ENVIRONMENT & GREEN AUDIT REPORT

AIM HIGH AIM FAR

RAJAGIRI DAWOOD BATCHA COLLEGE OF ARTS & SCIENCE

Recognized by UGC under Section 2(f) & 12(B)
Affiliated to Bharathidasan University, Tiruchirapalli

AUDIT CONDUCTED BY

YOJO NETWORK & TRAINING CENTER

(Registered Audit Agencies)
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YOJO NETWORK

ACKNOWLEDGEMENT

Yojo Network & Training Center is thankful to the Board of Management, Head of Institution, Faculty and Technical team members of RAJAGIRI DAWOOD BATCHA COLLEGE OF ARTS AND SCIENCE for providing an opportunity to conduct a detailed Energy, Environment and Green Audit process in the college premises. It is our great pleasure which must be recorded here that the Management of RAJAGIRI DAWOOD BATCHA COLLEGE OF ARTS AND SCIENCE extended all possible support and assistance resulting in thorough completion of the audit process. The audit team appreciates the co-operation and guidance extended during the course of site visit and measurements. We are also thankful to all those who gave us the necessary inputs and information to carry out this very vital exercise of Environment and Green Audit.

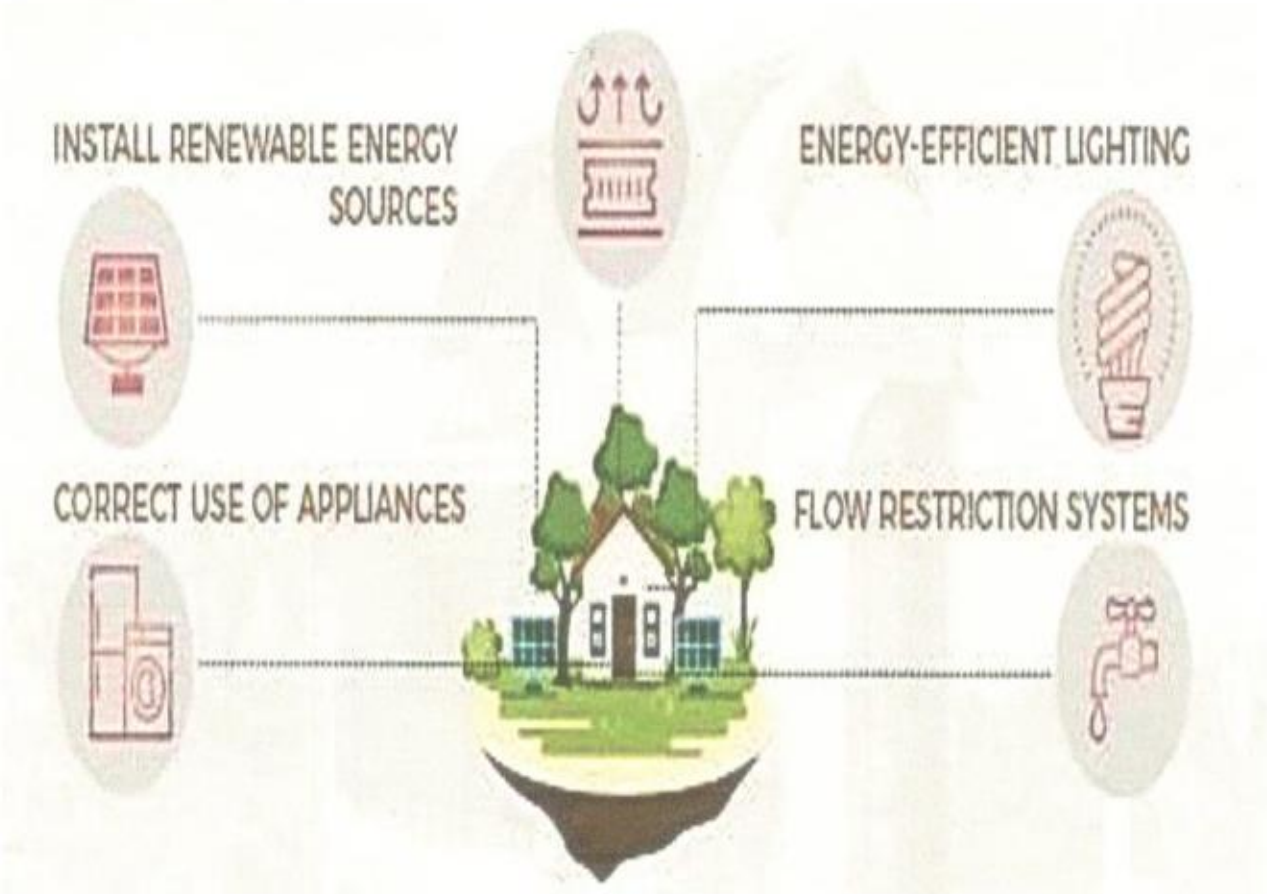
Finally, we offer our sincere thanks to all the members in the engineering division/technical / non- technical divisions and office members who were directly and indirectly involved with us during collection of data and while conducting field measurements.

