E-mail : josecol27998@gmail.com
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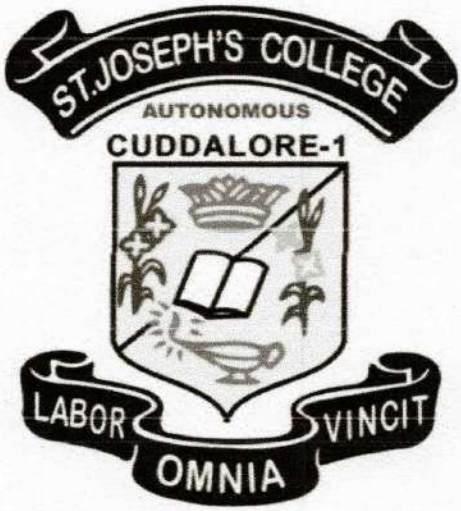
GREEN AUDIT REPORTS
BY
THE COLLEGE

ST. JOSEPH'S COLLEGE OF ARTS & SCIENCE (AUTONOMOUS)

CUDDALORE – 1



GREEN AUDIT REPORT 2021 - 2022

GREEN AUDIT TEAM MEMBERS:

1. **Dr. P. Marie Arockianathan,**
   Head of the Department,
   Department of Biochemistry,
   St. Joseph's College of Arts & Science(Autonomous),
   Cuddalore - 1.

2. **Dr. T. Antony Sandosh,**
   Head of the Department in Chemistry,
   St.Joseph's College of Arts&Science(Autonomous),
   Cuddalore - 1.

3. **Dr. J. Jaya Prakash**
   Head of the Department in Microbiology,
   St.Joseph's College of Arts&Science(Autonomous),
   Cuddalore - 1.

4. **Dr. S. Sridevi**
   Assistant Professor in Department of Botany,
   C. Kandaswamy Naidu College for Women,
   Cuddalore - 1.

4. **Dr. P. Thenmozhi,**
   Asst. Prof. & Head,
   Department of Zoology
   St. Joseph's College of Arts & Science(Autonomous),
   Cuddalore - 1.

ST. JOSEPH'S COLLEGE OF ARTS & SCIENCE (AUTONOMOUS)

CUDDALORE – 1.

GREEN AUDIT REPORT-2021-2022

Target areas included in this green auditing are

1. Waste minimization and waste recycling
2. Water Conservation, Management and Distribution
3. Solid Waste Management
4. Green Campus
5. E-waste management
6. Emission Reduction

1. Waste minimization and waste recycling:

The college is adapting zero organic waste management system inside the campus through vermicomposting.There are two big vermicomposting sites in the campus. One is in front of the micro-biology department with the size of 20 X 15 X 3 (feet) – Extraction of approximately 680 Kg vermicomposting was harvested this year. Another one is on the western side of Library Block 4 X 30 X 4 (feet) - Extraction of approximately 1276 Kg vermicomposting was harvested this year.

2. Water Conservation, Management and Distribution

Rainwater Harvesting system

There are two rainwater harvesting tanks of approximately 1500 litres capacity is available in the college. One near the Department of Microbiology and another one near the Arul Illam. This water is used for laboratory purposes and other cleaning activities.

Water Quality assessment:

Water samples from four different locations were collected and analyzed for its quality parameters. The samples include four tap water samples which are

used as drinking water systems. The samples were collected and analyzed for six main physicochemical parameters. The major parameters analyzed include Dissolved Oxygen, Alkalinity, pH, Total Dissolved Solids, Microbial content and Salinity. The results presented in the following Tables are comparable with the values of drinking water standards prescribed by **Bureau of Indian Standards (BIS)**

Water Quality Measurements -2021-2022

Parameters	**Venmani Block**	**Tarbes Block**	**C.S Block**	**Arul Illam**	**Standard value (BIS)**
Dissolved Oxygen (mg/l)	**6.43**	**6.73**	**6.20**	**6.5**	**6.7-8.1**
Alkalinity (mg/l)	**16**	**20**	**20**	**19.17**	**20-200**
pH	**7.1**	**7.13**	**7.8**	**7.172**	**6.5-8.5**
Total Dissolved Solids (ppm)	**43**	**43**	**46**	**43**	**50-150**
Salinity (ppt)	**0.02**	**0.071**	**0.28**	**0.078**	**NIL**
Total coliform	**Nil**	**Nil**	**Nil**	**Nil**	**NIL**
Fecal coliform	**Nil**	**Nil**	**Nil**	**Nil**	**NIL**

Water Distribution

The source of water used in the College are three bore wells present in the campus. A total of 7000L of water is pumped out from the bore wells every day. An average of 1,40,000 L of water is used by the College per month.

