



JCT
COLLEGE OF ENGINEERING
AND TECHNOLOGY

7 - INSTITUTIONAL VALUES AND BEST PRACTICES

7.1.6 - QUALITY AUDITS ON ENVIRONMENT AND ENERGY



JCT COLLEGE OF ENGINEERING AND TECHNOLOGY

GREEN AUDIT REPORT'22-23

INTRODUCTION:

Green Audit is a process of systematic identification, quantification, recording, reporting and analysis of components of environmental diversity of institute. It aims to analyse environmental practices within and outside of the concerned place, which will have an impact on the eco-friendly atmosphere. Green audit is a valuable means for a college to determine how and where they are using the most energy or water or other resources; the college can then consider how to implement changes and make savings. It can create health consciousness and promote environmental awareness, values and ethics. It provides staff and students better understanding of Green impact on campus. If self-enquiry is a natural and necessary outgrowth of a quality education, it could also be stated that institutional self-enquiry is a natural and necessary outgrowth of a quality educational institution. Thus it is imperative that the college evaluate its own contributions toward a sustainable future. As environmental sustainability is becoming an increasingly important issue for the nation, the role of higher educational institutions in relation to environmental sustainability is more prevalent. The rapid urbanization and economic development at local, regional and global level has led to several environmental and ecological crises. On this background it becomes essential to adopt the system of the Green Campus for the institutes which will lead for sustainable development and at the same time reduce a sizable amount of atmospheric CO₂ from the environment. The National Assessment and Accreditation Council, New Delhi (NAAC) has made it mandatory that all Higher Educational Institutions should submit an annual Green Audit Report. Moreover, it is part of Corporate Social Responsibility of the Higher Educational Institutions to ensure that they contribute towards the reduction of global warming through carbon footprint reduction measures.


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OBJECTIVES:

The Green Audit of an institution is becoming a paramount important these days for self-assessment of the institution, which reflects the role of the institution in mitigating the present environmental problems. The college has been putting efforts to keep the environment clean since its inception. But the auditing of this non-scholastic effort of the college has not been documented. Therefore, the purpose of the present green audit is to identify, quantify, describe and prioritize framework of Environment Sustainability in compliance with the applicable regulations, policies and standards.

The main objectives of carrying out Green Audit are:

1. To document the quality drinking water
2. The document the quality of recycled waste water for gardening
3. To document the solid Waste disposal system
4. To document the ambient environmental condition of air, water and noise in the campus.

METHODOLOGY:

The purpose of the green audit of NMIT is to ensure that the practices followed in the campus are in accordance with the Green Policy adopted at the institution. The methodology include the preparation physical inspection of the campus, observation and review of the documentation green audit parameters at intervals , interviewing key persons and data analysis, measurements and recommendations. Some data have also been taken from the students' project research works carried out by various engineering departments of the college.




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ABOUT THE COLLEGE

Shri Jagannath Educational Health and Charitable Trust was established by renowned and philanthropic people with an objective of providing education to all especially the down trodden and rural population. Considering the growing demands for technical education in the country the trust has started an engineering college namely JCT College of Engineering and Technology in Pichanur in Coimbatore for the academic year 2009-2010. The Management strives hard to enhance the professional knowledge, skills and attitudes of educators, so that they might in turn improve the learning process of students. The college aims at developing a deep understanding of the human values and social concerns among the engineering graduates. Students will be encouraged to get equipped and sensitized to understand full implications of their decisions, actions and ever inactions. Above all the college will promote Technical Education to meet the requirements of a developing nation in the context of global concern at the threshold of the twenty-first century. A team of educated, enlightened, experienced technocrats with vision, firmly determined to promote high quality of education will strive to provide every facility for achieving excellence.

Our Vision

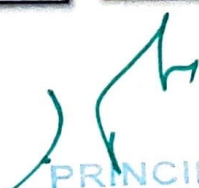
- ✓ To emerge as a Premier Institute for developing industry ready engineers with competency, initiative and character to meet the challenges in global environment.



Our Mission

- ✓ To impart state-of-the-art engineering and professional education through strong theoretical basics and hands on training to students in their choice of field.
- ✓ To serve our students by teaching them leadership, entrepreneurship, teamwork, values, quality, ethics and respect for others.
- ✓ To provide opportunities for long-term interaction with academia and industry.
- ✓ To create new knowledge through innovation and research.




