

## Audit Completion Certificate

This is to certify that Environment, Energy and Green Audits were conducted for the academic year 2020-2021 at Mohamed Sathak AJ College of Engineering, (MSAJCE) Sipcot IT Park, Siruseri 603103. Areas of Audit were Water Management, Solid waste Management, Carbon Footprint, Energy Management and Green Campus.

The IQAC Coordinator has submitted necessary data and documents for scrutiny. Based on the data provided and observations, it has been found that the college has implemented systems and processes needed to ensure coverage of all areas of audit namely awareness, environment protection, conservation and sustainability. As a part of the audit, we have suggested improvements in the areas mentioned. The details are documented and available in the Audit Report.

  
Audited By  
TrustedSCM Solutions LLP



Certificate No.  
19/IN/1020415/0733 - CQI IRCA

Date : 28<sup>th</sup> May 2021  
Place: Chennai





**PRINCIPAL**  
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# ENVIRONMENT AUDIT – Water Management

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2020-21



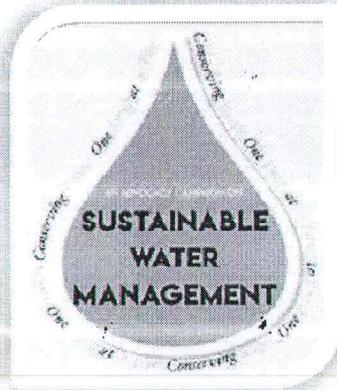
**MOHAMED SATHAK**  
**A. J. COLLEGE OF ENGINEERING**  
**SIRUSERI IT PARK, OMR, CHENNAI 603 103**

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# WATER MANAGEMENT AUDIT REPORT

2020-21



*Mohamed Sathak A.J.*

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**Chennai-603 103.**

## **I. Water Management**

### **Need**

Water which is precious natural resource available with fixed quantum. The availability of water is decreasing due to increasing population of nation, as per capita availability of utilizable water is going down. Due to the ever rising standard of living of people, industrialization, urbanization, demand of fresh water is increasing day by day. The unabated discharge of industrial effluent in the available water bodies is reducing the quality of the sample sources of water continuously. Hence, the national mission on water conservation was declared by the then Hon. Prime Minister appealed to all citizens to collectively address the problem of water shortage, by conserving every drop of water and suggested for conducting water audit for all sectors of water use. A water audit is an onsite survey & assessment to determine and improve efficiency of water use.

### **Audit Parameters**

Following are the key parameters used in water management audit:

1. Sources of water
2. Quality of water
3. Measurement & Consumption
4. Waste water disposal
5. Awareness and communication
6. Best Practices
7. Suggestions/ Recommendations

  
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## Observation and Inferences

### 1. Sources of water

Source	Nos	Depth - feet
Open well	2	42 around 30ft diameter

### 2. Water Quality

#### a) Testing of water sources:

- The water from the open well and bore well sources is pumped and stored in overhead tanks before being fed to the utilities.
- The TDS of this water is tested periodically at the RO plant and is found suitable for usage.
- It is being used as it is for all general purposes like washrooms, canteen and labs for cleaning purposes

#### b) Purification methods

- There is a well maintained RO plant of 1000 liters capacity. RO water per day of 2000 liters is generated for drinking purposes.
- These readings are found to be consistent
- The reject water from the RO plant is collected separately and used for watering the garden
- RO Water quality has been tested in a laboratory and test reports are attached.
- The test report shows that all parameters are well within the permissible limits

  
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### 3. Measurement and Consumption

The utilities for water are 2 Hostels, Mess, Canteen, Gardening and RO plant.  
The Mess and canteen are located inside the college campus.

