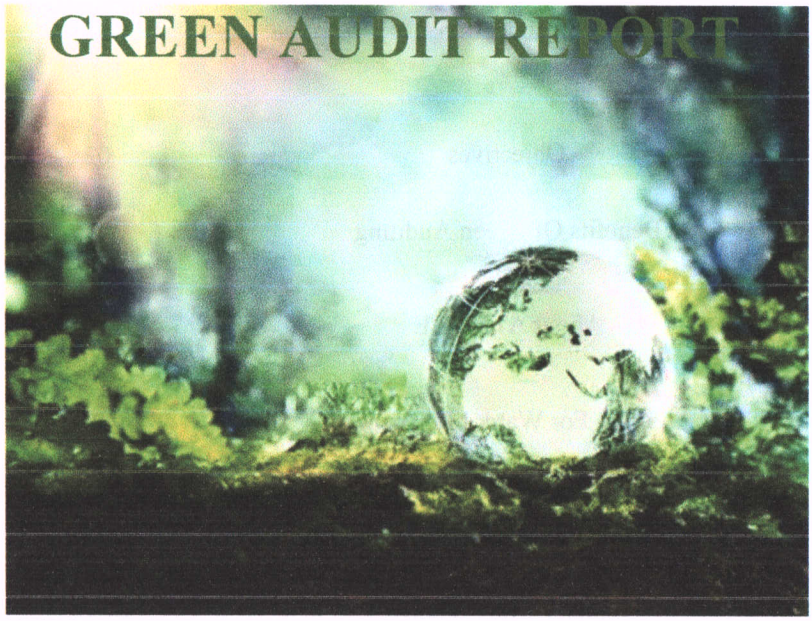
ATME COLLEGE OF ENGINEERING
MYSURU



"Conserve to Serve"

ATME
College of Engineering

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PRINCIPAL
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13th KM Mysuru-Kanakapura-Bangalore Road
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INTRODUCTION:

Green Audit is a process of systematic identification, quantification, recording, reporting and analysis of components of environmental diversity of various establishments. It aims to analyze environmental practices within and outside of the concerned sites, which will have an impact on the eco-friendly ambience. The green audits are tools that organizations use to identify their environmental impacts and assess their compliance with applicable laws and regulations, as well as with the expectations of their various stakeholders. It can also be used to determine the type and volume of waste, which can be used for a recycling project or to improve waste minimization plan. 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. In recent time, the Green Audit of an institution has been becoming a paramount important for self-assessment of the institution which reflects the role of the institution in mitigating the present environmental problems.

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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. The purpose of the 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. To secure the environment and cut down the threats posed to human health
3. The document the quality of recycled waste water for gardening
4. To avoid the interruptions in environment that are more difficult to handle

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BENEFITS OF GREEN AUDITING:

1. Empower the organizations to frame a better environmental performance.
2. More efficient resource management.
3. Benchmarking for environmental protection initiatives.
4. To provide basis for improved sustainability.
5. To create a green campus.
6. To enable waste management through reduction of waste generation, solid- waste and water recycling.
7. To create plastic free campus.
8. Recognize the cost saving methods through waste minimizing and managing.
9. Point out the prevailing and forthcoming complications.
10. Enhance the alertness for environmental guidelines and duties.
11. Impart environmental education through systematic environmental management approach and improving environmental standards.
12. Green auditing should become a valuable tool in the management and monitoring of environmental and sustainable development programs of the college.

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ABOUT THE ATMECE

ATME college of Engineering established in the year 2010 and one among the top 10 colleges in Mysuru. The ATME has created futuristic infrastructure with 3 lakh square feet of area and is permanently affiliated to Visvesvaraya Technological University, Belgaum.

ATMECE has state of the art infrastructure, augments learning which significant concern of the institution. Each academic block has well ventilated, spacious classrooms, tutorial room's laboratories catering to the complete VTU syllabus and beyond, staff rooms, rest rooms, etc. to meet all the curriculum, staff and student requirements. The Department of Civil Engineering is emerging as one of the fastest growing branches by imparting quality education to the students in all the major areas of Civil Engineering. The department offer B.E program in Civil Engineering with a yearly intake of 60 students .All the faculties in the department are well qualified with experience from both teaching and industry. A number Faculty Development Programs are conducted regularly to inculcate the technical skills, soft skills and the research. Further, the department encourages the students to participate in external and internal conferences, workshops, invited lectures and seminars along with extra-curricular/co-curricular activities like technical fests, sports/games, cultural fests, Annual Alumni Meets, to ensure overall development, nurturing of team spirit and organizational skills.

