



# **RAAK ARTS AND SCIENCE COLLEGE**

Affiliated to Thiruvalluvar University, Vellore.  
Recognized under section 2(f) of the UGC Act, 1956.

# **(2018-2019)**



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## CLEAN AND GREEN CAMPUS INITIATIVE

### ACTION TAKEN REPORT

2018-2019

The following are the action taken by the Institute for clean and green campus Initiative in the Academic year 2018 – 2019.

Green Audit was conducted during 18<sup>th</sup> July 2019 for the academic year 2018 – 2019.

Energy Audit was conducted during 18<sup>th</sup> July 2019 for the academic year 2018 – 2019.

Environmental Audit was conducted during 18<sup>th</sup> July 2019 for the academic year 2018 – 2019.

Tree Plantation Program was organized in association with NSS unit on 27/12/2018.

Faculty members and Students are advised to properly dispose the waste in dustbins for maintenance of clean campus.



*Jam.*  
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PERAMBAL.



## **CERTIFICATE FOR GREEN AUDIT**

Certificate Number: **PSQC971**

This is to certify that, we have conducted a **GREEN AUDIT** in **RAAK ARTS AND SCIENCE COLLEGE, NO.1, BASHEER CAMPUS, PERAMBAL ROAD, PERAMBAL, VANUR (T.K.), VILLUPURAM DISTRICT - 605 110** during 18<sup>th</sup> July 2019 (for the academic year 2018-2019).

The Audit investigates the following activities.

1. Coverage of matured trees (nearly 83 trees available in the college campus)
2. Implemented many shrubs
3. Assessment of water distribution network
4. Evaluation of solid and E-waste management system
5. Identification of expansion of green coverage for planting more trees

**The detailed campus Greenery Coverage and initiatives are presented in the Audit Report.**

Authorized Auditor

  
**G. ARIVARASAN**

BEE Certified Energy Auditor (EA-21875)

Lead Auditor - ISO 14001, EMS

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(Consultancy - Accreditation & Certification) Auditing & Training

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## **CERTIFICATE FOR** **ENERGY AUDIT**

Certificate Number: PSQC972

This is to certify that, we have conducted an **ENERGY AUDIT** in **RAAK ARTS AND SCIENCE COLLEGE, NO.1, BASHEER CAMPUS, PERAMBAL ROAD, PERAMBAL, VANUR (T.K.), VILLUPURAM DISTRICT - 605 110** during 18<sup>th</sup> July 2019 (for the academic year 2018-2019). The Audit team has identified 14 Energy Conservation Proposals (ENCONs) and summary of the energy audit is given below.

|   |                   |              |                |
|---|-------------------|--------------|----------------|
| <b>Description/Year</b>                                 | 2018-19           |              |                |
| <b>Annual Electricity Consumption (kWh)</b>             | 1,64,459 kWh      |              |                |
| <b>Summary of Energy Conservation (ENCON) Proposals</b> |                   |              |                |
| <b>Description</b>                                      | <b>Parameters</b> |              |                |
|   | <b>Present</b>    | <b>After</b> | <b>Savings</b> |
| Annual Energy Consumption                               | 1,64,459 kWh      | 1,39,791 kWh | 24,668 kWh     |
| Annual Energy Cost                                      | 11.51 lakhs       | 9.78 lakhs   | 1.72 lakhs     |
| Simple Payback Period                                   | ---               | ---          | 1.5 years      |

### **Equipment's/Systems Audited**

|   |                                      |
|---|--------------------------------------|
| <b>Electrical System</b>                    | <b>Thermal System</b>                |
| Electrical System & Network                 | Diesel, generators, pumps and motors |
| Lightings, Fans and Air conditioning system | Inverter, UPS and battery system     |

**The detailed Energy Conservation Proposals are presented in the Audit Report.**

Authorized Auditor

**G. ARIVARASAN**

BEE Certified Energy Auditor (EA-21875)

Lead Auditor - ISO 14001, EMS

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## CERTIFICATE FOR ENVIRONMENTAL AUDIT

Certificate Number: PSQC973

This is to certify that, we have conducted an **ENVIRONMENTAL AUDIT** in RAAK ARTS AND SCIENCE COLLEGE, NO.1, BASHEER CAMPUS, PERAMBAL ROAD, PERAMBAL, VANUR (T.K.), VILLUPURAM DISTRICT – 605 110 during 18<sup>th</sup> July 2019 (for the academic year 2018-2019). This Audit highlights the energy balance sheet indicating various energy carriers associated with the regular activities of the institution and their CO<sub>2</sub> mapping.

### Environmental system: CO<sub>2</sub> Balance sheet (2018-2019)

| S. No   | Energy Consumption & CO <sub>2</sub> Emission |              |                                       | CO <sub>2</sub> Neutralization       |              |                                       |
|---|---|--------------|---------------------------------------|--------------------------------------|--------------|---------------------------------------|
|   | Description                                   | Annual Usage | CO <sub>2</sub> Emission (Tons/Annum) | Description                          | Annual Usage | CO <sub>2</sub> Emission (Tons/Annum) |
| 1   | Electrical Energy                             | 164459 kWh   | 134.86                                | Matured Trees                        | 83 Nos       | 1.81                                  |
| 2   | <b>Total Emission</b>                         |              | <b>134.86</b>                         | <b>Total Neutralized</b>             |              | <b>1.81</b>                           |
| Balance CO <sub>2</sub> to be Neutralized   |   |              |                                       | <b>133.05 Tons/Annum</b>             |              |                                       |
| CO <sub>2</sub> Accountability for RASC Campus  |   |              |                                       | <b>1852.2 Tons/Annum<sup>1</sup></b> |              |                                       |
| (Calculated based on the weighted average of total strength of students, teaching and technical staff = 1470) |   |              |                                       |                                      |              |                                       |

### System Audited

|  |  |
|--|--|
| Electricity Consumption                | Usage of Chemicals, Salts, Acids & Cleaning Agents |
| Diesel Consumption (Transport + DG)    | Solid E-waste Handling & Management                |
| RO Plant and Water distribution system |  |

The detailed environmental aspects & impacts are presented in the Audit Report.