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Green Audit Assessment Team

Sl. No	Name	Designation
1	Principal, JCTCET	Chairman
2	IQAC Director, JCTCET	Member
3	Dean Academic, JCTCET	Member
4	Estate Officer, JCTCET	Member
5	Professor & Head, Dept. of Civil Engg	Member Secretary
6	Assistant Professor, Dept. of Civil Engg.	Member




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Water Quality Assessment:

To cater the water requirement for the campus, two bore wells are used for the activities. However, in summer, to cater the additional shortage of water, a tanker from outside is hired to satisfy the needs of campus activities. The total quantity of water required for drinking is assessed for a population of 5000 students is assessed as 25000 litres per day. For hygienic drinking water, RO plants are installed in each block. Civil Engineering department tests the water every month. The committee inspects the working of filters monthly and the quality of water is verifying for suitability once in three months.

Drinking water indicators:

The following is a list of indicators often measured by situational category:

- Alkalinity
- Colour of water
- PH value
- Taste and odour
- Dissolved metals and salts (sodium, chloride, potassium, calcium, manganese, magnesium)

Air Quality& Noise Quality Monitoring:

Since air quality plays a vital role for good health. Air Quality monitoring instrument is used to monitor quarterly the criteria pollutants. The most important air quality parameters, which are measured, are NO₂, SO₂& PM₁₀. The other criteria pollutants such as Ozone, Carbon Monoxide and Lead are not measured because there are no nearby Industries located near the institute, which are emitting these pollutants. Noise equally plays a vital role in the environment; hence noise measurement is also done at the institute quarterly.





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WATER QUALITY ASSESSMENT REPORT




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Test Report



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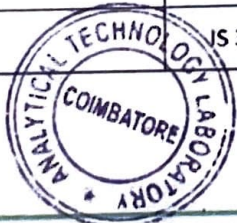
ULR No	TC734123000003020F	Report No	ATL/2023/04234	Report Date	10.04.2023
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Customer Name : JCT COLLEGE OF ENGINEERING AND TECHNOLOGY
Customer address : Pitchanur, Coimbatore - 641105

Sample Description : Drinking Water
Sample Code : ATL2310454
Sample Collected by : Laboratory
Sample Collected On : 10.04.2023
Received On :
Sample Quantity : 1 L X 1 Nos
Group : Water

Sample type : Water
Analysis Started on :
Analysis Completed on :

SL.NO	Parameters	Method of Reference	Results	Units	Requirements as per IS 10500:2012	
					Acceptable Limit	Permissible Limit
1	Odour	IS 3025 (Part 5):2018	Agreeable	-	Agreeable	Agreeable
2	pH value @25°C	IS 3025 (Part 11):2022	7.10	-	6.5 - 8.5	No relaxation
3	Specific Conductivity@ 25°C	IS 3025 (Part 14):2013	186	µs/cm	--	--
4	Turbidity	IS 3025 (Part 10):1984	BDL (DL:0.1)	NTU	1	5
5	Total Suspended Solids (TSS)	IS 3025 (Part 17) 1984	BDL (DL:2)	mg/L	--	--
6	Total dissolved solids	IS 3025 (Part 16):1984	104	mg/L	500	2000
7	Total hardness (as CaCO ₃)	IS 3025 (Part 21):2009	79	mg/L	200	600
8	Total Alkalinity (as CaCO ₃)	IS 3025 (Part 23):1986	20	mg/L	200	600
9	Calcium (as Ca)	IS 3025 (Part 40) 1991	11.4	mg/L	75	200
10	Magnesium (as Mg)	IS 3025 (Part 46) 1994	21	mg/L	30	100
11	Chloride (as Cl)	IS 3025 (Part 32):1988	35	mg/L	250	1000
12	Sulphate (as SO ₄)	IS 3025 (Part 24) Sec 1 :2022	6.4	mg/L	200	400
13	Iron (as Fe)	IS 3025 (Part 53):2003	BDL (DL:0.01)	mg/L	0.3	No relaxation
14	Fluoride (as F)	IS 3025 (Part 60):2008	0.01	mg/L	1.0	1.5
15	Nitrate (as NO ₃)	IS 3025 (Part 34) 1988	0.22	mg/L	45	No relaxation
16	Nitrite (as NO ₂)	IS 3025 (Part 34):1988	BDL (DL:0.005)	mg/L	45	No relaxation



