



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/24-25/02705	
To,		Lab Ref No.	UESPL/24-25/AAQM/04554-04555	
Crest Steel And Power Private Limited		Date of Sampling	14/08/2024	
Village: Joratarai,		Date of Receipt	16/08/2024	
Post – Mangatta		Date of Report	20/08/2024	
Rajnandgaon 491441		Date of Analysis	Start: 16/08/2024	End: 20/08/2024
SAMPLE DETAILS				
Monitoring For	Ambient Air Quality Monitoring			
Sampling Location	1. Near Main Gate Area 2. Near NewProject 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 & 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	70.44	67.36
PM _{2.5}	µg/m ³	60	31.52	30.91
SO ₂	µg/m ³	80	16.94	14.10
NO ₂	µg/m ³	80	20.46	19.02
CO	mg/m ³	4.0	0.59	0.34

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[Signature]
20/08/24

REVIEWED BY



For ULTIMATE ENVIROLYTICAL SOLUTIONS PVT LTD

[Signature]

AUTHORIZED SIGNATORY

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

<i>Name & Address of The Customer</i>		REPORT NO.	UESPL/TR/24-25/02706	
To, Crest Steel And Power Private Limited Village: Joratarai, Post - Mangatta Rajnandgaon 491441		LAB REF NO.	UESPL/24-25/W/04555	
		DATE OF SAMPLING	14/08/2024	
		DATE OF RECEIPT	16/08/2024	
		DATE OF REPORT	20/08/2024	
		DATE OF ANALYSIS	START: 16/08/2024	END: 20/08/2024
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. - 04555				

TEST REPORT

Sr. No.	Parameter	Unit	Method Reference	Limits as per IS 10500 : 2012	Result
1	Colour	Hazen	IS:3025:(Part-4)	5 (max)	10
2	Turbidity	NTU	IS:3025:(Part-10)	1.0 (max)	0.89
3	pH	-	IS:3025:(Part-11)	6.5 To 8.5	7.41
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)	326
6	Alkalinity Total (as CaCO ₃)	mg/L	IS:3025:(Part-23)	200 (max)	98
7	Total Hardness (as CaCO ₃)	mg/L	IS:3025:(Part-21)	200 (max)	188
8	Calcium (as Ca)	mg/L	IS:3025:(Part-40)	75 (max)	54.51
9	Magnesium (as Mg)	mg/L	APHA 24 th Ed.2023,3500-Mg-B, 274	30 (max)	12.64
10	Chloride (as Cl)	mg/L	IS:3025:(Part-32)	250 (max)	37.8
11	Sulphate (as SO ₄)	mg/L	IS:3025:(Part-24)	200 (max)	33.4
12	Nitrate (NO ₃)	mg/L	IS:3025:(Part-34)	45 (max)	11.52
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)	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.

REPORT NO. - 04555

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

Note: mg/lit.: milligram per liter.

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 REVIEWED BY		For ULTIMATE ENVIROLYTICAL SOLUTIONS PVT LTD  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/24-25/02707
To, Crest Steel And Power Private Limited Village: Joratarai, Post - Mangatta Rajnandgaon 491441		LAB REF NO.	UESPL/24-25/N/04556-04557
		DATE OF REPORT	20/08/2024
		DATE OF SAMPLING	14/08/2024
		SAMPLE DETAILS	
<i>Monitoring For</i>	<i>Noise Level Monitoring</i>		
<i>Customer Ref. No. & Date</i>	4232200698, DATED: 29.03.2024		
<i>Sampling Location</i>	1. Near Main Gate Area 2. Near New Project Area		
<i>Sample Collected By</i>	Laboratory Chemist		
<i>Sampling Procedure</i>	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)	70.8	57.1	75	70
Near New Project Area	dB(A)	67.5	52.8		

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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/24-25/02708	
	LAB REF NO.	UESPL/24-25/FE/04558	
	DATE OF SAMPLING	14/08/2024	
	DATE OF RECEIPT	16/08/2024	
	DATE OF REPORT	20/08/2024	
	DATE OF ANALYSIS	START: 16/08/2024	END: 20/08/2024
SAMPLE DETAILS			
Monitoring For	Fugitive Emission		
Customer Ref. No.	4232200698, Dated: 29.03.2024		
Sampling Location	Near Boiler Area		
Duration Of Sampling	8 Hours		
Sample Collected by	Laboratory Chemist		
Sampling Procedure	As Per Method Reference		
Sample Quantity/Packing	GME Filter Paper (8 X 10 Inch): 1x1 No.		

