

GREEN POLICY

Preamble

St. Joseph's college of education for women envisions a Clean and Green campus by providing opportunities to students to participate in environment friendly activities and motivating environmental awareness among them. The green campus and environment policy aims to adopt, practice and promote the values of environmental education and awareness in several innovative measures to ensure sustainable practices among the youth so as to behave with positive attitude towards nature and inculcate the idea of being environment conscious in all their actions to save and protect the planet. The policy will be coordinated by Eco-club.

Scope

This policy applies to all the stake holders of St. Joseph's of College for Women, Management, Staff, Students and all those who use the campus, to adhere to the Green policy and the code stated here in.

Members

The implementing team will have the following members.

1. Principal
2. Deans
3. Coordinator / Convener Eco club
4. Eco club Faculty members
5. Outreach Coordinator
6. Student coordinators:
 - a. President- SQAC
 - b. Vice President - SQAC
 - c. Eco club/NSS/NCC/Science club student coordinators and volunteers.

Roles and Responsibilities

- The institutional Eco club shall perform the role of overall planning, executing and monitoring of all the above-mentioned eco-friendly initiatives of the institution.

- Promote environment consciousness and sustainability among stake holders and neighborhood community
- Implement Twin Bin system for waste segregation and effective waste management in the campus to minimize pollution
- All the departments shall undertake green initiatives or adopt green practices
- Practice water conservation measures
- Use energy efficient equipment and also take measures to save energy
- The Head of the Organization, Department Heads including Management Representatives are responsible for monitoring the go green initiatives of the College and maintain a clean/green campus.
- staff and student volunteers from Eco clubs, Science club, NCC, NSS and Outreach units are also responsible for the implementation of the green campus and environment policy in the Organization.

Objectives

- To grow a large number of plants which are producing more amount of oxygen and absorbing more amount of carbon-di-oxide in the campus.
- To create a pollution-free environment through a proper waste management system and to set a procedure for disposal of all kinds of wastes and increase green cover to provide pollution free air, working as a carbon sink.
- To ensure that the campus is greener in terms of planting a large number of trees, herbs, shrubs, climbers, twins and lawns which in turn not only to reduce the environmental pollution and soil erosion but also useful for biodiversity conservation, landscape management, proper water irrigation, natural topography and vegetation.
- To Implement the green campus initiatives by means of environmentally friendly practices and education combined to promote sustainable and eco-friendly practices in the campus
- To Use alternative energy systems such as solar energy, biogas plant, sensor-based energy conservation and the use of LED bulbs/power-efficient equipment towards energy audit practice
- Pollution free environment through the restricted entry of automobiles, use of bicycles/battery-powered vehicles, pedestrian-friendly pathways, ban on the use of plastics and landscaping with trees and plants.
- Water conservation through rainwater harvesting, bore well recharge, and construction of tanks.
- **Policy markers**

Cleanliness on the campus is maintained through proper disposal of wastes and steps taken to recycle the biodegradable wastes. Utilization of eco-friendly supplies and

an effective recycling programme to maintain the campus free from hazardous wastes. The concept of eco-friendly culture is disseminated among the students as well as neighbourhood community through various awareness programmes, seminars / conferences reuse and recycle the waste materials. Attempts are made to limit energy usage and also replace non-renewable energy sources with renewable energy sources.

Effective measures/plans

Initiatives Taken to Implement the Clean and Green Campus Policy

The Institution is committed to managing its campus in accordance with its Clean and Green Campus Policy by establishing the administrative set up, infrastructure and the following will be done

- Clean and Green campus
- Ban on Single-Use Plastic
- 30 Kv. Solar Plant in the College
- Use of LED Bulbs/Tubes and Power Efficient Equipments
- Paperless Office and Communication
- Environmental Air Quality Monitoring
- Establishment of 'Continuous Ambient Air Quality Monitoring Station'
- Solid Waste Management
- Hazardous Chemical Waste Management
- Water Management
- E-waste Management
- Display Boards to Promote Environmental Sensibility on College Campus
- Installation of Incinerator in the Girls' Common Room
- Observance of Days to protect and Nurture Environment
- The Green, Environmental and Energy Audit
- Dedicated Section for the Environment Consciousness in a creative Wall Magazine Landscaping with Trees and Plants
- Awareness events, rallies, field visits
- Inter and intra collegiate competitions

Clean and Green campus

- The Institution shall take measures to make members aware of the significance of greenery and cleanliness in the campus. As per the policy the college will do Landscaping by planting with trees, shrubs and herbs to have a green cover area more than 30% in all the available places in the campus

- Strive to create a nature ecosystem containing native & wild plants, butterflies and birds so as to conserve biodiversity A separate places hall be allocated for college garden, medicinal plants, herbs and vegetables
- Grow a large number of oxygen producing and carbon-di-oxide absorbing plants
- Educate the importance of environment, water, air, soil, energy, hygiene and etc. to the students and staff members
- Education on the commitment to plastic-free, grow more trees, maintain the nature topology and vegetation and minimize the electrical energy

Green Practices in Academic and administrative processes

- In all academic and administrative processes, eco-friendly practices shall be pursued
 - Online payments and fee transactions shall be promoted
 - Online communications shall been courage at all levels-email, e-notices
 - In house learning management system shall be updated periodically to promote blended learning wherein references, course content, notes, syllabi, question banks, study material are stored and shared on thee-platform.
 - Component of Online exams shall be included and on screen evaluation increased gradually
 - E Certifications for National seminars, conferences, cultural activities shall been encouraged
 - The college shall reduce use of paper by preferring e- magazines, e prospectus e-services and e-circulars
- The use of paper will substantially be reduced through digitization.

Environment friendly campus

- Providing eco-friendly atmosphere to all the stakeholders
- Providing good drinking water facility to the students and staff
- Eliminate all non-compostable, single-use disposable plastic items in the campus
- Avoid single-use plastic utensils, plastic straw sand stirrers
- Educate staff and students about plastic-free alternatives
- Create awareness and promote proper disposal of wastes, recycle and implement suitable waste management system
- Automobiles not permitted inside the campus and allowed only up to the parking area
- Pedestrian-friendly pathways

Energy efficient campus

The college shall undertake Energy conservation, energy efficiency and reduction in energy consumption measures at all possible levels

- Encourage use of bicycles, battery operated vehicles, public transport and carpooling.
- Alternative energy resources like use of solar, bio gas will be encouraged
- Rain water harvesting pits shall be maintained to increase the level of groundwater
- All fluorescent and sodium vapour lamps to be replaced with LED bulbs
- Power-efficient equipment-like only Energy/star rated refrigerators, air conditioners, microwaves shall be procured
- The building is already built with a plan to operate with natural lighting and sufficient cross ventilation so as to avoid artificial lighting and cooling, this strategy would be followed in all new constructions as well
- Sensor based energy conservation mechanism for lights shall be used to minimize electricity usage

Waste Management System in the campus

The institution strives to implement effective waste management strategies at all possible levels

Solid waste Management

- Implement twin bin system to segregate waste into degradable and non-degradable waste
- Adopt composting methods and use the compost as bio fertilizer in garden and other plantation areas in the campus
- Hand over the dry-waste like paper and plastic waste for Recycling.
Maintain organic manure pit and vermi composting pit
- Incinerator shall be used to dispose sanitary napkins Microbial cultures shall be autoclaved and disposed
- E-waste like non repairable CPU's, monitors, keyboards and other electronic items will be collected and handed over to recycling units at regular intervals.

