



HDD-272, Phase III - Near JP Chowk
Ring Road No.-2, Kabir Nagar, Raipur (C.G.) - 492099
Ph : 0771 - 4027777 | 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/23-24/04887	
Lab Ref No.	UES/23-24/AAQM/09123-09124	
Date of Sampling	10/10/2023	
Date of Receipt	11/10/2023	
Date of Report	16/10/2023	
Date of Analysis	Start: 11/10/2023	End: 16/10/2023

SAMPLE DETAILS

Monitoring For	Ambient Air Quality Monitoring
Sampling Location	1. Near Main Gate Area 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. 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	µg/m ³	100	68.26	72.54
PM _{2.5}	µg/m ³	60	31.48	33.70
SO ₂	µg/m ³	80	17.32	18.86
NO ₂	µg/m ³	80	21.50	20.37
CO	mg/m ³	4.0	1.22	2.16

REMARKS: RESULTS ARE AS ABOVE

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[Signature]
16/10/23

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For ULTIMATE ENVIROLYTICAL SOLUTIONS

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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.		UES/TR/23-24/04888	
		LAB REF NO.		UES/23-24/W/09125	
		DATE OF SAMPLING		10/10/2023	
		DATE OF RECEIPT		11/10/2023	
		DATE OF REPORT		16/10/2023	
		DATE OF ANALYSIS		START: 11/10/2023	END: 16/10/2023
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. - 04888					

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)	2.25
3	pH	-	IS:3025:(Part-11)	6.5 To 8.5	8.14
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)	156.0
6	Alkalinity Total (as CaCO ₃)	mg/Lit	IS 3025:(Part-23)	200 (max)	94.0
7	Total Hardness (as CaCO ₃)	mg/Lit	IS 3025:(Part-21)	200 (max)	120.0
8	Calcium (as Ca)	mg/Lit	IS 3025:(Part-40)	75 (max)	34.47
9	Magnesium (as Mg)	mg/Lit	IS 3025:(Part-46)	30 (max)	8.26
10	Chloride (as Cl)	mg/Lit	IS 3025:(Part-32)	250 (max)	17.99
11	Sulphate (as SO ₄)	mg/Lit	IS 3025:(Part-24)	200 (max)	23.05
12	Nitrate (NO ₃)	mg/Lit	IS 3025(part-34)	45 (max)	19.72
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 22 nd 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 ₆ H ₅ OH)	mg/Lit	IS 3025(part-43)	0.001(max)	N.D.



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REPORT NO. - 04888

TEST REPORT

Sr. No.	Parameter	Unit	Method Reference	Limits as per IS 10500 : 2012	Result
29	Poly-nuclear Aromatic Hydrocarbon (PAH)	µg/Lit	APHA 22 nd 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	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/23-24/04889
		LAB REF NO.	UES/23-24/N/09126-09127
		DATE OF REPORT	16/10/2023
		DATE OF SAMPLING	10/10/2023
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 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)	61.7	45.2	75	70
Near Store Area	dB(A)	57.4	42.1		

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Rekha
16/10/23

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For ULTIMATE ENVIROLYTICAL SOLUTIONS

Subhajeet

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



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Name & Address Of The Customer		REPORT NO.	UES/TR/23-24/04890
To,		LAB REF NO.	UES/23-24/FE/09128
Crest Steel And Power Private Limited		DATE OF SAMPLING	10/10/2023
Village: Joratarai,		DATE OF RECEIPT	11/10/2023
Post – Mangatta		DATE OF REPORT	16/10/2023
Rajnandgaon 491441		DATE OF ANALYSIS	START:11/10/2023 END:16/10/2023
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.		

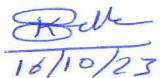
TEST REPORT

Locations	Unit	Suspended Particulate Matter (SPM)	Limit as per Moef & CC Notification	Method Reference
Near Boiler Area	µg/m ³	806	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/23-24/04891	
		Lab. Ref. No.		UES/23-24/W/09129	
		Date of Sampling		10/10/2023	
		Date of Receipt		11/10/2023	
		Date of Report		16/10/2023	
		Date of Analysis		Start: 11/10/2023	End: 16/10/2023
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) 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	8.22
2	Total Suspended Solid	mg/L	IS:3025: (Part-17): 1984, RA 2012	100	23.0
3	Chemical Oxygen Demand	mg/L	IS:3025: (Part-58): 2006, RA 2012	250	88.0
4	Bio-chemical Oxygen Demand at 27°C for three day	mg/L	IS:3025: (Part-44): 1993 RA 2014	30	15.6
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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Name & Address Of The Customer		REPORT NO	UES/TR/23-24/04892	
To, Crest Steel And Power Private Limited Village: Joratarai, Post - Mangatta Rajnandgaon 491441		LAB REF NO	UES/23-24/ST/09130	
		DATE OF SAMPLING	10/10/2023	
		DATE OF RECEIPT	11/10/2023	
		DATE OF REPORT	16/10/2023	
		DATE OF ANALYSIS	START: 11/10/2023	END: 16/10/2023
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., 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	94.0	-	IS 11255 (Part 3):2008
FLUE GAS VELOCITY	M/s	7.84	-	IS 11255 (Part 3):2008
TOTAL GAS QUANTITY	Nm ³ /h	220381.2	-	IS 11255 (Part 3):2008
TOTAL PARTICULATE MATTER (TPM)	mg/Nm ³	40.2	50	IS 11255 (Part 1):1985, RA 2003
SULPHUR DIOXIDE (SO ₂)	mg/Nm ³	196.4	600	IS 11255 (Part 2):1985, RA 2003
OXIDES OF NITROGEN (NO _x)	mg/Nm ³	114.5	300	IS 11255 (Part 7):2005, RA 2012
CARBON MONOXIDE (CO)	mg/Nm ³	0.1	-	IS 13270 RA 2019

REMARKS: :N.D.: NOT DETECTED

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Name & Address Of The Customer		REPORT NO	UES/TR/23-24/04893	
To, Crest Steel And Power Private Limited Village: Joratarai, Post – Mangatta Rajnandgaon 491441		LAB REF NO	UES/23-24/ST/09131	
		DATE OF SAMPLING	10/10/2023	
		DATE OF RECEIPT	11/10/2023	
		DATE OF REPORT	16/10/2023	
		DATE OF ANALYSIS	START: 11/10/2023	END: 16/10/2023
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	82.0	-	IS 11255 (Part 3):2008
FLUE GAS VELOCITY	M/s	10.38	-	IS 11255 (Part 3):2008
TOTAL GAS QUANTITY	Nm ³ /h	111716.3	-	IS 11255 (Part 3):2008
TOTAL PARTICULATE MATTER (TPM)	mg/Nm ³	39.8	50	IS 11255 (Part 1):1985, RA 2003
SULPHUR DIOXIDE (SO ₂)	mg/Nm ³	184.0	600	IS 11255 (Part 2):1985, RA 2003
OXIDES OF NITROGEN (NO _x)	mg/Nm ³	120.6	300	IS 11255 (Part 7):2005, RA 2012
CARBON MONOXIDE (CO)	mg/Nm ³	0.1	-	IS 13270 RA 2019

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RBH
16/10/23

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For ULTIMATE ENVIROLYTICAL SOLUTIONS

Subhajeet

AUTHORIZED SIGNATORY

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

AN ISO : 9001:2015 / ISO: 14001:2015 / ISO 45001:2018 CERTIFIED LABORATORY