Audit Team Members	
Er. V. Marimuthu., B.E., Er. C. Saravanakumar., B.E.,	UKAS Certified Energy Auditor (KQ-233) LeadAuditor-ISO-9001:2015,14001:2015(EMS), UKAS, KQ Reg., COC. Carbon Footprint Auditor Mobile:+91-9047205733
Er. R. Rajkumar, B.E.,	Audit Associate

ENVIRONMENT AND GREEN AUDIT REPORT

INTRODUCTION TO ENVIRONMENT-GREEN AUDIT

5 IDEAS FOR A SUSTAINABLE INSTITUTION



1.1 : Preface about the Institution:

The Dawood Batcha Educational and Charitable Trust, established in Chennai in 1998 under the chairmanship of Dr. M.A. Dawood Batcha Ph.D., is dedicated to the operation of educational establishments, particularly in rural areas. Its inaugural institution, RAJAGIRI DAWOOD BATCHA COLLEGE OF ARTS AND SCIENCE in Papanasam, Thanjavur Dt, was initiated in 1999. Subsequently, in 2003, the RDB Institutions of Management, endorsed by the All-India Council for Technical Education, New Delhi, were integrated into this college.

The institutions' high quality fosters self-reliance and success among students, equipping them to become conscientious citizens of India, driven by commitment, dedication, loyalty, and sincerity.
The motto "AIM HIGH, AIM FAR" has been adopted as the guiding principle for the educational institutions administered by the Trust.

1.2 : Quality Policy:

Rajagiri Dawood Batcha College of Arts and Science maintains various policies to enhance the growth of the students, staff along with the growth of the Institution.

The policies are as follows:

- GREEN POLICY
- CODE OF CONDUCT
- RESOURCE MOBILISATION POLICY
- ENVIRONMENT POLICY
- ENERGY POLICY
- WASTE MANAGEMENT POLICY
- E-GOVERNANCE POLICY
- GRIEVANCE & REDRESSAL POLICY

1.3 : Scope of the Audit Process:

- Environmental Audit: Identification of history of activities, present environmental practices followed, monitoring records and known sources of environmental issues inside the college.
- Green Audit: Assessment on Campus greenery in terms of mature trees, flowering shrubs, bushes, medicinal plants, adoption of green energy generation and utilization, reduction of CO_2 due to green energy system and identification of possible implementation and enhancement of current greenery practices.

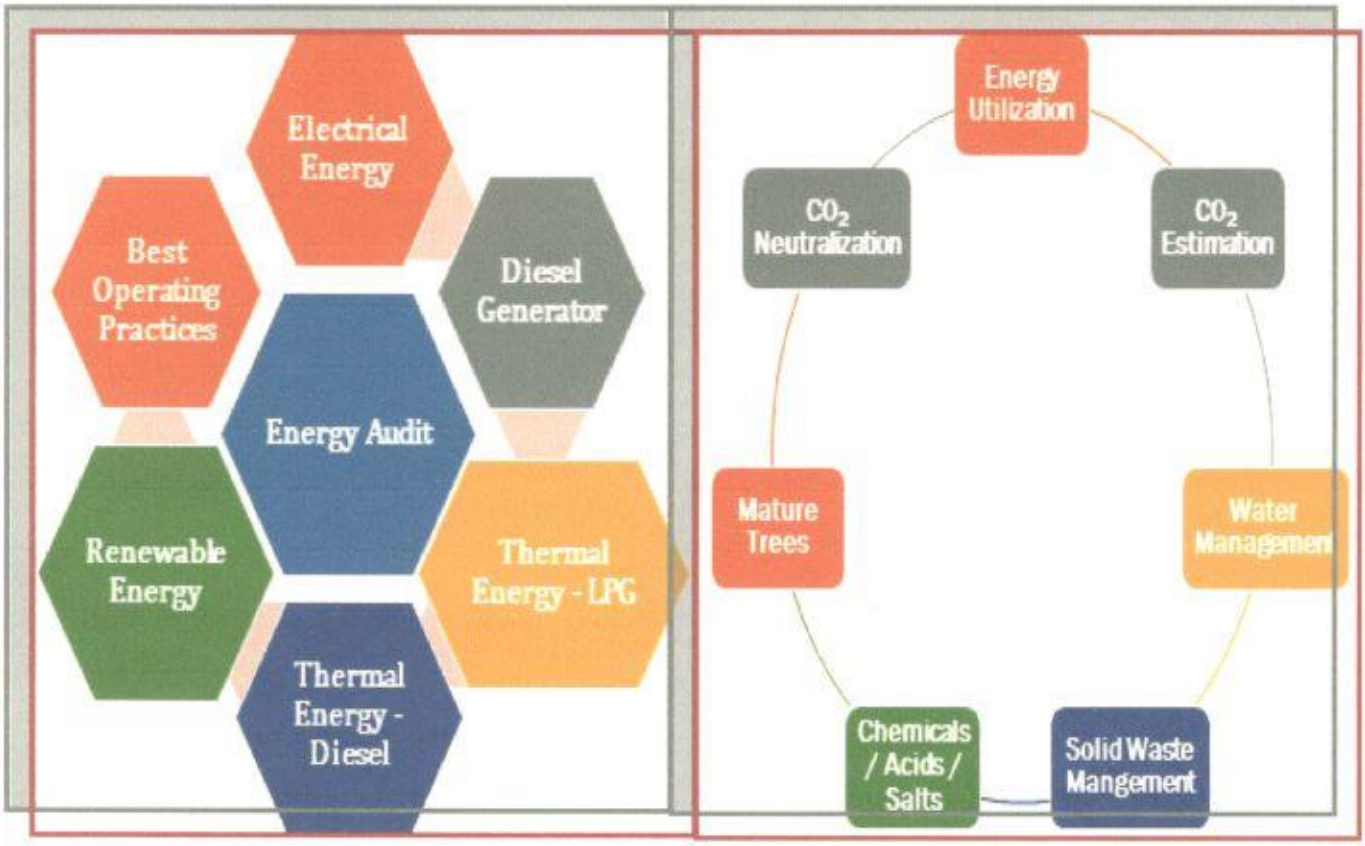
1.4 :Outcomes of the Audit Process:

- Recommendations based on field measurement with achievable Energy Conservation (ENCON) proposals under No cost / Low cost and Cost investment categories.
- Minimization of present energy cost by adjusting and optimizing energy usage and reduction of energy wastage without affecting the regular activities.
- Identification of possible cost and energy saving from energy conservation, waste reduction, reuse and recycling.
- Formation of methodology for long term road map for maintaining green environment within the campus and encourage the stakeholders for continuous improvements.

1.5 :Standards Used:

- Bureau of Energy Efficiency Guidelines to conduct the detailed energy audit process.
- ISO 14064-Part-1 – Specification with guidance at the organization level for quantification and reporting of GHG emissions and removals (Second Edition).
- ISO 14064-Part-2 – Specification with guidance at the project level for quantification, monitoring and reporting of GHG emissions reductions or removal enhancement (Second Edition-2019).
- ISO 14064-Part-3 – Specification with guidance for the verification and validation of GHG statements (Second Edition-2019).
- The Green house Gas Protocol- a Corporate Accounting and Reporting Standard (Revised Edition) released by World Resources Institute & World Business Council for Sustainable Development – 2014.
- Ministry of Environment, Forest and Climate Change Notification on **"Battery Waste** Management Rules, **2020"** & **"E-** Waste (Management) Rules, **2016",** & "Solid Waste Management Rules, **2015"s.**

1.6: Coverage in Environment & Green Audit Process:



1.7 List of Faculty Members Involved in Audit Process & Data Collection:

S. No.	Faculty Details	Contribution
1.	Dr. C.Thangamalar AP/ Dept. of Comp. Science	Overall Coordinator for the Audit Process
2.	Mrs. N. Muthulakshmi AP/ Dept. of Management	Collection of RO water & Water Distribution system.
3.	Dr.V. Tamilvendhan AP/ Dept. of Commerce	Collection of Electrical Energy Parameters from College & Hostel.
4.	Mrs. V. Preethi AP/ Dept. of Bio Tech	Collection of Chemicals/Salts/Acids.
5.	Dr. N. Selvaraj AP/ Dept. of English	Fuel consumption of Transport Vehicles & Transport In charge.
6.	Dr.R.Deepa AP/ Dept. of Tamil	Collection of LPG & Fire WoodData.
7.	Dr.M. Maduraveni AP/ Dept. of Tamil	Collection E.B utility & D.GDetails.
8.	Dr.G. Sasikumar AP/ Dept. of Management	Collection of Trees & Plants with Botanical Name.
9	Dr. M. Sivabalan., Librarian, Arputha College of Arts and Science, Pudukkottai	External Member
10	Dr. M. Sugumar Coordinator IQAC Bharath College of Science & Management Thanjavur	External Member

ENVIRONMENT AUDIT REPORT

ENVIRONMENT AUDIT REPORT

PART-A

ESTIMATION OF CO_2 EMISSION & NEUTRALIZATION (ELECTRICITY, DIESEL, LPG & MATURE TREES)

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1.1 : Assessment of Annual Energy Usage:

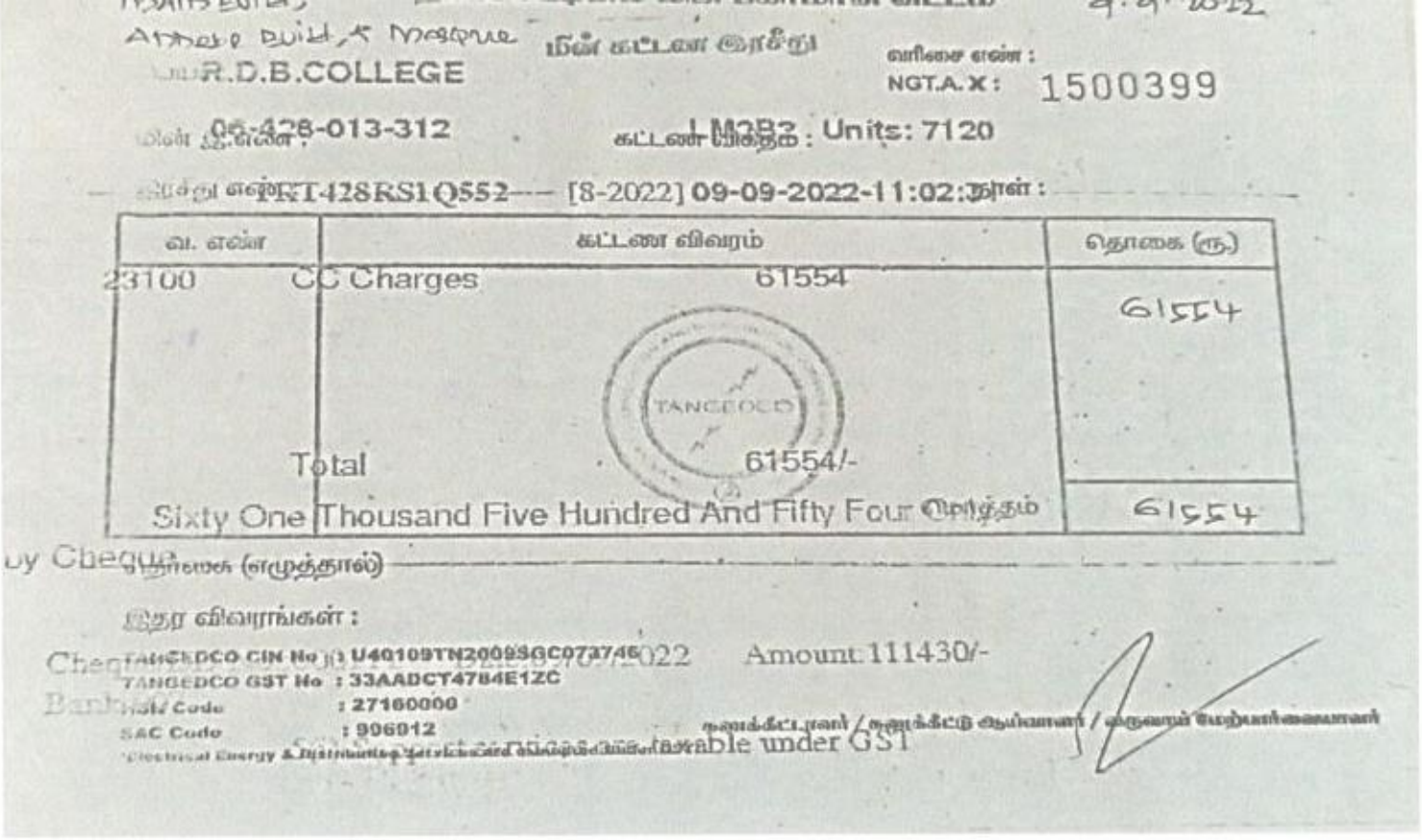
Table-1 Shows the types of energy carriers used for the irregular operation in the college campus along with application area and their source.

Table-1: Energy Carriers, Application area and their sources used for College Operation.

S. No.	Type of Energy Carrier	Application Area	Source of Procurement
1.	Electricity LT Service for College	Powering to all electrical & electronic/HVAC/Motors/Pumps	From TANGEDCO
			Captive power plant
2.	Diesel	Transport vehicles and Diesel Generator(Captive Generation)	From authorized distributor
3.	Liquified Petroleum Gas(LPG)	Used for cooking application	
4.	Mature Trees	Nearly 391 Nos of different varieties with more than 20 years old.	

1.2: Environmental System: CO2 Balance Sheet:

The following tables 2 to 6 provide the balance sheet indicating various energy carriers associated with the regular activities and their CO_2 mapping from 2018-19 to 2022-23 Academic Year.



R.D.B.COLLEGE

வரிசை எண் : NGT.A.X : 1500399

06-428-013-312 LM383 : Units: 7120

[8-2022] 09-09-2022-11:02:

வ. எண்	கட்டண விவரம்	தொகை (ரூ.)
23100	CC Charges 61554	61554
	Total 61554/-	
	Sixty One Thousand Five Hundred And Fifty Four மொத்தம்	61554

by Cheque

TANGEDCO CIN No : U40109TN2009SGC073746

TANGEDCO GST No : 33AADCT4784E1ZC

SAC Code : 996012

Amount:111430/-

Table-2: Environmental System: CO_2 Balance Sheet (2018-19)

S. No	Annual Energy Consumption & CO_2 Emission			Annual CO_2 Neutralization		
	Description	Usage	CO_2 Emission (Tons)	Description	Usage	CO_2 Neutralized (Tons)
1.	Diesel	4322 Liters	12.5	Mature Trees	391No's	21.3
2.	Electrical Energy	96128 kwh	81.3			
3.	LPG	1756 kg	16.9	-	-	-
Total Emission			110.7	Total Neutralized		21.3
Balance CO2 to be Neutralized = 110.7 Tons / Annum & Per Capita CO2 Consumption = 21.3 Tons / Annum						

1.3 : Environmental System: CO_2 Balance Sheet (2019-20):

Table-3: Environmental System: CO_2 Balance Sheet (2019-20)

S. No	Annual Energy Consumption & CO_2 Emission			Annual CO_2 Neutralization		
	Description	Usage	CO_2 Emission (Tons)	Description	Usage	CO_2 Neutralized (Tons)
1.	Diesel	4,418 Liters	12.6	Mature Trees	390 No's	21.3
2.	Electrical Energy	96914 kWh	81.5			
4.	LPG	1723 kg	16.4	-	-	-
	Total Emission		110.5	Total- Neutralized		21.3
Balance CO2 to be Neutralized = 110.5 Tons/Annum & Per Capita CO2 Consumption = 21.3 Tons/Annum						