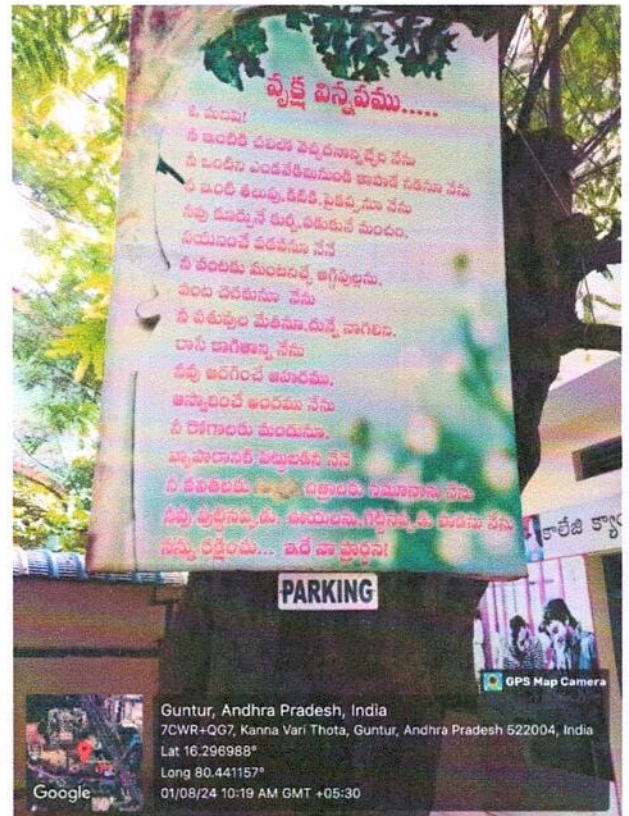
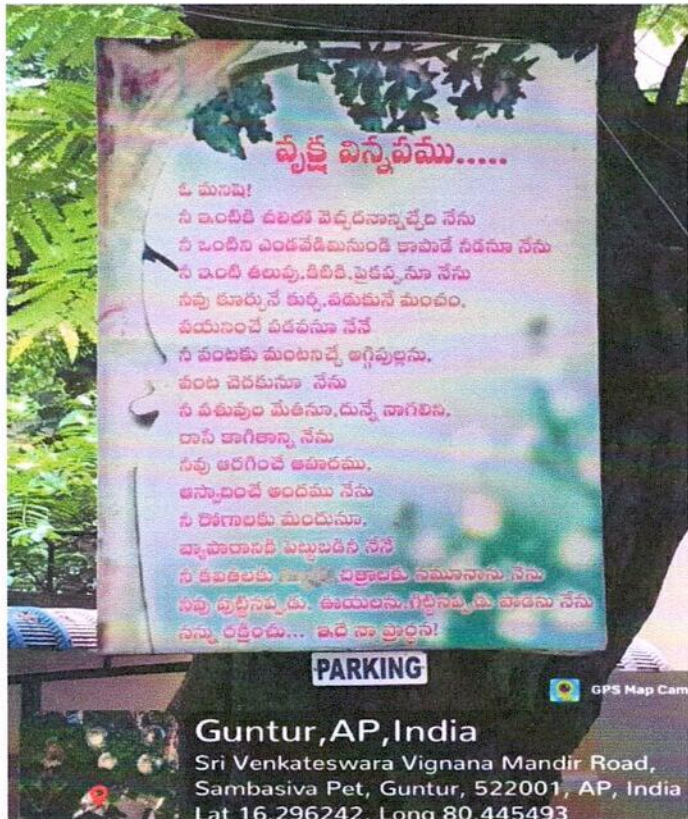
Quality Audits

- Implement 'Green campus audit', 'Environment audit' and 'Energy audit' practice in the College.
- Dissemination of eco-friendly culture through seminars / conferences / workshops.
- Creation of rain harvesting system and construction of storage tanks and bunds inside the campus.

Implement the green campus motto with the vision of Swachh Bharat Abhiyan (HARITHA SOBHITHA) under Clean India Mission.

Plea of trees

At the entrance of the gate .we can observe one note “plea of trees “vruksha vinnapam. It brings the notice of urgent need for tree plantation and conservation in our community .trees are vital to our environment providing oxygen, improving air quality.

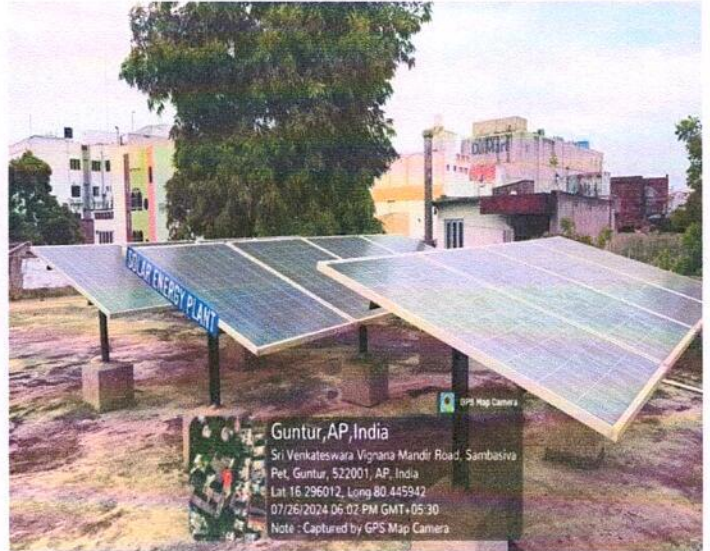
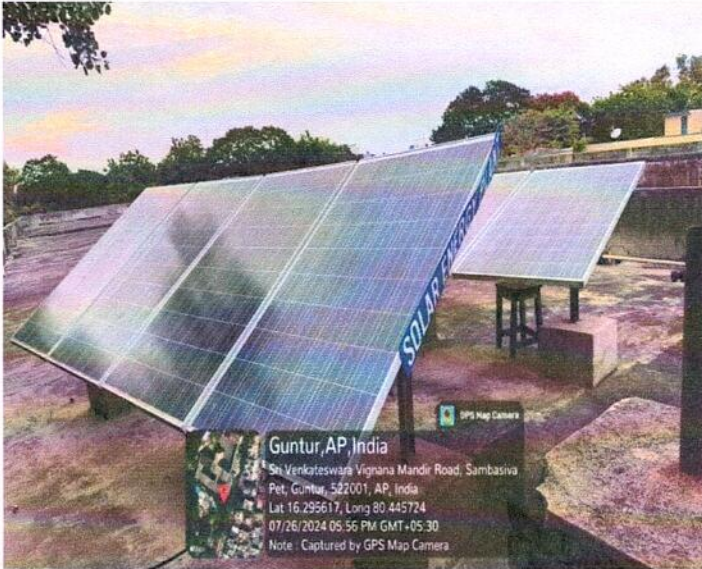


“To be without trees would, in the most literal way, to be without roots”.