The infrastructural facilities are augmented in line with the increased demand. The department has sufficient class room and most of them are equipped with multimedia projectors. The department also had its own seminar hall and 8 well equipped laboratories. The department has set up its own library. The vibrant environment coupled with the Clean-Green campus ensures the all-round development of the students. Each lab is handled by one faculty supported by a co-faculty. Also, every lab has a lab instructors/technical assistant, who provides constant support and ensures maintenance of the laboratories. Every equipment in the lab is barcoded and the records of the same are maintained. In Software lab, all the computers are in working condition and LCD projectors with wi-fi connections are provided. Enough number of personal computers are available for the smooth conduction of the lab. All equipment is always checked for wear and tear and replaced with new or repaired one every semester. Before the commencement of every semester faculties used to ensure the availability of required software/equipment for the smooth conduction of the labs. Labs are equipped with sufficient hardware and licensed software to run program specific curriculum and off program curriculum. The number and area of the class rooms and labs are as per the AICTE

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norms. Research lab is provided with four computers with Wi-fi connections. Department has its own seminar hall with LCD projector and screen with Wi-fi connections. The infrastructure also provides rest room for both girls and boys with all water facilities. The infrastructure also boasts of extensive Sports facilities. Adequate infrastructure has been provided for students to take part in extra-curricular activities.

VISION:

Development of academically excellent, culturally vibrant, socially responsible and globally competent human resources.

MISSION:

- To keep pace with advancements in knowledge and make the students competitive and capable at the global level
- To create an environment for the students to acquire the right physical, intellectual, emotional and moral foundations and shine as torchbearers of tomorrow's society
- To strive to attain ever higher bench marks of educational excellence.

TOTAL CAMPUS AREA AND COLLEGE BUILDING SPREAD AREA

Campus Area	**10.28 Acres**
Build Up Area	**15,829 Sqmt**
Tree Covering	**11,018 Sqmt**
Free Space	**10,268 Sqmt**

COLLEGE BUILT UP AREA

Area Type	Built-up Area (in Sq.m)
Instructional	10,801
Administrative	2,330
Amenities	2,008
Library	690
Total Built-up Area	**15,829**