Authorized Auditor

**G. ARIVARASAN**

BEE Certified Energy Auditor (EA-21875)

Lead Auditor - ISO 14001, EMS

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# RAAK ARTS AND SCIENCE COLLEGE

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## PERMISSION LETTER

**From:**

Mr. Kumara guru  
RAAK arts and Science College,  
Perambai

**To:**

The Principal,  
RAAK arts and Science College,  
Perambai.

**Sub:** Permission regarding the program on "Tree Plantation"

**Respected Sir,**

This is to request that program titled "Tree Plantations" organized on 27/12/2018. This Program is mainly designed to help the society on behalf of RAAK arts and Science College. Kindly grant permission to conduct the event successfully. Your gracious presence is much gratified.

Thanking you,

Date: 10/12/2018

Place: PERAMBAL

yours faithfully,

NSS Co- coordinator.



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# RAAK ARTS AND SCIENCE COLLEGE

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RASC/PRINCIPAL/CIR/DEC 2018

Date: 08/12/2018

## CIRCULAR

This is to inform you that on 27<sup>th</sup> December, an event titled "Tree Plantation" is organized under NSS Scheme for the benefit of people in the society. Student and Faculty Volunteers of all departments are most welcome.

*A. M. Harish Na 2.*  
PRINCIPAL

— PRINCIPAL  
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Copy to:

- Notice Board
- IQAC
- NSS cell



*Jay*  
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# RAAK ARTS AND SCIENCE COLLEGE

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## REPORT

**Name: "Tree Plantation"**

**Date: 27/12/2018**

The seminar began with an opening address by the principal of Green RAAK arts and Science College. Who emphasized the importance of trees in maintaining ecological balance. This was followed by a keynote presentation by Dr. Sarah, a renowned environmentalist, who discussed the role of trees in reducing carbon footprints, preventing soil erosion, and enhancing biodiversity. Participants were then shown a documentary highlighting successful tree plantation projects around the world. The documentary served as an inspiration for the audience, demonstrating the positive impact that tree-planting efforts can have on local and global environments. A practical workshop was conducted after the presentations, where participants learned the correct techniques for planting and nurturing saplings. Experts provided hands-on guidance, covering topics such as soil preparation, watering schedules, and pest control. Attendees were also given the opportunity to ask questions and seek advice on their tree-planting initiatives.



  
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# RAAK ARTS AND SCIENCE COLLEGE

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## Participation Student List

|    |             |                  |
|----|-------------|------------------|
| 1  | 43217U17023 | KARKUZHALI V     |
| 2  | 43217U17024 | KAVIRASU S       |
| 3  | 43217U17025 | KRISHNARAJ S     |
| 4  | 43217U17026 | LOGESH S         |
| 5  | 43217U17027 | MALATHI D        |
| 6  | 43217U17028 | MOULI M          |
| 7  | 43217U17029 | NAGARAJAN S      |
| 8  | 43217U17030 | NAGARJUN M       |
| 9  | 43217U17031 | NARESH B         |
| 10 | 43217U17032 | NARESH S         |
| 11 | 43217U17033 | NATHIPRIYA A     |
| 12 | 43217U17034 | NAVEEN B         |
| 13 | 43217U17035 | PERUMAL P        |
| 14 | 43217U17036 | PRAVEEN KUMAR B  |
| 15 | 43217U17037 | PREMAVATHI D     |
| 16 | 43218U17037 | PAVITHRA B       |
| 17 | 43218U17039 | PRADEEP E        |
| 18 | 43218U17040 | PRASANTH A       |
| 19 | 43218U17041 | PRAVEEN A A      |
| 20 | 43218U17042 | PRAVIN S         |
| 21 | 43218U17043 | PRIYANKA S       |
| 22 | 43218U17044 | PUNITHATHAVALI S |
| 23 | 43218U17045 | PUSHAPAPRIYA S   |
| 24 | 43218U17046 | RAMYA K          |
| 25 | 43218U17047 | SAMUNDEESWARAI K |



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|    |             |                      |
|----|-------------|----------------------|
| 26 | 43218U17048 | SANTHIYA S           |
| 27 | 43218U17049 | SASIDHARAN V         |
| 28 | 43218U17050 | SAVITHA P            |
| 29 | 432PCM17002 | GANAPATHY            |
| 30 | 43218P09001 | APARNA. M            |
| 31 | 43218P09002 | DEVANATHAN.I         |
| 32 | 43218P09003 | KESAVAN.V            |
| 33 | 43218P09004 | MAGESHKUMAR.D        |
| 34 | 43218P09005 | MARGARET ROSINE.H    |
| 35 | 43218P09006 | PRAVEEN.B            |
| 36 | 43218P09007 | RATHINAGIRI.J        |
| 37 | 43218P09008 | SAKTHI.B             |
| 38 | 43218P09009 | SAMUNDEESWARI.S      |
| 39 | 43218P09010 | SUBRAMANIYAN.K       |
| 40 | 43218P09011 | TAMIZH ILANKUMARAN.R |
| 41 | 43217P15001 | JAYAPRAKASH.M        |
| 42 | 43217P15002 | JENIFER GRACY.L      |
| 43 | 43217P15006 | TAJUDVEEN.K          |
| 44 | 43218P15011 | ARUL.M               |



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