

## **ENVIRONMENTAL AUDIT**

The aim of the environmental audit is to identify, analyze and report the diversities of environmental entities prevalent in the premises and/or campus of the institution. This particular report assists in estimating the quality of the institution in terms of environmental sustainability.

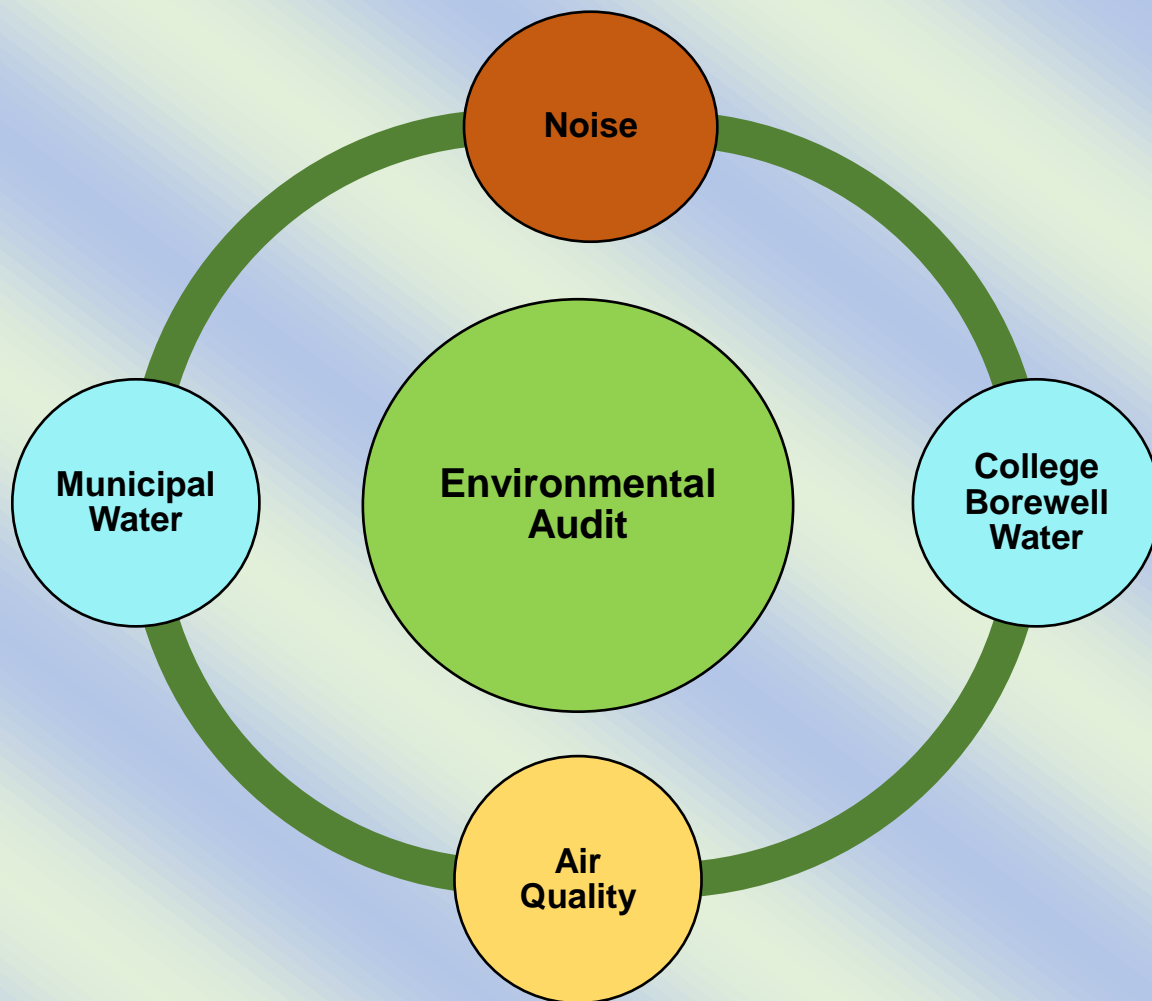
The following flow chart represents the audited entities of the college amenities namely:

**1. AAQM (Ambient Air Quality Monitoring)**

**2. Noise Level Monitoring**

**3. Water Quality Monitoring**

- a. Borewell Water Sample (From the College Campus)
- b. Municipal Water Sample (From the College Campus)





