Nallamuthu Gounder Mahalingam College

(An Autonomous Institution, Affiliated to Bharathiar University)

90, Palghat Road, Pollachi - 642001, Coimbatore, Tamil Nadu, India.

95th Rank in NIRF – 2023 among Colleges in India.

Metric: 7.1.6 Quality audits on environment and energy are regularly undertaken by the institution. The institutional environment and energy initiatives are confirmed through the following:

All four are Claimed

1. **Green audit / Environmental audit 2. Energy audit**
3. **Clean and green campus recognitions/awards**
4. **Beyond the campus environmental promotion and sustainability activities**

Policy Document on Environment and Energy Usage, Certificate/Award from the Auditing Agency/Recognized Agency, Report on Environmental Promotional Activities conducted beyond the Campus, Geo-tagged Photos, Any Other Supporting Documents are given below

Sl. No	Description	Page No.
1.	Policy Document on Environment and Energy Usage	CLICK HERE
2.	i) Green, Environment and Energy Certificates from Auditing Agency	CLICK HERE
	ii) Certificates of the awards received from recognized agency	CLICK HERE
	iii) Certificates of the awards received by Students from recognized agencies	CLICK HERE
3	Green, Environment and Energy Audit Report from Auditing Agency	CLICK HERE
4.	Report on Environmental promotion and sustainability activities conducted beyond the campus	CLICK HERE
5.	Any other Supporting Documents of the Environmental Promotion and Sustainability activities	CLICK HERE
6.	Display Boards on Energy Saving and Water Saving	CLICK HERE

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Policy Document on Environment and Energy Usage

NALLAMUTHU GOUNDER MAHALINGAM COLLEGE
(AUTONOMOUS AND AFFILIATED TO BHARATHIAR UNIVERSITY)
Re-Accredited by NAAC
An ISO 9001 : 2015 Certified Institution
Aided by the Government of Tamilnadu
POLLACHI - 642 001.
Estd : 1957
Phone : 04259 - 234868, 234870
Mobile : 99429 06687
Fax : 04259 - 234869
E-Mail : ngm@ngmc.org

DATE

Policy Document on Environment and Energy Usage

The policy document outlines a comprehensive framework for environmental management and energy usage within the college campus. By implementing the following measures, the college strives to create a healthy, sustainable, and energy-efficient learning environment for its students, faculty, and broader community. Regular monitoring, enforcement, and education efforts ensure that these policies are effectively implemented and contribute to the long-term environmental and energy goals of the institution.

- Utilize rainwater harvesting techniques to recharge underground acquifiers.
- Utilize open wells for irrigation, groundwater recharge, and emergency water supply.

• Ensure proper maintenance and safety measures of the wells to maintain them as perennial water source and to prevent contamination and accidents.

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- Utilize borewells as a supplementary water source for irrigation and other non-potable uses.
- Install underground tanks to store water from borewells and rainwater harvesting systems.
- Maintain and monitor borewells and tanks to ensure water quality and prevent contamination.
- Collaborate with vendors and establish Memorandums of Understanding (MoUs) for effective waste management.
- Implement a comprehensive waste segregation and recycling program to reduce landfill waste.
- Promote composting of organic waste to create nutrient-rich soil for landscaping and gardening.
- Conduct regular waste audits to monitor waste generation and identify opportunities for improvement.
- Design landscapes to provide shade and reduce heat.
- Utilize plants to absorb pollutants and improve air quality.

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DATE

• Utilize solar energy to power campus buildings, lighting, and other electrical systems.

• Monitor solar panel performance and track energy savings to optimize their efficiency.

• Replace incandescent and fluorescent lights with energy-efficient LED lights throughout campus.

• Install sensor-based systems to automatically turn off lights and appliances when not in use.

• Conduct regular inspections and Environmental and Energy audits to verify compliance and identify areas for improvement.

• Implement corrective actions as needed to address any deviations from policies.

• Communicate results of monitoring and enforcement activities to stakeholders.

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- Establish a campus-wide environmental and energy related Maintenance committee to oversee the implementation and monitoring of this policy.
- Monitor environmental and energy performance and respond to any related issues.
- Promote energy-efficient practices among students and staff, such as use of day light, turning off lights and appliances when not in use.
- Develop educational materials and conduct workshops on environmental sustainability and energy conservation.
- Encourage student and faculty involvement in environmental and energy initiatives through research, internships, extension and outreach programs.

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7.1.6 Quality audits on environment and energy are regularly undertaken by the institution

GREEN, ENVIRONMENT AND ENERGY CERTIFICATES FROM AUDITING AGENCY (2020 – 2023)

Certificate Of Green Audit

This is to certify that **Nallamuthu Gounder Mahalingam College, Pollachi** has conducted a detailed Green Audit of their campus for the academic year 2020 – 2021 and has submitted the necessary data and credentials for scrutiny. The activities and measures carried out by the College have been verified based on the field visit and were found to be **Good**. The efforts taken by the faculty and students towards green environment and sustainability are highly appreciated and commendable.

C.JEBARAJ, B.Tech., PGDEM
EA- 9847 – BEE Certified Energy Auditor & Manager
IRCA Certified Lead Auditor - OHSMS
Internal Auditor – QMS

Alcheme Green Energy Company

Madurai Office: 6, Jawahar Nagar, 8th Street, Tirumangalam, Madurai - 625706
Tirupur Office: 37/13-A, F-6, Ganga Nagar 1st Street, Tirupur – 641 602.

Certificate

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LAKSHMANAKUMARAN S, B.Tech., M.Sc. (Env. Science), MBA
CQI IRCA Certified Lead Auditor ISO 14001:2015 EMS (UID: 351851)

C.JEBARAJ, B.Tech., PGDEM
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IRCA Certified Lead Auditor - OHSMS
Internal Auditor – QMS
CII Certified Carbon footprint Professional

Alcheme Green Energy Company
Madurai Office: 6, Jawahar Nagar, 8th Street, Tirumangalam, Madurai – 625 706 .
Coimbatore Office: #70, Race course Road, Gopalapuram, Coimbatore – 641 018
Chennai Office: Plot #21B, 5th Cross Street, South Phase Industrial Estate, Guindy, Chennai – 600 032

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Certificates of the awards received from recognized agency

Sl. No	Name of the Awarding Agency	Page No.
1.	Lions International – Green Pride Award	2
2.	National Rural Institutions Sustainability Grading	3
3.	Government District Head Quarters Hospital – Swachh Bharat Abhiyan	4
4.	Mahatma Gandhi National Council of Rural Education (1)	5
5.	Mahatma Gandhi National Council of Rural Education (2)	6
6.	Pollachi Train Passengers Welfare Association	7
7.	Yaavarum Kelir Trust (Appreciation for Planting 250 Trees in Nallampalli Village)	8
8.	Yaavarum Kelir Trust (Appreciation for Planting 30 Trees in Govt., Boys Higher Secondary School)	9
9.	Yaavarum Kelir Trust (Appreciation for Planting 20 Trees in Vadugapalayam – Primary School)	10

NALLAMUTHU GOUNDER MAHALINGAM COLLEGE POLLACHI

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Lions International - Green Pride Award

LIONS INTERNATIONAL

DISTRICT 324 C 2023- 2024

GREEN PRIDE AWARD

to

NGM COLLEGE

Pollachi

FOR THE CONTRIBUTION OF THE INSTITUTION TO A GREEN ENVIRONMENT IN THE AREAS OF WATER CONSERVATION, ENERGY EFFICIENCY AND WASTE MANAGEMENT

YOUR EFFORTS HAVE MADE A POSITIVE DIFFERENCE IN THE ENVIRONMENT AND THE COMMUNITY.

MJF P. Manirathnam
Region Chairperson - Region : Puhazh

MJF Adv. N. Jeyasekaran
District Governor

...IU GOUNDER
POLLACHI
MAHALINGAM COLLEGE

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Criteria: **VII : Institutional Values and Best Practices**

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National Rural Institutions Sustainability Grading

Ministry of Education

Government of India

महात्मा गांधी राष्ट्रीय ग्रामीण शिक्षा परिषद / Mahatma Gandhi National Council of Rural Education

उच्च शिक्षा विभाग/Department of Higher Education

शिक्षा मंत्रालय / Ministry of Education

Certificate of Accreditation

This is to certify that Nallamuthu Gounder Mahalingam College, POLLACHI, COIMBATORE, TAMIL NADU is graded as

Parameters	Green Cover on campus	Surface Water Harvesting	Rooftop Water Harvesting	Rooftop Solar System	Waste Management
Grades	A+	A	A+	A	A

for the academic year of 2022-23 in Phase 1 of the

National Rural Institutions Sustainability Grading (NRISG)

N. Jegalakshmi.

Member Secretary

Date: March 2023

Certificate NO: MGNCRE/NRISG/1005

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N. G. M. COLLEGE, POLLACHI

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Government District Head Quarters Hospital – Swachh Bharat Abhiyan

GOVERNMENT DISTRICT HEAD QUARTERS HOSPITAL, POLLACHI

Certificate of Appreciation

Presented to Nallamuthu Gounder Mahalingam College, Pollachi, as a token of gratitude for the NCC Cadets' involvement in the **Swachh Bharat Abhiyan** and their help in cleaning our hospital premises on November 15, 2022.

15.11.2022

Place : Pollachi
Date : 15/11/2022

Dr. E. RAJA, *MBSS, Dch*
Hospital Superintendent,
Government District Head Quarters Hospital, Pollachi

NALLAMUTHU GOUNDER MAHALINGAM COLLEGE POLLACHI

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Mahatma Gandhi National Council of Rural Education (1)

Mahatma Gandhi National Council of Rural Education
Department of Higher Education, Ministry of Education, Government of India

Certificate of Appreciation

This is to acknowledge that ***Nallamuthu Gounder Mahalingam College (Autonomous), Coimbatore*** *has successfully participated in providing institutional details of Environmental Sustainability Index Aspects and supported the MGNCRE-District Sustainability Mentor's field visit to their Institution during March 2022.*

Date of Issue: 15 May 2022

PRINCIPAL
N. G. M. COLLEGE, POLLACHI

Dr W G Prasanna Kumar
Chairman MGNCRE

Cert No. MGNCRE/SIP/TN/11

NALLAMUTHU GO... MAHALINGAM COLLEGE

Criteria: **VII : Institutional Values and Best Practices**

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Mahatma Gandhi National Council of Rural Education (2)

Certificate

This is to appreciate that the Institutional Success Story of NALLAMUTHU GOUNDER MAHALINGAM COLLEGE, Coimbatore District, Tamil Nadu has been showcased in our monthly Swachhta Action Plan Implementation Program of February 2022 with the support of Dr. R. Muthukumaran, Head of the Institution. The Swachhta team of the institution has completed the activity based program "Showcase! The Success of Sustainability". The Swachhta Action Plan of the Higher Education Institution is elevated in the sustainability components: Greenery, Water, Energy, Waste Management and Land use Management. The program is organized by Mahatma Gandhi National Council of Rural Education, Hyderabad.

Date of Issue:
16/3/2022

B Sharath Chandra Naveen Kumar
SAP 2021-22 Project, National Monitoring Officer
MGNCRE MoE GoI mgncre.org

Mahatma Gandhi National Council of Rural Education
Department of Higher Education, Ministry of Education
Government of India

Certificate No.: MoE/SESREC/N/77

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Pollachi Train Passengers Welfare Association

POLLACHI TRAIN PASSENGERS WELFARE ASSOCIATION

Certificate of Appreciation

Presented to Nallamuthu Gounder Mahalingam College, Pollachi, in appreciation of the service rendered by the NCC Cadets during the **Swachh Hi Seva Cleanliness drive** and in the inaugural function of the service Train No.56184/56183 Pollachi – Coimbatore – Pollachi Passenger conducted at Pollachi Junction railway station on 15th October 2019.

Place : Pollachi

Date : 15/10/2019

15/10/19

POLLACHI TRAIN PASSENGERS WELFARE ASSOCIATION
10/1, M.G. Nagar, Sulaveerenpatti,
POLLACHI - 642 006.
Mob : 94431 16499

PRINCIPAL
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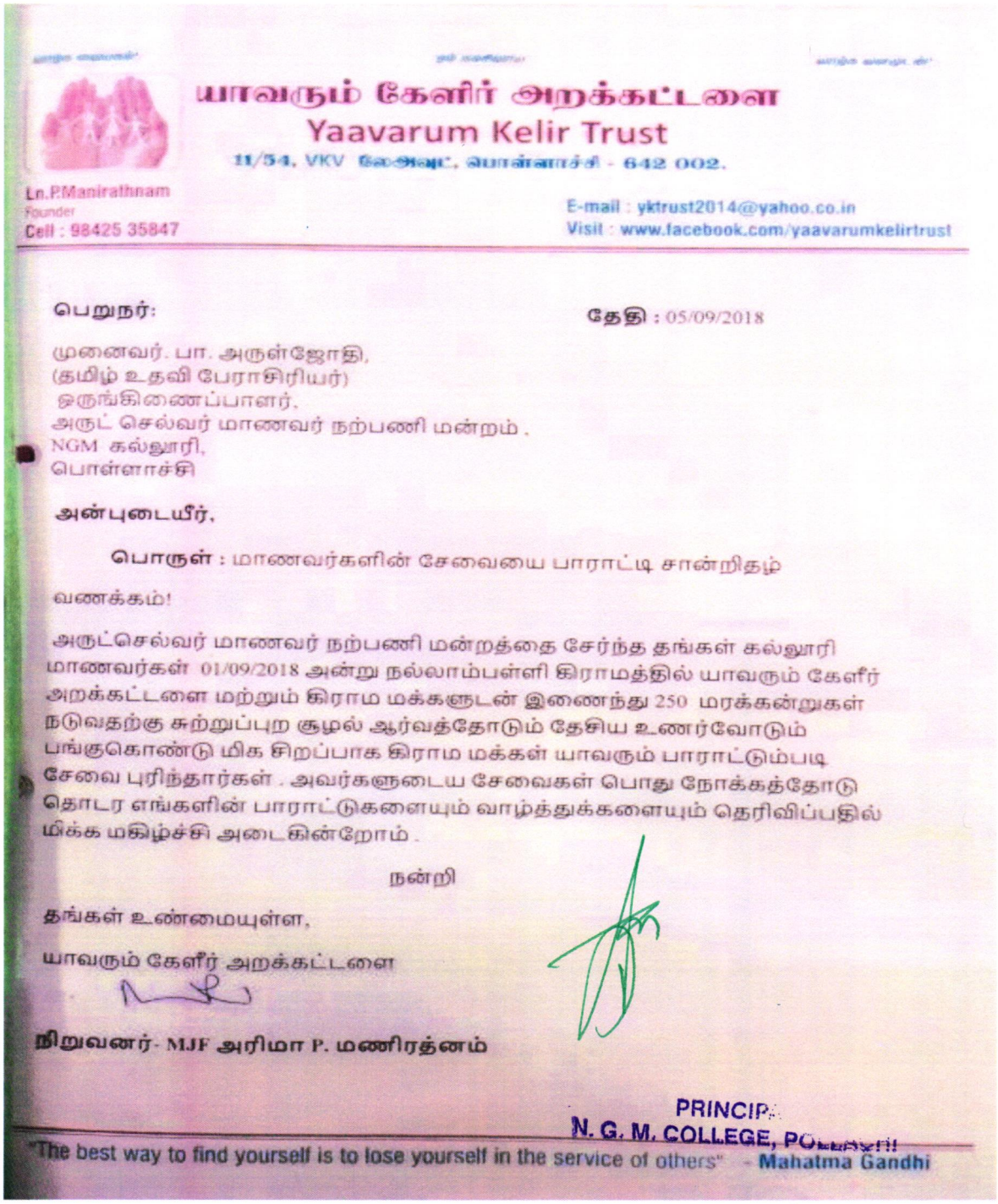
Yaavarum Kelir Trust – Appreciation for Planting 250 Trees



யாவரும் கேளிர் அறக்கட்டளை
Yaavarum Kelir Trust
11/54, VKV [illegible], பொள்ளாச்சி - 642 002.

Ln.P.Manirathnam
Founder
Cell : 98425 35847

E-mail : yktrust2014@yahoo.co.in
Visit : www.facebook.com/yaavarumkelirtrust

பெறுநர்:

தேதி : 05/09/2018

முனைவர். பா. அருள்ஜோதி,
(தமிழ் உதவி பேராசிரியர்)
ஒருங்கிணைப்பாளர்,
அருட் செல்வர் மாணவர் நற்பணி மன்றம்,
NGM கல்லூரி,
பொள்ளாச்சி

அன்புடையீர்,

பொருள் : மாணவர்களின் சேவையை பாராட்டி சான்றிதழ்

வணக்கம்!