- Quantity of water used per day - 25,000 liters
- Overhead tank capacity - 18 No's, 338,500liters
- Sump capacity - 3 No's, 55,000 liters
- Water flow meter installed - No

Water Consumption pattern	In liters
1.Hostel (----- students/----liters)	6,500
2.Mess, Canteen (Cooking & Washing)	
3.Construction & Gardening	
4.Day's scholars (utilities & drinking)	4,000
<b>Total usage / day</b>	<b>25,00</b>

*Water consumption per-capita ~liters per day*

### 4. Water Conservation

Sl No	Desired conservation methods	Observation
1	Rain water Harvesting (RWH)	Implemented
2	Water level indicators/ controllers	Yet to be done
3	Water Flow meters	Yet to be done
4	Re-cycling of waste water	Implemented
5	No leaky taps/ pipes/ joints	Water taps and pipes are well maintained
6	Automatic taps & urinals	Yet to be done
7	Drip irrigation	Yet to be done
8	Re-use of RO reject water	Implemented

*Wsh*

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## 5. Waste water disposal

For recycling of waste water, Sewage Treatment Plant (STP) is implemented. The treated water is used for gardening purpose

## 6. Awareness and Communication

Trusted SCM conducted a quiz on all topics to the students and staff of MSAJCE. The summary of the quiz is in the Annexure 1. Two questions in the quiz were pertaining to Water management. 76% of the answers were correct

## 7. Best Practices

- Rain Water Harvesting(RWH) properly implemented
- Sewage Treatment Plant (STP) is in place, treated water is used for gardening
- Implemented RO Plant and treated water is re-cycled
- Water conservation awareness slogans are displayed at water outlets to save water

## 8. Suggestions & Recommendations

- ✓ Water consumption to be measured using flow meters. Measurement will help in looking at ways to reduce usage
- ✓ To avoid overflowing / wastages from Over Head Tanks, sensor system to be installed
- ✓ Automated or Spray type taps could be used to reduce usage/ wastage of water
- ✓ Rain water harvesting (RWH) pits to be closed to avoid garbage from outside



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ACCREDITED BY NABL AS PER ISO/IEC 17025 : 2005

Report No: 211239801

Page 1 of 1

**Issued To,**  
THE PRINCIPAL,  
Mohamed sathak A.J.college of Engineering,  
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Chennai-603103, Tamil Nadu.  
Ph: +91 - 8610337011

**Submitted Sample**  
Date of Report : 04.01.2022  
Received on : 29.12.2021  
Commenced on : 29.12.2021  
Completed on : 04.01.2022

Sample Referred by : Ram Water Technologies (+91 – 9941033777)  
Place of Supply : Tamil Nadu  
Sample Code No : T 21 12 398-01  
Sample Name : Water Sample  
Sample Identification : Raw Water

Sl. No	Test Parameters	Unit	Result	Requirement Limit as per IS 10500:2018		Test Method
				Acceptable Limit (Max)	Permissible Limit in the absence of other source (Max)	
<b>I</b>	<b>Chemical Examination:</b>					
1	Appearance	–	Clear	–	–	Visual Examination
2	pH @ 25°C	–	7.97	6.5 – 8.5	–	IS 3025 Part 11 1983 RA 2017
3	Colour	Hazen	1.0	5	15	IS 3025 Part 4 2021
4	Odour	–	Agreeable	Agreeable	Agreeable	IS 3025 Part 5 2018
5	Turbidity	NTU	0.10	1	5	IS 3025 Part 10 1984 RA 2017
6	Electrical Conductivity @ 25°C	µS/cm	837	–	–	IS 3025 Part 14 2013 RA 2019
7	Total Suspended Solids	mg/l	Nil	–	–	IS 3025 Part 17 1984 RA 2017
8	Total Dissolved Solids	mg/l	527	500	2000	IS 3025 Part 16 1984 RA 2017
9	Total Hardness as CaCO <sub>3</sub>	mg/l	315	200	600	IS 3025 Part 21 2009 RA 2019
10	Calcium Hardness as CaCO <sub>3</sub>	mg/l	233	–	–	IS 3025 Part 40 1991 RA 2019
11	Magnesium Hardness as CaCO <sub>3</sub>	mg/l	81	–	–	IS 3025 Part 46 1994 RA 2019
12	Calcium as Ca	mg/l	94	75	200	IS 3025 Part 40 1991 RA 2019
13	Magnesium as Mg	mg/l	20	30	100	IS 3025 Part 46 1994 RA 2019
14	Phenolphthalein Alkalinity as CaCO <sub>3</sub>	mg/l	Nil	–	–	IS 3025 Part 23 1986 RA 2019
15	Total Alkalinity as CaCO <sub>3</sub>	mg/l	309	200	600	IS 3025 Part 23 1986 RA 2019
16	Chloride as Cl <sup>-</sup>	mg/l	148	250	1000	IS 3025 Part 32 1988 RA 2019
17	Sulphate as SO <sub>4</sub>	mg/l	51	200	400	IS 3025 Part 24 1986 RA 2019
18	Total Iron as Fe	mg/l	0.094	0.30	No Relaxation	IS 3025 Part 53 2003 RA 2019
19	Silica as SiO <sub>2</sub>	mg/l	31.4	–	–	IS 3025 Part 35 1988 RA 2019
20	Residual Free Chlorine	mg/l	BDL (DL-0.10)	0.2	1.0*	IS 3025 Part 26 2021
21	Carbonate Hardness as CaCO <sub>3</sub>	mg/l	309	–	–	IS 3025 Part 21 2009 RA 2019
22	Non- Carbonate Hardness as CaCO <sub>3</sub>	mg/l	6.0	–	–	IS 3025 Part 21 2009 RA 2019
<b>II</b>	<b>Microbiological Examination:</b>					
1	Coliform	–	<b>Present</b>	Shall not be detectable in any 100 ml of Sample.		IS 1622 : 1981 RA 2019
2	E.Coli	–	<b>Absent</b>			IS 1622 : 1981 RA 2019