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 1986

<b>Name &amp; Address Of The Customer</b> <b>To,</b> <b>IQC, Govt. Arts &amp; Commerce Girl's</b> <b>Collage, Devendra Nagar,</b> <b>Raipur - 492001(C.G.)</b>	Report No.	UES/TR/21-22/2278	
	Lab Ref No.	UES/21-22/AAQM/4169-4170	
	Date of Sampling	28/05/2021	
	Date of Receipt	29/05/2021	
	Date of Report	03/06/2021	
	Date of Analysis	Start: 29/05/2021	End: 02/06/2021

SAMPLE DETAILS			
Monitoring For	Ambient Air Quality Monitoring		
Sampling Location	1. Near Admin Building	Latitude	21°15'28.59"N
	2. Near Basket Ball Ground	Longitude	81°38'52.60"E
		Latitude	21°15'29.48"N
		Longitude	81°38'54.66"E
Customer Ref. No. & Date	001/IQAC/21 DATED 14.05.2021		
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, Rubber Bladder: 1X1 No.		

### 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
Carbon Monoxide (CO)	IS:5182:(Part-10):1999, RA 2003

### TEST REPORT

Parameter	Unit	NAAQM Standard	Results	
			Near Main Gate	Near Shade No.03
PM <sub>10</sub>	µg/m <sup>3</sup>	100	62.8	58.2
PM <sub>2.5</sub>	µg/m <sup>3</sup>	60	26.0	22.0
SO <sub>2</sub>	µg/m <sup>3</sup>	80	10.4	8.6
NO <sub>2</sub>	µg/m <sup>3</sup>	80	26.0	24.8
CO	mg/m <sup>3</sup>	4.0	0.38	0.56

#### REMARKS: RESULTS ARE AS ABOVE

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





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	LAB REF NO.	UES/21-22/N/4171-4172
	DATE OF REPORT	03/06/2021
	DATE OF SAMPLING	28/05/2021 to 29/05/2021

#### SAMPLE DETAILS

Monitoring For	Noise Level Monitoring
Customer Ref. No. & Date	001/IQAC/21 DATED 14.05.2021
Sampling Location	1. Near Admin Building 2. Near Basket Ball Ground
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 Basket Ball Ground	dB(A)	52.0	48.6	75 dB (A)	70 dB (A)
Near Admin Building	dB(A)	60.8	52.5		

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		<b>Lab Ref No</b>		UES/21-22/W/4174	
		<b>Date Of Sampling</b>		28/05/2021	
		<b>Date Of Receipt</b>		29/05/2021	
		<b>Date Of Report</b>		03/06/2021	
		<b>Date of Analysis</b>		Start: 29/05/2021	End: 02/06/2021
<b>SAMPLE DETAILS</b>					
<b>Customer Ref. No. &amp; Date</b>		001/IQAC/21 DATED 14.05.2021			
<b>Customer Sample Id / Sampling Location</b>		Municipal Water			
<b>Sample Type</b>		Drinking Water	<b>Sample Condition At Receipt</b>		Ok
<b>Packing Of Sample</b>		Jerry can (Approx. 3 Ltr.) Glass Bottle (Approx. 1 Ltr.X2)	<b>Sample Collected By</b>		Laboratory Chemist
<b>Other Details</b>		Sealed	<b>Quantity Received</b>		Approx 5 Ltr. each