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ULR No	TC734123000003021F	Report No	ATL/2023/04235	Report Date	09.10.2023
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Customer Name : JCT COLLEGE OF ENGINEERING AND TECHNOLOGY
Customer address : Pitchanur, Coimbatore - 641105

Sample Description : Sewage Raw Water

Sample Code : ATL23110455

Sample Collected by : Laboratory (ATL-SA-SOP-005)

Sample Collected On : 09.10.2023

Received On :

Sample Quantity : 1 L X 1 Nos

Group : Water

Sample type : Water

Analysis Started on :

Analysis Completed on :

SLNO	Parameters	Method of Reference	Results	Units
1	pH value @25°C	IS 3025 (Part 11):2022	7.67	-
2	Total Suspended Solids (TSS)	IS 3025 (Part 17) 1984	330	mg/L
3	Biological Oxygen Demand(BOD 20°C for 5 days)	APHA 23 rd Edition – 5210 B: 2017	52	mg/L
4	Chemical Oxygen Demand (COD)	APHA 23 rd Edition – 5220 B: 2017	202	mg/L

For, Analytical Technology Laboratory



Gourishankar Manikrao
Technical Manager
Authorized signatory

*** End of Report***

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AIR QUALITY ASSESSMENT REPORT




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ULR No	TC7341230000003007F	Report No	ATL/2023/04221	Report Date	19.06.2023
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Customer Name : JCT COLLEGE OF ENGINEERING AND TECHNOLOGY

Customer address : Pitchanur, Coimbatore - 641105

Sample Description : Air Quality

Sample Code : ATL23110441

Sample Collected by : Laboratory

Sample Collected On : 19.06.2023

Received On :

Group : Atmospheric Pollution

Sample type : Ambient Air Quality-1

Analysis Started on :

Analysis Completed on :

Sl.No	Parameters	Test Method	Result	Units	NAAQ Standards
1	Particulate Matter (PM ₁₀)	IS 5182 (Part 23) : 2006	63.5	µg/m ³	100
2	Particulate Matter (PM _{2.5})	IS 5182 (Part 24) : 2019	27.4	µg/m ³	50
3	Carbon Monoxide as CO	IS 5182 (Part 10) : 1999	BDL (DL : 0.1)	mg/m ³	4
4	Sulphur Dioxide as SO ₂	IS 5182 (Part 2) : 2001	8.5	µg/m ³	80
5	Nitrogen Dioxide as NO ₂	IS 5182 (Part 6) : 2006	17.7	µg/m ³	80
6	Ammonia as NH ₃	IS 5182 (Part 25) : 2018	BDL (DL : 5)	µg/m ³	400
7	Ozone as O ₃	IS 5182 (Part 9) : 1974	BDL (DL : 1)	µg/m ³	180
8	Lead as Pb	NAAQMS/36/2012-13 (Vol-I PP 48-55)	BLQ (LOQ : 0.001)	µg/m ³	1
9	Arsenic as As		BLQ (LOQ : 1.0)	µg/m ³	6
10	Nickel as Ni		BLQ (LOQ : 1.0)	µg/m ³	20
11	Benzene	ATL-CH-SOP-027	BLQ (LOQ : 0.008)	µg/m ³	5
12	Benzo (a) pyrene	ATL-CH-SOP-026	BLQ (LOQ : 0.02)	ng/m ³	1

For, Analytical Technology Laboratory





Gourishankar Manikrao
Technical Manager
Authorized signatory

Note: BDL: Below Detection Limit,
BLQ: Below Limit of Quantification

DL : Detection limit
LOQ : Limit of Quantification
*** End of Report***

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ULR No	TC7341230000003008F	Report No	ATL/2023/04222	Report Date	04.12.2023
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Customer Name : JCT COLLEGE OF ENGINEERING AND TECHNOLOGY
Customer address : Pichanur, Coimbatore - 641105

Sample Description : Air Quality
Sample Code : ATL23110442
Sample Collected by : Laboratory (ATL-SA-SOP-005)
Sample Collected On : 04.12.2023
Received On :
Group : Atmospheric Pollution