1.4 : Environmental System : CO_2 Balance Sheet (2020-21):

Table-4: Environmental System: CO_2 Balance Sheet (2020-21)

S. No	Annual Energy Consumption & CO_2 Emission			Annual CO_2 Neutralization		
	Description	Usage	CO_2 Emission (Tons)	Description	Usage	CO_2 Neutralized (Tons)
1.	Diesel	1236 Liters	3.9	Mature Trees	390 No's	21.3
2.	Electrical Energy	27831.5 kWh	44.8			
3.	LPG	449 kg	7.5	---	---	---
	Total Emission		56.2	Total- Neutralized		21.3
Balance CO2 to be Neutralized = 56.2 Tons / Annum & Per Capita CO_2 Consumption = 21.3 Tons / Annum						

1.5 : Environmental System: CO_2 Balance Sheet (2021-22):

Table-5: Environmental System: CO_2 Balance Sheet (2021-22)

S. No.	Annual Energy Consumption & CO_2 Emission			Annual CO_2 Neutralization		
	Description	Usage	CO_2 Emission (Tons)	Description	Usage	CO_2 Neutralized (Tons)
1.	Diesel	4548 Liters	12.9	Mature Trees	391 No's	20.2
2.	Electrical Energy	95182.8 kWh	82.7			
3.	LPG	1745 kg	19.8	Biogas	---	---
Total Emission			115.4	Total- Neutralized		20.2
Balance CO_2 to be Neutralized = 115.4 Tons / Annum & Per Capita CO_2 Consumption = 20.2 Tons / Annum						

1.6 : Environmental System: CO_2 Balance Sheet (2022-23):

Table-6: Environmental System: CO_2 Balance Sheet (2022-23)

S. No.	Annual Energy Consumption & CO2 Emission			Annual CO2 Neutralization		
	Description	Usage	CO_2 Emission (Tons)	Description	Usage	CO_2 Neutralized (Tons)
1.	Diesel	4764 Litres	12.9	Mature Trees	391 No's	20.2
2.	Electrical Energy	96841 kWh	83.0			
3.	LPG	1618 kg	19.6	---	----	-----
Total Emission			115.5	Total-Neutralized		20.2
Balance CO_2 to be Neutralized = 115.5 Tons / Annum & Per Capita CO_2 Consumption = 20.2 Tons / Annum						

iv) Roadmap to achieve the commitment

v) Facilities needed to achieve the same

vi) Roles and responsibilities of all stakeholder

vii) Corrective measures, if the results deviates from the committed value

- Implemented ENCONs and best operating practices proposed in the audit report
- Adopted effective Waste Management Policy and reduced the food print of wastegeneration (Net zero waste campus)
- Working towards Net Zero Energy and Net Zero Water Campus and achieve Gold rated Global Leadership campus (as per IGBC rating) and/or 4-star rated campus

ENVIRONMENT AUDIT REPORT

PART-B

TRANSPORT & REFRIGERANT GASES IN AC SYSTEM

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1.1: List of Transport Vehicles:

Pollution level of all vehicles is regularly monitored and is maintained within the prescribed limit since the college is committed to provide green environment for better atmosphere.

All the transport vehicles are having pollution certificates and maintaining the emission level within the Pollution Control Board limits

The no. of vehicles available in the college campus is represented inTable-1.

Table-1: List of Transporting Vehicles available in the College

S. No.	Type of Vehicle	Quantity	Purpose
1.	Bus	10	Students & Faculty Transportation
2.	Van	03	Office and Administrative Works
3.	Car	03	Transportation for the Principal & Visitors

1.2 : List of Air Conditioning System along with its Refrigerant:

Most of the AC system has R-32 as refrigerant which has Global Warning Potential (GWP) of 675 and hence Ozone Depletion Potential (ODP) is Zero.

Table-2: List of Multi-variant AC System available in the College

S. No.	Tonnage Capacity (TR)	Quantity
1.	1.5	15Nos
Total		15 Nos

Note: The most environment-friendly refrigerants that are available in Indian market currently are –R- 290‖ and –R-600A‖. They are Hydrocarbons and their chemical names are –Propane‖ for R-290 and –Iso- Butane‖ for R-600A

They are completely halogen free, have no ozone depletion potential and are lowest in terms of global warming potential. They also have high-energy efficiency but are highly flammable as they are hydrocarbons.