அருட்செல்வர் மாணவர் நற்பணி மன்றத்தை சேர்ந்த தங்கள் கல்லூரி மாணவர்கள் 01/09/2018 அன்று நல்லாம்பள்ளி கிராமத்தில் யாவரும் கேளீர் அறக்கட்டளை மற்றும் கிராம மக்களுடன் இணைந்து 250 மரக்கன்றுகள் நடுவதற்கு சுற்றுப்புற சூழல் ஆர்வத்தோடும் தேசிய உணர்வோடும் பங்குகொண்டு மிக சிறப்பாக கிராம மக்கள் யாவரும் பாராட்டும்படி சேவை புரிந்தார்கள். அவர்களுடைய சேவைகள் பொது நோக்கத்தோடு தொடர எங்களின் பாராட்டுகளையும் வாழ்த்துக்களையும் தெரிவிப்பதில் மிக்க மகிழ்ச்சி அடைகின்றோம்.

நன்றி

தங்கள் உண்மையுள்ள,

யாவரும் கேளீர் அறக்கட்டளை

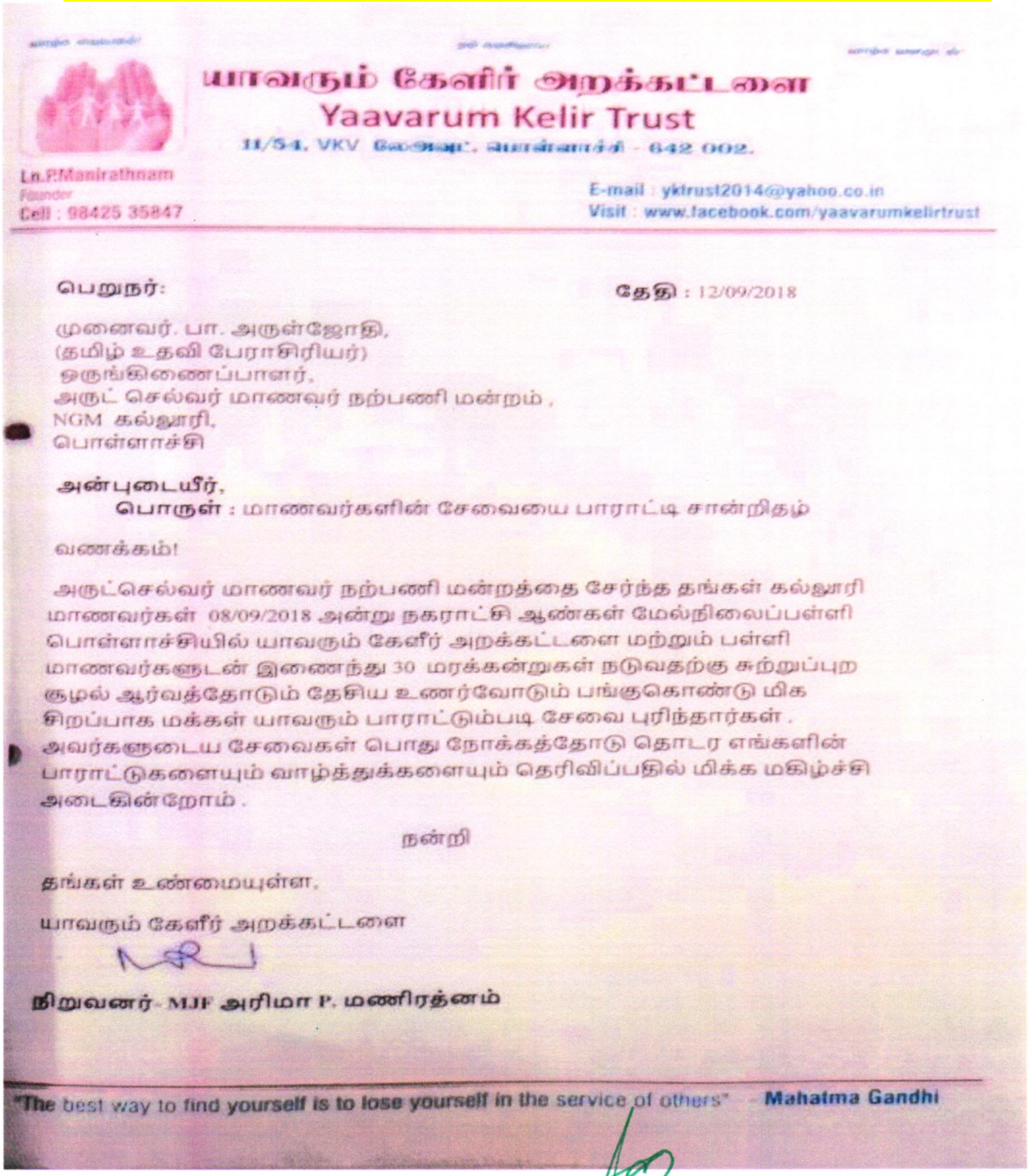
நிறுவனர்- MJF அரிமா P. மணிரத்னம்

PRINCIPAL
N. G. M. COLLEGE, POLLACHI

"The best way to find yourself is to lose yourself in the service of others" - Mahatma Gandhi

NALLAMUTHU GOUNDER MAHALINGAM COLLEGE POLLACHI

Yaavarum Kelir Trust – Appreciation for Planting 30 Trees



யாவரும் கேளிர் அறக்கட்டளை

Yaavarum Kelir Trust

11/54, VKV லேஅவுட், பொள்ளாச்சி - 642 002.

Ln.P.Manirathnam
Founder
Cell : 98425 35847

E-mail : yktrust2014@yahoo.co.in
Visit : www.facebook.com/yaavarumkelirtrust

பெறுநர்: தேதி : 12/09/2018

முனைவர். பா. அருள்ஜோதி,
(தமிழ் உதவி பேராசிரியர்)
ஒருங்கிணைப்பாளர்,
அருட் செல்வர் மாணவர் நற்பணி மன்றம் ,
NGM கல்லூரி,
பொள்ளாச்சி

அன்புடையீர்,
பொருள் : மாணவர்களின் சேவையை பாராட்டி சான்றிதழ்

வணக்கம்!

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நன்றி

தங்கள் உண்மையுள்ள,

யாவரும் கேளீர் அறக்கட்டளை

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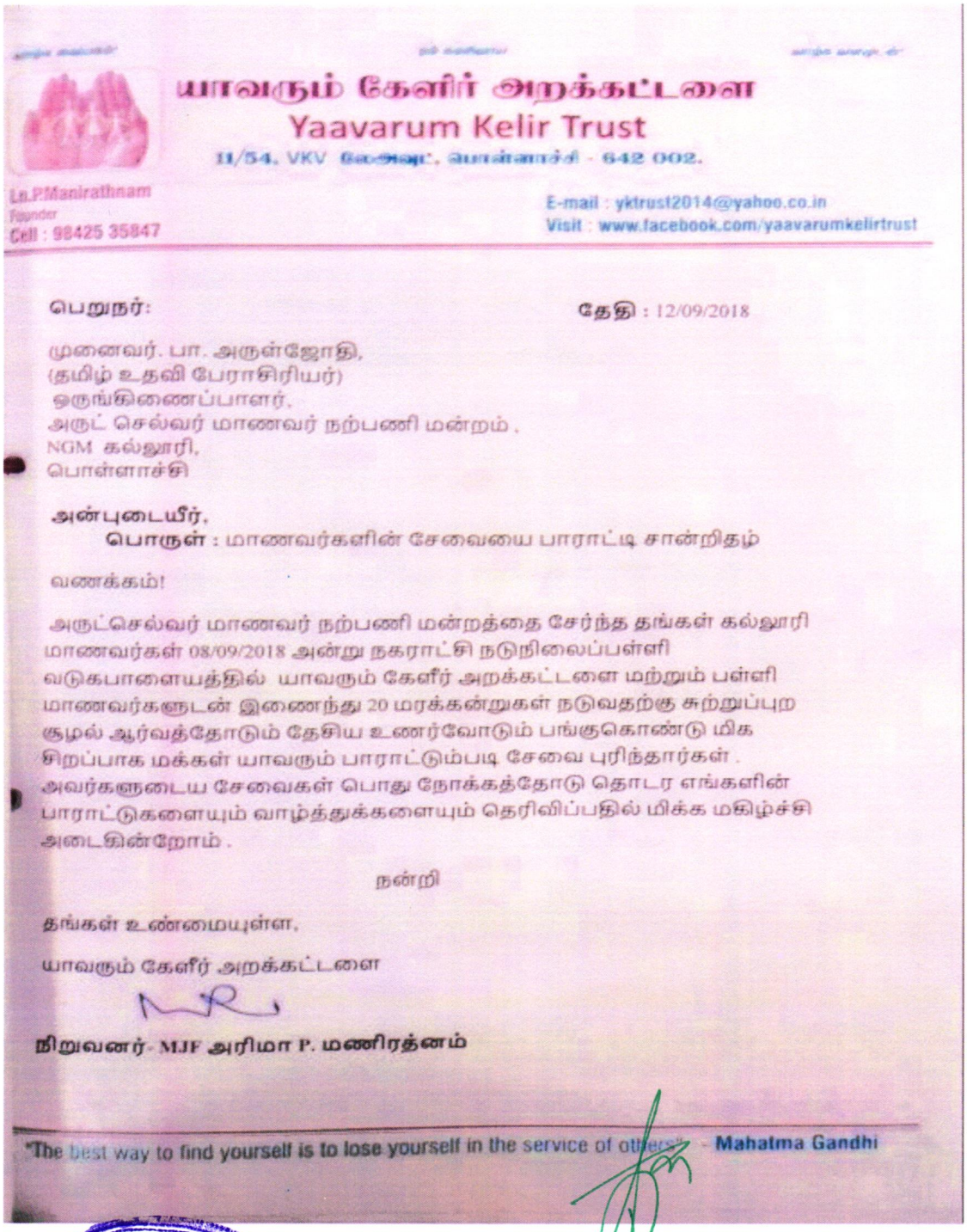
95th Rank in NIRF – 2023 among Colleges in India.

Yaavarum Kelir Trust – Appreciation for Planting 20 Trees



யாவரும் கேளிர் அறக்கட்டளை
Yaavarum Kelir Trust
11/54, VKV [illegible], பொள்ளாச்சி - 642 002.

Le.P.Manirathnam
Founder
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பெறுநர்:

தேதி : 12/09/2018

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NGM கல்லூரி,
பொள்ளாச்சி

அன்புடையீர்,
பொருள் : மாணவர்களின் சேவையை பாராட்டி சான்றிதழ்

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நன்றி

தங்கள் உண்மையுள்ள,

யாவரும் கேளீர் அறக்கட்டளை

நிறுவனர்- MJF அரிமா P. மணிரத்னம்

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95th Rank in NIRF –2023 - Among Colleges in India.

7.16. Quality audits on Environment and energy are regularly undertaken by the institution

Certificates of the Awards received by Students from Recognized Agencies

SOUTHERN RAILWAY
PALAKKAD DIVISION

PARTICIPATION CERTIFICATE

Presented to S. Deepa, Bsc. Maths
IInd year, a NCC Cadet of NGM College, Pollachi, in appreciation for ~~his~~ / her participation in the Swachhata Hi Seva Cleanliness drive and in the inaugural function of the service of Train No.56184/56183 Pollachi - Coimbatore - Pollachi Passenger conducted at Pollachi Junction railway station on 15th October 2019.

Pollachi Junction
15. 10. 2019

एम के गोपिनाथ M.K. GOPINATH
Station Manager/Officer

PRINCIPAL
N.G.M COLLEGE, POLLACHI

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SOUTHERN RAILWAY

PALAKKAD DIVISION

PARTICIPATION CERTIFICATE

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Public Relations Officer

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SOUTHERN RAILWAY

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NGMC IQAC

SOUTHERN RAILWAY

PALAKKAD DIVISION

PARTICIPATION CERTIFICATE

Presented to T. Srija Bsc. IT

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जन संपर्क अधिकारी Public Relations Officer
दक्षिण रेलवे, पालकाड - 678 002
Station Manager/Officer

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NALLAMUTHU GO... POLLACHI ... MAHALINGAM COLLEGE

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जन संपर्क अधिकारी Public Relations Officer
पालक्काड Palakkad - 678 202

Station Manager/Officer

PRINCIPAL
N G M COLLEGE, POLLACHI

NALLAMUTHU GO... POLLACHI MAHALINGAM COLLEGE

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PARTICIPATION CERTIFICATE

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दक्षिण रेलवे/पालक्काड - 678 002

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NGMC IQAC

SOUTHERN RAILWAY

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PARTICIPATION CERTIFICATE

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M.R. GOPINATH
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Presented to ..... R. Gomathi, Bsc. English .....

..... IIIrd year ....., a NCC Cadet of NGM College, Pollachi, in appreciation for ~~his~~ / her participation in the Swachhata Hi Seva Cleanliness drive and in the inaugural function of the service of Train No.56184/56183 Pollachi - Coimbatore - Pollachi Passenger conducted at Pollachi Junction railway station on 15th October 2019.

Pollachi Junction
15. 10. 2019

NALLAMUTHU GOUNDER MAHALINGAM COLLEGE POLLACHI

एम.के.गोपीनाथ/M.K.GOPINATH
जन संपर्क अधिकारी/Public Relations Officer
दक्षिण रेल/Southern Rail

Station Manager/Officer

PRINCIPAL
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Nallamuthu Gounder Mahalingam College

(An Autonomous Institution, Affiliated to Bharathiar University)
90,Palghat Road,Pollachi -642001,Coimbatore, Tamil Nadu, India.
95th Rank in NIRF –2023 - Among Colleges in India.

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7.1.6 Quality audits on environment and energy are regularly undertaken by the institution

GREEN, ENVIRONMENT AND ENERGY AUDIT REPORTS (2020 – 2023)

NALLAMUTHU GOUNDER MAHALINGAM COLLEGE

(Autonomous Institutions -Affiliated to Bharathiar University)

ISO 9001:2015 Certified and Re-Accredited with B Grade by NAAC

POLLACHI – 642001,

TAMILNADU, INDIA

GREEN AUDIT REPORT

2020 - 2021

AUDIT / REPORT BY

ALCHEME GREEN ENERGY COMPANY
73977 64900
99948 45487
info@alchemegreenenergy.com

ACKNOWLEDGEMENT

We at Alcheme Green Energy Company, Madurai are thankful to the Principal for giving us the opportunity to carry out Green audit of Nallamuthu Gounder Mahalingam College , Pollachi -642 001, Tamilnadu, India. Alcheme Green Energy Company team is also thankful to all other supporting Officers / Staffs of the above institute for their wholehearted support, hospitality and the courtesy extended to the Audit team during the course of the visit.

The following officers from Alcheme Green Energy Company under the guidance of Mr. C. Jebaraj, B.Tech., have carried out the Green Audit.

Name	Qualifications	Certification Number
Mr. C. Jebaraj	B.Tech., PDGEM., DIS., BEE Certificated Energy Auditor, IRCA Certified Lead Auditor - OHSMS Internal Auditor-QMS	EA-9847
Mr. S. Lakhsmana Kumaran	B. Tech., MSc.,(Env. Science), MBA., IRCA Certified Lead Auditor ISO 14001 EMS	UID - 351851

The following staff from the Institution were participated in the audit process

Name	Qualification	Designation
Dr. R. Muthukumaran	M.A., M.Phil., B.Ed., Ph.D.,	Principal
Dr. R. Manicka Chezhian	M.Sc., M.S., Ph.D.,	IQAC Co-Ordinator
Thiru. K. Srinivisan	M.C.A	Associate Professor Department of Computer Science ERP Co-Ordinator
Dr. A. Srividhya	M.A., M.Phil., Ph.D.,	Assistant Professor Department of English
Dr. P. Archanaa	M.Com., M.Phil., PGDCA., Ph.D., M.A[HINDI]	Assistant Professor PG Department of Commerce with Computer Applications
Dr. A. Kanakaraj	MCA., M.Sc., M.Phil., Ph.D., DIR	Assistant Professor PG Department of Computer Science

Index

Sl. No.	Contents	Page No
1	Summary of the Green Audit	4
1.1	Green Environmental policy	6
1.2	Total Campus Area	6
1.3	NAAC Grading	6
1.4	Campus Infrastructure	7
2.0	Pre-Audit Stage	9
2.1	Management's Commitment	9
2.2	Scope and Goals of Green Auditing	9
2.3	Benefits of Green Auditing	10
2.4	Target Areas of Green Auditing	10
3.0	Audit Stage	13
3.1	Student Clubs and Forums	13
3.2	Comments on Site Tour	13
3.3	Review of Documents and Records	13
3.4	Review of Policies	14
3.5	Interviews	14
3.6	Site Inspection	14
4.0	Post Audit Stage	15
4.1	Key Findings ,Observations and Evaluations	15
4.2	Consolidation of Audit Findings	34
4.3	Preparation of Action Plan	36
4.4	Follow-up Action and Plans	36
4.5	Environmental Education	36
4.6	Recommendations	37
	Annexure	38

I. Summary of the Green Audit

Green audit of Nallamuthu Gounder Mahalingam College and its Hostel was carried by Alcheme Green Energy Company. The green audit reports assist in the process of attaining an eco- friendly approach to the sustainable development of the college. Green audit report is a very powerful and valuable communications tool to use when working with various stakeholders who need to be convinced that things are running smoothly and systems and procedures are coping with natural changes and modifications that occur.