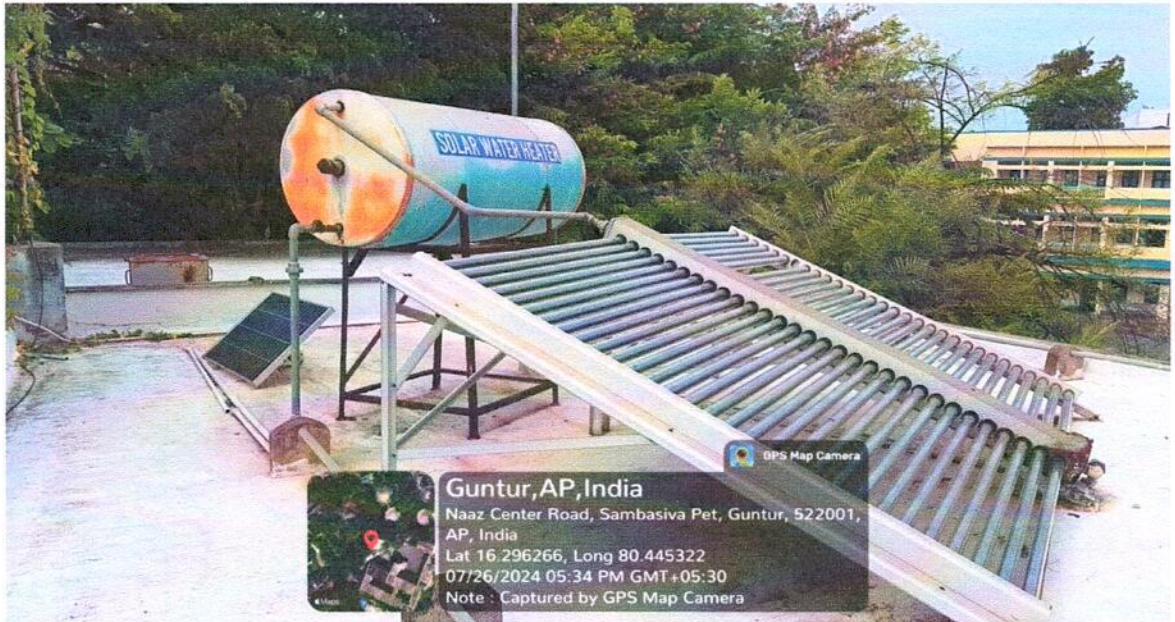


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Renewable energy



Solar energy plant



Solar water heater



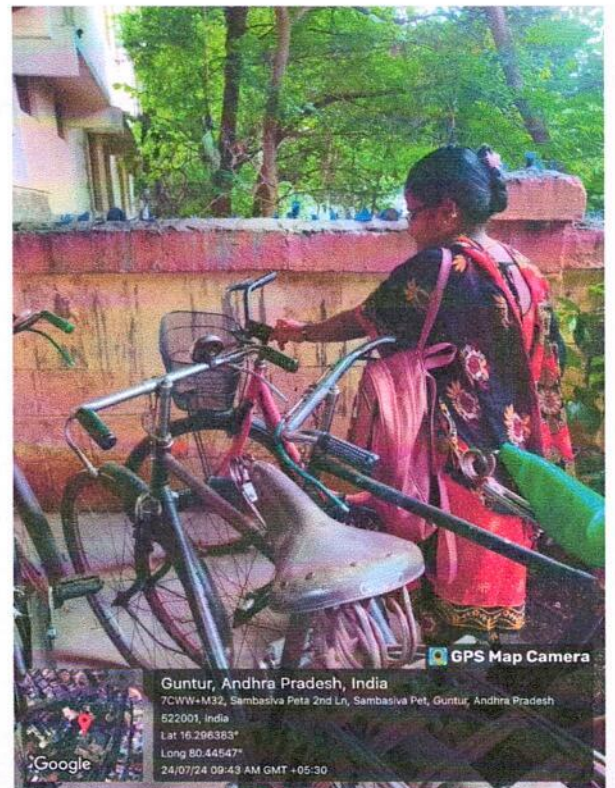
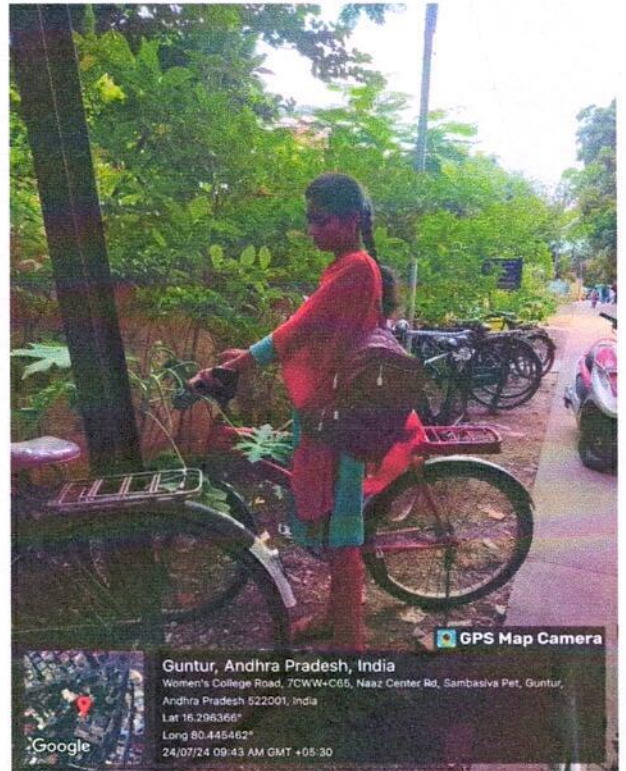
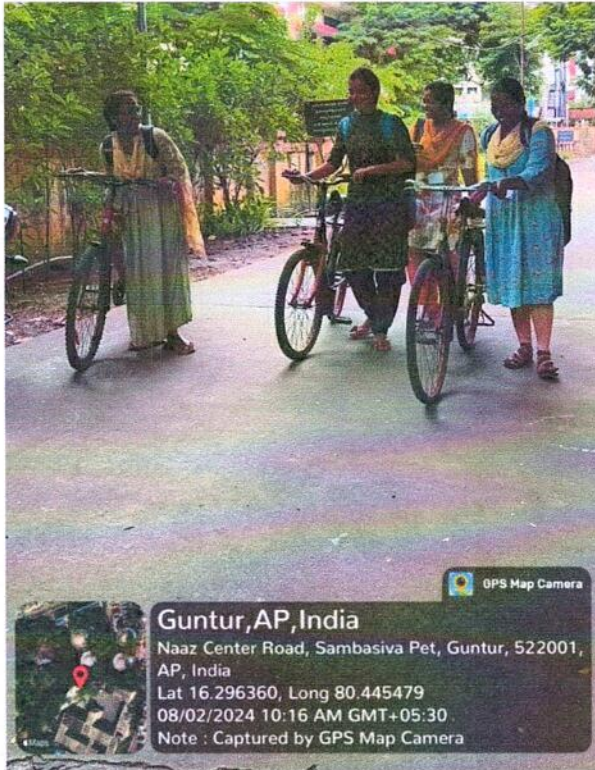
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Energy Efficient Appliances