ENVIRONMENT AUDIT REPORT

PART-C

USAGE OF CHEMICALS SALS AND ACIDS (STORAGE, HANDLING AND BEST OPERATING PRACTICES)

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1.1 : Handling of Chemicals / Salts / Acids used in the Laboratories:

- The Science departments use chemicals for experimental applications and arehaving strict safety rules as follows;
- Well trained faculty and lab assistants who have knowledge about the hazardous nature of each and every chemical are only allowed to handle the chemicals safely.
- Strictly follow the manufacturer's instruction on the container in order to prevent accidents.
- Volatile or highly odorous chemicals, fuming acids are stored in a ventilated area Chemicals are stored in eye level and never on the top shelf of storage unit.
- All stored chemicals; especially flammable liquids are kept away from heat and direct sunlight. Reactive chemicals are not stored closely.
- Hazardous and corrosive chemicals are kept on sand platform to avoid corrosion.
- First aid box and fire extinguishers are readily available in the laboratory and

  Library

1.2 : Storage of Chemicals / Salts / Acids:

- Less concentrated chemicals, salts and acids are stored in proper racks; cupboard sand high concentrated acids are stored in separate area filled with sand.
- Most of the chemicals, salts and acids used in the science departments are inorganic in nature and no harmful effects are created during the experiment process.
- Only trained teaching and non-teaching staffs are handling the chemicals and also they are well trained to handle any abnormal situations.
- Laboratories with chemicals are well ventilated with proper emergency exits. Adequate and correct sequence of fire extinguishers is placed near all the laboratories.

1.3 Use of Chemical for Vessels & Floor Cleaning:

In order to maintain hygiene in the College campus; the administration regularly clean the floor sand restrooms. In addition to this, the hostel management has to monitor the cleaning of vessels, kitchen floor, dining hall, store room and gas station.Table-1 shows the cleaning agents used to clean the above mentioned area;

Table-1: Cleaning Agents used for Floor and Vessel Cleaning

S.No.	Cleaning Agent	Application
1	Soap & Washing Powder	Vessel Cleaning
2	Soap Oil & Bleaching Powder	Floor Cleaning

1.4 : Recommendations: Eco Friendly – Green Cleaning Agents:

- On an average; the cleaning agents used today have about 51 harmful chemicals like Paraben, Phosphates or Chlorides. A lot of them are multi-purpose cleaners
- It is recommended to use natural ingredients like orange peel extract & vinegar. It leaves a mild and pleasant fragrance after use. The formula is free from all harmful chemicals & toxins. It is pH-neutral, gentle on the skin as well as on the surface where it is used
- Fig.1 shows the sample eco-friendly Green Pro certified cleaning agents used in the Institution for cleaning purpose.

Fig.1: Green Pro Certified Eco Friendly Cleaning Agents (ZERODER) used in the Institution

GREEN AUDIT REPORT

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PART-A

WATER UTILIZATION, CONSERVATION & WATER MANAGEMENT

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1.1 : Source of Water, Storage and Distribution:

Table-1 shows the source of water, location of storage along with their application.

Table-1: Source of Water, Location of Storage and Application

Type of Water	Source	Application
Bore Water (Interconnected)	• Bore-1; North Side –150ft • Bore-2; Management Block Front Side–140ft	• Input to the RO plant • Cooking Utensil Cleaning, • Bathing & Cloth Washing
Rain Water (10Nos)	• Collected from i) buildings run off and ii) road run-offs • Each building has RWH	• Used to increase the ground water level • Small pond is also available to Collect the rain water
Treated Water using RO Plant (1 Nos) from Bore well Water. Treated Water using RO Water Purifiers (2Nos) from water tank.		• RO Water: Drinking and Cooking • Grey Water: Gardening & Toilet Cleaning (Good Initiative)
• Raw water tank capacity and Location	• Hostel –8,000 L • Main Block –5000 L • Arts Block – 2000 L	• 8,000 Litres • 7,000 Litres
• All tanks are cleaned monthly once (Good practice). • Water filling is now in manual operation.		

1.2: Treated Water for Drinking Application:

- The college management is keen on providing uninterrupted, safe and healthy drinking water to all; throughout the year.
- The over head tanks storing the drinking water which are cleaned at regular intervals and the water management team has been maintaining a cleaning schedule.
- The specifications of RO Plant and distribution of potable water to the entire campus is given inTable-2.

Table- 2: Specifications of RO Plant and Potable Water Distribution System

S. No.	Parameters	Description
1.	Total no. of RO Plant	• 01 No's (Total 500L PH)
2.	Source of raw water	• Bore Water
3.	% of RO & grey water out put	• 70 % RO water: 30% grey water
4.	Usage of grey water	• Used for Toilet Cleaning (Good Initiative)
5.	Cleaning schedule of filter	• Once in three months (Replaced every year)
6.	Cleaning schedule of membrane	• Yearly twice
7.	Functioning of RO Plant	• Manual operation
8.	Quality of RO water	• Internally tested (50 TDS)
9.	RO water storage	• Stored in the HPDE tanks and distributed
10.	RO water tank capacity & location	• Main Block – 1000 Liter & Hostel –3000 Liter

1.3 : Water Savings in Foreign Toilets:

The list of availability of Indian & Foreign style toilets are presented in the below Table-3.

Table-3: List of Indian & Foreign Style Toilets

S. No.	Location	No. of Toilets	
		Indian	Western
1.	Main Block	30	3
2.	Arts Block	20	3
Total		50	6

- In general the flush tank capacity may be 8 to 10 Liters (depends on make and model). Water savings also leads to power saving it saves the operating duration of the water pumps directly.