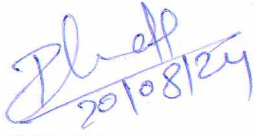


TEST REPORT

Locations	Unit	Suspended Particulate Matter (SPM)	Limit as per MOEF& CC Notification	Method Reference
Near Boiler Area	$\mu\text{g}/\text{m}^3$	861	2000	EPA Method IO-2.1

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<i>Name & Address Of The Customer</i>		Report No	UESPL/TR/24-25/02709	
To, Crest Steel And Power Private Limited Village: Joratarai, Post – Mangatta Rajnandgaon 491441		Lab. Ref. No.	UESPL/24-25/W/04559	
		Date of Sampling	14/08/2024	
		Date of Receipt	16/08/2024	
		Date of Report	20/08/2024	
		Date of Analysis	Start: 16/08/2024	End:20/08/2024
SAMPLE DETAILS				
Customer Sample ID	SID – Kiln Effluent 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)	5.5 To 9.0	7.49
2	Total Suspended Solid	mg/L	IS:3025:(Part-17)	100	23.8
3	Chemical Oxygen Demand	mg/L	IS:3025:(Part-58)	250	52
4	Bio-chemical Oxygen Demand at 27°C for three day	mg/L	IS:3025:(Part-44)	30	13.4
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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<i>Name & Address Of The Customer</i>		REPORT NO	UESPL/TR/24-25/02710	
To, Crest Steel And Power Private Limited Village: Joratarai, Post - Mangatta Rajnandgaon 491441		LAB REF NO	UESPL/24-25/ST/04560	
		DATE OF SAMPLING	14/08/2024	
		DATE OF RECEIPT	16/08/2024	
		DATE OF REPORT	20/08/2024	
		DATE OF ANALYSIS	START: 16/08/2024	END: 20/08/2024
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	116.5	-	IS 11255 (Part 3):2008
FLUE GAS VELOCITY	M/s	8.1	-	IS 11255 (Part 3):2008
TOTAL GAS QUANTITY	Nm ³ /h	219724.1	-	IS 11255 (Part 3):2008
TOTAL PARTICULATE MATTER (TPM)	mg/Nm ³	41.3	50	IS 11255 (Part 1):1985
SULPHUR DIOXIDE (SO ₂)	mg/Nm ³	190.6	600	IS 11255 (Part 2):1985
OXIDES OF NITROGEN (NO _x)	mg/Nm ³	122.8	300	IS 11255 (Part 7):2005
CARBON MONOXIDE (CO)	mg/Nm ³	0.1	-	IS 13270 RA 2019

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AUTHORIZED SIGNATORY

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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/24-25/02711	
	LAB REF NO	UESPL/24-25/ST/04561	
	DATE OF SAMPLING	14/08/2024	
	DATE OF RECEIPT	16/08/2024	
	DATE OF REPORT	20/08/2024	
	DATE OF ANALYSIS	START: 16/08/2024	END: 20/08/2024

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., 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	140.0	-	IS 11255 (Part 3):2008
FLUE GAS VELOCITY	M/s	14.13	-	IS 11255 (Part 3):2008
TOTAL GAS QUANTITY	Nm ³ /h	130719.3	-	IS 11255 (Part 3):2008
TOTAL PARTICULATE MATTER (TPM)	mg/Nm ³	39.0	50	IS 11255 (Part 1):1985
SULPHUR DIOXIDE (SO ₂)	mg/Nm ³	198.4	600	IS 11255 (Part 2):1985
OXIDES OF NITROGEN (NO _x)	mg/Nm ³	122.8	300	IS 11255 (Part 7):2005
CARBON MONOXIDE (CO)	mg/Nm ³	0.1	-	IS 13270 RA 2019

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