A few recommendations are added to curb the menace of waste management using eco-friendly and scientific techniques. This will lead to a prosperous future in context of Green Campus leading to sustainable environment and community development. It has been proved frequently that the practical suggestions, alternatives and observations that have resulted from audits have added positive value to the audited organisation. It is hoped that the results presented in the Green Audit Report will serve as a guide for educating Nallamuthu Gounder Mahalingam College, on the existing environment related practices and resource usage and spawn new activities and innovative practices.

Noteworthy activities

- Clean , Green and plastic free campus
- Maximum utilisation of public transport system by students and staff for commutation is highly appreciable
- Optimum utilisation of Water
- Excellent Solar water Heater system for both Boys and Girls at Hostel
- Hot water from Solar water heater is used in the hostel for cooking to reduce the LPG consumption
- Grey water treatment facilities at Boys Hostel

The audit outputs and recommendations are summarised as follows:

- Total water consumption for Nallamuthu Gounder Mahalingam College and Hostel –75 KL/Day

- Electrical Energy consumption from TNEB GRID alone –2,13,063 units (Less due to more number of on line classes because of Corona)
- Diesel Generator electrical energy consumption - 14,850 units
- Total Electrical Energy consumption is 2,28,351 units
- Total Green House Gas Emission is 227.78 t CO_2e
- Green House gas captured by grown up trees is 19.87 t CO_2 e
- Net Green House Gas emission is 207.91 t CO_2 e

We are happy to submit this detailed green audit report to the Nallamuthu Gounder Mahalingam College

For Alcheme Green Energy Company

Madurai

1.1 Green Policy

Nallamuthu Gounder Mahalingam College has formulated a Green Policy to guide all its green initiatives. Cleanliness in the campus is maintained through proper disposal of wastes, utilization of eco-friendly supplies and effective recycling program. The concept of eco-friendly culture is disseminated among the students through various seminars/workshops and community-oriented programs. Institution strictly follows reduce, reuse and recycle method to limit energy usages

The main objectives are as follows:

- To promote green growth ,create green jobs and maintain green infrastructure
- To execute “Reduce, Reuse, Recycle and Re- earth “ towards waste management, environmental protection and sustainable future
- To reduce potable water consumption
- To create environmental awareness among all the stakeholders of the institution
- To assess and regulate environmental practices of the institution periodically

The Institution vouchsafes:

- Its commitment to sustainability and environmental management
- It reiterates the stand that managing environmental issues is a high priority for the College
- Its commitment to prevent pollution and to continuously improve upon environmental protection.
- A commitment to create environmental awareness

1.2 Total Campus Area & Building Spread Area

- Campus area -**25.98 Acres**
- Build up area – **367644.3** sq.ft.

1.3 NAAC Grading

- Accredited with ‘B’ Grade by NAAC

1.4 Campus Infrastructure

Nallamuthu Gounder Mahalingam College is located in calm and quiet surroundings that are conducive to learning. It helps to stimulate both personal and professional growth of the students. The campus is located about 5 Kms from Pollachi .

CLASS ROOMS

Spacious, well ventilated and well-equipped classrooms with projectors and screens facilitate and reinforce effective teaching-learning experience for the faculty and students.

LABORATORIES

Nallamuthu Gounder Mahalingam College has set up highly advanced science and computer laboratories attached to different departments. These are adequately equipped with the latest gadgets, instruments and apparatus with the aim of providing students conceptual as well as practical understanding of the subject through hands-on training.

LIBRARY

The library is a central facility in the college and is fully automated with OPAC (online Public Access Catalogue) system. The Library has a stock of more than 64,000 books, including 52,000 titles and a supply of 63 journals and 45 magazines. CD/DVDs, e-journals, on-line database and audio-video cassettes are also available for reference installed CCTV.

The Central Library aims at enhancing readership and encourage the research and academic activities in the College by rendering information service to all kind of users.

The library is dedicated to support the student's activities and programs of the institution. It accomplishes college mission by maintaining up- to–date collection of books, journals audio-visual items and other library materials related to study.

A rich collection of books and Journals, Magazines, periodicals, reports, reference material are available in the library. Various e-contents and e-Resources are available to facilitate e-Learning.

The library also responds to the needs of the teaching staff for effective teaching and research. To the credit, the library has attracted many research scholars from the neighbourhood colleges in and around Pollachi for reference..

INTERNET

College is fully equipped with round the clock internet facility with 50 Mbps Leased Line internet access to all students

DRINKING WATER

Water is not just an ordinary need to the human beings. It plays a vital role in our life hence the institution gives more care towards the provision of safe water to everyone. The college has installed an Water Doctor which supply pure and safe drinking water.

LANGUAGE LAB

The Technology enabled Language Lab to experiment new educational concepts is available for students studying in the English / Tamil Department. This lab enhances instruction in the classroom by providing computer access and exercises in listening, speaking, reading and writing. Exercises are provided by individual instructors

The primary goals of the computer labs and classrooms is to provide assistance to students that will enhance their chances of succeeding in technology-based classroom assignments and to provide access to equipment that will support the needs of instruction where we celebrate life-long learning. The computer labs support the curriculum of the college and the assignments of the instructors.

HOSTEL

In the hostel accommodation is provided with quality food, purified drinking water,24 x7 availability of water, Recreation provisions and other amenities. Accommodation is available for undergraduate and postgraduate students. The hostels provide a calm and relaxing atmosphere to accelerate the creative talents of the students. The teachers who act as resident wardens of the hostels provide moral and emotional support and guidance to the inmates. The hostel securities ensure 24 hours safety.

ALGEO

2. Pre-Audit Stage

A pre-audit meeting provided an opportunity to reinforce the scope and objectives of the audit and discussions were held on the practicalities associated with the audit. This meeting is an important prerequisite for the green audit because it is the first opportunity to meet the auditee and deal with any concerns.

The meeting was an opportunity to gather information that the audit team can study before arriving on the site. The audit protocol and audit plan was handed over at this meeting and discussed in advance the audit itself.

In Nallamuthu Gounder Mahalingam College pre-audit meeting was conducted successfully and necessary documents were collected directly from the College before the initiation of the audit processes. Actual planning of audit processes was discussed in the pre-audit meeting. Audit team was also selected in this meeting with the help of staff and the college management.

The audit protocol and audit plan were handed over at this meeting and discussed in advance of the audit itself. The audit team worked together, under the leadership of the lead auditor, to ensure completion within the brief and scope of the audit.

2.1 Management's Commitment

The Management of the college has shown the commitment towards the green auditing during the pre-audit meeting. They were ready to encourage all green activities. It was decided to promote all activities that are environment friendly and planting more trees on the campus etc., after the green auditing.

2.2 Scope and Goals of Green Auditing

A clean and healthy environment aids effective learning and provides a conducive learning environment. There are various efforts around the world to address environmental education issues.

Green Audit is the most efficient and ecological way to manage environmental problems. It is a kind of professional care which is the responsibility of each individual who are the part of economic, financial, social, environmental factor. It is necessary to conduct green audit in the College campus because students become aware of the green audit, its advantages to save the planet and they become good citizens of our country.

A very simple indigenized system has been devised to monitor the environmental performance of Nallamuthu Gounder Mahalingam College, Pollachi. It comes with a series of questions to be answered. This innovative scheme is user friendly. The aim of this is to help the Institution to set environmental examples for the community and to educate the young learners.

2 .3 Benefits of the Green Auditing

- More efficient resource management
- To create a green campus
- To enable waste management through reduction of waste generation, solid-waste and water recycling
- To create plastic free campus and evolve health consciousness among the stakeholders
- Recognize the cost saving methods through waste minimizing and management
- Point out the prevailing and forthcoming complications
- Authenticate conformity with the implemented laws
- Empower the organizations to frame a better environmental performance
- Enhance the alertness for environmental guidelines and duties
- Impart environmental education through systematic environmental management approach and Improving environmental standards
- Benchmarking for environmental protection initiatives
- Financial savings through a reduction in resource use
- Development of ownership, personal and social responsibility for the College and its environment
- Developing an environmental ethic and value systems in youngsters.
- Green auditing should become a valuable tool in the management and monitoring of environmental and sustainable development programs of the college.

2.4 Target Areas of Green Auditing

Green audit forms part of a resource management process. Although they are individual events, the real value of green audits is the fact that they are carried out, at defined intervals and their results can illustrate the improvement.

Eco-campus concept mainly focuses on the efficient use of energy and water; minimize waste generation or pollution and also economic efficiency. All these indicators are assessed in process of “Green Auditing of educational institute”. Eco-campus focuses on the reduction of contribution to emissions, procure a cost effective and secure supply of energy, encourage and enhance energy use conservation, reduce the institute’s energy and water consumption, reduce wastes to landfill and integrate environmental considerations into all contracts and services considered to have significant environmental impacts. Target areas included in this green auditing are water, energy, waste, green campus and carbon footprint.

Auditing for Water Management

Water is a natural resource; all living matters depend on water. While freely available in many natural environments, in human settlements potable (drinkable) water is less readily available. We need to use water wisely to ensure that drinkable water is available for all, now and in future. Aquifer depletion and water contamination are taking place at unprecedented rates. It is therefore essential that any environmentally responsible Institution should examine its water use practices.

Water auditing is conducted for the evaluation of facilities of raw water intake and determining the facilities for water treatment and reuse. The concerned auditor investigates the relevant method that can be adopted and implemented to balance the demand and supply of water. It is therefore essential that any environmentally responsible Institution examine its water use practices.

Auditing for Energy Management

Energy cannot be seen, but we know it is there because we can see its effects in the forms of heat, light and power. This indicator addresses energy consumption, energy sources, energy monitoring, lighting, appliances, and vehicles. Energy use is clearly an important aspect of campus sustainability and thus requires no explanation for its inclusion in the assessment. An old incandescent bulb uses approximately 60 W while an energy efficient light emitting diode (LED) uses only less than 10 W. Energy auditing deals with the conservation and methods to reduce its consumption related to environmental degradation. It is therefore essential that any environmentally responsible institution examine its energy use practices.

Auditing for Waste Management

Pollution from waste is aesthetically unpleasing and results in large amounts of litter in our communities which can cause health problems. This indicator addresses waste production and disposal of plastic waste, paper waste, food waste, and recycling.
Solid waste can be divided into two categories: general waste and hazardous waste. General wastes include what is usually thrown away in homes and schools such as garbage, paper, tins and glass bottles. Hazardous waste is waste that is likely to be a threat to health or the environment like cleaning chemicals and used oils.
Unscientific landfills may contain harmful contaminants that leach into soil and water supplies, and produce greenhouse gases contributing to global climate change. Furthermore, solid waste often includes wasted material resources that could otherwise be channelled into better service through recycling, repair, and reuse. Thus the minimization of solid waste is essential to a sustainable college. It is therefore essential that any environmentally responsible institution examine its waste processing practices.

Auditing for Green Campus Management

Unfortunately, biodiversity is facing serious threats from habitat loss, pollution, over consumption and invasive species. Species are disappearing at an alarming rate and each loss affects nature's balance and our quality of life. Without this variability in the living world, ecological systems and functions would break down, with detrimental consequences for all forms of life, including human beings.

Newly planted and existing trees decrease the amount of carbon dioxide in the atmosphere. Trees play an important ecological role within the urban environment, as well as support improved public health and provide aesthetic benefits to cities. The amount of oxygen that a single tree produces is enough to provide one day's supply of oxygen for people. So while the students are busy studying and working on earning those good grades, all the trees on campus are also working hard to make the air cleaner.

Trees on our campus impact our mental health as well; studies have shown that trees greatly reduce stress, which the students feel.

Auditing for Carbon Footprint

Commutation of stakeholders has an impact on the environment through the emission of greenhouse gases into the atmosphere consequent to burning of fossil fuels (such as petrol). The most common greenhouse gases are carbon dioxide, water vapour, methane, nitrous oxide and ozone. Of all the greenhouse gases, carbon dioxide is the most prominent greenhouse gas, comprising around 415 ppm of the Earth's atmosphere. The release of carbon dioxide gas into the Earth's atmosphere through human activities is commonly known as carbon emissions.

An important aspect of doing an audit is to be able to measure your impact so that we can determine better ways to manage the impact. In addition to the water, waste, energy and biodiversity audits we can also determine what our carbon footprint is, based on the amount of carbon emissions created. One aspect is to consider the distance and method travelled between home and college every day. It undertakes the measure of bulk of carbon dioxide equivalents exhaled by the organization through which the carbon accounting is done. It is necessary to know how much the organization is contributing towards sustainable development. It is therefore essential that any environmentally responsible institution examine its carbon footprint.

3. Audit Stage

In Nallamuthu Gounder Mahalingam College green auditing was done with the help of Alcheme Green Energy Company involving different student groups, teaching and non-teaching staff. The green audit began with the teams walking through all the different facilities at the college, determining the different types of appliances and utilities as well as measuring the usage per item and identifying the relevant consumption patterns and their impacts.

The staff and learners were interviewed to get details of usage, frequency or general characteristics of certain appliances. Data collection was done in the sectors such as Energy, Waste, Greening, Carbon footprint and Water use. College records and documents were verified to clarify the data received through survey and discussions.

3.1 Student Clubs and Forums Involved

- Green Society, National Service Scheme(NSS)

3.2 Comments on Site Tour

Site inspection was done along with students and staff. Questionnaires were answered during the site tour. Students and staff took much interest in the data collection processes. It was quite interesting and fascinating. It was an environmental awareness program for the students who participated in the green auditing. The experience of green auditing was totally a new experience for most of the students. They have shared their expectations about a green campus and gave suggestions for the audit recommendations.

3.3 Review of Documents and Records

Documents such as electricity and water charge remittance, laboratory equipment registers, audited statements and office registers were examined and data were collected. College calendars, college magazines, annual report of the college and NAAC self-assessment reports, UGC report etc. were also verified as a part of data collection.

3.4 Review of Policies

Discussions were made with the College management regarding their policies on environmental management. Future plans of the college were also discussed. The management would formulate an environment /green policy for the college in the light of green auditing. The purpose of the green audit was to ensure that the practices followed in the campus are in accordance with the Green Policy adopted by the Institution.

3.5 Interviews

In order to collect information for green auditing different audit groups interviewed teaching and non-teaching staff, students and other stakeholders of the college.

3.6 Site inspection

College and its premises were visited and analysed by the audit-teams several times to gather information. Campus trees were counted and identified. Medicinal /Herbal plants garden, play grounds, canteen, library, office rooms and parking grounds were also visited to collect data. Number and type of vehicles used by the stakeholders were counted. Number of LPG cylinders used in labs, canteen and hostel kitchen were also counted.

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4. Post Audit Stage

The base of any green audit is that its findings are supported by documents and verifiable information. The audit process seeks, on a sampled basis, to track past actions, activities, events, and procedures to ensure that they are carried out according to systems requirements and in the correct manner.

Green audits form a part of a process. Although they are individual events, the real value of green audits is the fact that they are carried out, at defined intervals, and their results can illustrate improvement or change over time. Although green audits are carried out using policies, procedures, documented systems and objectives as a test, there is always an element of subjectivity in an audit.

The essence of any green audit is to find out how well the environmental organisation, environmental management and environmental equipment are performing. Each of the three components is crucial in ensuring that the organisation's environmental performance meets the goals set in its green policy. The individual functioning and the success of integration will all play a role in the degree of success or failure of the organisation's environmental performance.