1.4 : Rain Water Harvesting (RWH) – from Building Roof Area & Run-off Area:

- The audit team appreciates the effects taken by the management of RAJAGIRI DAWOOD BATCHA COLLEGE OF ARTS AND SCIENCE for harvesting the rain water almost in all buildings with proper maintenance.
- The roof area is so arranged to collect the rainwater and then passed through proper piping system, and then bring back to the RWH pits which are located close to each pits
- The building run off are collected through each pits mostly located in each buildings. Common area and road run-off are properly collected and routed to nearby water body.

GREEN AUDIT REPORT

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PART-B

WASTE HANDLING & MANAGEMENT

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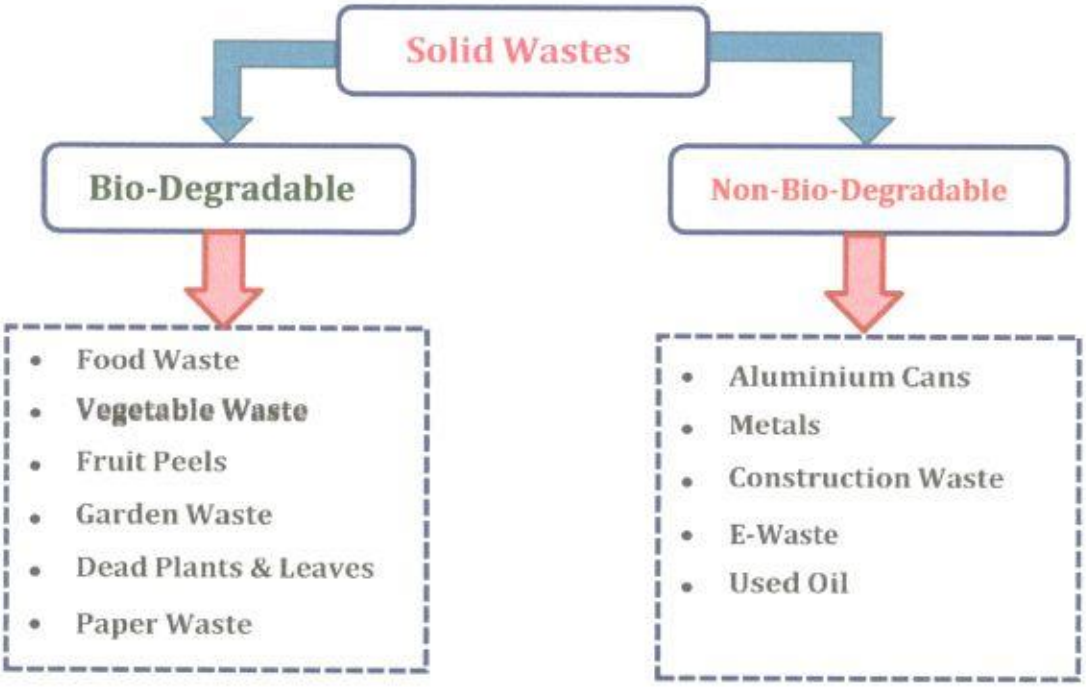
YOJO NETWORK

1.1 : Solid Waste Management System:

Different types of wastes generated inside the college premises are represented in the block diagram given below.



1.2: Process of Solid Waste Management:

The college management practiced efficient methods to treat the waste generated and Table-1 shows the process of treating the solid waste generated inside the college campus.

Table-1: Process of Waste Management

S. No.	Waste Type	Waste Treatment
Bio-Degradable Waste Management		
1.	Food and Vegetable Waste	Collected and dumped in a yard (used as manure)
2.	Garden Wastes and Plant Leaves	Daily collected and dumped in a yard

3.	Paper Waste	Collected and stored in a separate place to dispose further.
		Sold to third party for recycling
4.	Napkin Pads	Collected, dumped in a separate Napkin incinerator unit is available in the campus.
Non-Bio- Degradable Waste Management		
5.	Plastics	Banned in the college campus (Welcome step).The chemical / salt storage plastic containers are disposed to third party.
6.	Metals	Construction metals or metals from any other sources are stored in a separate place.
		Used for sale to third party for recycling
7.	Transport Oil + Tyres	Stored in a separate place and used for sale to Third Party.
8.	Transport Vehicle and Computer Batteries	Procuring new batteries with buyback offer (old battery replacement)
9.	Used edible oil	Almost zero waste. Mostly used for internal cooking and frying.
10.	E- Waste Management	Used for sale to third party for recycling

GREEN AUDIT REPORT

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PART-C

ASSESSMENT ON MATURED TREES AND BIO DIVERSITY

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1.1: Campus Greenery:

The college is completely covered with mature trees grown for more than 20 years. The total number of mature trees available in the college campus is 391 with 40 varieties of trees. Apart from the mature trees; preserving the ecology; the entire college campus is planted with various flowering shrubs and bushes.

Total No. of Mature Trees available in the college campusi 391 which contributes for reduction of ***20.4 Tons*** **of CO_2 emission/ Annum**

1.2: Recommendations for Indoor Plants as Natural Air Purifier:

- Indoor plants are available more numbers in the institution campus, which will be helpful to look good while bringing life to our living space and they also help to purify the air.