S. No	Parameters	Response
1.	Source of water	Bore wells
2.	Number of Bore Wells	3
3.	Number of Horse Power motors used	3
4.	Depth of well –Total	Bore well1 200 feet Bore well 2 150 feet Bore well 3 100 feet
5.	Number of water tanks	15
6.	Total Capacity of tanks	32000 L
7.	Quantity of water pumped every day	7000 L
8.	Number of units and amount of Rain water harvested	2 units - each with 1500 L
9.	The usage of water on every working day(approximately)	7000 L
10.	The consumption of drinking water	2,500 L (apprx)
11.	For Gardening	1,500 L/Day
12.	Cleaning purposes	2,000 L
13.	Laboratory purposes	1,000 L

3. Solid Waste Management

The following data provide the details of the waste generated and the disposal method adopted by our college.

Waste Category Constituent Parameter Method of Disposal

This is the method of disposing solid wastes by categorizing or segregating it.

Different types of waste generated in the college and their disposal

Types of waste	Particulars	Disposal method
E-Waste	Computers, electrical and electronic parts.	E-wastes are properly handed over to E-waste handling agencies approved by the Tamil Nadu Pollution Control Board.
Paper Waste	Exam papers	Direct selling to vendors.
Plastic waste	Damaged furniture, Pens, Refills, other plastic containers and wrappers etc.	Direct selling to vendors.
Food wastes and garden wastes	All decomposable	Vermicomposting
Glass waste	Broken glass wares from the labs	Send with municipal waste
Sanitary Napkin	Used Napkins	Napkin Incinerators
Canteen waste	Coffee cups and packings	Send with municipal waste
Hostel wastes	Food wastes and vegetable wastes.	Vermi Composting
Yard Waste	Solid waste from tree droppings	Vermi Composting
Lawn Waste	Solid waste from lawn	Vermi Composting

4. Green Campus

The following table shows the tree plantation details of various supporting services in the college.

S.No.	Supporting Service	No. of trees planted
1.	NSS	**23**
2.	NCC	**10**
3.	Enviro club	**13**
4.	YRC	**14**
5.	RRC	**11**
6.	JCI	**9**
TOTAL		**80**
No. of trees fell down		**11**

5. E-Waste Management

E-wastes are being stored properly and handed over to E-waste handling agencies approved by the **Tamil Nadu Pollution Control Board. About 1198.72 kgs of E-Waste have been sold in the year 2020 .**

6. Emission Reduction

Restricted entry of automobiles, promoting the use of bicycles and reducing carbon footprint inside and outside the campus are advocated and adapted to preserve the greenery of the campus

Special Practices:

1. Know green and think green is promoted on the campus by giving lectures, poster presentation and seminars.

   Various awareness Programmes conducted in the year are listed below.

S.No.	Date	Name of the programme	Title
1.	23.03.2022	Drawing Competition	World Water Day-2022
2.	23.05.2022	Student's Seminar	International Day for Biological Diversity-2022
3.	05.06.2022	**Campus Cleaning**	**Campus Cleaning Campaign**
4.	13.10.2022	Webinar	Wildlife conservation

2. Landscaping and green cover in the campus is maintained properly by gardener and sufficient number of workers - All trees are named.
3. Restricted entry of vehicles is adapted to improve green system of the campus.

1. Name: Dr. P. Marie Arockianathan

Signature:

Dr. P. MARIE AROCKIANATHAN
Head & Associate Professor
PG & Research Dept. of Biochemistry
St. Joseph's College of Arts & Science (Autonomous)
Cuddalore - 607 001.