\*\*\*\* End of Report\*\*\*\*

\* To be applicable only when water is Chlorinated. ; BDL-Below Detection Limit DL-Detection Limit

Remarks: The Submitted Sample of Water **does not meet** the Chemical requirement of Permissible Limit in the absence of other source as per IS:10500:2018 Drinking Water Specification , with respect to the above tested Parameters.

ss  
Verified by

*(Signature)*  
Authorized Signatory

**Terms and Conditions**

- The Test Results relate only to the items tested.
- This Test Report shall not be reproduced anywhere except in full and in the same format without the written approval of GLIPL.
- The tested items will not be retained for more than 15 days from the date of issue of Test Report unless otherwise agreed with the Customer or as required by the applicable regulations.
- The Laboratory's responsibility under this report is limited to proven willfull negligence and will in no case be more than the invoiced amount.

W. GAYATHRI DEVI  
**PRINCIPAL**  
**MOHAMED SATHAK A.J.COLLEGE OF EN**  
14, Rajiv Gandhi Road (OMR), Siruseri, IT  
Chennai-603 103.



Report No: 211239901

Page 1 of 1

**Issued To,**  
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5	Turbidity	NTU	0.10	1	5	IS 3025 Part 10 1984 RA 2017
6	Electrical Conductivity @ 25°C	µS/cm	125	–	–	IS 3025 Part 14 2013 RA 2019
7	Total Suspended Solids	mg/l	Nil	–	–	IS 3025 Part 17 1984 RA 2017
8	Total Dissolved Solids	mg/l	81	500	2000	IS 3025 Part 16 1984 RA 2017
9	Total Hardness as CaCO <sub>3</sub>	mg/l	49	200	600	IS 3025 Part 21 2009 RA 2019
10	Calcium Hardness as CaCO <sub>3</sub>	mg/l	37	–	–	IS 3025 Part 40 1991 RA 2019
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22	Non- Carbonate Hardness as CaCO <sub>3</sub>	mg/l	Absent	–	–	IS 3025 Part 21 2009 RA 2019
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\*\*\*\* End of Report\*\*\*\*

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Remarks: The Submitted Sample of Water **meets** the Chemical requirement of Permissible Limit in the absence of other source as per IS:10500:2018 Drinking Water Specification , with respect to the above tested Parameters.

ss  
Verified by

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*Wsh*

*Datri*  
Authorized Signatory

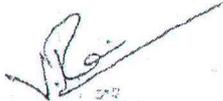
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N. GAYATHRI DEVI  
Area Engineer-xv  
Chennai Metropolitan Water Supply  
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K.K.SALAI  
SHOLINGANALLUR, CHENNAI-600 119.