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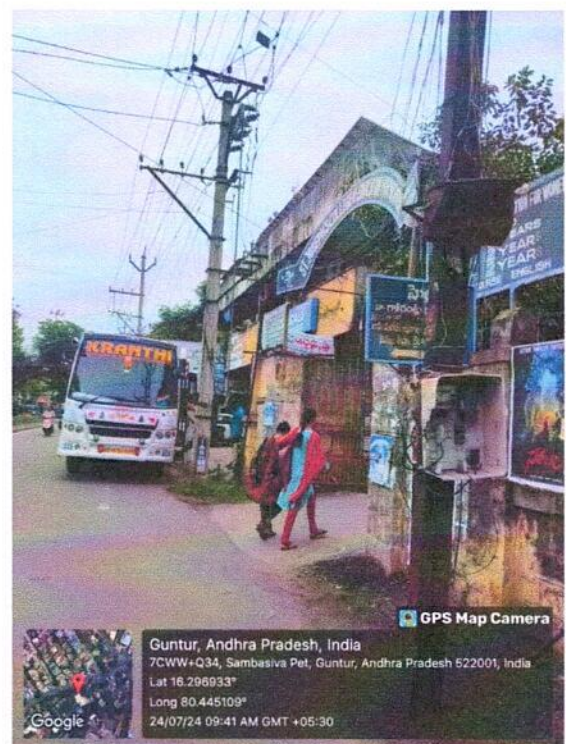
Encourage students to use Bicycles /E-vehicles and Public Transport



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E-Vehicles



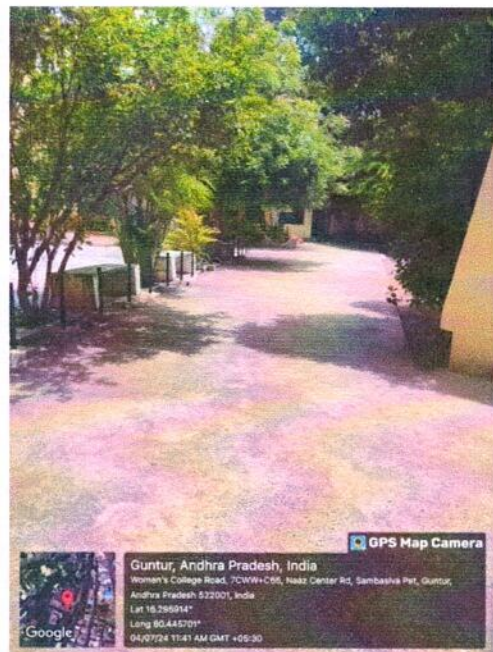
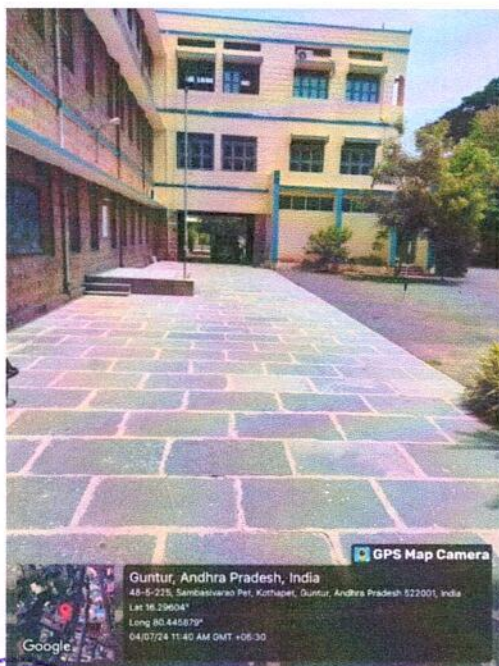
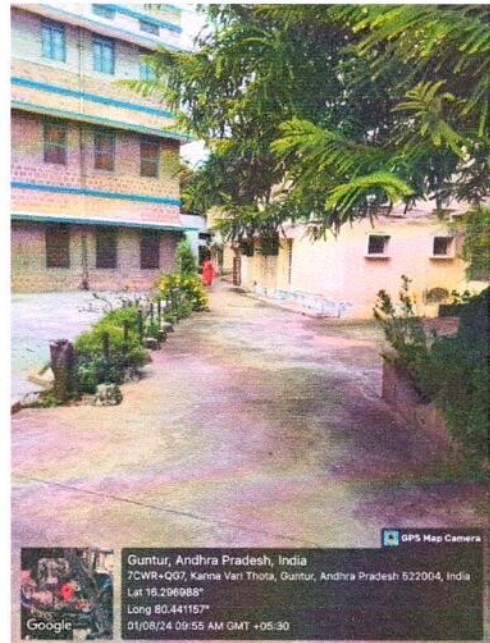
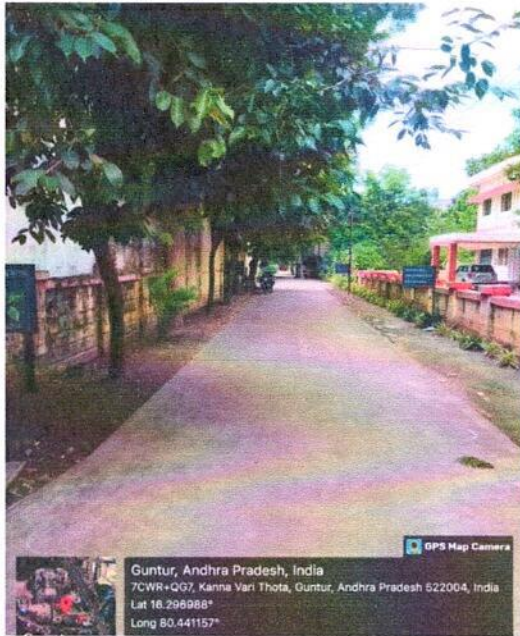
Public Transport