2. Name: Dr. T. Antony Sandosh

Signature:

HEAD OF THE DEPARTMENT
DEPARTMENT OF CHEMISTRY
St. JOSEPH'S COLLEGE OF ARTS & SCIENCE
(Autonomous),
CUDDALORE - 607 001

3. Name: Dr. S. Sridevi

Signature:

Dr. S. SRIDEVI, M.Sc., B.Ed.,M.Phil.,Ph.D.,
Assistant Professor,
Department of Botany,
C. Kandaswami Naidu College for Women,
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4. Name: Dr. P. Thenmozhi,

Signature:

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Assistant Professor & Head
Department of ZOOLOGY
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ST. JOSEPH'S COLLEGE OF ARTS & SCIENCE (AUTONOMOUS)

CUDDALORE – 1

GREEN AUDIT REPORT 2020 - 2021

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ST. JOSEPH'S COLLEGE OF ARTS & SCIENCE (AUTONOMOUS)

CUDDALORE – 1.

GREEN AUDIT REPORT-2020-2021

Target areas included in this green auditing are

1. Waste minimization and waste recycling
2. Water Management and Distribution
3. Solid Waste Management
4. Green Campus
5. E-waste management

1. Waste minimization and waste recycling:

The college is adapting zero organic waste management system inside the campus through vermicomposting.There are two big vermicomposting sites in the campus. One is in front of the micro-biology department with the size of 20 X 15 X 3 (feet) – Extraction of approximately 720 Kg vermicomposting was harvested this year. Another one is on the western side of Library Block 4 X 30 X 4 (feet) - Extraction of approximately 1270 Kg vermicomposting was harvested this year.

2. Water Management & Distribution

Rainwater Harvesting system

There are two rainwater harvesting tanks of approximately 1500 litres capacity is available in the college. One near the Department of Microbiology and another one near the Arul Illam. This water is used for laboratory purposes and other cleaning activities.

Water Quality assessment:

Water samples from four different locations were collected and analyzed for its quality parameters. The samples include four tap water samples which

are used as drinking water systems. The samples were collected and analyzed for six main physicochemical parameters. The major parameters analyzed include Dissolved Oxygen, Alkalinity, pH, Total Dissolved Solids, Microbial content and Salinity. The results presented in the following Tables are comparable with the values of drinking water standards prescribed by **Bureau of Indian Standards (BIS)**

Water Quality Measurements -2020-2021

Parameters	Venmani Block	Tarbes Block	C.S Block	Arul Illam	Standard value (BIS)
Dissolved Oxygen (mg/l)	6.63	6.76	6.16	6.6	6.5-8
Alkalinity (mg/l)	17	21	21	19	20-200
pH	6.9	7.157	7.4	7.172	6.5-8.5
Total Dissolved Solids (ppm)	41	41	46	43	50-150
Salinity (ppt)	0.019	0.068	0.251	0.077	NIL
Total coliform	Nil	Nil	Nil	Nil	NIL
Fecal coliform	Nil	Nil	Nil	Nil	NIL

Water Distribution

The source of water used in the College are three bore wells present in the campus. A total of 7000L of water is pumped out from the bore wells every day. An average of 1,40,000 L of water is used by the College per month.

S. No	Parameters	Response
1.	Source of water	Bore wells
2.	Number of Bore Wells	3
3.	Number of Horse Power motors used	3
4.	Depth of well –Total	Bore well1 200 feet Bore well 2 150 feet Bore well 3 100 feet
5.	Number of water tanks	15
6.	Total Capacity of tanks	32000 L
7.	Quantity of water pumped every day	7000 L
8.	Number of units and amount of Rain water harvested	2 units - each with 1500 L
9.	The usage of water on every working day(approximately)	7000 L
10.	The consumption of drinking water	2,500 L (apprx)
11.	For Gardening	1,500 L/Day
12.	Cleaning purposes	2,000 L
13.	Laboratory purposes	1,000 L

3. Solid Waste Management

The following data provide the details of the waste generated and the disposal method adopted by our college.

Waste Category Constituent Parameter Method of Disposal

This is the method of disposing solid wastes by categorizing or segregating it.