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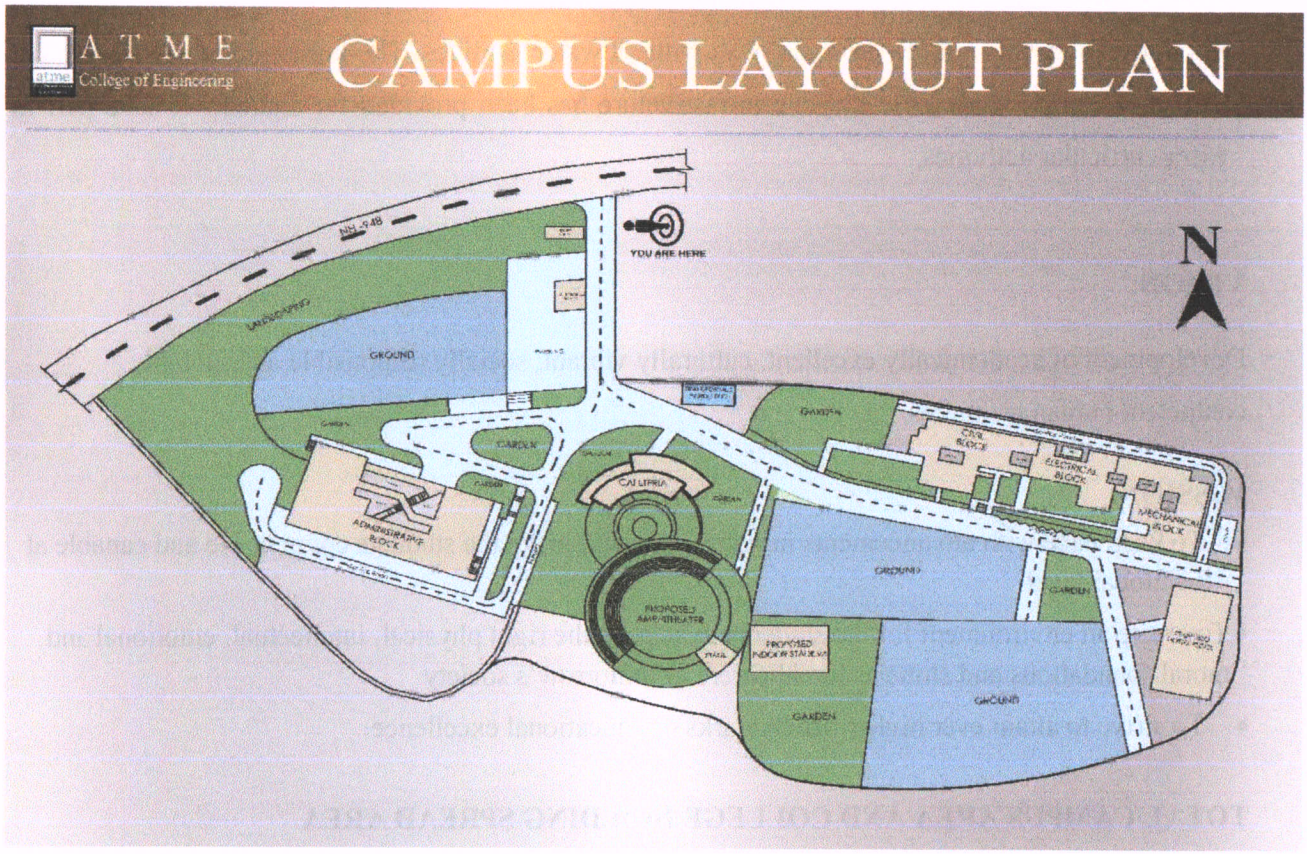
BUILDING LAYOUT



CAMPUS INFRASTRUCTURE:

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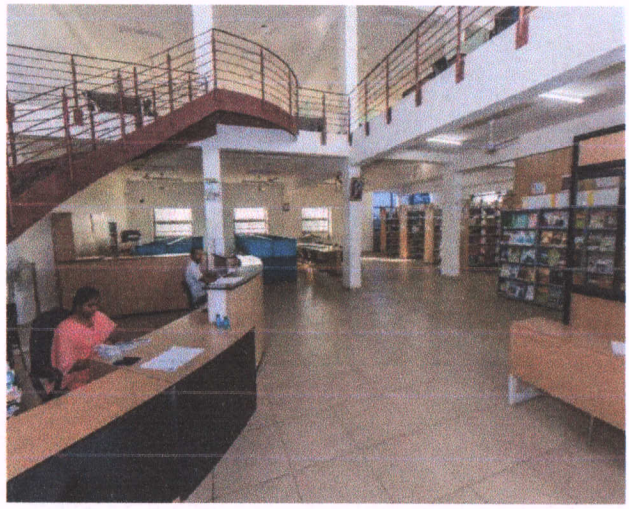

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AUDITING FOR WATER MANAGEMENT

The purpose of a water audit report is to provide an assessment of current usage of water and to provide a roadmap towards fluctuations in the water usage in future. Water audit is an assessment of how much water is used and how much water can be saved in the college. Conducting a water audit involves calculating water use and identifying simple ways for saving water in the college. In many places people have difficult access to drinking water and other utility purposes, since often it is polluted with many ways. Water auditing is a mechanism for conserving water, which will grow in significance in the future as demand for water increases. There is a strong emphasis on principles, and on the relationship of water auditing with associated activities like environmental auditing, environmental management systems, resource conservation, flow measurement, water quality and legal frameworks.

Water usage need to be monitored or reducing the consumption of water which inturn reduces the cost. Water audits provide a way to catalogue all water uses in a facility and identify ways to increase water use efficiency. The results can help to prioritize steps to implement cost-effective water-saving measures. It is possible to cut the water usage by as much as 30 percent by implementing simple conservation measures and without drastically modifying the lifestyle. Water auditing is conducted for the evaluation of facilities of raw water intake and determining the facilities for water treatment and reuse. The rainwater harvesting process of collecting water, treating and reuse of water concept is in process and will be implemented soon in the college. RO process is adopted in college to get water which is fit for drinking's sake.