4.1 Key Findings, Observations and Evaluations

a) Water Usage at Nallamuthu Gounder Mahalingam College

Total number of students studied during the academic year 2020-2021: 5388

Teaching & non-Teaching staff in the institution during the academic year 2020-2021:258

Total number of stake holders: 5646

Water for college and hostel

Municipal water- 34,000 litres/day

Borewell water-41,000 litres/day

Total water usage -75, 000 litres/day

Main water uses in the College campus are Drinking, Rest room, Canteen and Lab

Water usage in the College- 47 KL / Day

Water usage per day per stakeholder in the college – 8.7 litres

Water usage at College

Sl. No	Place	Water usage Quantity Litres / Day
1	Drinking	6000
2	Rest room	24000
3	Canteen	6000
4	Lab	1000
5	Garden	10000
	Total	**47,000**

Waste water generation in the college – 31 KL/day

Water usage at Hostel

Number of students and staff residing in the hostel in the year 2020-2021: 300

Main water uses in the Hostel are Drinking, Washing of clothes, Cooking & Vessel cleaning and for Rest room

Water usage at Hostel - 28 KL / Day

Water consumption per day per stakeholder in the hostel – 93.3 litres

Water usage at Hostel

Sl. No	Place	Water usage Quantity Litres / Day
1	Drinking	600
2	Cooking	900
3	Rest room	7000
4	Bathing	7000
5	Clothes washing	7000
6	Vessel Cleaning	1000
7	Garden	4,500
	Total	28,000

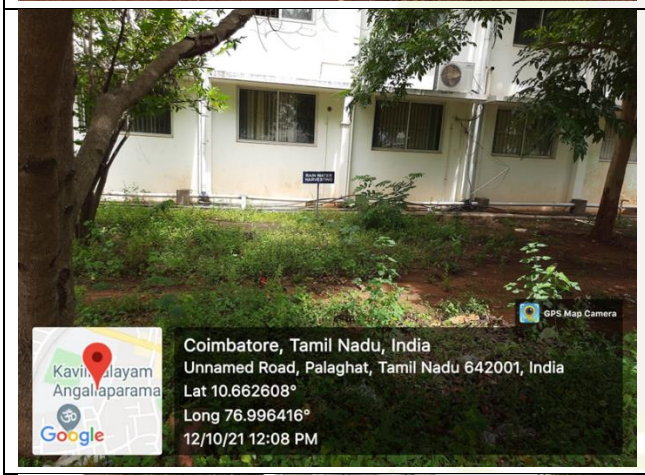
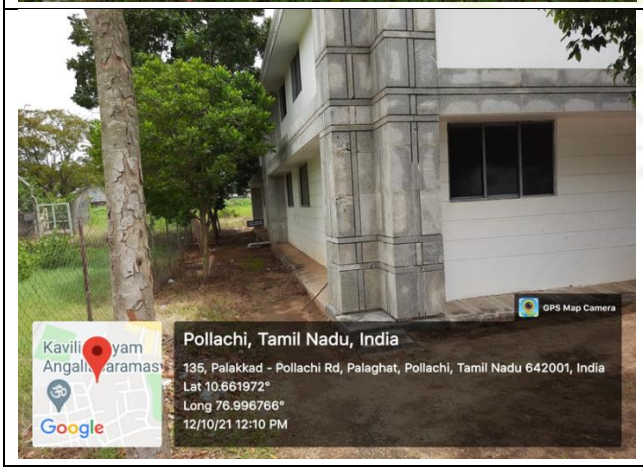
Waste water generation in the Hostel – 22 KL /day

For drinking water: Water Doctor system was installed

- Analysis of Drinking water and bore well water samples are done periodically
- The quality of Drinking water is within the norms.
- Microbial test for Drinking water is carried out on periodical manner.

Rainwater Harvesting

At Nallamuthu Gounder Mahalingam College, rainwater harvesting is done effectively to enhance the ground water level. The institution has rainwater harvesting pits at various locations and they are being maintained properly. The water drained during the rainy season is allowed to flow into the pits constructed in various places inside the campus including the Hostel Premises.

	Rainwater harvest area covered in the college -45,799 sqft
	Rainwater harvest area covered in the hostel- 16,276 Sqft
	

In addition, all the rainwater from open floor area are collected through Rainwater collection channel and directed to open well

Excellent collection system for effective utilisation of rainwater

Water Conservation initiatives

- Periodical preventive maintenance are carried out to avoid leakages

b) Energy

Non Renewable Energy

TNEB Grid Electrical Energy Consumption: 2020-2021

SL.NO		UNITS CONSUMED
1	COLLEGE	191573
2	HOSTEL	21490
	TOTAL	213063

Diesel Generator Electrical Energy Consumption: 14,850 units

Total electrical energy consumption

SL.NO		UNITS CONSUMED
1	TNEB	213063
2	DIESEL GENERATOR	14850
	Total	227913

Total Electrical Energy consumption from TNEB grid and DG in the College and Hostel is 2,27,913 units

LPG

LPG gas is used in the hostel for cooking and used in the college lab for heating

- LPG cylinders used- commercial cylinders of 19 kgs capacity
- LPG consumption in the hostel mess during the year 2020-2021- 78 cylinders
- LPG consumption in the college during the year 2020-2021- 1 cylinder.
- Total LPG consumption during the year 2020-2021- 1501 KGs(79 Cylinders)

DIESEL CONSUMPTION FOR TRANSPORT-Nil

College is not running buses for transport

Renewable Energy

Solar Electrical Energy

- Solar Street Lights -5 Nos
- Power of LED lamp-20watts
- Total power generation - 438 units

Solar Power Generation-438 units

Solar Water Heater

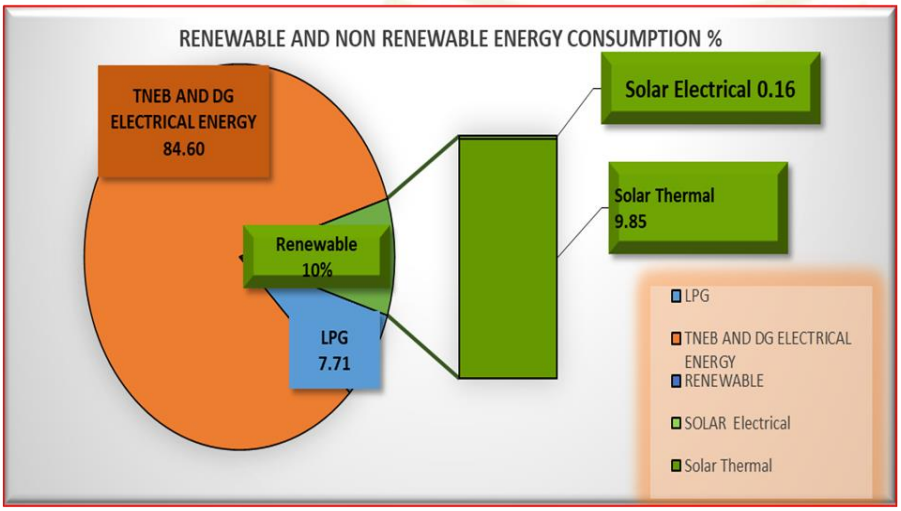
Total capacity of Solar Water Heaters-4100 Litters Per Day

Due to more numbers of online classes, Hot water from the Solar Water Heaters are utilised for less no of days (79 days)

TOTAL ENERGY CONSUMPTION

Renewable and Non Renewable(conventional) energy distribution

ENERGY CONSUMPTION	PERCENTAGE
NON RENEWABLE	
LPG	7.71
TNEB AND DG ELECTRICAL ENERGY	84.60
RENEWABLE	
SOLAR Electrical	0.16
Solar Thermal	9.85



The energy conservation measures followed

- High volume Low Speed fans are provided in the auditorium
- Maximum utilisation of day lights at auditorium, hostel and colleges
- Staff and Students are made aware of using public transport system
- Individual vehicle usage is reduced to the minimum level
- Periodical maintenance and overhauling of generators is being carried out
- The fans, lights, air-conditioners and other electronic and electrical equipments are switched off when not in use.
- Lights and fans are switched off by the students whenever they are out of hostel rooms
- Replacing conventional electrical light fittings with energy efficient Light-Emitting Diode (LED) bulbs.
- Replacing old high energy consuming appliances with star rated energy efficient appliances.
- Computers are switched to sleep mode or hibernate mode automatically when not in use.
- At the end of every practical session, Computer monitors and UPS are switched off.
- Soft copies are maintained instead of hard copies, to reduce power consumption and paper.

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c) WASTE

Quantity of waste generated:-

Waste water generation in the College - 31 KL /day

Waste water generation in the Hostel – 22 KL /day

College

- Biodegradable-–<1kg/day

Office

- Non-biodegradable –< 0.1kg/day

College Canteen

- Biodegradable –< 1 kg/day
- Non-biodegradable –<0.5kg/day
- Aluminium foil -–<0.1kg/day

Hostel

- Biodegradable(Food waste) - 10-15 kg/day
- Non-biodegradable – <0.5kg/day

Open area

- Biodegradable (Dry leaves)- 5-10 Kgs/Day

Plastic waste

- **Less than 100 grams. per day**

e-Waste

- **Less than 300 kgs/year**

Waste Management

Liquid waste Management

- Grey water from kitchen is used for gardening
- Sewage water from boys hostel is collected separately and treated in the waste water treatment plant and treated clear water is used for gardening

Bio-degradable waste management

- ❖ Bio-Degradable and non-biodegradable waste are collected in separate bins provided.
- ❖ Dry leaves are collected separately, dumped in the pits and converted into Bio fertilizer
- ❖ Every Year around 1000 Kgs Bio composts are produced

Plastic Waste Management

The college has been declared as a 'Plastic Free' zone.

- Use of polythene bags, plastic cubs and laminated papers are prohibited.
- Students and staff are advised to bring cloth bags
- All the stake holders are motivated to use stainless steel water bottles and lunch boxes.
- Plastic utensils in the stores, canteen and hostel kitchen are replaced with stainless steel plates, tumblers etc
- Plastic waste that comes in through lab equipment's package, empty chemical containers etc. are collected separately and disposed periodically for recycling.

Used Battery Management

- Used batteries are disposed through Buy back method

e-Waste Management

- All electronic machineries are purchased under Buy-Back agreement for proper disposal of e waste to recycler

Other Solid Waste Management

- Solid wastes generated from damaged furniture are sent to waste wood collection centre. Useful furniture and other wooden materials are made from the waste
- Glass wastes are disposed periodically through municipal waste collection system.

Waste Reduction

- ❖ Students are instructed not to waste paper while writing examinations.
- ❖ Reusing one side paper
- ❖ Where ever possible, printing on both sides of papers
- ❖ In order to reduce the use of paper the following initiative were taken by E - Governance
    - Attendance
    - Payment of fees
    - Submission of e-assignment through email
    - Digitalisation of Staff profiles and details about students
    - E – Circular through SMS, WhatsApp or Email
- Online Admission Process – Printing of applications reduced & submission of applications through admission portal.
- All inter department communications are through intranet
- Online exams are conducted to reduce the paper usage.

Waste Recycling

Recyclable papers are collected and kept and disposed as mixed waste to paper mills through authorized Vendors.

- The answer scripts after the publication of results are sent for recycling.
- e wastes are collected and sent to authorised recycler.

d) Green Campus

Nallamuthu Gounder Mahalingam College, Pollachi being located in the regime surrounded by agriculture based villages, naturally the institute is overwhelmed with the atmosphere of greenery.The Institution too does ever take meticulous efforts to maintain and retain the Nature given atmosphere with planting of new saplings The campus is lush green with gardens, lawns and plants wherever there is open space

- The eco-friendly ambience of the campus is a noteworthy feature of Nallamuthu Gounder Mahalingam College
- Green belt is developed in all possible open area are being converted into greenery
- The Green Society is maintaining a medicinal garden plants which is spread over 450 sqft area. Around 40 numbers of medicinal plants are there inside the campus
- Special initiatives are taken by the Green Society and new saplings are planted every year. Altogether, there are 946 plants in the campus.

Routine Green Practices

- Every year, new tree saplings are planted inside the college campus.
- The Green campus drive is an initiative of the College to protect the environment.
- The Green Society of the college take special care to keep the campus neat and green.
- Environmental awareness programs are conducted regularly to spread the message of environment preservation.

Awareness programs

Programs conducted inside the campus

- Importance of water-World cannot survive without water
- Donot ignore trees-Role of Trees for traditional happy life

GREEN BELT DEVELOPMENT

GREEN BELT DEVELOPMENT

List of trees, shrubs and herbs in NGMC

	List of plants
1	*Abrus precatorious Linn. Herb*
2	*Abutilon indicumL. Sweet. shrub*
3	*Acacia meamsii tree*
4	*Acalypha chamaedrifolia (Lam.)MullArg. herb*
5	*Acalypha indica Linn.herb*
6	*Acalypha wilkesianaMuell.Arg.herb*
7	*Acanthospermum hispidum D.C. herb*
8	*Achras sapota Linn.tree*
9	*Achyranthes aspera Linn.herb*
10	*Aegle marmelosL.Corr.tree*
11	*Aerva javanica Pers. herb*
12	*Aerva lanataJuss.herb*
13	*Agave foetida(L.) Haw.* herb
14	*Albizia lebbeck (L)Benth.tree*
15	*Albizia amara (*Roxb.) B.Boivin Tree
16	*Alkamanda catharticaLinn.shruby climber*
17	*Aloe vera (L.) Burm.f. herb*
18	*Alstonia scholaris L. R.Br.tree*
19	*Alternanthera pungensKunth.herb*
20	*Alternanthera bettzickiana (Regel) G.Nicholsonherb*
21	*Alternanthera sessilis(L.) R. B rherb.*
22	*Amarantusblitum Linn. herb*
23	*Amaryllis carnea linn herb*
24	*Andrographispaniculata Nees.herb*
25	*Annona squamosaLinn.tree*
26	*Araucaria heterophylla (Salisb) Franco.tree*
27	*Aristolochia bracteolate Lam. Her*
28	*Artocarpus heterophyllus Lam.tree*
29	*Asperagusracemosus Wilkd.* herb
30	*Asystasiagangetica(L.) T.Anderson* herb
31	*Axonopus compressus (SW) P.Beauv.* herb
32	*Azadiracta indicaA.Juss.* Tree
33	*Bambusa vulgaris* Schrad. tree
34	*Barleria cristata Linn.* Herb
35	*Bauhinia purpurea Linn.* Shrub
36	*Bauhinia recemosaLam.* shrub
37	*Boerhaevia diffusaLinn.* herb
38	*Boerhaavia erecta Linn.* Herb
39	*Bougainvillea spectabilis Willd* shrub.
40	*Brachiaria semiundulata (Hochst. ex A.Rich.) Stapf* herb
41	*Cajanus scarabaeoides (L.) Thouars* herb
42	*Calotropis gigantea R. Br.* shrub
43	*Canna indica* Linn herb
44	*Cardiospermum halicacabum Linn.herb*

45	*Carica papaya Linn.tree*
46	*Cassia fistula Linn. Tree*
47	*Cassia occidentalis Linn shrub.*
48	*Celosia argenteaLinn.herb*
49	*Celosia cristataLinn.herb*
50	*Centella asiatica (Linn.)Urb. Herb*
51	*Chromolaena odorata* (L.) King & H.E. Robins. herb
52	*Cissus quadrangularis* Linn.herb
53	*Citrus aurantifolia* (Christm.) Swingle shrub
54	*Citharexylum spinosum* L
55	*Cleome viscosa Linn. Herb*
56	*Clitoria ternatea Linn. Herb*
57	*Coccinea grandis (L.) Voigt herb.*
58	*Cocos nucifera Linn.tree*
59	*Commelina benghalensis Linn.*
60	*Commelina diffusaBurm.f. herb*
61	*Corchorus olitoriusLinn.herb*
62	*Corchorus urticifolius Wight & Arn. Herb*
63	*Corchorus trilocularis L.herb*
64	*Corchorus tridens L.herb*
65	*Crateva roxburghiiR.Br.tree*
66	*Crinum viviparum(Lam.) R.Ansari&V.J.Nair herb*
67	*Crossandra infundibuliformis* (L.) Nees herb
68	*Crotalaria retusa Linn. Herb*
69	*Crotalaria verrucosaLinn.herb*
70	*Croton bonplandianusBaillon herb.*
71	*Cuscuta reflexaRoxb. Herb (parasitic)*
72	*Cycas circinalis Linn. Tree-Gymnosperm*
73	*Cycas revoluta Linn. Tree*
74	*Cymbopogon caesius(Hook. &Arn.) Stapf herb-grass*
75	*Cynodon dactylon(L.) Pers. Herb -grass*
76	*Cyperus rotundus Linn. Herb- grass*
77	*Cyperus iria Linn. Herb-grass*
78	*Dactyloctenium aegyptium (L.) P. Beauv.-herb-grass*
79	*Datura stramonium L.herb*
80	*Delonix regia (Hook.) Raf.tree.*
81	*Dendrophthoe falcata* (L.f.) Ettingsh shrub
82	*Dieffenbachia picta* Lodd. Herb
83	*Digitaria bicornis (Lam.) Roem. &Schult. herb*
84	*Dracaena marginata-coloroma Lam.tree monocot*
85	*Duranta repens Linn. shrub*
86	*Dypsishutescens, (H. Wendl.) Beentje& J. Drans tree*
87	Ehretia ovalifolia *Wight Tree*
88	*Echinochloacolona* (L.) Link. Herb grass
89	*Eleusineindica(L.) Gaertn. Herb grass*