## Audit Completion Certificate

This is to certify that Environment, Energy and Green Audits were conducted for the academic year 2020-2021 at Mohamed Sathak AJ College of Engineering, (MSAJCE) Sipcot IT Park, Siruseri 603103. Areas of Audit were Water Management, Solid waste Management, Carbon Footprint, Energy Management and Green Campus.

The IQAC Coordinator has submitted necessary data and documents for scrutiny. Based on the data provided and observations, it has been found that the college has implemented systems and processes needed to ensure coverage of all areas of audit namely awareness, environment protection, conservation and sustainability. As a part of the audit, we have suggested improvements in the areas mentioned. The details are documented and available in the Audit Report.

  
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 Chennai

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Date : 28<sup>th</sup> May 2021  
 Place: Chennai

  
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# GREEN CAMPUS AUDIT

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2020-21



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# GREEN CAMPUS AUDIT REPORT

2020-21

A handwritten signature in blue ink, appearing to be 'Dsh' followed by a horizontal line.

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## Green Campus

### Need

Trees play an important ecological role within the urban environment, as well as support improved public health and provide aesthetic benefits to cities. In one year, a single mature tree will absorb up to 48 pounds of carbon dioxide from the atmosphere, and release it as oxygen. The amount of oxygen released by the trees of the campus is good for the people in the campus. So while you are busy studying and working on earning those good grades, all the trees in campus are also working hard to make the air cleaner for you.

Green Campus is an environment which improves energy efficiency, conserving resources and enhancing environmental quality by educating for sustainability and creating healthy living and learning environments. Green Campus rewards long term commitment to continuous environmental improvement from the campus community.

### Audit Parameters

Following are the key parameters used in Green campus:

1. Greencover
2. Identification and classification of vegetation
3. Best Practices
4. Awareness and communication
5. Suggestions and Recommendations



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### **Observation and Inferences**

- Total area of campus: 75 acres
- Open area available:
- Green Cover with trees, flowering plants area: 44,000 sq.ft. (tree canopy)
- Bio-diversity greenery with 20% is covered with trees, herbs & approx.
- Availability of a variety of vegetation including a few large trees has encouraged birds, insects and small animals like squirrels to find refuge in the campus
- Botanical garden work is under progress
- In-house composite manure system in place for garden purpose
- Two full-time gardeners are engaged in maintenance of garden
- Regular Green Environment awareness programs are conducted

### **Awareness and communication**

- Displayed plants common name and botanical name
- Trusted SCM conducted a quiz on all topics to the students and staff of MSAJCE. The summary of the quiz is in the Annexure 1. Two questions in the quiz were pertaining to Greenery and bio-diversity. 88% of the answers were correct



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### **Best Practices**

- ✓ Excellent & well maintained Garden with varieties of trees and plants
- ✓ Manure obtained from compost yard which is in turn fed by the organic waste and STP sludge from the college

### **Suggestions & Recommendations**

- Conduct competitions among departments for making students more interested in making the Campus green
- A separate herbal garden or vegetable garden can be developed with student participation.

### **Bio diversity**

- ✓ Due to the large volume of greenery in the campus, it attracts birds and other species.
- ✓ It is recommended that the institution identify the flora / fauna and record it.
- ✓ A photography contest may be conducted among the students for capture different species.



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### List of Trees with Botanical and Tamil Name

