatic Hydrocarbon (PAH)	µg/L	APHA 24 th Ed. 6440-PAH-B, 703	0.0001(max)	N.D.
30	Mineral Oil	mg/L	IS:3025 (Part-39):1991, RA 2003, Ed. 2.1	0.05 (max)	N.D.
Microbial Parameter					
1	Total Coliform	MPN/100 ML	IS:1622:1981:RA: 2019	Shall not be detectable in any 100 ml sample	27.0
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

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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/23-24/08662
		LAB REF NO.	UES/23-24/N/016811-016812
		DATE OF REPORT	07/02/2024
		DATE OF SAMPLING	02/02/2024
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 New Project 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)	67.8	50.3	75	70
Near New Project Area	dB(A)	64.9	48.5		

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Name & Address Of The Customer		REPORT NO.	UES/TR/23-24/08663	
To, Crest Steel And Power Private Limited Village: Joratarai, Post - Mangatta Rajnandgaon 491441		LAB REF NO.	UES/23-24/FE/016813	
		DATE OF SAMPLING	02/02/2024	
		DATE OF RECEIPT	03/02/2024	
		DATE OF REPORT	07/02/2024	
		DATE OF ANALYSIS	START: 03/02/2024	END: 07/02/2024
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	878	2000	EPA Method IO-2.1

REMARKS: 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	UES/TR/23-24/08664	
		Lab. Ref. No.	UES/23-24/W/016814	
		Date of Sampling	02/02/2024	
		Date of Receipt	03/02/2024	
		Date of Report	07/02/2024	
		Date of Analysis	Start: 03/02/2024	End: 07/02/2024
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	7.39
2	Total Suspended Solid	mg/L	IS:3025: (Part-17)	100	30.0
3	Chemical Oxygen Demand	mg/L	IS:3025: (Part-58)	250	80.0
4	Bio-chemical Oxygen Demand at 27°C for three day	mg/L	IS:3025: (Part-44)	30	15.7
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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Name & Address Of The Customer		REPORT NO	UES/TR/23-24/08665	
To, Crest Steel And Power Private Limited Village: Joratarai, Post – Mangatta Rajnandgaon 491441		LAB REF NO	UES/23-24/ST/016815	
		DATE OF SAMPLING	02/02/2024	
		DATE OF RECEIPT	03/02/2024	
		DATE OF REPORT	07/02/2024	
		DATE OF ANALYSIS	START: 03/02/2024	END: 07/02/2024
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	118.8	-	IS 11255 (Part 3):2008
FLUE GAS VELOCITY	M/s	10.47	-	IS 11255 (Part 3):2008
TOTAL GAS QUANTITY	Nm ³ /h	275681.0	-	IS 11255 (Part 3):2008
TOTAL PARTICULATE MATTER (TPM)	mg/Nm ³	43.5	50	IS 11255 (Part 1):1985
SULPHUR DIOXIDE (SO ₂)	mg/Nm ³	196.0	600	IS 11255 (Part 2):1985
OXIDES OF NITROGEN (NO _x)	mg/Nm ³	124.8	300	IS 11255 (Part 7):2005
CARBON MONOXIDE (CO)	mg/Nm ³	0.2	-	IS 13270 RA 2019

REMARKS: :N.D.: NOT DETECTED

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[Signature]
07/02/24

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Name & Address Of The Customer		REPORT NO	UES/TR/23-24/08666	
To, Crest Steel And Power Private Limited Village: Joratarai, Post - Mangatta Rajnandgaon 491441		LAB REF NO	UES/23-24/ST/016816	
		DATE OF SAMPLING	02/02/2024	
		DATE OF RECEIPT	03/02/2024	
		DATE OF REPORT	07/02/2024	
		DATE OF ANALYSIS	START: 03/02/2024	END: 07/02/2024
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.			


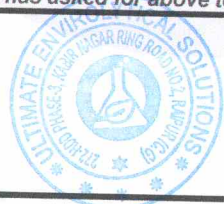

TEST REPORT

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	146.2	-	IS 11255 (Part 3):2008
FLUE GAS VELOCITY	M/s	9.37	-	IS 11255 (Part 3):2008
TOTAL GAS QUANTITY	Nm ³ /h	85401.6	-	IS 11255 (Part 3):2008
TOTAL PARTICULATE MATTER (TPM)	mg/Nm ³	41.5	50	IS 11255 (Part 1):1985
SULPHUR DIOXIDE (SO ₂)	mg/Nm ³	206.8	600	IS 11255 (Part 2):1985
OXIDES OF NITROGEN (NO _x)	mg/Nm ³	132.4	300	IS 11255 (Part 7):2005
CARBON MONOXIDE (CO)	mg/Nm ³	0.2	-	IS 13270 RA 2019

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