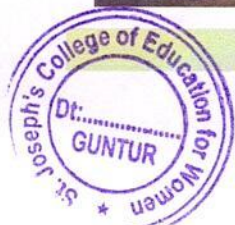
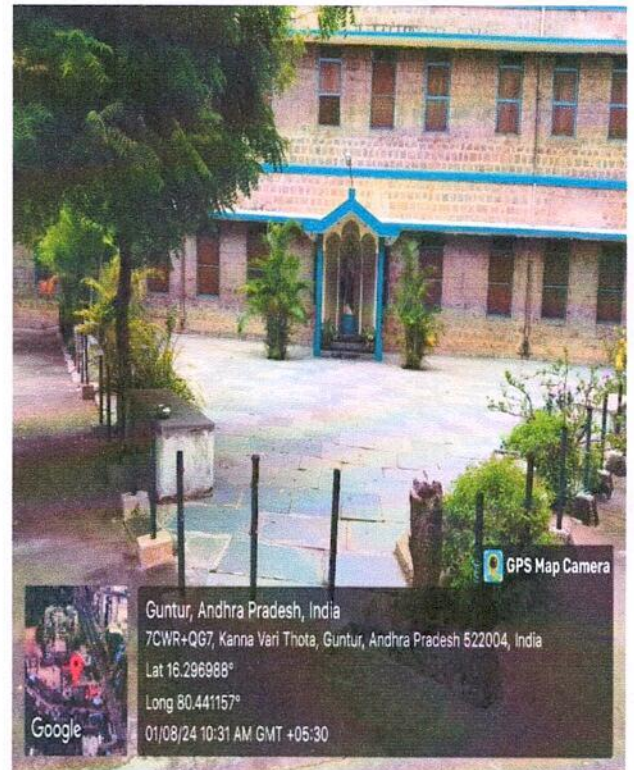
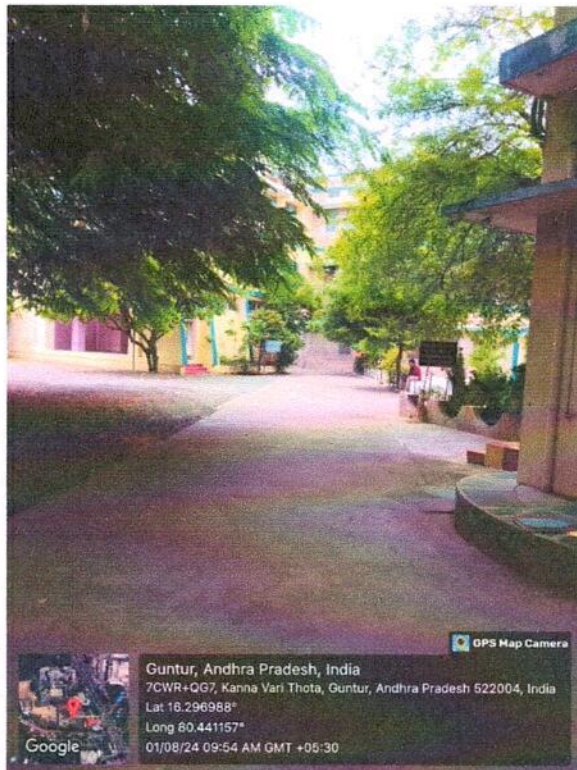
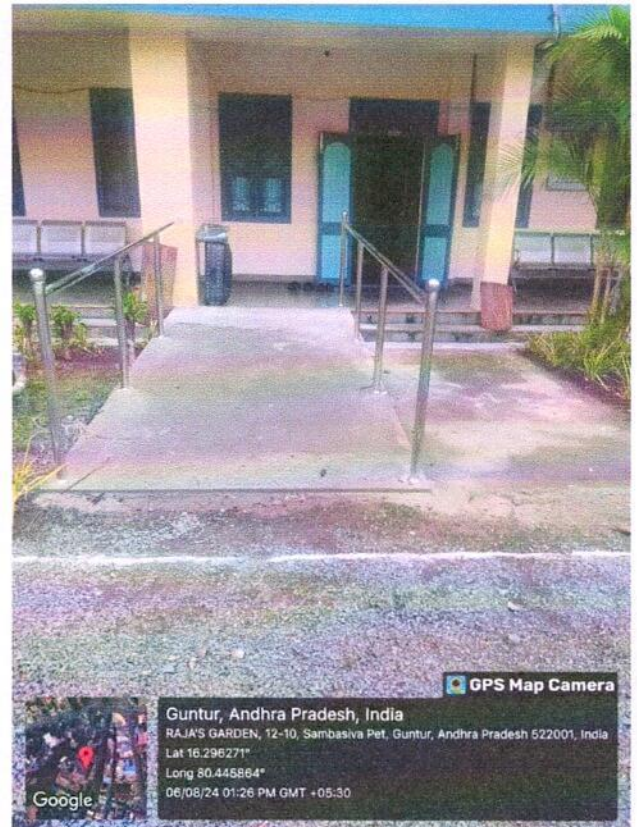
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Create Pedestrian Friendly Roads in the Campus

Pedestrian pathways or walkways are provided safe and convenient routes for people travelling on foot



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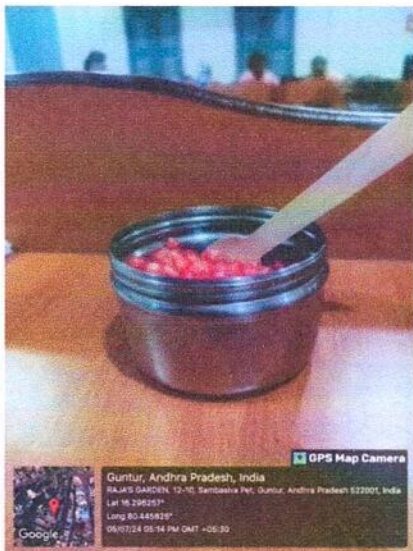
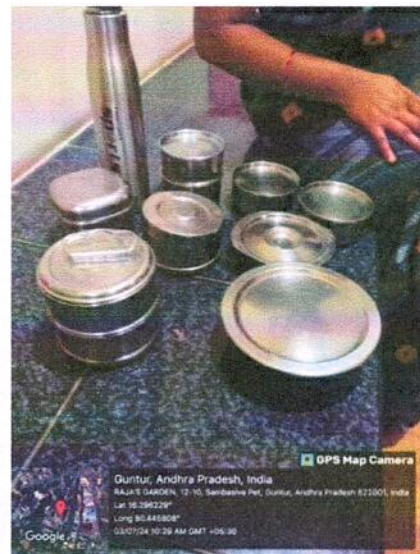
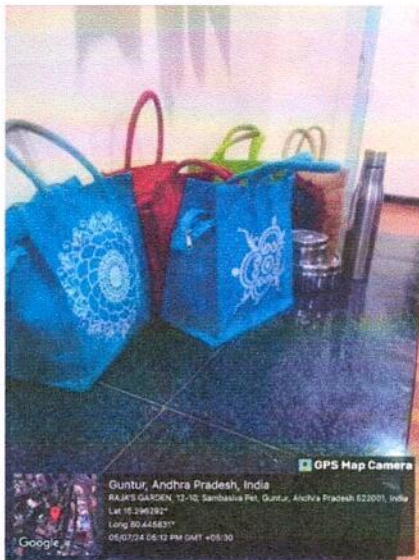
Prioritize Pedestrian Access

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Develop Plastic Free Campus

Environmental conscious day /Environmental responsibility day .

In a week, one day is on every Saturday is allotted to create environmental conscious by wearing cotton material and avoiding 100% of plastic use. We motivate the students to use only steel bottles, Wooden /steel spoons in lunch boxes and Jute bags.