Different types of waste generated in the college and their disposal

Types of waste	Particulars	Disposal method
E-Waste	Computers, electrical and electronic parts.	E-wastes are properly handed over to E-waste handling agencies approved by the Tamil Nadu Pollution Control Board.
Paper Waste	Exam papers	Direct selling to vendors.
Plastic waste	Damaged furniture, Pens, Refills, other plastic containers and wrappers etc.	Direct selling to vendors.
Food wastes and garden wastes	All decomposable	Vermicomposting
Glass waste	Broken glass wares from the labs	Send with municipal waste
Sanitary Napkin	Used Napkins	Napkin Incinerators
Canteen waste	Coffee cups and packings	Send with municipal waste
Hostel wastes	Food wastes and vegetable wastes.	Vermi Composting
Yard Waste	Solid waste from tree droppings	Vermi Composting
Lawn Waste	Solid waste from lawn	Vermi Composting

4. Green Campus

The following table shows the tree plantation details of various supporting services in the college.

S.No.	*Supporting Service*	*No. of trees planted*
1.	NSS	23
2.	NCC	10
3.	Enviro club	13
4.	YRC	14
5.	RRC	11
6.	JCI	9
TOTAL		80
No. of trees fell down		11

5. E-Waste Management

E-wastes are being stored properly and handed over to E-waste handling agencies approved by the **Tamil Nadu Pollution Control Board. About 1198.72 kgs of E-Waste have been sold in the last academic year**

Special Practices:

1. Know green and think green is promoted on the campus by giving lectures, poster presentation and seminars.

   Various awareness Programmes conducted in the year are listed below.

S.No.	Date	Name of the programme	Title
1.	5/6/2020	Webinar	Health and Environment
2.	31/3/2021	Webinar	Biomedical waste management-Challenges ahead
3.	5/6/2020	E-Poster competition	Environment is in our hands
4.	8/10/2020	Online poster Presentation	Wildlife Week 2020
5.	21/3/2021	Online Slogan Contest	Word Water Day 2021
6.	13/10/2021	Webinar	Conservation of Wildlife animals

2. Landscaping and green cover in the campus is maintained properly by gardener and sufficient number of workers - All trees are named.
3. Restricted entry of vehicles is adapted to improve green system of the campus.

1. Name: Dr. P. Marie Arockianathan

Signature:

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Head & Associate Professor
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ST. JOSEPH'S COLLEGE OF ARTS & SCIENCE (AUTONOMOUS)

CUDDALORE – 1

GREEN AUDIT REPORT 2019 - 2020

GREEN AUDIT TEAM MEMBERS:

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   St. Joseph's College of Arts & Science (Autonomous),
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ST. JOSEPH'S COLLEGE OF ARTS & SCIENCE (AUTONOMOUS)

CUDDALORE – 1.

GREEN AUDIT REPORT-2019-2020

Target areas included in this green auditing are

1. Waste minimization and waste recycling
2. Water Management and Distribution
3. Solid Waste Management
4. Green Campus
5. E-waste management

1. Waste minimization and waste recycling:

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2. Water Management & Distribution

Rainwater Harvesting system

There are two rainwater harvesting tanks of approximately 1500 litres capacity are available in the college. One near the Department of Microbiology and another one near the Arul Illam. This water is diverted to underground recharging pit.

Water Quality assessment:

Water samples from four different locations were collected and analyzed for its quality parameters. The samples include four tap water samples which are used as drinking water systems. The samples were collected and analyzed for six main physicochemical parameters. The major parameters analyzed

include Dissolved Oxygen, Alkalinity, pH, Total Dissolved Solids, Microbial content and Salinity. The results presented in the following Tables are comparable with the values of drinking water standards prescribed by **Bureau of Indian Standards (BIS)**

Water Quality Measurements -2019-2020

Parameters	Venmani Block	Tarbes Block	C.S Block	Arul Illam	Standard value (BIS)
Dissolved Oxygen (mg/l)	6.74	6.66	6.19	6.11	6.5-8
Alkalinity (mg/l)	20	23	20	17	20-200
pH	6.9	7.259	7.23	7.617	6.5-8.5
Total Dissolved Solids (ppm)	42	41	45	42	50-150
Salinity (ppt)	0.111	0.088	0.201	0.052	NIL
Total coliform	Nil	Nil	Nil	Nil	NIL
Fecal coliform	Nil	Nil	Nil	Nil	NIL

Water Distribution

The source of water used in the College are three bore wells present in the campus. A total of 7000L of water is pumped out from the bore wells every day. An average of 1,40,000 L of water is used by the College per month.

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The following data provide the details of the waste generated and the disposal method adopted by our college.