90	*Erianthusrepens (Willd.) P. Beauv herb grass*
91	*Eucalyptus globulusLabill. tree*
92	*Euphorbia heteropiylla Linn. Herb*
93	*Euphorbia hirtaLinn.herb*
94	*Evolvulus alsinoidesLinn.herb*
95	*Ficus benghalensis Linn. Tree*
96	*Ficus benjamina Linn. Tree*
97	*Ficus religiosaLinn.tree*
98	*Filicium decipiens (Wt. &Arn.) Thw. Tree*
99	*Geissaspis cristata Wight &Arn.herb*
100	*Glinus lotoides Linn.herb*
101	*Gmelina arborea Roxb.Tree*
102	*Gomphrena globosaLinn.herb*
103	*Gomphrena serrata Linn.herb*
104	*Grangeamaderaspatana (L.) Poiret herb*
105	*Gynandropsis pentaphylla DC herb*
106	*Hamelia patens Jacq. shrub*
107	*Hedyotis umbellata (L.) Lam. Herb*
108	*Heliconia rostrata Ruiz &Pavon shrub*
109	*Heliotropiumindicum Linn. herb*
110	*Hibiscus rosa-sinensis Linn. Shrub*
111	*Hibiscus vitifolius Linn herb*
112	*Hyptis suaveolens (L.) Poitier herb*
113	*Indigofera linnaei Ali. Herb*
114	*Indigofera tinctoria Linn. Herb*
115	*Ipomea marginata (I.) R. Br. Climber*
116	*Ipomoea quamoclit Linn.climber*
117	*Ixora coccineaLinn.shrub*
118	*Jasminum sambac(L.) Aiton climbing shrub.*
119	*Jatropha gossypifolia Linn. Shrub*
120	*Justicia adathoda Linn. Shrub*
121	*Justicia betonicaLinn.herb*
122	*Kedrostis foetidissimaJacq.Cogn. herb*
123	*Khaya senegalensis (Desr.) A. Juss. Tree*
124	*Lactuca serriolaLinn. Herb*
125	*Lantana camaraLinn.shrub*
126	*Leucaena leucocephala (Lam.) de wit. Tree*
127	*Leucas aspera (Willd.) Link herb*
128	*Magnolia champaca(L.) Baill. Ex Pierre tree*
129	*Mangifera indica Linn.tree*
130	*Marsilea quadrifoliata Linn.herb*
131	*Millingtonia hortensisLinn.tree*
132	*Mimosa pudica Linn.herb*
133	*Mimusops elengi Linn.tree*
134	*Morinda tinctoriaRoxb.tree*
135	*Morus indicaGriff.shrub*
136	*Mukia maderaspatana Linn.*

137	*Murraya koenigii (L.) Sprengel shrub*
138	*Musa paradisiaca Linn. Tree*
139	*Nerium oleander Linn. shrub*
140	*Ocimum basilicum Linn. Herb*
141	*Ocimum canum Sims.herb*
142	*Ocimum tenuiflorumLinn.herb*
143	*Opuntia stricta* (Haw.) Haw. herb
144	Oplismenus compositus (L.) P.Beauv. Grass
145	*Oroxylum indicum (L.) Benth. ex Kurz shrub*
146	*Oxalis corniculata Linn.herb*
147	*Panicum colonum Linn. Herb=grass*
148	*Panicum maximum Jacq. Herb – grass*
149	*Parthenium hysterophorus Linn. Herb*
150	*Passiflora foetida Linn. Climber*
151	*Pavoniao dorataWilld herb*
152	*Peltophorum pterocarpum (DC.) K.Heyne tree*
153	*Pergularia daemia (Forssk.) Chiov climber*
154	*Perotis indica(L.) Kuntze herb - grass*
155	*Phleum pretense Linn. Herb grass*
156	*Phoenix canariensisChabaud. Tree*
157	*Phoenix dactyliferaLinn.tree*
158	*Phyllanthus amarusSchum.herb*
159	*Phyllanthus emblica Linn. Tree*
160	*Phyllanthus maderaspatensisLinn.herb*
161	*Phyllanthus acidus (L.) Skeels. tree*
162	*Physalis peruviana Linn. herb*
163	*Pisonia alba Span. tree*
164	*Pithecellobium dulce (Roxb.) Benth.tree*
165	*Plumeria rubraLinn.tree*
166	*Polyalthia longifolia Hook.f. &Thoms.tree*
167	*Pongamia pinnata* (L.) Pierre.tree
168	*PortulacaoleraceaLinn..herb*
169	*Priva cordifolia (L.f.) Druce herb*
170	*Psidium guajava Linn. Tree*
171	*Pterocarpus marsupium* Roxburgh.tree
172	*Pterocarpus santalinus* L. f. Tree
173	*Quisqualisindica Linn. Climber*
174	*Ricinus communis Linn. Shrub*
175	*Roystonea regia (Kunth) O.F.Cook tree*
176	*Russelia equisetiformisSchlecht. & Cham. Herb*
177	*Sansevieria roxburghiana* Schult. &Schult.f. herb
178	*Santalum album Linn.tree*
179	*Senna siamea (Lam.) H.S.Irwin&barneby tree*
180	*Sida cordifolia Linn. Herb*
181	*Sida rhombifoliaLinn.herb*
182	*Simarouba glaucaDc.tree*
183	*Solanum nigrumLinn.herb*

e) Carbon Footprint

Release of carbon dioxide into the atmosphere is contributes to the global warming and increasing the pace of climate change. More trees in the campus will make a source of sink for the carbon dioxide and for other greenhouse gases.

Average distance tavelled from home to College and back to home by four wheelers=16KM		
Average distance tavelled from home to College and back to home by two wheelers=12 KM		
Average Four Wheeler Fuel efficiency assumed = 20KM/ Lit		
Average Two Wheeler Fuel efficiency assumed = 60KM/ Lit		
No of cars used by both students and staff =18		
No of two wheelers used by both students and staff =750		
No of College working days(off line and online) during the year 2020-2021-125 days		
No of days teaching and non teaching staff came to college in the year 2020-2021 -91 days (Low Number of days because of Lockdown due to Corona)		
No of days Hostel was occupied with students in the year 2020-2021-70 days		
Fuel (Petrol)consumption by two wheelers = No of days * No of vehicles*12/60	13650	lits
Fuel (Petrol)consumption by four wheelers = No of days * No of vehicles*16/20	1310.4	Lits
Total quantity of petrol consumed by both two wheelers and four wheelers	14960	Lits
Diesel consumed by college bus during the year 2020-2021	0	lits
Diesel consumed by DG sets during the year 2020-2021	4950	Lits
Total Diesel consumption during the year 2020-2021	4950	lits
LPG consumption in the college	19	kgs
LPG consumption in hostel mess and canteen	1482	kgs
Total LPG consumption	1501	KGS
Total Power consumed in the COLLEGE and HOSTEL in the year 2020-2021	213063	units
GHG EMISSION		
Green House Gas emission due to petrol	35306.54	Kge CO2
Green House Gas emission due to diesel	13216.50	Kge CO2
Green House Gas emission due to LPG	4548.03	Kge CO2
Green House Gas emission due to Grid power	174711.66	Kge CO2
Total GHG emission per year	227782.73	Kge CO2
Total GHG emission per year	**227.78**	**t CO_2 eq**
GHG Capturbed by tress		
Fully grown up trees inside the campus	946	trees
Green house gas captured by trees	**19.87**	**t CO_2 eq**
Net Green House Gas Emission per year	**207.92**	**t CO_2 eq**
GHG AVOIDED due to useage of Renewable Energy		
Solar power generation for street lights	438.00	units
Green house gas emission avoided due to solar power generation for street lights	0.36	t CO_2 eq
Total Solar Water Heater installed	4100.00	LPD
Green house gas emission avoided due to Solar Water Heater for 70 days	16.64	t CO_2 eq
Total GHG avoided by useage of Renewable Energy	**17.00**	**t CO_2 eq**

4.2 Consolidation of Audit Findings

We hope that students would have developed a greater appreciation and understanding of the impact of their actions on the environment. They have successfully been able to determine the impacts on the environment through the various auditing exercises. Participating in this green auditing procedure they have gained knowledge about the need of sustainability of the college campus. It will create awareness on the use of the Earth's resources in their home, college, local community and beyond.

General

- Green Policy is stated and objectives are reflected very well in the functioning of the college and Hostel
- Gardens inside the college premises are found to be well maintained.
- Campus is declared plastic free and lot of initiatives and innovative actions are taken to maintain the green policy.

Water

Total water consumption -75 KL/day

- Water management & waste water management strategies are well maintained.

Water Conservation

- Water taps are converted into press type to reduce water wastage

Rain water Harvest system

Appreciable work has been carried out for harvesting the rainwater both from college buildings & hostel for charging the ground water level and usage.

Energy

Total electrical energy consumption from TNEB Grid-2,13,063 units

Lot of Energy saving activities are implemented

More number of conventional tube lights are replaced with LED lights

Waste to Wealth

- Waste papers are collected in a arranged manner and send for recycling
- Quantity of Bio compost generated- 1000 Kgs

Waste Recycle

- Paper wastes are collected in a proper manner and sent for recycling
- E - wastes are collected and kept separately to send to authorised recycler
- Plastic wastes generated from packing materials are collected separately and disposed properly to recycler-

Green Campus

- Tree cover of the college with respect to the stakeholder strength is excellent
- Regular planting of trees inside campus are to be continued
- Usage of water for gardens are to be measured

Carbon Foot Print

- Yearly Greenhouse gas emission is around 227.78 t CO_2e(Less due to Corona)
- Solar PV Power shall be used to reduce the conventional EB power

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4.3 Preparation of Action Plan

Policies referring to college's management and approach towards the use of resources need to be considered. The college green policy/environmental policy for its sustainable development to be monitored consciously.

4.4 Follow-up Action and Plans

Green Audits are exercises which generate considerable quantities of valuable management information. The time, effort and cost involved in this exercise is often considerable and in order to be able to justify this expenditure, it is important to ensure that the findings and recommendations of the audit are considered at the correct level within the organisation and that action plans and implementation programs result from the findings. Audit follow up is part of the wider process of continuous improvement.

4.5 Environmental Education

The following environmental education program may be implemented in the college before the next green auditing:-

- Training programs in Energy, Water & Waste management , Solids and e-Waste Management, Carbon footprint concepts, Awareness on Global warming, Net Zero Emission
- Increase the number of display boards on environmental awareness such as no wastage of food/water, switch off light and fan after use, plastic free campus etc.

Awareness on Carbon Consumption

- Students and Staff members are made totally aware of pollution caused by use of vehicles.
- The carbon consumption awareness programs on carbon emission at individual as well as social level will help to avoid air and noise pollution due to vehicles.

4.6 Recommendations

Common Recommendations

Targets shall be fixed to achieve Net Zero Emission

Criteria Wise Recommendations

Water

- Water consumption monitoring system has to be implemented in the college campus and hostel
- More awareness programs on water conservation to be conducted.

Energy

- Target for Renewable Energy contribution to reduce Green House emission
- Remaining old Tube lights shall be replaced with LED tube lights.
- Automatic power switch off systems may be introduced in the required lighting locations and high power consuming electrical equipments.
- Conduct more awareness programs on importance of energy saving for students and staff

Waste

- Conduct exhibition of recyclable waste products
- Target for reduction in waste generation shall be planned
- Every six months e-waste to be disposed as per e-waste Management rules 2016.
- Register to be maintained for collection storage and disposal of E waste & used batteries
- Conversion of Used Cooking Oil into Bio diesel shall be given as project to students

Green Campus

- Keep continuously encouraging students for making the campus green
- Roof garden for main building shall be planned in future

Carbon footprint

- Fix a target to reduce Green House Gas emission for next Five/Ten years

Annexure

TIN : 33976204357 CST : 861755 Dt. : 26-03-08 Area Code : 3 1 7

GLOBAL ENVIRO SYSTEMS

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Website : www.globalenvirosystems.com

Coimbatore -25-02-2022

To
THE PRINCIPAL
NGM COLLAGE
Palghat road
Pollachi- 642001

TEST REPORT

REPORT NO:	GES/10118/2022	REPORT DATE:	25-02-2022

Company Name and Address	
Sample Reference No	GES/WTP/22/W-16713
Customer Reference	WELL WATER
Sampling Procedure	IS 3025 Part-1
Sample Collected BY	Customer
Sample collected date	25-02-2022

Parameters	UNIT	RESULT	DRINKING STDS (IS 10500:2012)
PH at 25 °C	-	7.18	6.5-8.5
Turbidity	NTU,Max	0.01	5
Total dissolved solids	mg/l	147	2000
Total Hardness	mg/l	90.7	--
Magnesium (as Mg)mg/lMax	mg/l	11.0	100

Branch Office : Door No. 179/ 5,6,7, Ist Floor, Kaliyammal Street, (Opp. Corporation Park,) K.K. Pudur (P.O.), Saibabacolony,
Coimbatore - 641 038. Cell : 97894 62617 E-mail : durai_2004@rediffmail.com

Odour	mg/l	Agreeable	Agreeable
Total alkalinity as caco3	mg/l	80.5	600
Zinc	mg/l	0.5	15
Sulphates as SO4	mg/l	98.1	400
Nitrate as NO3	mg/l	18	No relaxation
Fluride as F	mg/l	BDL	1.5
Free residual chlorine as CR	mg/l	BDL	1.0

Remarks :

SUGGESTION – The water can be used for drinking purpose.

Approved by: GLOBAL ENVIRO SYSTEMS P.DURAISAMY .Msc PhD (ENVIORNMENT CONSULTANT)

For GLOBAL ENVIRO SYSTEMS

PARTNER

Chemist: G VINOTH

Note:

.BDL –Below Detectable Limit\< 0.001mg/l

.The test results only to the items received &tested

.The test report shall not be reproduce anywhere except in full and in the same format without the permission of the laboratory.

.This report is invalid if any details are written in pen other than the signature .GES Labs is not responsible for any manual correction made in the Report.

NALLAMUTHU GOUNDER MAHALINGAM COLLEGE

(Autonomous Institutions -Affiliated to Bharathiar University)

ISO 9001:2015 Certified and Re-Accredited with B Grade by NAAC

POLLACHI – 642001,

TAMILNADU, INDIA

ENVIRONMENTAL AUDIT

2020 - 2021

AUDIT/REPORT BY

ALCHEME GREEN ENERGY COMPANY
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ACKNOWLEDGEMENT

We at Alcheme Green Energy Company, Madurai are thankful to the Principal for giving us the opportunity to carry out Environmental audit of Nallamuthu Gounder Mahalingam College , Pollachi -642 001, Tamilnadu, India. Alcheme Green Energy Company team is also thankful to all other supporting Officers / Staffs of the above institute for their wholehearted support, hospitality and the courtesy extended to the Audit team during the course of the visit.

The following officers from Alcheme Green Energy Company under the guidance of Mr. C. Jebaraj, B.Tech., have carried out the Environmental Audit.

Name	Qualifications	Certification Number
Mr. C. Jebaraj	B.Tech., PDGEM., DIS., BEE Certificated Energy Auditor, IRCA Certified Lead Auditor - OHSMS Internal Auditor - ISO - QMS	EA-9847
Mr. S. Lakhsmana Kumaran	B. Tech., MSc.,(Env. Science), MBA., IRCA Certified Lead Auditor ISO 14001 EMS	UID - 351851

The following staff from the Institution were participated in the audit process

Name	Qualification	Designation
Dr. R. Muthukumaran	M.A., M.Phil., B.Ed., Ph.D.,	Principal
Dr. R. Manicka Chezhian	M.Sc., M.S., Ph.D.,	IQAC Co-Ordinator
Thiru. K. Srinivisan	M.C.A	Associate Professor Department of Computer Science ERP Co-Ordinator
Dr. A. Srividhya	M.A., M.Phil., Ph.D.,	Assistant Professor Department of English
Dr. P. Archanaa	M.Com., M.Phil., PGDCA., Ph.D., M.A[HINDI]	Assistant Professor PG Department of Commerce with Computer Applications
Dr. A. Kanakaraj	MCA., M.Sc., M.Phil., Ph.D., DIR	Assistant Professor PG Department of Computer Science

Index

Sl. No.	Contents	Page No
	Summary of Audit	4
1.	Introduction	6
1.1	Environmental Policy	6
2.	Water	7
2.1	Water usage at college	7
2.2	Water usage at hostel	8
3.	Electrical Energy	9
3.1	TNEB Grid Electrical Energy	9
3.2	Diesel Generator Electrical Energy	9
4.	Fuel Consumption	9
4.1	LPG	9
5.	Waste Generations and Management	10
5.1	Liquid and Solid Waste Generation	10
5.2	Waste Management	10
5.2.1	Liquid Waste Management	10
5.2 .2	Bio degradable Waste Management	11
5.2.3	Plastic Waste Management	11
5.2.4	Used Battery Management	11
5.2.5	e-Waste Management	11
5.2.6	Other solid waste management	12
6.	Pollution abatement measures	12
6.1	Waste Reduction	12
6.2	Waste Recycling	12
6.3	Waste Reuse	13
6.4	Waste to wealth	13
6.5	Water Conservation	13
6.6	Energy Conservation	13
7.	Greenbelt Development	14
8.	Rainwater Harvesting	16
9	Ambient Air	17
9.1	Greenhouse Gas Emission	17
9.2	Ambient Air Quality	18
9.3.	Noise Level	19
10.	Recommendations	20
	Annexure	22

Summary of Environment Audit

Environment audit of Nallamuthu Gounder Mahalingam College and its Hostel was carried by Alcheme Green Energy Company. Audit team has gone through the data related to Water and Electrical Energy, Waste generation , Waste Management, Waste Recycling and Reuse, Green Belt Development of the Institution both inside and outside the campus. The team also carried out the study of Pollution abatement measures, Rainwater harvesting, Water and Energy Conservation measures taken to reduce the pollution, noise level, Green house emission and maintain Ambient Air quality

During the visit it is observed that cleanliness in the campus is well maintained through proper disposal of wastes, utilization of eco-friendly supplies and effective recycling program. The concept of eco-friendly culture is disseminated among the students through various seminars/workshops and community-oriented programs. The Institution strictly follows reduce, reuse and recycle method to limit energy usage and partially replace non-renewable energy sources with renewable energy resources.
The environment audit report is a very powerful and valuable communications tool to use while working with various stakeholders who need to be convinced that systems and procedures in place are suited to cope with natural changes and modifications.