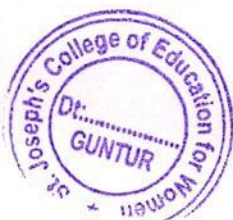
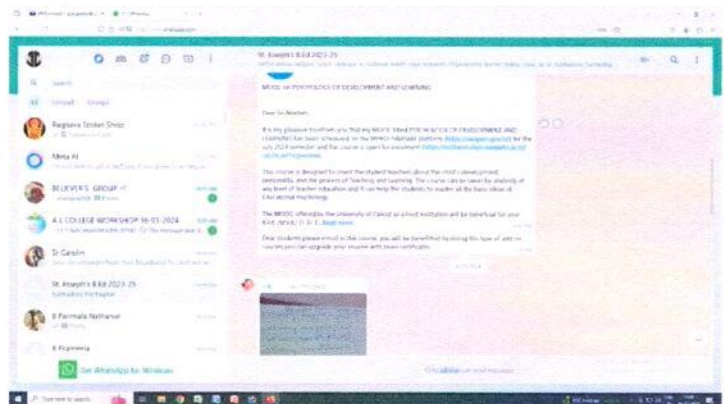
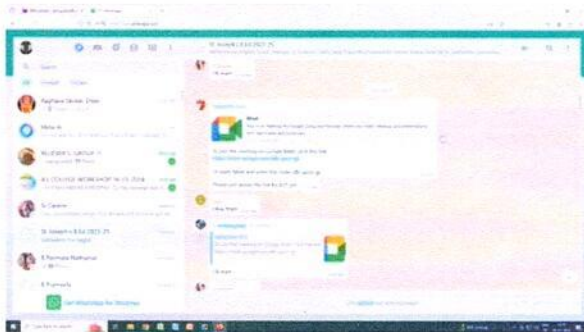


Encourage to use Eco-friendly materials

T. Swasuparani
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Move Towards paperless office

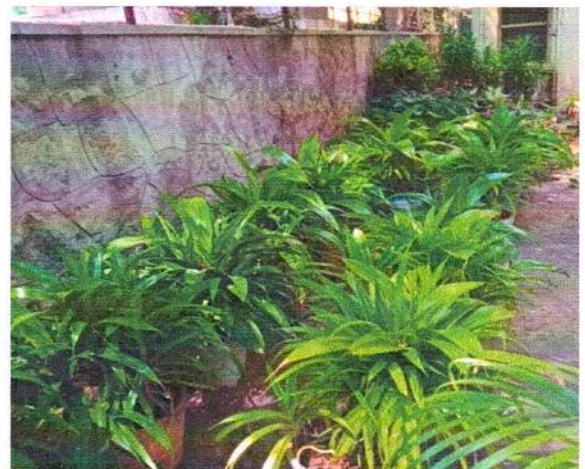
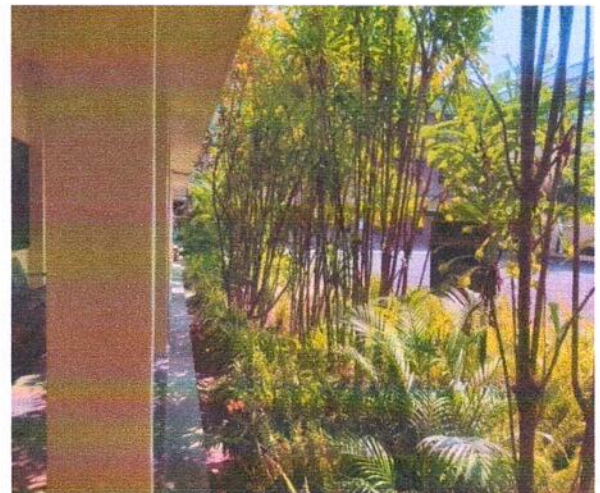
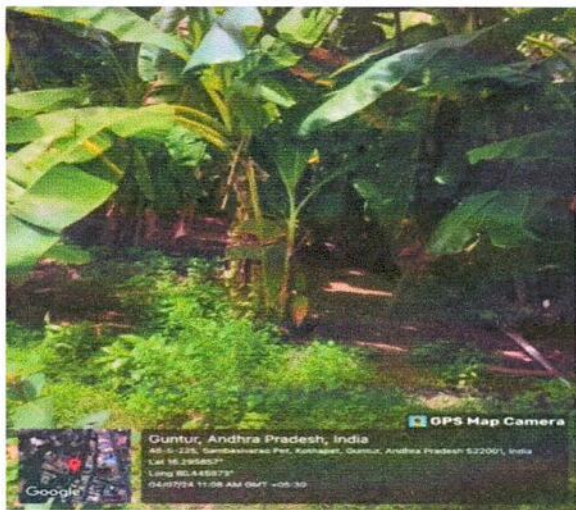
SJCE maximum use paperless office, communicate staff and students through E-Mails, what's app. Most of the office work documents related to exclusive software packages used for paperless office. Transitioning to a paperless office setting involves adapting digital technologies and workflows to minimize paper use and enhance efficiency



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Green landscaping with trees and plants

In our SJCE Campus 40% of the land covers with different trees and plants .It gives a pleasant atmosphere and also gives pollution free campus. Trees and plants in campus areas serve multiple purposes beyond aesthetic appeal. They contribute to a healthier environment by absorbing carbon dioxide, reducing air pollution, and providing shade, which helps lower temperatures and energy costs. Additionally, they enhance biodiversity by providing habitats for birds, insects, and other wildlife.



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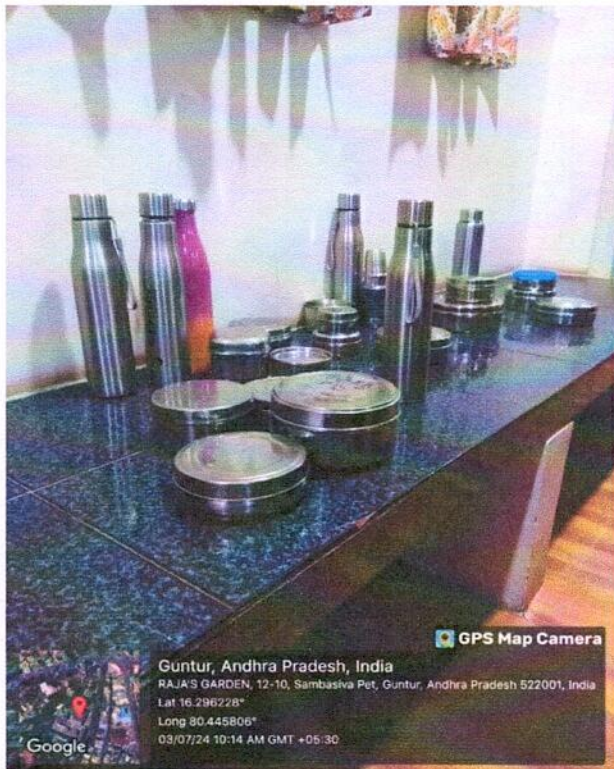
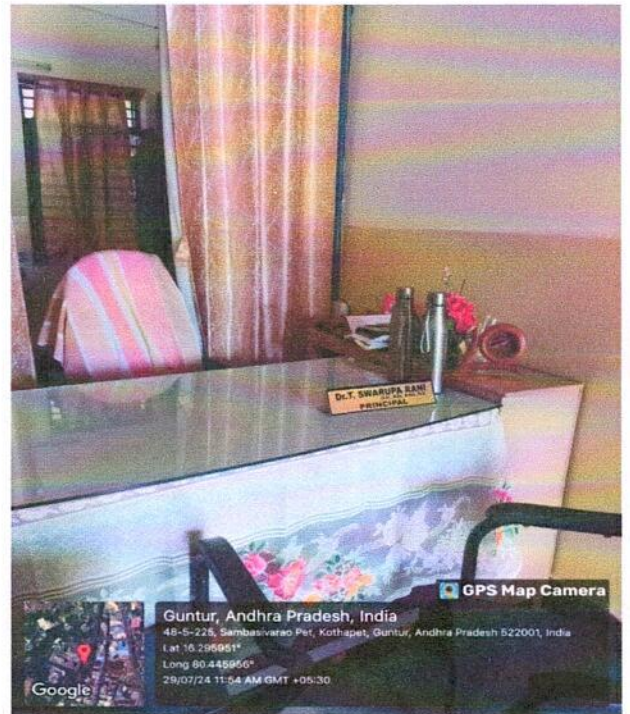
Organic farming