OVERALL UTILIZATION OF WATER IN COLLEGE

Sections	Water Use/day
Drinking	20 m^3
Gardening	8 m^3
Toilets and urinals	8 m^3
Laboratories	5m^3
Leakages	4 m^3

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Green Audit :1- Water management

Team Members Name:

Sl No.	Name	Department	Designation
1	Dr Suneeth Kumar S.M.	Civil Engineering	Professor
2	NAMITHA A P	Civil Engineering	Assistant Professor
3	Dr AVINASH K	Chemistry (Chemicals)	Assistant Professor
4	PRASHANTH C	Civil Engineering	Assistant Instructor
5	RAGHU M	Mechanical Engineering	Assistant Professor
6	MADESHA S	Mechanical Engineering (Lab Waste)	Foreman
7	PRADEEP KUMAR Y	Electronics And Communication Engineering (E Waste)	Assistant Professor

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Campus Trees:

Common Name	No. of plants	Types
Sky jasmine	150	show plants
Phams	30	show plants
Bamboo	170	show plants
Garden grass Bermoda		show plants
MLA plant	700	show plants
Arabian jasmine	25	show plants
Orchid tree	3	show plants
Nerium tree	35	show plants
Magnolia champaca	4	show plants
Rudraksha tree	1	show plants
Dabbehullu	30	show plants
white dasavala	20	show plants
Red dasavala	20	show plants
Lanton plant	250	show plants
bouganvilla	250	show plants
Wild agave	4	show plants
pendas	150	show plants
brasia	12	show plants
ficus panda	350	show plants
ficus black	15	show plants
alphiniya purpureta	15	show plants
acalifa red	300	show plants
durantha verigeted	30	show plants
tecoma	75	show plants
fishtail plam	15	show plants
arentammam red	30	show plants
drecina	80	show plants
wasingtoniya	6	show plants
mainarecta plant	80	show plants
goladen cypres	35	show plants
altranetramov plant	300	show plants
cyscas revalutta	1	show plants
nuivda	175	show plants
tecoma plant	125	show plants
almonda	150	show plants
turpet wine	160	show plants
legastromiya megapotamica plant		show plants
travlae palm	18	show plants
bismargia	2	show plants
goldan turmpet tree	3	show plants
pulmbago	45	show plants
reaphis plam	30	show plants

maniplant singoniyam	25	show plants
exora drwf	27	show plants
goldan mellulace	9	show plants
spider lilly	170	show plants
scaflora	75	show plants
Neem tree	300	herbal plants
burflower tree	15	herbal plants
Tulsi plant	15	herbal plants
Aloe vera plant	3	herbal plants
Purple tree	15	Fruit trees
Jack fruit	12	Fruit trees
Star gooseberry	5	Fruit trees
Pomegranate	4	Fruit trees
Mango tree	10	Fruit trees
Almond plant	25	Fruit trees
Coconut tree	10	Fruit trees
Guava tree	6	Fruit trees
Papaya tree	8	Fruit trees
Moringa oleifera	2	vegetables garden
Areca catechu tree	5	vegetables garden
Singapore Cherries	13	vegetables garden
Wild onions	125	vegetables garden
Silver tree	400	
Magnet tree	60	
melia dubia tree	200	
Pongam tree	35	
Sagone tree	25	
kadu tree	200	
Disambiguation plant	3000	
Duranta plant	250	
Rojol plant	250	
Umbrella tree	10	
Peepal tree	5	
Banyan tree	2	
Vachellia nilotica subsp tree	2	
sandal wood	4	
Hoddale plant	1000	
Deciduous tree	6	
Diplocyclos palmatus	18	
Basri tree	1	
Nagadali	5	
Total Trees	**10,266**	