It is hoped that the results presented in the environment audit report will serve as a guide for educating the college community on the existing environment related practices and resource usage at the college as well as spawn new activities and innovative practices.

The audit outputs and recommendations are summarised as follows:

Noteworthy activities

- Clean , Green and plastic free campus
- Maximum utilisation of public transport system by students and staff for commutation is highly appreciable
- Rainwater Collection arrangement to open well
- Sewage treatment plant at Boy's Hostel
- Solar Water Heater system at Hostels and utilisation hot water at Hostel Kitchen

The audit outputs and recommendations are summarised as follows:

- Air pollution impact on Ambient Air quality is negligible since the quantity of fuel used for combustion in the institution is very less
- Noise levels inside the campus are within the prescribed limit.
- Lot of initiatives are taken to conserve Water and Energy by the Institution.
- Flow meters are to be provided for better water management
- Total water consumption for Nallamuthu Gounder Mahalingam College and Hostel –75 KL/Day
- Electrical Energy consumption from TNEB GRID alone –2,13,063 units (Less due to more number of on line classes because of Corona)
- Green House Gas Emission is 227.78 t CO_2e Total GHG emission
- Green House gas reduction due to grown up trees is 19.87 t CO_2 e
- Net Green House Gas emission is 207.91 t CO_2 e

We are happy to submit this detailed Environmental audit report to the Nallamuthu Gounder Mahalingam College

For Alcheme Green Energy Company

Madurai

ALGEO

1. Introduction

1.1Environmental Policy

Nallamuthu Gounder Mahalingam College has well formulated Environmental Policy to guide all its activities.

The main objectives are as follows:

- To promote green growth ,create green jobs and maintain green infrastructure
- To execute “Reduce, Reuse, Recycle and Re- earth “ towards waste management, environmental protection and sustainable future
- To reduce potable water consumption
- To create environmental awareness among all the stakeholders of the institution
- To assess and regulate environmental practices of the institution periodically

The Institution vouchsafes:

- Its commitment to sustainability and environmental management
- It reiterates the stand that managing environmental issues is a high priority for the College
- Its commitment to prevent pollution and to continuously improve upon environmental protection.
- A commitment to create environmental awareness

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2. WATER

2.1 Water Usage at Nallamuthu Gounder Mahalingam College

Total number of students studied during the academic year 2020-2021: 5388

Teaching & non-Teaching staff in the institution during the academic year 2020-2021:258

Total number of stake holders: 5646

Water for college and hostel

Municipal water-34,000 litres/day

Borewell water- 41,000 litres/day

Total water usage -75, 000 litres/day

Main water uses in the College campus are Drinking, Rest room, Canteen and Lab

Water usage in the College- 47 KL / Day

Water usage per day per stakeholder in the college – 8.7 litres

Water usage at College

Sl. No	Place	Water usage Quantity Litres / Day
1	Drinking	6000
2	Rest room	24000
3	Canteen	6000
4	Lab	1000
5	Garden	10000
	Total	**47,000**

Waste water generation in the college – 31 KL/day

2.2 Water usage at Hostel

Number of students and staff residing in the hostel in the year 2020-2021: 300

Main water uses in the Hostel are Drinking, Washing of clothes, Cooking & Vessel cleaning and for Rest room

Water usage at Hostel - 28 KL / Day

Water consumption per day per stakeholder in the hostel – 93.3 litres

Water usage at Hostel

Sl. No	Place	Water usage Quantity Litres / Day
1	Drinking	600
2	Cooking	900
3	Rest room	7000
4	Bathing	7000
5	Clothes washing	7000
6	Vessel Cleaning	1000
7	Garden	4,500
	Total	28,000

Waste water generation in the Hostel – 22 KL /day

3. Electrical Energy

3.1 TNEB Grid Electrical Energy Consumption: 2020-2021

ELECTRICAL ENERGY CONSUMPTION IN THE COLLEGE AND HOSTEL

SL.NO		UNITS CONSUMED
1	COLLEGE	191573
2	HOSTEL	21490
	TOTAL	213063

3.2 Diesel Generator Electrical Energy Consumption: 14,850 units

Total electrical energy consumption

SL.NO		UNITS CONSUMED
1	TNEB	213063
2	DIESEL GENERATOR	14850
	Total	227913

Total Electrical Energy consumption from TNEB grid and DG in the College and Hostel 2,27,913 units

Electrical Energy consumption per stakeholder per year – 40.36 units/year

4. FUEL CONSUMPTION

4.1 LPG

LPG gas is used in the hostel for cooking and used in the college lab for heating

LPG cylinders used- commercial cylinders of 19 kgs capacity

- LPG cylinders used- commercial cylinders of 19 kgs capacity
- LPG consumption in the hostel mess during the year 2020-2021- 78 cylinders
- LPG consumption in the college during the year 2020-2021- 1 cylinder.
- Total LPG consumption during the year 2020-2021- 1501 KGs(79 Cylinders)

5. Waste Generations and Management

5.1 Liquid and Solid Waste Generation

Waste water generation in the College - 31 KL /day
Waste water generation in the Hostel – 22 KL /day

College

- Biodegradable-–<1kg/day

Office

- Non-biodegradable –< 0.1kg/day

College Canteen

- Biodegradable –< 1 kg/day
- Non-biodegradable –<0.5kg/day
- Aluminium foil -–<0.1kg/day

Hostel

- Biodegradable(Food waste) - 10-15 kg/day
- Non-biodegradable – <0.5kg/day

Open area

- Biodegradable (Dry leaves)- 5-10 Kgs/Day

Plastic waste

- **Less than 100 grams. per day**

e-Waste

- **Less than 300 kgs/year**

5.2 Waste Management

5.2.1 Liquid waste Management

- Grey water from kitchen is used for gardening
- Sewage water from boys hostel is collected separately and treated in the waste water treatment plant and treated clear water is used for gardening

5.2.2 Bio-degradable waste management

- Bio-Degradable and non-biodegradable waste are collected in separate bins provided.
- Dry leaves are collected separately, dumped in the pits and converted into Bio fertilizer
- Every Year around 1000 Kgs Bio composts are produce

5.2.3 Plastic Waste Management

The college has been declared as a 'Plastic Free' zone.

- Use of polythene bags, plastic cubs and laminated papers are prohibited.
- Students and staff are advised to bring cloth bags
- All the stake holders are motivated to use stainless steel water bottles and lunch boxes.
- Plastic utensils in the stores, canteen and hostel kitchen are replaced with stainless steel plates, tumblers etc
- Plastic waste that comes in through lab equipment's package, empty chemical containers etc. are collected separately and disposed periodically for recycling.

Used Battery Management

- Used batteries are disposed through Buy back method

5.2.5 e-Waste Management

- All electronic machineries are purchased under Buy-Back agreement for proper disposal of e waste to recycler

5.2.6 Other Solid Waste Management

- Solid wastes generated from damaged furniture are sent to waste wood collection centre. Useful furniture and other wooden materials are made from the waste
- Glass wastes are disposed periodically through municipal waste collection system.

6. Pollution abatement measures

6.1 Waste Reduction

- ❖ Students are instructed not to waste paper while writing examinations.
- ❖ Reusing one side paper
- ❖ Where ever possible, printing on both sides of papers
- ❖ In order to reduce the use of paper the following initiative were taken by E - Governance
    - Attendance
    - Payment of fees
    - Submission of e-assignment through email
    - Digitalisation of Staff profiles and details about students
    - E – Circular through SMS, WhatsApp or Email
- Online Admission Process – Printing of applications reduced & submission of applications through admission portal.
- All inter department communications are through intranet
- Online exams are conducted to reduce the paper usage.

6.2 Waste Recycling

Recyclable papers are collected and kept and disposed as mixed waste to paper mills through authorized Vendors.

- The answer scripts after the publication of results are sent for recycling.
- e wastes are collected and sent to authorised recycler.

6.3 Waste Reuse

- Reuse one sided paper
- Reuse Envelopes

6.4 Waste to wealth

- Dry leaves are converted into bio fertilizer

6.5 Water Conservation initiatives

- Water taps are changed to push type to reduce the wastage of water
- Periodical preventive maintenance are carried out to avoid leakages

6.6 Energy conservation activities followed

- High volume Low Speed fans are provided in the auditorium
- Maximum utilisation of day lights at auditorium, hostel and colleges
- Staff and Students are made aware of using public transport system
- Individual vehicle usage is reduced to the minimum level
- Periodical maintenance and overhauling of generators is being carried out
- The fans, lights, air-conditioners and other electronic and electrical equipments are switched off when not in use.
- Lights and fans are switched off by the students whenever they are out of hostel rooms
- Replacing conventional electrical light fittings with energy efficient Light-Emitting Diode (LED) bulbs.
- Replacing old high energy consuming appliances with star rated energy efficient appliances.
- Computers are switched to sleep mode or hibernate mode automatically when not in use.
- At the end of every practical session, Computer monitors and UPS are switched off.
- Soft copies are maintained instead of hard copies, to reduce power consumption and paper.

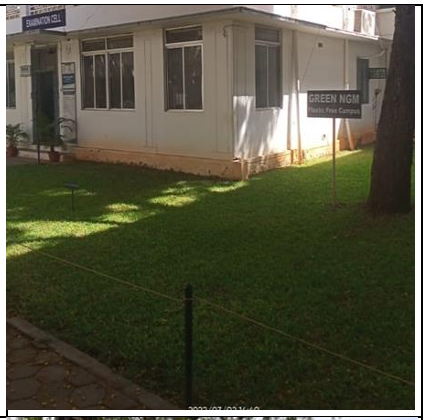
7. Greenbelt Development

Nallamuthu Gounder Mahalingam College, Pollachi being located in the regime surrounded by agriculture based villages, naturally the institute is overwhelmed with the atmosphere of greenery.The Institution too does ever take meticulous efforts to maintain and retain the Nature given atmosphere with planting of new saplings The campus is lush green with gardens, lawns and plants wherever there is open space

- The eco-friendly ambience of the campus is a noteworthy feature of Nallamuthu Gounder Mahalingam College
- Green belt is developed in all possible open area are being converted into greenery
- The Green Society is maintaining a medicinal garden plants which is spread over 450 sqft area. Around 40 numbers of medicinal plants are there inside the campus
- Special initiatives are taken by the Green Society and new saplings are planted every year. Altogether, there are 946 plants in the campus.
- The list of trees and the arrival of new saplings are recorded every year.

Routine Green Practices

- Every year, new tree saplings are planted inside the college campus.
- The Green campus drive is an initiative of the College to protect the environment.
- The Green Society of the college take special care to keep the campus neat and green.
- Environmental awareness programs are conducted regularly to spread the message of environment preservation.



GREEN BELT DEVELOPMENT

8.Rainwater Harvesting

At Nallamuthu Gounder Mahalingam College, rainwater harvesting is done effectively to enhance the ground water level. The institution has rainwater harvesting pits at various locations and they are being maintained properly. The water drained during the rainy season is allowed to flow into the pits constructed in various places inside the campus including the Hostel Premises.

Rainwater harvest area covered in the college -45,799 sqft
Rainwater harvest area covered in the hostel- 16,276 Sqft

In addition, all the rainwater from open floor area are collected through Rainwater collection channel and directed to open well

Excellent collection system for effective utilisation of rainwater

9. AMBIENT AIR

9.1 Green House Gas Emission

Release of carbon dioxide into the atmosphere is contributes to the global warming and increasing the pace of climate change. More trees in the campus will make a source of sink for the carbon dioxide and for other greenhouse gases

Average distance tavelled from home to College and back to home by four wheelers=16KM		
Average distance tavelled from home to College and back to home by two wheelers=12 KM		
Average Four Wheeler Fuel efficiency assumed = 20KM/ Lit		
Average Two Wheeler Fuel efficiency assumed = 60KM/ Lit		
No of cars used by both students and staff =18		
No of two wheelers used by both students and staff =750		
No of College working days(off line and online) during the year 2020-2021-125 days		
No of days teaching and non teaching staff came to college in the year 2020-2021 -91 days (Low Number of days because of Lockdown due to Corona)		
No of days Hostel was occupied with students in the year 2020-2021-70 days		
Fuel (Petrol)consumption by two wheelers = No of days * No of vehicles*12/60	13650	lits
Fuel (Petrol)consumption by four wheelers = No of days * No of vehicles*16/20	1310.4	Lits
Total quantity of petrol consumed by both two wheelers and four wheelers	14960	Lits
Diesel consumed by college bus during the year 2020-2021	0	lits
Diesel consumed by DG sets during the year 2020-2021	4950	Lits
Total Diesel consumption during the year 2020-2021	4950	lits
LPG consumption in the college	19	kgs
LPG consumption in hostel mess and canteen	1482	kgs
Total LPG consumption	1501	KGS
Total Power consumed in the COLLEGE and HOSTEL in the year 2020-2021	213063	units
GHG EMISSION		
Green House Gas emission due to petrol	35306.54	Kge CO2
Green House Gas emission due to diesel	13216.50	Kge CO2
Green House Gas emission due to LPG	4548.03	Kge CO2
Green House Gas emission due to Grid power	174711.66	Kge CO2
Total GHG emission per year	227782.73	Kge CO2
Total GHG emission per year	**227.78**	**t CO_2 eq**
GHG Capturbed by tress		
Fully grown up trees inside the campus	946	trees
Green house gas captured by trees	**19.87**	**t CO_2 eq**
Net Green House Gas Emission per year	**207.92**	**t CO_2 eq**
GHG AVOIDED due to useage of Renewable Energy		
Solar power generation for street lights	438.00	units
Green house gas emission avoided due to solar power generation for street lights	0.36	t CO_2 eq
Total Solar Water Heater installed	4100.00	LPD
Green house gas emission avoided due to Solar Water Heater for 70 days	16.64	t CO_2 eq
Total GHG avoided by useage of Renewable Energy	**17.00**	**t CO_2 eq**

9.2 Ambient Air Quality

Flue gas emission sources

- LPG combustion at hostel, canteen and labs
- Diesel generator at College and Hostel

Fuel consumption per year

- LPG -1501 Kg
- Diesel for generator – 4950 litres

Fuel consumption per day

- College workings days -125 (On line and Offline)
- Off line working days-91 days
- Hostel occupied with students -79 days
- Average LPG consumption per day- 19 kgs
- Average diesel consumption per day-39.6 litres

Combustion of LPG is NOT CONTINUOUS process

DIESEL Generator will run only when TNEB grid power fails

Considering the above situation, the quantity of flue gas emission and the impact on ambient air quality from the above combustions are negligible

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9.3 Noise level

Noise level inside the campus

Sl. No	Location	Max value in dB	Average Value in dB
1	Near Main Entrance	74.8	65.4
2	Class room	57.3	54.9
3	Library	52.1	48.7
4	Near DG	62.3	59.4
5	Hostel	57.5	52.1
6	Office	59.4	57.8

- Diesel Generators (DG) sets do not run on a continuous basis. Only during power failure, DG sets are operated during the working hours of the College.
- Generally Power failure occurs for a very short time period.
- During planned shutdown hours, DGs run continuously based on the load
- Noise disturbance due to DG set is negligible.