Sample type : Ambient Air Quality-2
Analysis Started on :
Analysis Completed on :

Sl.No	Parameters	Test Method	Result	Units	NAAQ Standards
1	Particulate Matter (PM ₁₀)	IS 5182 (Part 23) : 2006	58.2	µg/m ³	100
2	Particulate Matter (PM _{2.5})	IS 5182 (Part 24) : 2019	23.4	µg/m ³	60
3	Carbon Monoxide as CO	IS 5182 (Part 10) : 1999	BDL (DL : 0.1)	mg/m ³	4
4	Sulphur Dioxide as SO ₂	IS 5182 (Part 2) : 2001	7.9	µg/m ³	80
5	Nitrogen Dioxide as NO ₂	IS 5182 (Part 6) : 2006	17.5	µg/m ³	30
6	Ammonia as NH ₃	IS 5182 (Part 25) : 2018	BDL (DL : 5)	µg/m ³	400
7	Ozone as O ₃	IS 5182 (Part 9) : 1974	BDL (DL : 1)	µg/m ³	180
8	Lead as Pb	NAAQMS/36/2012-13 (Vol-I PP 48-55)	BLQ (LOQ : 0.001)	µg/m ³	1
9	Arsenic as As		BLQ (LOQ : 1.0)	µg/m ³	6
10	Nickel as Ni		BLQ (LOQ : 1.0)	µg/m ³	20
11	Benzene	ATL-CH-SOP-027	BLQ (LOQ : 0.008)	µg/m ³	5
12	Benzo (a) pyrene	ATL-CH-SOP-026	BLQ (LOQ : 0.02)	ng/m ³	1

For, Analytical Technology Laboratory

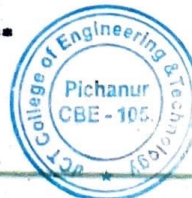


Gourishankar Manikrao
Technical Manager
Authorized signatory

Note: BDL: Below Detection Limit,
BLQ: Below Limit of Quantification

DL : Detection limit
LOQ : Limit of Quantification

*** End of Report***
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ULR No	TC7341230000003011F	Report No	ATL/2023/04225	Report Date	19.06.2023
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Customer Name : JCT COLLEGE OF ENGINEERING AND TECHNOLOGY
Customer address : Pitchanur, Coimbatore - 641105

Sample Description : Air Quality
Sample Code : ATL23110445
Sample Collected by : Laboratory
Sample Collected On : 19.06.2023
Received On :
Group : Atmospheric Pollution

Sample type : Indoor Air Quality-1
Analysis Started on :
Analysis Completed on :

Sl.No	Parameters	Test Method	Result	Units	OSHA/ACGIH Standards
1	Particulate Matter (PM)	NIOSH 0600 : 1984	0.058	mg/m ³	10
2	Carbon Dioxide as CO ₂	ATL-CH-SOP-032	945	mg/m ³	9000
3	Carbon Monoxide as CO	ATL-CH-SOP-033	2.5	mg/m ³	57.3
4	Sulphur Dioxide as SO ₂	ATL-CH-SOP-037	BDL(DL:0.02)	mg/m ³	13.1
5	Nitrogen Dioxide as NO ₂	ATL-CH-SOP-039	0.026	mg/m ³	9.41
6	Oxygen as O ₂	ATL-CH-SOP-031	20.9	%	>19.5



For Analytical Technology Laboratory

Gourishankar Manikrao
Technical Manager
Authorized signatory

Note: BDL: Below Detection Limit,

DL : Detection limit

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ULR No	TC7341230000003011F	Report No	ATL/2023/04225	Report Date	19.06.2023
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Customer Name : JCT COLLEGE OF ENGINEERING AND TECHNOLOGY
Customer address : Pitchanur, Coimbatore - 641105

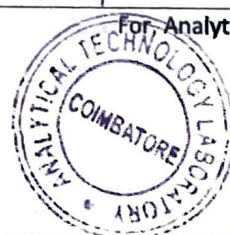
Sample Description : Air Quality
Sample Code : ATL23110445

Sample Collected by : Laboratory
Sample Collected On : 19.06.2023

Received On :
Group : Atmospheric Pollution

Sample type : Indoor Air Quality-1
Analysis Started on :
Analysis Completed on :