REPORT NO. 2281

## TEST REPORT

SR. NO.	PARAMETER	UNIT	METHOD OF TEST	AS PER IS 10500:2012		RESULT
				Acceptable Limit	Permissible limit	
						Municipal Water
1	Colour	Hazen	IS:3025: (Part-4)	5	15	<1
2	Odour	-	IS 3025 (part-5)	Agreeable	Agreeable	Agreeable
3	pH Value at 25.3°C	-	IS:3025: (Part-11)	6.5-8.5	No Relaxation	7.49
4	Taste	-	IS 3025 (part-8)	Agreeable	Agreeable	Agreeable
5	Conductivity	µS/Cm	IS 3025: (Part-14)	-	-	289.6
6	Total Dissolved Solids	mg/L	IS:3025: (Part-16)	500	2000	173.5
7	Chloride (as Cl)	mg/L	IS 3025: (Part-32)	250	1000	12.9
8	Turbidity	NTU	IS 3025: (Part-10)	1	5	3.89
9	Total Alkalinity (as CaCO <sub>3</sub> )	mg/L	IS 3025: (Part-23)	200	600	86.0
10	Total Hardness (as CaCO <sub>3</sub> )	mg/L	IS 3025: (Part-21)	200	600	96.0
11	Calcium (as Ca)	mg/L	IS 3025: (Part-40)	75	200	24.6
12	Magnesium (as Mg)	mg/L	IS 3025: (Part-46)	30	100	6.4
13	Sulphate (as SO <sub>4</sub> )	mg/L	IS 3025: (Part-24)	200	400	16.8
14	Fluoride (as F)	mg/L	IS 3025 (part-60)	1	1.5	0.12
15	Nitrate (as NO <sub>3</sub> )	mg/L	IS 3025 (part-34)	45	No Relaxation	3.6
16	Copper (as Cu)	mg/L	IS 3025 (part-42)	0.05	1.5	N.D.
17	Iron (as Fe)	mg/L	IS 3025 (part-53)	0.3	No Relaxation	N.D.
18	Zinc (as Zn)	mg/L	IS 3025 (part-49)	5	15	N.D.
19	Manganese (as Mn)	mg/L	IS 3025 (part-59)	0.1	0.3	N.D.
20	Cadmium (as Cd)	mg/L	IS 3025 (part-41)	0.003	No Relaxation	N.D.
21	Lead (as Pb)	mg/L	IS 3025 (part-47)	0.01	No Relaxation	N.D.





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SR. NO.	PARAMETER	UNIT	METHOD OF TEST	AS PER IS 10500:2012		RESULT <i>Municipal Water</i>
				Acceptable Limit	Permissible limit	
22	Chromium (as Cr)	mg/L	Annex J of IS:13428	0.05	No Relaxation	N.D.
23	Selenium (as Se)	mg/L	IS 3025 (part-56)	0.01	No Relaxation	N.D.
24	Arsenic (as As)	mg/L	IS 3025 (part-37)	0.01	0.05	N.D.
25	Mercury (as Hg)	mg/L	IS 3025 (part-48)	0.001	No Relaxation	N.D.
26	Barium (as Ba)	mg/l	Annex F of IS:13428	0.7	No Relaxation	N.D.
27	Free Residual Chlorine	mg/L	IS 3025 (part-26)	0.2	1	N.D.
28	Phenolic Compound (as C <sub>6</sub> H <sub>5</sub> OH)	mg/L	IS 3025 (part-43)	0.001	0.002	N.D.
29	Cyanide (as CN)	mg/L	IS 3025 (part-27)	0.05	No Relaxation	N.D.
30	Anionic Detergent (as MBAS)	mg/L	Annex K of IS:13428	0.2	1.0	N.D.
31	Mineral Oil	mg/l	IS 3025 (part-39)	0.5	No Relaxation	N.D.
32	Aluminium (as Al)	mg/L	IS 3025 (part-55)	0.03	0.2	N.D.
33	Boron (as B)	mg/l	IS 3025 (part-57)	0.5	1.0	N.D.
34	Total Coliform	MPN/100ml	IS:1622:1981:RA:2019	Shall not be detectable in any 100 ml sample		Absent
35	E. Coli	MPN/100ml	IS:1622:1981:RA:2019	Shall not be detectable in any 100 ml sample		Absent

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

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*Chakrav*  
03/06/2021  
PREPARED BY



For **ULTIMATE ENVIROLYTICAL SOLUTIONS**

*Chakrav*  
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-----End of the test report.-----





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		<b>Lab Ref No</b>	UES/21-22/W/4173	
		<b>Date Of Sampling</b>	28/05/2021	
		<b>Date Of Receipt</b>	29/05/2021	
		<b>Date Of Report</b>	03/06/2021	
		<b>Date of Analysis</b>	Start: 29/05/2021	End: 02/09/2021
<b>SAMPLE DETAILS</b>				
<b>Customer Ref. No. &amp; Date</b>	001/IQAC/21 DATED 14.05.2021			
<b>Customer Sample Id / Sampling Location</b>	Collage Campus			
<b>Latitude</b>	21°15'28.02"N	<b>Longitude</b>	81°38'53.99"E	
<b>Sample Type</b>	Borewell Water	<b>Sample Condition At Receipt</b>	Ok	
<b>Packing Of Sample</b>	Jerry can (Approx. 3 Ltr.) Glass Bottle(Approx. 1 Ltr.X2)	<b>Sample Collected By</b>	Laboratory Chemist	
<b>Other Details</b>	Sealed	<b>Quantity Received</b>	Approx 5 Ltr. each	