10. Audit Findings & Recommendations

Noteworthy activities

- Clean , Green and plastic free campus
- Maximum utilisation of public transport system by students and staff for commutation is highly appreciable
- Optimum utilisation of Water
- Sewage Water Treatment at Boys' Hostel
- Hot water from Solar water heaters are utilised in the Hostel Kitchen to reduce the LPG consumption

Findings

- Air pollution impact on Ambient Air quality is negligible since the quantity of fuel used for combustion in the institution is very less
- Noise levels inside the campus are within the prescribed limit.
- Lot of initiatives are taken to conserve Water and Energy by the Institution.
- Flow meters are to be provided for better water management
- Total water consumption for Nallamuthu Gounder Mahalingam College and Hostel –75 KL/Day
- Electrical Energy consumption from TNEB GRID alone –2,13,063 units (Less due to more number of on line classes because of Corona)
- Total Green House Gas (GHG) emission is 227.78 t CO_2e
- Green House gas reduction due to grown up trees is 19.87 t CO_2 e
- Net Green House Gas emission is 207.92 t CO_2 e
- Tree cover of the college with respect to the stakeholder strength is excellent
- Regular planting of trees inside campus are to be continued
- Water usage per day per stakeholder in the college -8.7 litres.
- Water consumption per day per stakeholder in the hostel -93.3 litres
- Electrical Energy consumption per stakeholder per year – 40.36 units/year (less due to more number of on line classes)

Recommendations

- Electrical Energy reduction through Solar PV Power Plant Shall be planned
- Flow meter to be installed at borewell water pump discharge to know the exact usage of water.
- Waste water generated from college rest room shall be separated as grey and septic water and grey water shall be used for garden or reused for toilet flushing after treatment
- Training programs in Water & Waste management , Solids and e-Waste Management, Carbon footprint concepts, Awareness on Global warming & Climate change, E -vehicle usage , Alternative Fuel usage , Renewable Energy
- Increase the number of display boards on environmental awareness such as no wastage of food, switch off light and fan after use etc
- Register to be maintained for collection, storage and disposal of E waste & used batteries

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TIN : 33976204357 CST : 861755 Dt. : 26-03-08 Area Code : 3 1 7

GLOBAL ENVIRO SYSTEMS

Regd. Office : No. : 25-A, Nehru Nagar, Kasthurinaikenpalayam, Vadavalli, (P.O), Coimbatore - 641 041.
Cell : 97894 - 62617 E-mail : globalenvirosystems.cbe@gmail.com, globalenvirosystems@yahoo.com
Website : www.globalenvirosystems.com

Coimbatore -25-02-2022

To
THE PRINCIPAL
NGM COLLAGE
Palghat road
Pollachi- 642001

TEST REPORT

REPORT NO:	GES/10118/2022	REPORT DATE:	25-02-2022

Company Name and Address	
Sample Reference No	GES/WTP/22/W-16713
Customer Reference	WELL WATER
Sampling Procedure	IS 3025 Part-1
Sample Collected BY	Customer
Sample collected date	25-02-2022

Parameters	UNIT	RESULT	DRINKING STDS (IS 10500:2012)
PH at 25 °C	-	7.18	6.5-8.5
Turbidity	NTU,Max	0.01	5
Total dissolved solids	mg/l	147	2000
Total Hardness	mg/l	90.7	--
Magnesium (as Mg)mg/lMax	mg/l	11.0	100

Branch Office : Door No. 179/ 5,6,7, Ist Floor, Kaliyammal Street, (Opp. Corporation Park,) K.K. Pudur (P.O.), Saibabacolony,
Coimbatore - 641 038. Cell : 97894 62617 E-mail : durai_2004@rediffmail.com

Odour	mg/l	Agreeable	Agreeable
Total alkalinity as caco3	mg/l	80.5	600
Zinc	mg/l	0.5	15
Sulphates as SO4	mg/l	98.1	400
Nitrate as NO3	mg/l	18	No relaxation
Fluride as F	mg/l	BDL	1.5
Free residual chlorine as CR	mg/l	BDL	1.0

Remarks :

SUGGESTION – The water can be used for drinking purpose.

Approved by: GLOBAL ENVIRO SYSTEMS P.DURAISAMY .Msc PhD (ENVIORNMENT CONSULTANT)

For GLOBAL ENVIRO SYSTEMS

PARTNER

Chemist: G VINOTH

Note:

.BDL –Below Detectable Limit\< 0.001mg/l

.The test results only to the items received &tested

.The test report shall not be reproduce anywhere except in full and in the same format without the permission of the laboratory.

.This report is invalid if any details are written in pen other than the signature .GES Labs is not responsible for any manual correction made in the Report.

NALLAMUTHU GOUNDER MAHALINGAM COLLEGE

(Autonomous Institutions -Affiliated to Bharathiar University)

ISO 9001:2015 Certified and Re-Accredited with B Grade by NAAC

POLLACHI – 642001,

TAMILNADU, INDIA

ENERGY AUDIT REPORT

2020 - 2021

AUDIT / REPORT BY

ALCHEME GREEN ENERGY COMPANY
73977 64900
99948 45487
info@alchemegreenenergy.com

ACKNOWLEDGEMENT

We at ALCHEME GREEN ENERGY COMPANY, Madurai are thankful to the Principal for giving us the opportunity to carry out Energy audit of Nallamuthu Gounder Mahalingam College , Pollachi -642 001, Tamilnadu, India. Alcheme Green Energy Company team is also thankful to all other supporting Officers / Staffs of the above institute for their wholehearted support, hospitality and the courtesy extended to the Audit team during the course of the visit.

The following officers from Alcheme Green Energy Company under the guidance of Mr. C. Jebaraj, B.Tech., have carried out the Energy Audit.

Name	Qualifications	Certification Number
Mr. C. Jebaraj	B.Tech., PDGEM., DIS., BEE Certificated Energy Auditor, IRCA Certified Lead Auditor - OHSMS Internal Auditor-QMS	EA-9847
Mr. S. Lakhsmana Kumaran	B. Tech., MSc.,(Env. Science), MBA., IRCA Certified Lead Auditor ISO 14001 EMS	UID - 351851

The following staff from the Institution participated in the audit process

Name	Qualification	Designation
Dr.R.Muthukumaran	M.A., M.Phil., B.Ed., Ph.D.,	Principal
Dr.R. Manicka Chezhian	M.Sc., M.S., Ph.D.,	IQAC Co-Ordinator
Thiru. K.Srinivisan	M.C.A	Associate Professor Department of Computer Science ERP Co-Ordinator
Dr.A.Srividhya	M.A., M.Phil., Ph.D.,	Assistant Professor Department of English
Dr.P.Archanaa	M.Com., M.Phil., PGDCA., Ph.D., M.A[HINDI]	Assistant Professor PG Department of Commerce with Computer Applications
Dr.A.Kanakaraj	MCA., M.Sc., M.Phil., Ph.D., DIR	Assistant Professor PG Department of Computer Science

Summary of Audit

Energy audit of Nallamuthu Gounder Mahalingam College and Hostel was carried by Alcheme Green Energy Company. The Audit team has gone through the data related to TNEB GRID Electrical Energy, Renewable Energy , Diesel and LPG consumption. A study was also carried out on Renewable energy utilisation and Energy Conservation measures to reduce energy consumption.

During the visit it was observed that Nallamuthu Gounder Mahalingam College strictly follows reduce, reuse and recycle policy to limit energy usage. The concept of energy conservation is disseminated among the students and staffs through various seminars/workshops and training programs.

We hope that the results presented in the energy auditing report will serve as a guide for the institution on the existing energy related practices and resource usage.

The audit outputs and recommendations are summarised as follows

- Annual electricity consumption from TNEB GRID is around 2,13,063 units during the year 2020-2021.Due to lockdown, energy consumption is less compare to previous years
- Electrical Energy consumption from Diesel Generator – 14,850 units.
- Solar Power Electrical energy consumption- 438 units
- Total Electrical Energy consumption – 2,28,351 units.
- Minimum energy consumption during lock down period is 10,000 units per month.
- More Renewable energy (Grid Interactive Roof Top Solar Power Plant) utilisation shall be planned in the coming years.
- LPG consumption - 1501 Kgs
- Solar water heater capacity of 4,100 LPD installed
- High Volume low speed fans are provided at auditorium to reduce energy consumption
- BEE Star rated appliances are being used.
- Battery Room Housekeeping to be improved.

- Proper History card to be maintained to track the UPS and Battery conditions
- Fire Hydrant system water pump to be serviced
- Lightning arrestor to be provided inside the campus at higher elevation
- Current Harmonics levels are above the limit for 30KVA and 20 KVA ups.

ENERGY SAVING POTENTIALS

1.**Conventional tube lights shall be replaced with LED tube lights**

Replacement cost for 100 LED tube lights-Rs 200x100= RS 20,000
Payback period-5.5 months
Cost savings for 100 LED tube lights-Rs 44,000 / year
Energy savings for 100 LED tube lights-5,500 units/ year

2.**Conventional fans shall be replaced with energy efficient fans**

Replacement cost for 100 Nos. ENERGY EFFICIENT FAN-Rs 2,800x100= RS 2,80,000
Cost savings for 100 Nos. ENERGY EFFICIENT FAN -Rs 1,65,600 / year
Energy savings for 100 Nos. ENERGY EFFICIENT FAN -20,700 units/ year
Payback period 20 months

- Remaining Conventional Tube lights shall be replaced with LED tube lights in a phased manner
- 5 Star rated Energy efficient electrical equipments shall be procured in future
- Automatic power switch off systems may be introduced in the required areas

We are happy to submit this detailed energy audit report to the Nallamuthu Gounder Mahalingam College

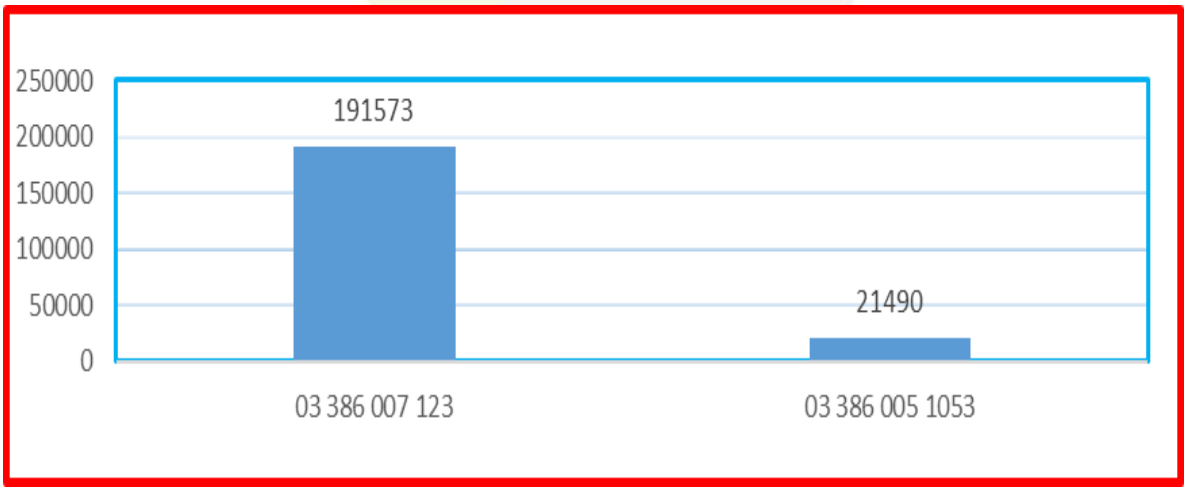
Alcheme Green Energy Company
Madurai

Sl. No.	Content	Page No.
	Summary of Audit	3
1	Service connection, Tariff, Load and Energy consumption details	6
2	Electrical Energy consumption in the college service number 03 386 007 123	7
3	Electrical Energy consumption in the hostel service number 03 386 005 1053	8
4	TNEB Grid Energy consumption pattern in College and Hostel	9
5	DG set Electrical Energy consumption	10
6	Total Conventional Electrical Energy Consumption details	11
7	Renewable Electrical Energy-Solar Electrical energy Consumption	12
8	Conventional Thermal Energy consumption – LPG & Diesel(For Transport)	13
9	Renewable Thermal Energy-Solar Water Heater	14
10	Total Energy consumption	15
11	Renewable and conventional energy distribution	16
12	Energy Conservation measures followed	17
13	Major Electrical load details	18
14	Power Quality Study	19
15	Common observation and feedback	28
16	Audit Findings and Energy saving potential	31

1. Service connection, Tariff, Load and Energy consumption details

TNEB SERVICE CONNECTION DETAILS				
Sl.No	SERVICE NO	BLOCK/BUILDING NAME	Tariff	connected load in KW
1	03 386 007 123	College	LM2B2	149.52
2	03 386 005 1053	Hostel	LM2B2	14.48
	Total			164

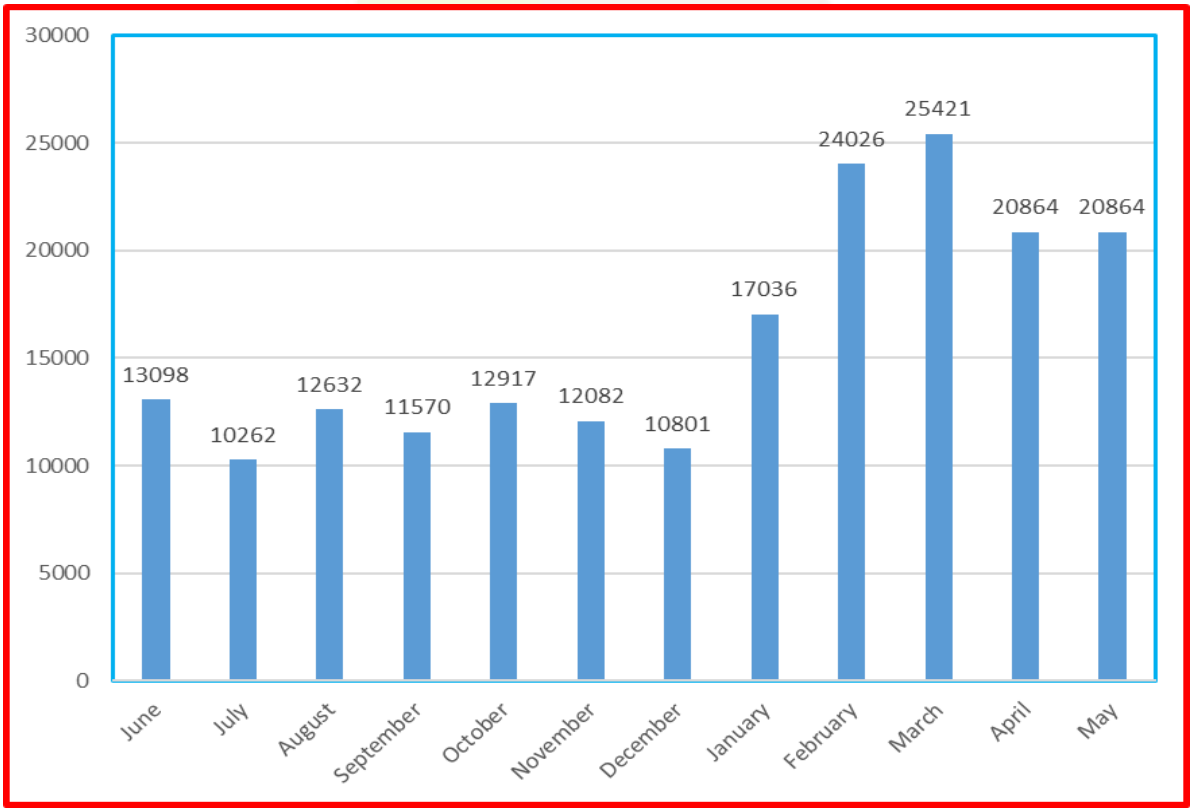
TNEB ENERGY CONSUMPTION					
Sl. No	SERVICE NO	TARIFF	Units Consumed	Bill Amount - Rs	Average Unit cost-Rs
1	03 386 007 123	LM 2B2	191573	1591739	8.31
2	03 386 005 1053	LM 2B2	21490	184489	8.58
	Total		213063	1776228	



College and Hostel Energy consumption during the year 2020-2021

2. Electrical Energy consumption in the college service number 03 386 007 123

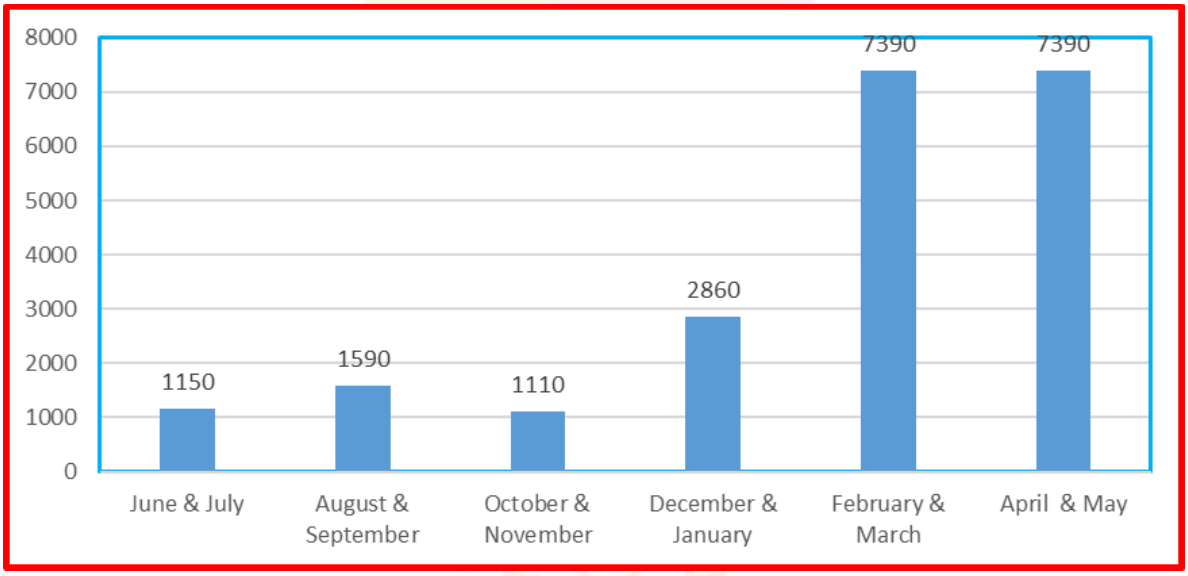
1.Service No 03 386 007 123 149.52 KW 3 Phase Tariff LM2B2					
Sl. No.	Assessment Date	Months	Units Consumed	Bill Amount - Rs	Unit cost-Rs
1	29.06.2020	June	13098	109987	8.40
2	27.07.2020	July	10262	87674	8.54
3	29.08.2020	August	12632	106323	8.42
4	26.09.2020	September	11570	97957	8.47
5	27.10.2020	October	12917	108572	8.41
6	27.11.2020	November	12082	101983	8.44
7	25.12.2020	December	10801	91810	8.50
8	27.01.2021	January	17036	141342	8.30
9	25.02.2021	February	24026	196225	8.17
10	26.03.2021	March	25421	207224	8.15
11	28.04.2021	April	20864	171321	8.21
12	31.05.2021	May	20864	171321	8.21
	Total		191573	1591739	8.31



