

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

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	72.34	69.22
PM _{2.5}	µg/m ³	60	32.46	31.80
SO ₂	µg/m ³	80	17.84	14.56
NO ₂	µg/m ³	80	21.35	20.92
CO	mg/m ³	4.0	0.62	0.48

REMARKS: RESULTS ARE AS ABOVE

- The use of the report for publication, arbitration or as legal dispute is forbidden.
- Test sample will be retained for 15 days after issue of test report unless otherwise agreed with customer.
- This is for information as the party has asked for above test(s) only.

 <p>REVIEWED BY</p>		<p>For ULTIMATE ENVIROLYTICAL SOLUTIONS PVT LTD</p>  <p>AUTHORIZED SIGNATORY</p>
---	---	---

-End of the test report-



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, ultimatenviro@gmail.com

Name & Address of The Customer To, Crest Steel And Power Private Limited Village: Joratarai, Post – Mangatta Rajnandgaon 491441		REPORT NO.	UESPL/TR/24-25/02133	
		LAB REF NO.	UESPL/24-25/W/03664	
		DATE OF SAMPLING	17/07/2024	
		DATE OF RECEIPT	18/07/2024	
		DATE OF REPORT	22/07/2024	
		DATE OF ANALYSIS	START:18/07/2024	END:22/07/2024
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. – 02133

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)	0.78
3	pH	-	IS:3025:(Part-11)	6.5 To 8.5	7.51
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)	308
6	Alkalinity Total (as CaCO ₃)	mg/L	IS:3025:(Part-23)	200 (max)	102
7	Total Hardness (as CaCO ₃)	mg/L	IS:3025:(Part-21)	200 (max)	184
8	Calcium (as Ca)	mg/L	IS:3025:(Part-40)	75 (max)	49.7
9	Magnesium (as Mg)	mg/L	APHA 24 th Ed.2023,3500-Mg-B, 274	30 (max)	14.58
10	Chloride (as Cl)	mg/L	IS:3025:(Part-32)	250 (max)	29.9
11	Sulphate (as SO ₄)	mg/L	IS:3025:(Part-24)	200 (max)	36.14
12	Nitrate (NO ₃)	mg/L	IS:3025:(Part-34)	45 (max)	10.45
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. - 02133

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	60
2	E - Coli	MPN/100 ML	IS:1622:1981:RA: 2019	Shall not be detectable in any 100 ml sample	<2.0

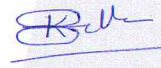
Note: mg/lit.: milligram per liter.

REMARKS: N.D. - NOT DETECTED**Terms & conditions**

- The report for publication, arbitration or as the legal dispute is forbidden.
- Test sample will be retained for 15 days after issue of test report unless otherwise agreed with the customers.
- This is for information as the party has asked for the above test(s) only


REVIEWED BY

For ULTIMATE ENVIROLYTICAL SOLUTIONS PVT LTD


AUTHORIZED SIGNATORY

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



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 To, Crest Steel And Power Private Limited Village: Joratarai, Post – Mangatta Rajnandgaon 491441	REPORT NO.	UESPL/TR/24-25/02134
	LAB REF NO.	UESPL/24-25/N/03665-03666
	DATE OF REPORT	22/07/2024
	DATE OF SAMPLING	17/07/2024

SAMPLE DETAILS

Monitoring For	Noise Level Monitoring
Customer Ref. No. & Date	4232200698, DATED: 29.03.2024
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)	70.5	56.8	75	70
Near New Project Area	dB(A)	67.1	52.6		

REMARKS: RESULTS ARE AS ABOVE

Terms & conditions

- The use of the report for publication, arbitration or as legal dispute is forbidden.
- Test sample will be retained for 15 days after issue of test report unless otherwise agreed with customer.
- This is for information as the party has asked for above test(s) only.

 REVIEWED BY		For ULTIMATE ENVIROLYTICAL SOLUTIONS PVT LTD  AUTHORIZED SIGNATORY
---	---	--

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



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, ultimatenviro@gmail.com

Name & Address Of The Customer To, Crest Steel And Power Private Limited Village: Joratarai, Post – Mangatta Rajnandgaon 491441	REPORT NO.	UESPL/TR/24-25/02135	
	LAB REF NO.	UESPL/24-25/FE/03667	
	DATE OF SAMPLING	17/07/2024	
	DATE OF RECEIPT	18/07/2024	
	DATE OF REPORT	22/07/2024	
	DATE OF ANALYSIS	START: 18/07/2024	END: 22/07/2024
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	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	868	2000	EPA Method IO-2.1

REMARKS:N.D.- NOT DETECTED

Terms & conditions

- The report for publication, arbitration or as legal dispute is forbidden.
- Test sample will be retained for 15 days after issue of test report unless otherwise agreed with customer.
- This is for information as the party has asked for above test(s) only.