Sl.No	Parameters	Test Method	Result	Units	OSHA/ACGIH Standards
1	Particulate Matter (PM)	NIOSH 0600 : 1984	0.058	mg/m ³	10
2	Carbon Dioxide as CO ₂	ATL-CH-SOP-032	945	mg/m ³	9000
3	Carbon Monoxide as CO	ATL-CH-SOP-033	2.5	mg/m ³	57.3
4	Sulphur Dioxide as SO ₂	ATL-CH-SOP-037	BDL(DL:0.02)	mg/m ³	13.1
5	Nitrogen Dioxide as NO ₂	ATL-CH-SOP-039	0.026	mg/m ³	9.41
6	Oxygen as O ₂	ATL-CH-SOP-031	20.9	%	>19.5



For Analytical Technology Laboratory

Gourishankar Manikrao
Technical Manager
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NOISE QUALITY ASSESSMENT REPORT




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ULR No	TC7341230000003017F	Report No	ATL/2023/04231	Report Date	19.06.2023
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Customer Name : JCT COLLEGE OF ENGINEERING AND TECHNOLOGY
Customer address : Pitchanur, Coimbatore - 641105

Sample Description : Ambient Noise – Day Time
Sample Code : ATL23110451
Sample Monitored by : Laboratory
Sample Monitored On : 19.06.2023
Analysis Completed on :
Group : Atmospheric Pollution

Sample type : Noise dB(A)
Analysis Started on :

Sl.No	Parameter & Location	Test Method	Result	Units	TNPCB Industrial Area Standards – Day Time
1	East Side of the Plant	IS 9989 : 1981	65.8	dB(A)	75
2	West Side of the Plant	IS 9989 : 1981	59.9		
3	South Side of the Plant	IS 9989 : 1981	55.1		
4	North Side of the Plant	IS 9989 : 1981	60.2		
5	North East Side of the Plant	IS 9989 : 1981	65.4		
6	South East Side of the Plant	IS 9989 : 1981	53.6		
7	North West Side of the Plant	IS 9989 : 1981	56.2		
8	South West Side of the Plant	IS 9989 : 1981	54.3		

For, Analytical Technology Laboratory



Gourishankar Manikrao
Technical Manager
Authorized signatory

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ULR No	TC7341230000003018F	Report No	ATL/2023/04232	Report Date	04.12.2023
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Customer Name : JCT COLLEGE OF ENGINEERING AND TECHNOLOGY
Customer address : Pitchanur, Coimbatore - 641105

Sample Description : Work Zone Noise

Sample Code : ATL23110452

Sample Monitored by : Laboratory

Sample Monitored On : 04.12.2023

Analysis Completed On :

Group : Atmospheric Pollution

Sample type : Noise dB(A)

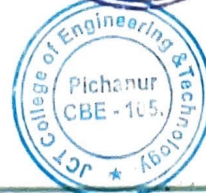
Analysis Started on :

Sl.No	Locations	Test Method	Result	Units	The Factory Act 1948 Standards
1	Chiller Area	IS 9989 : 1981	77.1	dB(A)	90
2	Injection Moulding Area (EN 04)	IS 9989 : 1981	77.3		
3	Injection Moulding Area (EN 33)	IS 9989 : 1981	81.0		
4	Injection Moulding Area (EN 28)	IS 9989 : 1981	80.7		
5	Injection Moulding Area (EN 10)	IS 9989 : 1981	78.3		
6	Assembly Section (Ground Floor)	IS 9989 : 1981	72.7		
7	Assembly Section (Ground Floor)	IS 9989 : 1981	79.1		
8	Fettling Area	IS 9989 : 1981	67.2		
9	Auto Machine Section	IS 9989 : 1981	85.0		
10	Tool Room	IS 9989 : 1981	69.0		
11	Sparking Machine	IS 9989 : 1981	70.3		
12	Surface Grinding Machine	IS 9989 : 1981	75.8		
13	Mould Assembly Area	IS 9989 : 1981	74.1		
14	Grinding Area	IS 9989 : 1981	80.2		
15	Diesel Generator – 140 KVA	IS 9989 : 1981	77.6		
16	Diesel Generator – 750 KVA	IS 9989 : 1981	81.9		

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