Vermi Compost used for our Garden

T. Saraswathi Rani
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Eco-Friendly campus

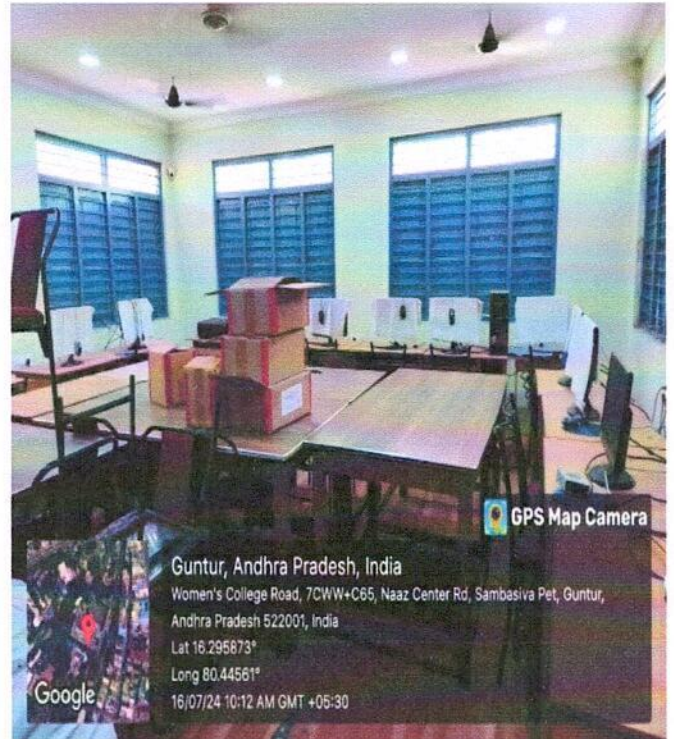
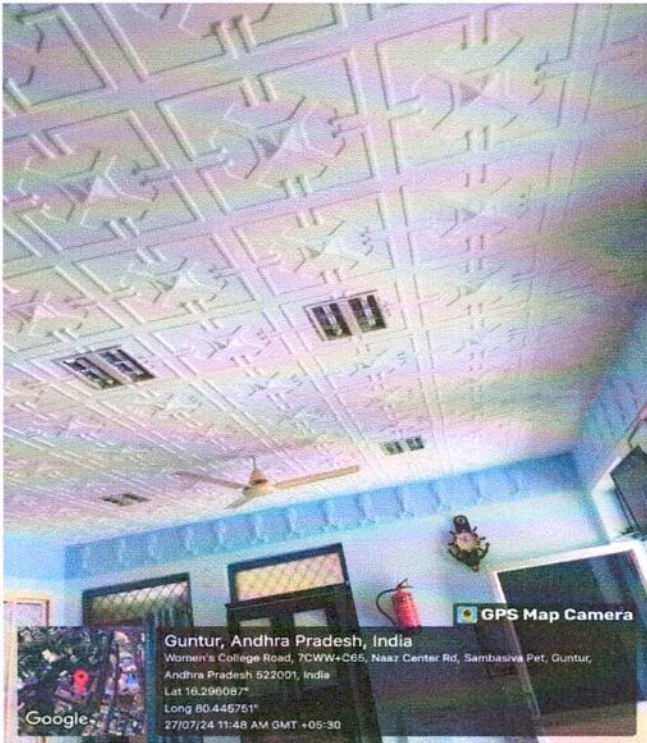


Encourage to use eco-friendly Materials



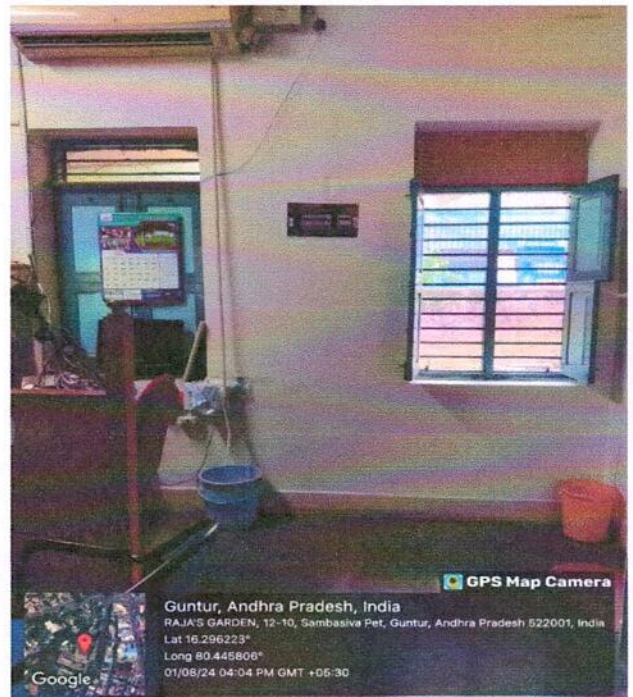
Dr. Swarupa Rani
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Reduce Water and Electricity Usage



Switch off the lights and fans when not in use

Minimize electricity bill by using LED lights



Waste water collected was use for Garden



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TEST REPORT

Report Reference Number: ECTTR2408003

Issue Date: 14/08/2024

Issued To: M/S St. Joseph's College of Education for Women, Women's College Road, Naaz Center Rd, Sambasiva Pet, Guntur, Andhra Pradesh 522001	Lr. Reference No. & Date	--
	Sample Receipt Date	12/08/2024
	Analysis Starting Date	12/0/2024
	Analysis Completion Date	14/08/2024
Sample Details: Ambient Air Quality 1. NEAR MAIN GATE	Sample condition on Receipt	Good
	Atmospheric condition	Clear Sky
	Ambient Temperature	34.0°C
Tests Requested: Particulate Matter (PM ₁₀ , PM _{2.5}), Sulphur Dioxide & Oxides of Nitrogen		

TEST RESULTS

S. No.	Parameter	UOM	Test Method	NAAQ Limits	Result
1	Particulate Matter (PM ₁₀)	µg/m ³	IS 5182 Pt 23: 2006 RA 2022	100	44.8
2	Particulate Matter (PM _{2.5})	µg/m ³	IS 5182 Pt 24: 2019	60	24.9
3	Sulphur Dioxide (SO ₂)	µg/m ³	IS 5182 Pt 2: 2001 RA 2022	80	7.4
4	Oxides of Nitrogen (NO ₂)	µg/m ³	IS 5182 Pt 6: 2006 RA 2022	80	16.5

UOM: Unit of Measurement



P. Narasimha Rao
Authorized Signatory

* End of the Report *

Services Offered: ETP & STP designs & constructions, Environmental Monitoring, Analytical Services & Environmental Consulting.