 REVIEWED BY		For ULTIMATE ENVIROLYTICAL SOLUTIONS PVT LTD  AUTHORIZED SIGNATORY
---	---	--

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



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, ultimatenviro@gmail.com

Name & Address Of The Customer To, Crest Steel And Power Private Limited Village: Joratarai, Post – Mangatta Rajnandgaon 491441		Report No	UESPL/TR/24-25/02136	
		Lab. Ref. No.	UESPL/24-25/W/03668	
		Date of Sampling	17/07/2024	
		Date of Receipt	18/07/2024	
		Date of Report	22/07/2024	
		Date of Analysis	Start: 18/07/2024	End: 22/07/2024
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

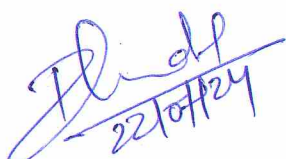

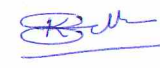
SR. NO.	PARAMETER	UNIT	METHOD OF TEST	LIMITS AS PER CONSENT	RESULT
1	pH Value at 25.2°C	–	IS:3025:(Part-11)	5.5 To 9.0	7.39
2	Total Suspended Solid	mg/L	IS:3025:(Part-17)	100	28.6
3	Chemical Oxygen Demand	mg/L	IS:3025:(Part-58)	250	41
4	Bio-chemical Oxygen Demand at 27°C for three day	mg/L	IS:3025:(Part-44)	30	8.6
5	Oil & Grease	mg/L	IS:3025:(Part-39)	10	Absent

Note:mg/lit.: milligram per liter. N.D.: Not Detected.

REMARKS: RESULTS ARE AS ABOVE

Terms & conditions

- The use of the report for publication, arbitration or as a legal dispute is forbidden.
- Test sample will be retained for 15 days after issue of test report unless otherwise agreed with the customer.
- This is for information as the party has asked for the above test(s) only.

 REVIEWED BY	 For ULTIMATE ENVIROLYTICAL SOLUTIONS PVT LTD	 AUTHORIZED SIGNATORY
---	--	--

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



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, ultimatenviro@gmail.com

To, Crest Steel And Power Private Limited Village: Joratarai, Post – Mangatta Rajnandgaon 491441		REPORT NO		UESPL/TR/24-25/02137	
		LAB REF NO		UESPL/24-25/ST/03669	
		DATE OF SAMPLING		17/07/2024	
		DATE OF RECEIPT		18/07/2024	
		DATE OF REPORT		22/07/2024	
		DATE OF ANALYSIS		START: 18/07/2024	END: 22/07/2024
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	214536.9	-	IS 11255 (Part 3):2008
TOTAL PARTICULATE MATTER (TPM)	mg/Nm ³	40.2	50	IS 11255 (Part 1):1985
SULPHUR DIOXIDE (SO ₂)	mg/Nm ³	192.8	600	IS 11255 (Part 2):1985
OXIDES OF NITROGEN (NO _x)	mg/Nm ³	124.3	300	IS 11255 (Part 7):2005
CARBON MONOXIDE (CO)	mg/Nm ³	0.1	-	IS 13270 RA 2019

REMARKS: :N.D.: NOT DETECTED

Terms & conditions

- The report for publication, arbitration or as legal dispute is forbidden.
- Test sample will be retained for 07 days after issue of test report unless otherwise agreed with customer.
- This is for information as the party has asked for above test(s) only

 REVIEWED BY		 AUTHORIZED SIGNATORY
---	---	--

For ULTIMATE ENVIROLYTICAL SOLUTIONS PVT LTD

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



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, ultimatenviro@gmail.com

Name & Address Of The Customer To, Crest Steel And Power Private Limited Village: Joratarai, Post – Mangatta Rajnandgaon 491441		REPORT NO		UESPL/TR/24-25/02138	
		LAB REF NO		UESPL/24-25/ST/03670	
		DATE OF SAMPLING		17/07/2024	
		DATE OF RECEIPT		18/07/2024	
		DATE OF REPORT		22/07/2024	
		DATE OF ANALYSIS		START: 18/07/2024	END: 22/07/2024
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	151.0	-	IS 11255 (Part 3):2008
FLUE GAS VELOCITY	M/s	12.42	-	IS 11255 (Part 3):2008
TOTAL GAS QUANTITY	Nm ³ /h	111918.9	-	IS 11255 (Part 3):2008
TOTAL PARTICULATE MATTER (TPM)	mg/Nm ³	38.8	50	IS 11255 (Part 1):1985
SULPHUR DIOXIDE (SO ₂)	mg/Nm ³	204.0	600	IS 11255 (Part 2):1985
OXIDES OF NITROGEN (NO _x)	mg/Nm ³	124.4	300	IS 11255 (Part 7):2005
CARBON MONOXIDE (CO)	mg/Nm ³	0.1	-	IS 13270 RA 2019

REMARKS: :N.D.: NOT DETECTED

Terms & conditions

- The report for publication, arbitration or as legal dispute is forbidden.
- Test sample will be retained for 07 days after issue of test report unless otherwise agreed with customer.
- This is for information as the party has asked for above test(s) only

 REVIEWED BY	 For ULTIMATE ENVIROLYTICAL SOLUTIONS PVT LTD	 AUTHORIZED SIGNATORY
---	--	--

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