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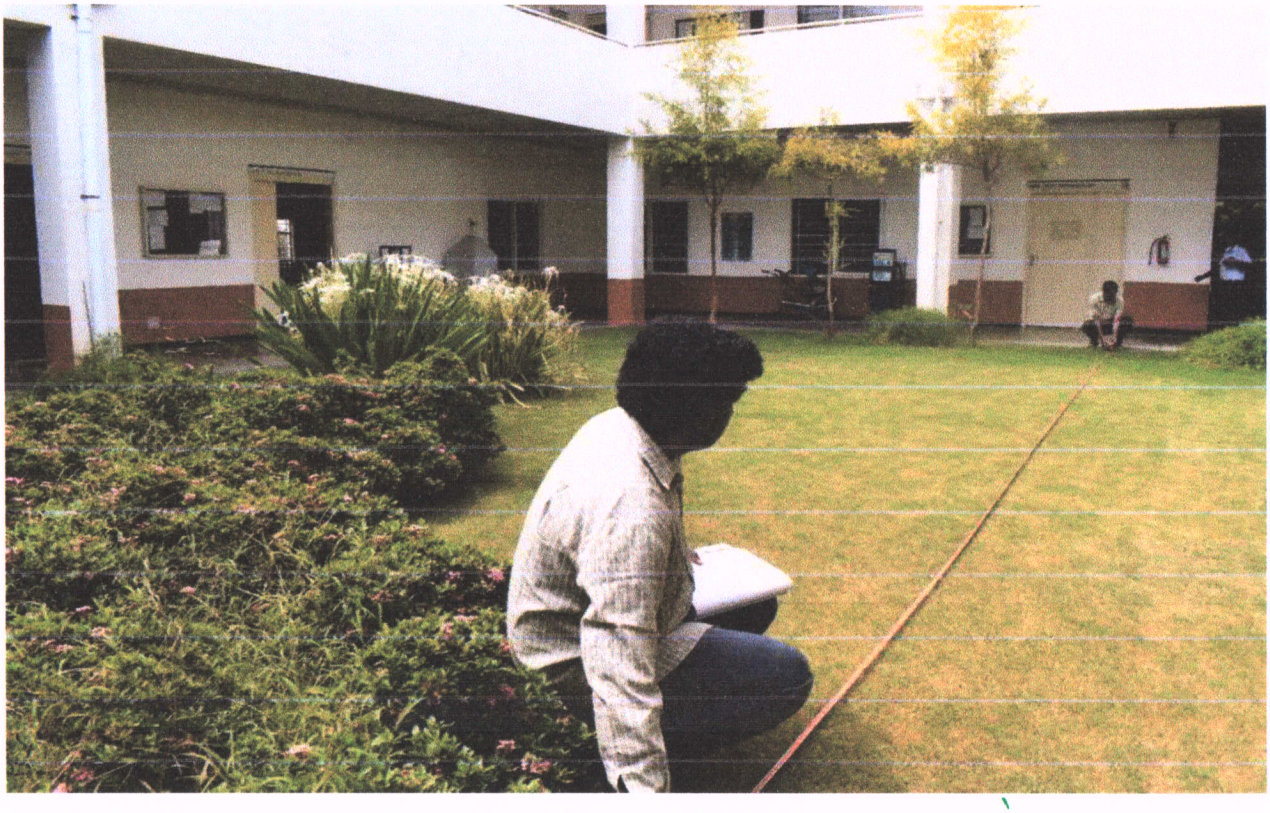

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Water Quality Related Document & Assessment Report

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Water Analysis of Drinking Water
Analysis carried out at Dept. of Civil Engineering, ATMECE.

Description of Sample taken :

Date	06-Aug-2019	**Tested on**	06-Aug-2019
Type	Drinking Water	**Time**	11:00 am

Sl.No	Parameters	Standard Limits	Result
1	Colour	Transparent	Transparent
2	Odour	Unobjectionable	Nil
3	Turbidity (NTU)	5	0
4	pH	6.5 – 8.5	7.1
5	Hardness	≤ 300 ppm	23
6	Specific Conductance	0.5-50 µS/m	0.73
7	Total Dissolve Solids	250-350 ppm	75
8	DO	0-12 mg/L	4.2
9	Chlorides	250-1000 mg/L	25
10	Fluorides	0-1.5 mg/L	0
11	Nitrites	1-10 mg/L	0
12	Nitrates	0-40 mg/L	4.4

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Dept of Civil Engineering

Dr. Avinash. K
Asst Professor
Dept of Chemistry

HOD
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Water Analysis of Drinking Water
Analysis carried out at Dept. of Civil Engineering, ATMECE.