REPORT NO. 2280

## TEST REPORT

SR. NO.	PARAMETER	UNIT	METHOD OF TEST	AS PER IS 10500:2012		RESULT
				Acceptable Limit	Permissible limit	College Campus
1	Colour	Hazen	IS:3025: (Part-4)	5	15	<1
2	Odour	-	IS 3025 (part-5)	Agreeable	Agreeable	Agreeable
3	pH Value at 25.3°C	-	IS:3025: (Part-11)	6.5-8.5	No Relaxation	7.38
4	Taste	-	IS 3025 (part-8)	Agreeable	Agreeable	Agreeable
5	Conductivity	µS/Cm	IS 3025: (Part-14)	-	-	341.4
6	Total Dissolved Solids	mg/L	IS:3025: (Part-16)	500	2000	206.2
7	Chloride (as Cl)	mg/L	IS 3025: (Part-32)	250	1000	28.9
8	Turbidity	NTU	IS 3025: (Part-10)	1	5	0.94
9	Total Alkalinity (as CaCO <sub>3</sub> )	mg/L	IS 3025: (Part-23)	200	600	120.0
10	Total Hardness (as CaCO <sub>3</sub> )	mg/L	IS 3025: (Part-21)	200	600	148.0
11	Calcium (as Ca)	mg/L	IS 3025: (Part-40)	75	200	52.6
12	Magnesium (as Mg)	mg/L	IS 3025: (Part-46)	30	100	12.2
13	Sulphate (as SO <sub>4</sub> )	mg/L	IS 3025: (Part-24)	200	400	26.4
14	Fluoride (as F)	mg/L	IS 3025 (part-60)	1	1.5	0.08
15	Nitrate (as NO <sub>3</sub> )	mg/L	IS 3025 (part-34)	45	No Relaxation	6.2
16	Copper (as Cu)	mg/L	IS 3025 (part-42)	0.05	1.5	N.D.
17	Iron (as Fe)	mg/L	IS 3025 (part-53)	0.3	No Relaxation	0.08
18	Zinc (as Zn)	mg/L	IS 3025 (part-49)	5	15	N.D.
19	Manganese (as Mn)	mg/L	IS 3025 (part-59)	0.1	0.3	N.D.
20	Cadmium (as Cd)	mg/L	IS 3025 (part-41)	0.003	No	N.D.





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SR. NO.	PARAMETER	UNIT	METHOD OF TEST	AS PER IS 10500:2012		RESULT <i>College Campus</i>
				Acceptable Limit	Permissible limit Relaxation	
21	Lead (as Pb)	mg/L	IS 3025 (part-47)	0.01	No Relaxation	N.D.
22	Chromium (as Cr)	mg/L	Annex J of IS:13428	0.05	No Relaxation	N.D.
23	Selenium (as Se)	mg/L	IS 3025 (part-56)	0.01	No Relaxation	N.D.
24	Arsenic (as As)	mg/L	IS 3025 (part-37)	0.01	0.05	N.D.
25	Mercury (as Hg)	mg/L	IS 3025 (part-48)	0.001	No Relaxation	N.D.
26	Barium (as Ba)	mg/l	Annex F of IS:13428	0.7	No Relaxation	N.D.
27	Free Residual Chlorine	mg/L	IS 3025 (part-26)	0.2	1	N.D.
28	Phenolic Compound (as C <sub>6</sub> H <sub>5</sub> OH)	mg/L	IS 3025 (part-43)	0.001	0.002	N.D.
29	Cyanide (as CN)	mg/L	IS 3025 (part-27)	0.05	No Relaxation	N.D.
30	Anionic Detergent (as MBAS)	mg/L	Annex K of IS:13428	0.2	1.0	N.D.
31	Mineral Oil	mg/l	IS 3025 (part-39)	0.5	No Relaxation	N.D.
32	Aluminium (as Al)	mg/L	IS 3025 (part-55)	0.03	0.2	N.D.
33	Boron (as B)	mg/l	IS 3025 (part-57)	0.5	1.0	N.D.
34	Total Coliform	MPN/100ml	IS:1622:1981:RA:2019	Shall not be detectable in any 100 ml sample		Absent
35	E. Coli	MPN/100ml	IS:1622:1981:RA:2019	Shall not be detectable in any 100 ml sample		Absent

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

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*Thykers*  
03/06/2021  
PREPARED BY



For **ULTIMATE ENVIROLYTICAL SOLUTIONS**

*03/06/2021*  
AUTHORIZED SIGNATORY

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