SI No	Common name	Botanical name	Tamil name	Category	Qty - nos
1	Palm Tree	<i>Areceaceae</i>	Panai	Tree	12
2	Neem	<i>Azadirachta indica</i>	Veepamaram	Tree	14
3	Coconut Tree	<i>Cocos nucifera</i>	Thenna	Tree	8
4	Drumstick	<i>Moringa oleifera</i>	Murungai	Tree	5
5	Ashoka Tree	<i>Polyalthia longifolia</i>	Asoka	Tree	10
6	Peepal Tree	<i>Ficus religiosa</i> Linn.	Arasa	Tree	4
7	Teak Tree	<i>Tectona grandis</i>	Tekku maram	Tree	4
8	Royal Palm	<i>Roystonea regia</i>	Arasapanai	Tree	10
9	Vilvam Tree (Bilva)	<i>Aegle marmelos</i>	Vilva maram	Tree	2
10	Banana	<i>Musa paradisiacum</i>	Vaazhai	Tree	9
11	Mango	<i>Mangifera indica</i>	Maa	Tree	5
12	Orange	<i>Citrus aurantium</i>	Narthangai	Tree	1
13	Sapota Tree	<i>Manilkara zapota</i>	Sappota	Tree	2
14	Naval Tree	<i>Syzygium cumini</i>	Naval	Tree	12
15	Guava	<i>Psidium guava</i>	Goyya	Tree	6
16	Papaya	<i>Carica papaya</i>	pappali	Tree	6
17	Pear Tree	<i>Pyrus</i>	Prikkay maram	Tree	1
18	Octopus Tree	<i>Schefflera actinophylla</i>	Octopus maram	Tree	4
19	Mahna Tree	<i>Madhucal longifolia</i>	Ilupai	Tree	2
20	Persian Silk Tree	<i>Albizia julibrissin</i>	Vaakai	Tree	6
21	Ilupai Maram	<i>Madhucal longifolia</i>	Ilupai	Tree	8
22	Yellow Flame Tree	<i>Peltophorum pterocarp</i>	Medicinal maram	Tree	15
23	Mahogany	<i>Swietenia</i>	Mahokani	Tree	1
24	Pouruma Tree	<i>Pouroumacecropiifolia</i>	Pouruma maram	Tree	7
25	Malabar Silk-Cotton	<i>Bombax liba tree</i>	Ellava maram	Tree	1
26	Malacca Tree	<i>Phyllanthus spectinatus</i>	Mallacca maram	Tree	1
27	Traveller's tree	<i>Ravenala fan plam</i>	Panai maram	Tree	4
28	Caribbean Royal Palm	<i>Roy stoneaolercea</i>	Bottle palm	Tree	12
29	Henna (Mehndi)	<i>Lawsonia inermis</i>	Marudhani	Plant	4
30	Curry Leaf	<i>Murraya koenigii</i>	Kariveppilai	Plant	2
31	Lemon	<i>Citrus limonium</i>	Elimichai	Plant	3
32	Mint	<i>Mentha arvensis</i>	Pudina	Plant	2



Sl No	Common name	Botanical name	Tamil name	Category	Qty -
33	Miracle Gardent	<i>Codiaeumvariegatum</i>	Croton cedi	Ornamental Plant	2
34	Mangolya	<i>Magnolia Grandiflora</i>	Champaka	Ornamental Plant	4
35	Ornamental Tree	<i>corymbiafificifolia</i>	Alankara maram	Ornamental Plant	1
36	Tulsi / Holy Basil	<i>Ocimumtenuiflorum</i>	Thulasi	Medicinal Plant	1
37	Snake Plant	<i>Sansevieriaroxburghiana</i>	PaambuKatrzhai	Medicinal Plant	1
38	Aloe Vera	<i>Aloe barbadensis miller</i>	Kattrazhi	Medicinal plant	1
39	Kuppaimeni Plant	<i>Acalyphaindica</i>	kuppaimeni	Medicinal Plant	2
40	Prickly malvastrum	<i>Malvastrumcoromandelianum</i>	Punnakkukkirai	Medicinal Plant	8
41	Gale Of Wind	<i>Phyllanthusniruri</i>	Gale Of Wind	Medicinal plant	4
42	Little Ironweed	<i>cyanthillium plant</i>	Puvamkuruntal	Medicinal plant	5
43	Succulent Plant	<i>Gibium</i>	Saatruthavaram	Medicinal plant	3
44	Sacred Fig	<i>Ficusreligiosa</i>	Ashwatham	Medicinal Plant	6
45	Long Pepper	<i>Piper longum</i>	thippili	Medicinal plant	5
46	Bamboo	<i>Bamboosaaridinarifolia</i>	moongil	Grass	2
47	Korean Grass	<i>Zoysiatenuifolia</i>	Koriean pull	Grass	3
48	Buwie Buffalo Grass	<i>Boutelouadactyloides</i>	Erumai Pull	Grass	1

Area. Inspired by me.

A. Anand  
Forester (SFRI)

R. ad  
Range Officer  
Vandalur Research Range  
Koiapakkam, Chennai - 127

W. h. —

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