



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		Report No.	UES/TR/23-24/04026	
<b>To,</b> <b>Crest Steel And Power Private Limited</b> <b>Village: Joratarai,</b> <b>Post – Mangatta</b> <b>Rajnandgaon 491441</b>		Lab Ref No.	UES/23-24/AAQM/07598-07599	
		Date of Sampling	16/09/2023	
		Date of Receipt	18/09/2023	
		Date of Report	22/09/2023	
		Date of Analysis	Start: 18/09/2023	End: 22/09/2023
<b>SAMPLE DETAILS</b>				
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 <sub>10</sub> ): 1X1 No., Filter Paper (PM <sub>2.5</sub> ): 1X1 No. SO <sub>2</sub> : 30mlX1 No. PVC Bottle, NO <sub>2</sub> : 30mlX1 NO. PVC Bottle,			

### Test Method for Ambient Air Quality Monitoring

Parameter	Method Reference
Particulate Matter size less than 10 microns (PM <sub>10</sub> )	IS:5182: (Part-23):2006 &CPCB Guidelines Vol.-I
Particulate Matter size less than 2.5 microns (PM <sub>2.5</sub> )	IS:5182: (Part-24):2019 &CPCB Guidelines Vol.-I
Sulphur Dioxide (SO <sub>2</sub> )	IS:5182: (Part-2):2001, RA 2006 &CPCB Guidelines Vol.-I
Nitrogen Dioxide (NO <sub>2</sub> )	IS:5182: (Part-6):2006 & CPCB Guidelines Vol.-I

### TEST REPORT

Parameter	Unit	NAAQM Standard	Results	
			Near Main Gate Area	Near Store Area
PM <sub>10</sub>	µg/m <sup>3</sup>	100	67	70
PM <sub>2.5</sub>	µg/m <sup>3</sup>	60	29	32
SO <sub>2</sub>	µg/m <sup>3</sup>	80	15	16
NO <sub>2</sub>	µg/m <sup>3</sup>	80	20	19
CO	mg/m <sup>3</sup>	4.0	0.9	1.0

**REMARKS: RESULTS ARE AS ABOVE**

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*Phull*  
22/09/23

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For ULTIMATE ENVIROLYTICAL SOLUTIONS

*Subhajeet*

AUTHORIZED SIGNATORY

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





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		LAB REF NO.	UES/23-24/W/07600	
		DATE OF SAMPLING	16/09/2023	
		DATE OF RECEIPT	18/09/2023	
		DATE OF REPORT	22/09/2023	
		DATE OF ANALYSIS	START:18/09/2023	END:22/09/2023
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. - 04027

### 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)	3.12
3	pH	-	IS:3025:(Part-11)	6.5 To 8.5	7.80
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)	126.52
6	Alkalinity Total (as CaCO <sub>3</sub> )	mg/Lit	IS 3025:(Part-23)	200 (max)	78.0
7	Total Hardness ( as CaCO <sub>3</sub> )	mg/Lit	IS 3025:(Part-21)	200 (max)	98.0
8	Calcium (as Ca)	mg/Lit	IS 3025:(Part-40)	75 (max)	30.46
9	Magnesium (as Mg)	mg/Lit	IS 3025:(Part-46)	30 (max)	5.35
10	Chloride (as Cl)	mg/Lit	IS 3025:(Part-32)	250 (max)	13.99
11	Sulphate (as SO <sub>4</sub> )	mg/Lit	IS 3025:(Part-24)	200 (max)	18.62
12	Nitrate (NO <sub>3</sub> )	mg/Lit	IS 3025(part-34)	45 (max)	15.93
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 <sup>nd</sup> Ed.2012,4500 <sup>-S</sup> -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 <sub>6</sub> H <sub>5</sub> OH)	mg/Lit	IS 3025(part-43)	0.001(max)	N.D.
29	Poly-nuclear Aromatic Hydrocarbon (PAH)	µg/Lit	APHA 22 <sup>nd</sup> Ed.2012,6440-6-93	0.0001(max)	N.D.





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### TEST REPORT

Sr. No.	Parameter	Unit	Method Reference	Limits as per IS 10500 : 2012	Result
30	Mineral Oil	mg/Lit	IS:3025 (part-39):1991, RA 2003, Ed. 2.1	0.05 (max)	N.D.
<b>Microbial Parameter</b>					
1	Total Coliform	MPN/100 ML	IS: 1622:1981:RA:2019	Shall not be detectable in any 100 ml sample	26.0
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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 <b>REVIEWED BY</b>	 <b>For ULTIMATE ENVIROLYTICAL SOLUTIONS</b>	 <b>AUTHORIZED SIGNATORY</b>
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-----End of the test report.-----





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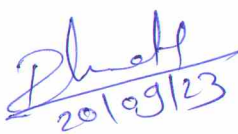

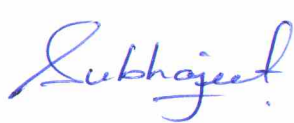
<b>To,</b> <b>Crest Steel And Power Private Limited</b> <b>Village: Joratarai,</b> <b>Post – Mangatta</b> <b>Rajnandgaon 491441</b>		REPORT NO.	UES/TR/23-24/04028
		LAB REF NO.	UES/23-24/N/07601-07602
		DATE OF REPORT	20/09/2023
		DATE OF SAMPLING	16/09/2023
<b>SAMPLE DETAILS</b>			
Monitoring For	Noise 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)	59.4	44.1	75	70
Near Store Area	dB(A)	56.3	42.6		