LIST OF TREES AND SAPLINGS

TREES/ SAPLINGS TAMIL NAME	TREES/SAPLINGS ENGLISH NAME	BOTANICAL NAME	NOS.	
			TREES	SAPLINGS
Naaval Maram	Java Plum Or Indian Blackberry	Syzygium Cumini.	1	11
Koyya	Guava	Psidium Guajava	3	20
Badam	Almond	Perminalia Catappa	11	3
Vembu	Neem	Azadirachta Indica	70	15
Sapota	Sapota	Manilkara Zapota	7	3
Maa	Mango	Mangifera Indica	17	5
Cocunut Tree	Cocunut	Cocos Nucífcra	55	43
Odhiya Maram	Odina Wodler	Lannea Coromandelica	15	5
Maadhulai	Fomegranate	Punica Granatum	1	NIL
Pongai Tree	Pongamia	Miílettia Pinnata.	43	15
Semmaram	Red Sandal Wood	Pterocarptls Santalinus	1	NIL
Puliya Maram	Tamrind Tree	Tairarindus Indica	3	NIL
Nelîi Maram	Gooseberry	Phyllantlius Emblica	NIL	3
Moongll	Bamboo	Bąmbusa Vuigarls		14
Poovarasu Maram	Portia Tree	Thespesia Populnea	10	5
Nagalinga Maram	Cannonball Tree	Couroupita Guiana Snips	NIL	3
Ïlupai Tree	Mahua Tree / Better Nut Tree	Madhuca Iongiłolia	2	12
Marudha Maram	Arjuna Tree	Terminalia Arjuria	2	4
Vaagai Maram	Surrogatc Tree	Albizia Lebbeck	2	NIL
Christmas Palm Tree	Fioxtail Palm	Wodyetia bifurcata	30	20
Mahogany Tree	Mahogany Tree	Swietenia macrophylla	NIL	8
Other Trees & Saplings	-	-	95	255

AUDIT SUMMARY & CONCLUSION

SUMMARY OF THE AUDIT PROCESS:

In order to make RAJAGIRI DAWOOD BATCHA COLLEGE OF ARTS AND SCIENC campus 100 % Environmental sustainability and lush Greenery, the audit team appreciate the measuresfollowed by the institution to maintain environmental friendly, green campus.

The following measures are followed by the institution:

i. Water Conservation & Management:

- Retrofit aerator based water taps are used for good water savings
- Water treatment log (for RO plant) is maintained for treated and outlet water quality
- Installed sensor based water controller in each Over Head Tanks to reduce the water waste and power required to operate the pump

ii. Waste Management:

- The institution stores solid wastes properly in a separate place for safe disposal.
- Scientific method of handling chemicals/Acids/Salt and safe disposal through 3rd party
- Used napkins are safely disposed using napkin disposal machine
- Having all records for the solid waste items given to the 3rd party

iii. Way Forward towards Energy & Environmental Sustainability:

- Available an exclusive Energy and Environment Policy based on the energy andenvironment practices are followed in the campus and reflects the
    - i) Present energy consumption & generation
    - ii) Projection of energy need
    - iii) Commitment by the college to conserve energy

iv) Roadmap to achieve the commitment

v) Facilities needed to achieve the same

vi) Roles and responsibilities of all stakeholder

vii) Corrective measures, if the results deviates from the committed value

- Implemented ENCONs and best operating practices proposed in the audit report
- Adopted effective Waste Management Policy and reduced the food print of wastegeneration (Net zero waste campus)
- Working towards Net Zero Energy and Net Zero Water Campus and achieve Gold rated Global Leadership campus (as per IGBC rating) and/or 4-star rated campus

COMPLETION OF THE REPORT

This report is prepared as a part of the Environment and Green Audit process conducted at RAJAGIRI DAWOOD BATCHA COLLEGE OF ARTS AND SCIENC, Papanasam, Thanjavur District, Tamilnadu by YoJo Network and Training Center, Tamilnadu.

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CERTIFICATE FOR ENVIRONMENT & GREEN AUDIT PROCESS

This is to certify that, we have conducted ENVIRONMENT & GREEN AUDIT at RAJAGIRI DAWOOD BATCHA COLLEGE OF ARTS AND SCIENC, Papanasam, Thanjavur District, Tamilnadu India from 3/12/2022 to 9/12/2022 and it is appreciated that, the institution strictly follows and maintain environment friendly clean and green campus initiatives to provide conducive atmosphere for active teaching learning.

This process investigates the following activities;

- ✓ Coverage of Mature trees and more bushes & shrubs (nearly 395 Matured trees)
- ✓ Plan to increase the green coverage and natural water bodies
- ✓ Pollution certificates for all transport vehicles, Ambulance and verified.
- ✓ Inspection on Rain Water Harvesting (RWH) both from buildings and road run-off verified.
- ✓ Initiatives taken to promote green coverage inside the college campus
- ✓ Recommendation for Rooftop Solar Thermal system for cooking application and water heating system for hostel students (bathing application).
- ✓ Study on effective Solid Waste Management (SWM) system
- ✓ E-waste: Collection, Segregation, Storage and Safe Disposal are verified.
- ✓ Availability of Waste to Wealth, Waste to Energy possibilities
- ✓ Improvement of Indoor and Ambient Air Quality (IAQ) and Indoor Environment quality (IEQ)
- ✓ Maintaining excellent Bio-diversity and Ecology
- ✓ Detailed Recommendation on green initiatives are represented in the Audit report

Thank You

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