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Glass waste	Broken glass wares from the labs	Send with municipal waste
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Canteen waste	Coffee cups and packings	Send with municipal waste
Hostel wastes	Food wastes and vegetable wastes.	Vermi Composting
Yard Waste	Solid waste from tree droppings	Vermi Composting
Lawn Waste	Solid waste from lawn	Vermi Composting

4. Green Campus

The college has organized various Tree Plantation programs at College Campus and surrounding villages through NSS unit, Enviroclub and other supporting services in the college.

The following table shows the tree plantation by various supporting services in the college

S.No.	Supporting Service	No. of trees planted
1.	NSS	32
2.	NCC	20
3.	Enviroclub	21
4.	YRC	8
5.	RRC	8
6.	JCI	7
TOTAL		35
No. of trees fell down		96

5. E-Waste Management

E-wastes are being stored properly and handed over to E-waste handling agencies approved by the Tamil Nadu Pollution Control Board. About 1198.72 kgs of E-Waste have been sold.

FORM 6
[See Rule 19]

E-Waste Manifest

1	Sender's name and mailing address (including Phone No.):	St. Josephs College of Arts & Science, Manjakuppam, Cuddalore, Tamilnadu.
2	Sender's authorisation No. if applicable.	
3	Manifest Document No.:	VGIN 1920400.
4	Transporter's Name & Address: (including Phone No.)	Local Transport
5	Type of Vehicle:	(Truck / Tanker / Special Vehicle)
6	Transporter's Registration No.:	
7	Vehicle Registration No.	TN 22 CS 5682.
8	Receiver's Name & Address (including Phone No)	VIROGREEN INDIA PVT LTD., S/No. 297/1B 2, No.49, Pappankandam Village, S.K.Kandigai Road, Gummidipoondi Taluk, Thiruvallur-601 201,TamilNadu, India Phone: 191/7405 15444
9	Receiver's Authorisation No. if applicable:	TNPCB: E-waste Authorization No: 4899, dated: 13.07.2017
10	Description of E-Waste (Item, Weight/Number):	

S.no	Material Description	Total Qty/ (Kgs)
	E-Waste items, monitors, C.P.U, keyboards, etc.	1198.72 kgs

11 Name and stamp of Sender* (Manufacturer or Producer or Bulk Consumer or Collection Centre or Refurbisher or Dismantler):

Name and Stamp	Signature	Month	Day	Year
Dr. M. ARUMAI SELVAM, M.Sc., M.Phil., PhD., PRINCIPAL, St. Joseph's College of Arts & Science (AUTONOMOUS) CUDDALORE	[signature]	02	26	2020

12 Transporter acknowledgement of receipt of E-Wastes

Name and Stamp	Signature	Month	Day	Year
[stamp]	[signature]	02	26	2020

13 Receiver* (Collection Centre or Refurbisher or Dismantler or Recycler) certification of receipt of E-waste

Name and Stamp	Signature	Month	Day	Year
[stamp]	[signature]	02	26	2020

* As Applicable

Copy number with colour code (1)	Purpose (2)
Copy 1 (Yellow)	To be retained by the sender after taking signature on it from the transporter and other three copies will be carried by transporter.
Copy 2 (Pink)	To be retained by the receiver after signature of the transporter.
Copy 3 (Orange)	To be retained by the transporter after taking signature of the receiver.
Copy 4 (Green)	To be returned by the receiver with his/her signature to the sender.

Special Practices:

1. Know green and think green is promoted on the campus by giving lectures, poster presentation and seminars.

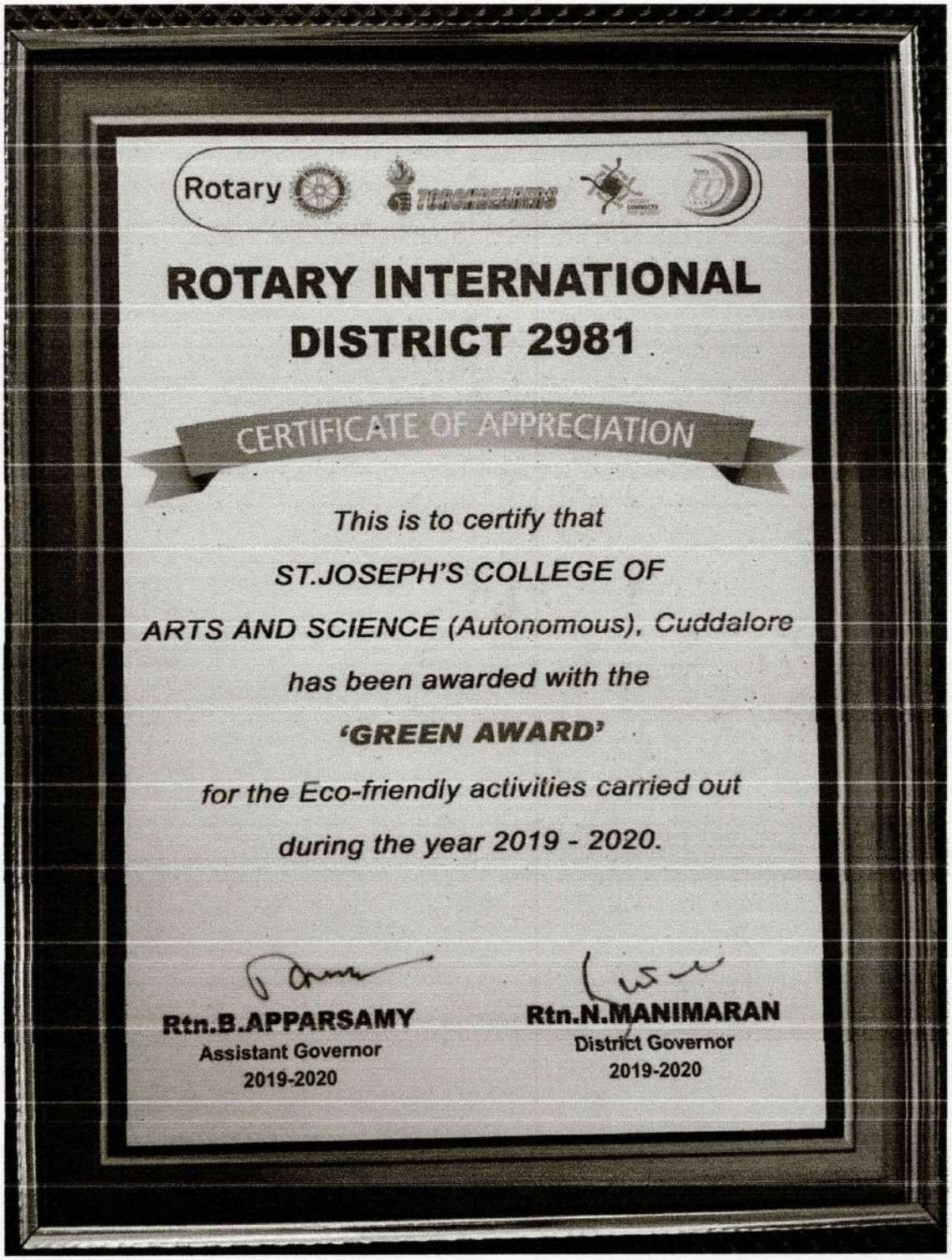
   Various awareness Programmes conducted in the year are listed below.

S.No.	Date	Name of the programme	Title
1.	2/7/2019	Guest lecture	Pollution control measures in industrial complexes
2.	10/1/2020	Village extension programme	Watershed management in Perumal lake.
3.	22/7/2019	Rally	Water conservation
4.	16/9/2019	Poster Presentation	International day for conservation of ozone layer
5.	18/12/2019	Invited Talk	Artificial Ground Water Recharge And It's Techniques
6.	10/3/2020	Students Seminar	Environmental Issues and Challenges

2. Snacks are distributed in paper plates.
3. Food are served with either plantain leaf ortambulleafin any college functions.
4. Paper usage has been considerably reduced by the adapting the following measures.
   - Pay slips for the staff members and CIA Question papers are send through e-mail
   - Conducting competitions related to "Art out of wastes" in intra-collegiate functions.
   - Our college is celebrating "No vehicle day" on every Wednesday for encouraging the usage of bicycles, public transports and carpooling.

Awards Received

Our College has been awarded with the "GREEN AWARD" by Rotary International District 2981 in the year 2019-2020.



1. Name: Dr. P. Marie Arockianathan

Signature:

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