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 20/09/23		For ULTIMATE ENVIROLYTICAL SOLUTIONS 
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Name & Address Of The Customer		REPORT NO.	UES/TR/23-24/04029	
<b>To,</b> <b>Crest Steel And Power Private Limited</b> <b>Village: Joratarai,</b> <b>Post – Mangatta</b> <b>Rajnandgaon 491441</b>		LAB REF NO.	UES/23-24/FE/07603	
		DATE OF SAMPLING	16/09/2023	
		DATE OF RECEIPT	18/09/2023	
		DATE OF REPORT	22/09/2023	
		DATE OF ANALYSIS	START: 18/09/2023	END: 22/09/2023
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	$\mu\text{g}/\text{m}^3$	819	2000	EPA Method IO-2.1

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		<b>Lab. Ref. No.</b>		UES/23-24/W/07604	
		<b>Date of Sampling</b>		16/09/2023	
		<b>Date of Receipt</b>		18/09/2023	
		<b>Date of Report</b>		22/09/2023	
		<b>Date of Analysis</b>		Start: 18/09/2023	End: 22/09/2023
<b>SAMPLE DETAILS</b>					
<b>Customer Sample ID</b>	SID – Kiln Effluent Water	<b>Customer Ref. No. &amp; Date</b>		4232200409, Dated: 25.07.2023	
<b>Sample Type</b>	Effluent Water	<b>Sample Condition At Receipt</b>		Ok	
<b>Packing of Sample</b>	Jerry Cane (3 ltr.*1) Glass bottle (1 ltr.*1)	<b>Sample Collected By</b>		Laboratory Chemist	
<b>Other Details</b>	Sealed	<b>Quantity Received</b>		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	7.09
2	Total Suspended Solid	mg/L	IS:3025:(Part-17): 1984, RA 2012	100	54.0
3	Chemical Oxygen Demand	mg/L	IS:3025:(Part-58):2006, RA 2012	250	100.0
4	Bio-chemical Oxygen Demand at 27°C for three day	mg/L	IS:3025:(Part-44):1993 RA 2014	30	17.7
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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		LAB REF NO		UES/23-24/ST/07605	
		DATE OF SAMPLING		11/09/2023	
		DATE OF RECEIPT		12/09/2023	
		DATE OF REPORT		16/09/2023	
		DATE OF ANALYSIS		START:12/09/2023	END:16/09/2023
<b>SAMPLE DETAILS</b>					
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 <sub>2</sub> : 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

<b>Stack details</b>				
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		
<b>Parameter</b>	<b>Unit</b>	<b>Result</b>	<b>Limit</b>	<b>Method Reference</b>
FLUE GAS TEMPERATURE	°C	86.0	-	IS 11255 (Part 3):2008
FLUE GAS VELOCITY	M/s	11.88	-	IS 11255 (Part 3):2008
TOTAL GAS QUANTITY	Nm <sup>3</sup> /h	341386.6	-	IS 11255 (Part 3):2008
TOTAL PARTICULATE MATTER (TPM)	mg/Nm <sup>3</sup>	38.6	50	IS 11255 (Part 1):1985, RA 2003
SULPHUR DIOXIDE (SO <sub>2</sub> )	mg/Nm <sup>3</sup>	198.4	600	IS 11255 (Part 2):1985, RA 2003
OXIDES OF NITROGEN (NO <sub>x</sub> )	mg/Nm <sup>3</sup>	112.0	300	IS 11255 (Part 7):2005, RA 2012
CARBON MONOXIDE (CO)	mg/Nm <sup>3</sup>	0.1	-	IS 13270 RA 2019

REMARKS: :N.D.: NOT DETECTED

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		LAB REF NO		UES/23-24/ST/07606	
		DATE OF SAMPLING		11/09/2023	
		DATE OF RECEIPT		12/09/2023	
		DATE OF REPORT		16/09/2023	
		DATE OF ANALYSIS		START: 12/09/2023	END: 16/09/2023
<b>SAMPLE DETAILS</b>					
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 <sub>2</sub> : 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	167.0	-	IS 11255 (Part 3):2008
FLUE GAS VELOCITY	M/s	10.14	-	IS 11255 (Part 3):2008
TOTAL GAS QUANTITY	Nm <sup>3</sup> /h	88050.7	-	IS 11255 (Part 3):2008
TOTAL PARTICULATE MATTER (TPM)	mg/Nm <sup>3</sup>	37.2	50	IS 11255 (Part 1):1985, RA 2003
SULPHUR DIOXIDE (SO <sub>2</sub> )	mg/Nm <sup>3</sup>	180.4	600	IS 11255 (Part 2):1985, RA 2003
OXIDES OF NITROGEN (NO <sub>x</sub> )	mg/Nm <sup>3</sup>	118.5	300	IS 11255 (Part 7):2005, RA 2012
CARBON MONOXIDE (CO)	mg/Nm <sup>3</sup>	0.1	-	IS 13270 RA 2019

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