Address: D.No – 91-7-373, 6th Lane, NGOS Colony, Venugopal Nagar, Guntur.

Email: econictech2020@gmail.com, Mobile No: 9642476767



TEST REPORT

Report Reference Number: ECTTR2408001

Issue Date: 14/08/2024

Issued To: M/S St. Joseph's College of Education for Women, Women's College Road, Naaz Center Rd, Sambasiva Pet, Guntur, Andhra Pradesh 522001	Lr. Reference No. & Date	--
	Sample Receipt Date	12/08/2024
	Analysis Starting Date	12/08/2024
	Analysis Completion Date	14/08/2024
Sample Details: R.O Permeate Drinking Water	Quantity Received	2 L x 1 No. in plastic can
	Sample condition on Receipt	Good
	Source / Location	--
Tests Requested: As mentioned below		

TEST RESULTS

S. No.	Parameter	Test Method	UOM	Result	Specification
1	pH	APHA 23RD Edition 4500 H+B:2017	--	5.95	6.50-9.0
2	Electrical Conductivity	APHA 23RD Edition 2510 -B:2017	µS/cm	44.5	-
3	Total Dissolved Solids	APHA 23RD Edition 2540 C:2017	mg/l	26	500
4	Total Alkalinity	APHA 23RD Edition 2320- B:2017	mg/l	6.0	200
5	Total Hardness	APHA 23RD Edition 2340-C:2017	mg/l	4	200
6	Calcium (Ca ²⁺)	APHA 23RD Edition 3500- Ca B:2017	mg/l	0.96	75
7	Magnesium (Mg ²⁺)	APHA 23RD Edition 3500-Mg B:2017	mg/l	0.38	30
8	Chlorides(Cl ⁻)	APHA 23RD Edition 4500- C B:2017	mg/l	4.88	250
9	Sulphates(So ₄ ²⁻)	APHA 23RD Edition 4500 -So ₄ E:2017	mg/l	2.2	200
10	Phosphates as P (Po ₄ ³⁻ -P)	APHA 23RD Edition 4500 -P D:2017	mg/l	BDL(<0.05)	--
11	Nitrates as No ₃ ⁻	APHA 23RD Edition 4500 NO ₃ - B:2017	mg/l	BDL(<0.1)	45
12	Fluorides(F ⁻)	APHA 23RD Edition 4500 F&D:2017	mg/l	BDL(<0.1)	1.0

UOM: Unit of Measurement; BDL: Below Detection Limit



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* End of the Report

Services Offered: ETP & STP designs & constructions, Environmental Monitoring, Analytical Services & Environmental Consulting.

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Email: econictech2020@gmail.com, Mobile No: 9642476767



TEST REPORT

Report Reference Number: ECTTR2408004

Issue Date: 14/08/2024

Issued To: M/S St. Joseph's College of Education for Women, Women's College Road, Naaz Center Rd, Sambasiva Pet, Guntur, Andhra Pradesh 522001	Lr. Reference No. & Date	--
	Sample Receipt Date	12/08/2024
	Analysis Starting Date	Not Applicable
	Analysis Completion Date	Not Applicable
Sample Details: Ambient Noise Level Monitoring	Quantity Received	Not Applicable
	Sample condition on Receipt	Not Applicable
	Source / Location	Near Main Gate
Tests Requested: Ambient Noise Level		

TEST RESULTS

S. No.	PERIOD OF SAMPLING	UOM	Test Method	Result
1	DAY TIME	dB(A)	IS 9989 : 1981 RA 2020	58.7
1	NIGHT TIME	dB(A)	IS 9989 : 1981 RA 2020	44.3

Test Method:

Noise Level Standards

Area Code	Category of Area	UOM	Limits – Day Time	Limits – Night Time
			[06:00 Hrs to 22:00 Hrs]	[22:00 Hrs to 06:00 Hrs]
A	Industrial Area	dB(A)	< 75	< 70
B	Commercial Area	dB(A)	< 65	< 55
C	Residential Area	dB(A)	< 55	< 45
D	Silence Zone	dB(A)	< 50	< 40

UOM: Unit of Measurement



P. Narasimha Rao
Authorized Signatory

* End of the Report *

Services Offered: ETP & STP designs & constructions, Environmental Monitoring, Analytical Services & Environmental Consulting.

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TEST REPORT

Report Reference Number: ECTTR2408002

Issue Date: 14/08/2024

Issued To: M/S St. Joseph's College of Education for Women, Women's College Road, Naaz Center Rd, Sambasiva Pet, Guntur, Andhra Pradesh 522001	Lr. Reference No. & Date	--
	Sample Receipt Date	12/08/2024
	Analysis Starting Date	12/0/2024
	Analysis Completion Date	14/08/2024
Sample Details: Bore Water	Quantity Received	2 L x 1 No. in plastic can
	Sample condition on Receipt	Good
	Source / Location	--
Tests Requested: As mentioned below		

TEST RESULTS

S. No.	Parameter	Test Method	UOM	Result	Specification
1	pH	APHA 23RD Edition 4500 H+B:2017	--	8.87	-
2	Electrical Conductivity	APHA 23RD Edition 2510 -B:2017	µS/cm	1642	-
3	Total Dissolved Solids	APHA 23RD Edition 2540 C:2017	mg/l	985	-
4	Total Alkalinity	APHA 23RD Edition 2320- B:2017	mg/l	490	-
5	Total Hardness	APHA 23RD Edition 2340-C:2017	mg/l	398	-
6	Calcium (Ca ²⁺)	APHA 23RD Edition 3500- Ca B:2017	mg/l	80.8	-
7	Magnesium (Mg ²⁺)	APHA 23RD Edition 3500-Mg B:2017	mg/l	47.04	-
8	Chlorides(Cl ⁻)	APHA 23RD Edition 4500- C B:2017	mg/l	155.9	-
9	Sulphates(So ₄ ²⁻)	APHA 23RD Edition 4500 -So ₄ E:2017	mg/l	46.0	-
10	Phosphates as P (Po ₄ ³⁻ -P)	APHA 23RD Edition 4500 -P D:2017	mg/l	BDL	-
11	Nitrates as No ₃ ⁻	APHA 23RD Edition 4500 NO ₃ - B:2017	mg/l	BDL	-
12	Fluorides(F ⁻)	APHA 23RD Edition 4500 F&D:2017	mg/l	0.74	-

UOM: Unit of Measurement; BDL: Below Detection Limit



P. Narasimha Rao
Authorized Signatory

* End of the Report

Services Offered: ETP & STP designs & constructions, Environmental Monitoring, Analytical Services & Environmental Consulting.

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