Description of Sample taken :

Date	05-Sept-2019	**Tested on**	05-Sept-2019
Type	Drinking Water	**Time**	11:00 am

Sl.No	Parameters	Standard Limits	Result
1	Colour	Transparent	Transparent
2	Odour	Unobjectionable	Nil
3	Turbidity (NTU)	5	0
4	pH	6.5 – 8.5	6.9
5	Hardness	≤ 300	24
6	Specific Conductance	0.5-50 µS/m	0.68
7	Total Dissolve Solids	250-350 ppm	71
8	DO	0-12 mg/L	4.1
9	Chlorides	250-1000 mg/L	23
10	Fluorides	0-1.5 mg/L	0
11	Nitrites	1-10 mg/L	0
12	Nitrates	0-40 mg/L	4.1

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Water Analysis of Drinking Water
Analysis carried out at Dept. of Civil Engineering, ATMECE.

Description of Sample taken :

Date	10-Oct-2019	**Tested on**	10-Oct-2019
Type	Drinking Water	**Time**	11:00 am

Sl.No	Parameters	Standard Limits	Result
1	Colour	Transparent	Transparent
2	Odour	Unobjectionable	Nil
3	Turbidity (NTU)	5	0
4	pH	6.5 – 8.5	7.2
5	Hardness	≤ 300	24
6	Specific Conductance	0.5-50 µS/m	0.71
7	Total Dissolve Solids	250-350 ppm	73
8	DO	0-12 mg/L	3.9
9	Chlorides	250-1000 mg/L	24
10	Fluorides	0-1.5 mg/L	0
11	Nitrites	1-10 mg/L	0
12	Nitrates	0-40 mg/L	4.2

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Description of Sample taken :

Date	05-Nov-2019	**Tested on**	05-Nov-2019
Type	Drinking Water	**Time**	11:00 am

Sl.No	Parameters	Standard Limits	Result
1	Colour	Transparent	Transparent
2	Odour	Unobjectionable	Nil
3	Turbidity (NTU)	5	0
4	pH	6.5 – 8.5	7.1
5	Hardness	≤ 300	22
6	Specific Conductance	0.5-50 µS/m	0.72
7	Total Dissolve Solids	250-350 ppm	72
8	DO	0-12 mg/L	4.1
9	Chlorides	250-1000 mg/L	24
10	Fluorides	0-1.5 mg/L	0
11	Nitrites	1-10 mg/L	0
12	Nitrates	0-40 mg/L	4.1

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Water Analysis of Drinking Water
Analysis carried out at Dept. of Civil Engineering, ATMECE.

Description of Sample taken :

Date	04-Dec-2019	**Tested on**	04-Dec-2019
Type	Drinking Water	**Time**	11:00 am

Sl.No	Parameters	Standard Limits	Result
1	Colour	Transparent	Transparent
2	Odour	Unobjectionable	Nil
3	Turbidity (NTU)	5	0
4	pH	6.5 – 8.5	6.8
5	Hardness	≤ 300	21
6	Specific Conductance	0.5-50 µS/m	0.69
7	Total Dissolve Solids	250-350 ppm	71
8	DO	0-12 mg/L	4.2
9	Chlorides	250-1000 mg/L	23
10	Fluorides	0-1.5 mg/L	0
11	Nitrites	1-10 mg/L	0
12	Nitrates	0-40 mg/L	3.9

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Water Analysis of Drinking Water
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Description of Sample taken :

Date	06-Jan-2020	**Tested on**	06-Jan-2020
Type	Drinking Water	**Time**	11:00 am

Sl.No	Parameters	Standard Limits	Result
1	Colour	Transparent	Transparent
2	Odour	Unobjectionable	Nil
3	Turbidity (NTU)	5	0
4	pH	6.5 – 8.5	7.2
5	Hardness	≤ 300	23
6	Specific Conductance	0.5-50 µS/m	0.71
7	Total Dissolve Solids	250-350 ppm	72
8	DO	0-12 mg/L	3.8
9	Chlorides	250-1000 mg/L	23
10	Fluorides	0-1.5 mg/L	0
11	Nitrites	1-10 mg/L	0
12	Nitrates	0-40 mg/L	4.1

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