Month wise Energy consumption in the college

3. Electrical Energy consumption in the hostel service number 03 386 005 1053

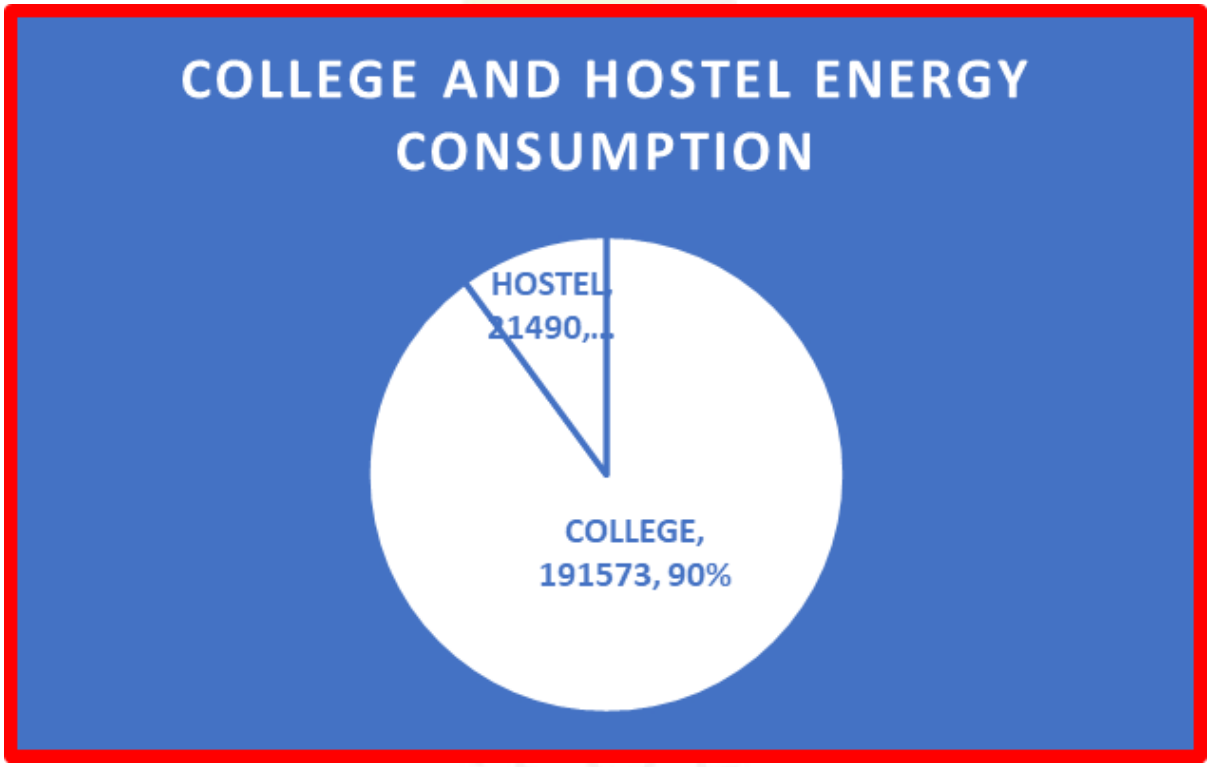
2.Service No 03 386 005 1053 14.48 KW 3 Phase Tariff LM2B2					
Sl. No.	Assessment Date	Months	Units Consumed	Bill Amount - Rs	Unit cost-Rs
1	24.07.2020	June & July	1150	10862	9.45
2	25.09.2020	August & September	1590	14381	9.04
3	26.11.2020	October & November	1110	10547	9.50
4	28.01.2021	December & January	2860	24371	8.52
5	26.03.2021	February & March	7390	60068	8.13
6	29.05.2021	April & May	7390	64260	8.70
	Total		21490	184489	8.58



Bi Monthly Energy consumption in the Hostel

4.TNEB Grid Energy consumption pattern in College and Hostel

SL.NO		UNITS CONSUMED
1	COLLEGE	191573
2	HOSTEL	21490
	TOTAL	213063



5.DG set Electrical Energy consumption

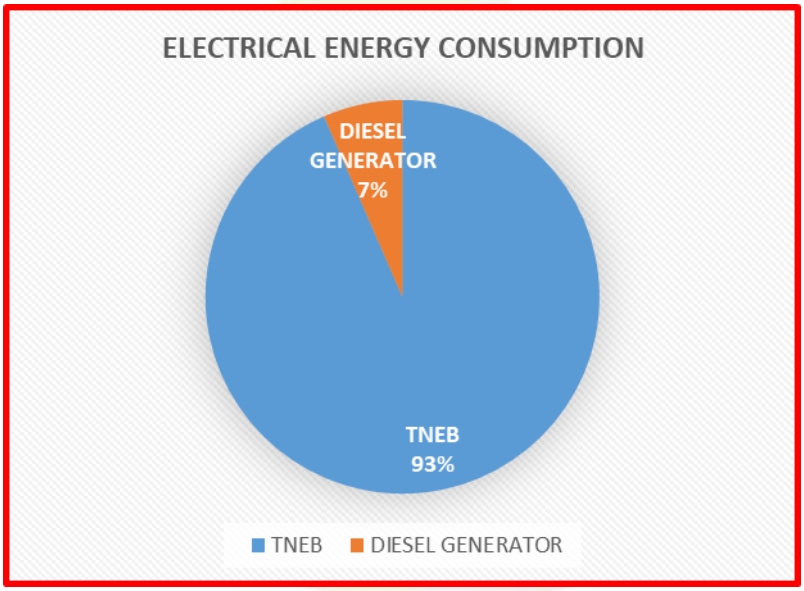
College Diesel Generator

Hostel Diesel Generator

- Total Diesel consumption-4950 litres
- Power generation -14,850 units

6.Total Conventional Electrical Energy Consumption details

SL.NO		UNITS CONSUMED
1	TNEB	213063
2	DIESEL GENERATOR	14850
	Total	227913



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7.Renewable Electrical Energy-Solar Electrical energy Consumption

- Solar Street Lights -5 Nos
- Power of LED lamp-20watts
- Total power generation - 438 units

8.Conventional Thermal Energy consumption – LPG & Diesel(for Transport

LPG

LPG cylinders used- commercial cylinders of 19 kgs capacity

- LPG consumption in the hostel mess during the year 2020-2021- 78 cylinders
- LPG consumption in the college during the year 2020-2021- 1 cylinder.
- **Total LPG consumption during the year 2020-2021- 1501 KGs(79 Cylinders)**

Transport

- College is not operating any bus for students
- Encourage maximum students to come by public transport

9. Renewable Thermal Energy

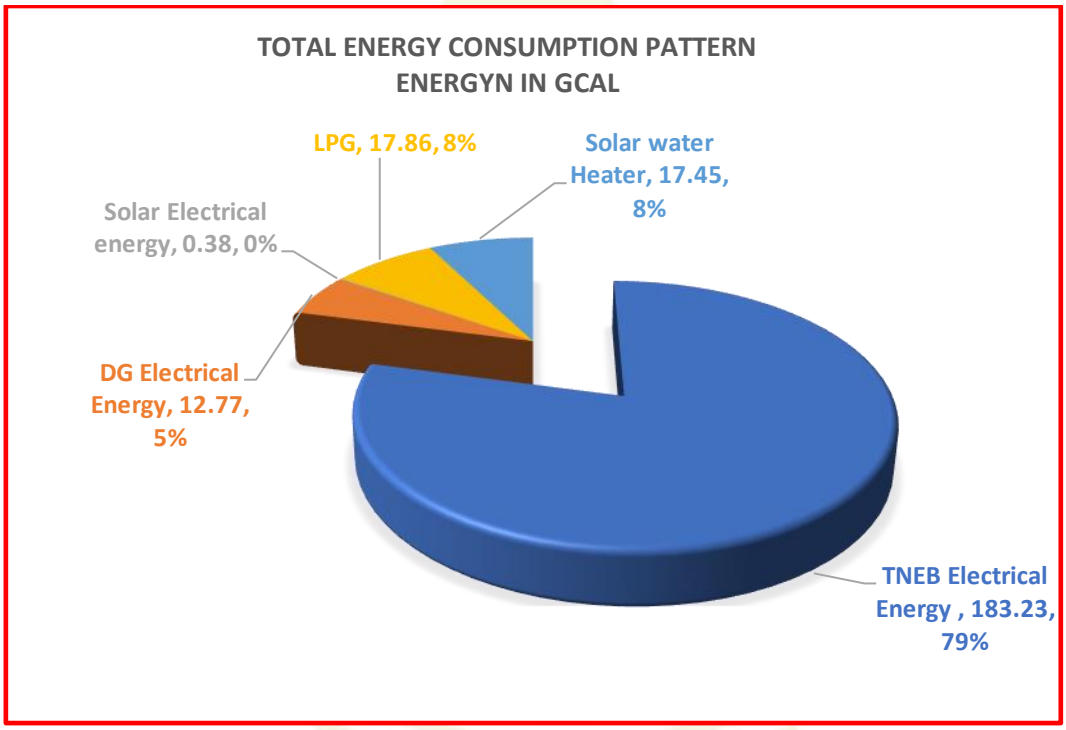
Total capacity of Solar Water Heaters-4100 Litters Per Day

	Boys Hostel 1000 LPD X 1
	Girls Hostel 1000 LPD X 1
	Girls Hostel 1000 LPD X 2 100 LPDX1

Due to more numbers of online classes, Hot water from the Solar Water Heaters are utilised for less no of days (79 days)

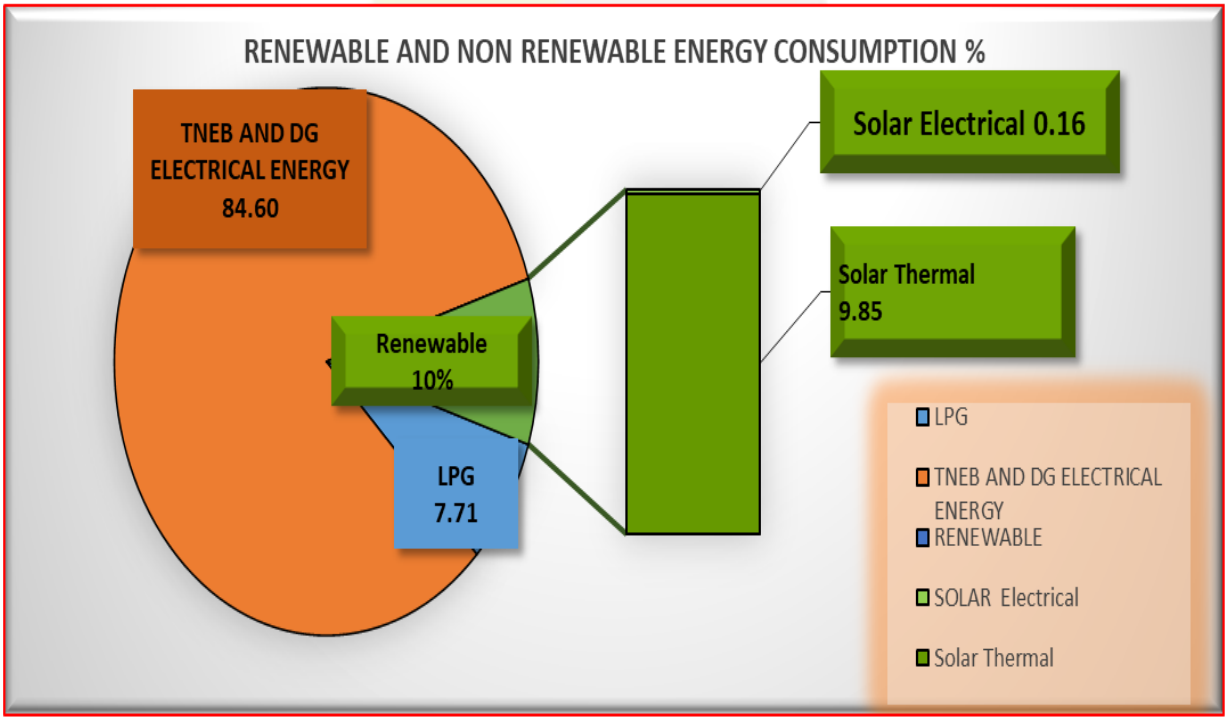
10.Total Energy consumption

SL.NO	TYPE OF ENERGY	ENERGY -GCAL
1	TNEB Electrical Energy	183.23
2	DG Electrical Energy	12.77
3	Solar Electrical energy	0.38
4	LPG	17.86
5	Solar water Heater	17.45
	Total	231.7



11.Renewable and Non Renewable(conventional) energy distribution

ENERGY CONSUMPTION	PERCENTAGE
NON RENEWABLE	
LPG	7.71
TNEB AND DG ELECTRICAL ENERGY	84.60
RENEWABLE	
SOLAR Electrical	0.16
Solar Thermal	9.85



12.The energy conservation measures followed

- High volume Low Speed fans are provided in the auditorium
- Maximum utilisation of day lights at auditorium, hostel and colleges
- Staff and Students are made aware of using public transport system
- Individual vehicle usage is reduced to the minimum level
- Periodical maintenance and overhauling of generators is being carried out
- The fans, lights, air-conditioners and other electronic and electrical equipments are switched off when not in use.
- Lights and fans are switched off by the students whenever they are out of hostel rooms
- Replacing conventional electrical light fittings with energy efficient Light-Emitting Diode (LED) bulbs.
- Replacing old high energy consuming appliances with star rated energy efficient appliances.
- Computers are switched to sleep mode or hibernate mode automatically when not in use.
- At the end of every practical session, Computer monitors and UPS are switched off.
- Soft copies are maintained instead of hard copies, to reduce power consumption and paper.

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13.Major Electrical load details

Sl No	Equipment	Watts	Nos	Total watts	KW
1	Ceiling Fan	75	932	69900	69.9
2	Computer	180	560	100800	100.8
3	Printer	115	30	3450	3.45
4	LCD	240	30	7200	7.2
5	Light	36	199	7164	7.164
6	light	18	68	1224	1.224
7	Light	16	4	64	0.064
8	Light	11	131	1441	1.441
9	LED	32	88	2816	2.816
10	LED	18	193	3474	3.474
11	LED	20	235	4700	4.7
12	LED	9	236	2124	2.124
13	CFL	27	3	81	0.081
14	CFL	18	13	234	0.234
15	CFL	12	6	72	0.072
16	CFL	4	4	16	0.016
17	Sodium Light	250	27	6750	6.75
18	Pedestal Fan	60	12	720	0.72
19	Wall mounted fan	55	10	550	0.55
20	Xerox Printer	2100	5	10500	10.5
21	Water Doctor	750	12	9000	9
22	1 Ton AC	1000	9	9000	9
23	1.5 T AC	1500	20	30000	30
		HP	Nos		KW
1	Ceiling Fan	3	2	6	4.5
2	Motor	3	1	3	0.003
3	Motor	7.5	3	22.5	0.0225
4	Motor	5	1	5	0.005
5	Motor	2	1	2	0.002
6	Motor	1	1	1	0.001
	Hostel				
	Equipment	Watts	Nos	Watts	KW
1	Wet Grinder	1300	1	1300	1.3
2	Wet Grinder	750	1	750	0.75
3	Mixi	1500	1	1500	1.5
4	Mixi	750	1	750	0.75
	UPS				
	30 KVA	1			
	20 KVA	6			
	10KVA	1			
	6 KVA	1			
	3KVA	10			

Lighting Load

Total Lighting load	30.16	KW	
Contribution on Total lighting Load			%
LED Load	13.11	KW	43.48
CFL load	0.40	KW	1.34
Conventional lights	16.64	KW	55.18

Diesel Generators

1. 200 KVA- 1- College
2. 62.5 KVA- 2 - College
3. 25 KVA-1- Hostel

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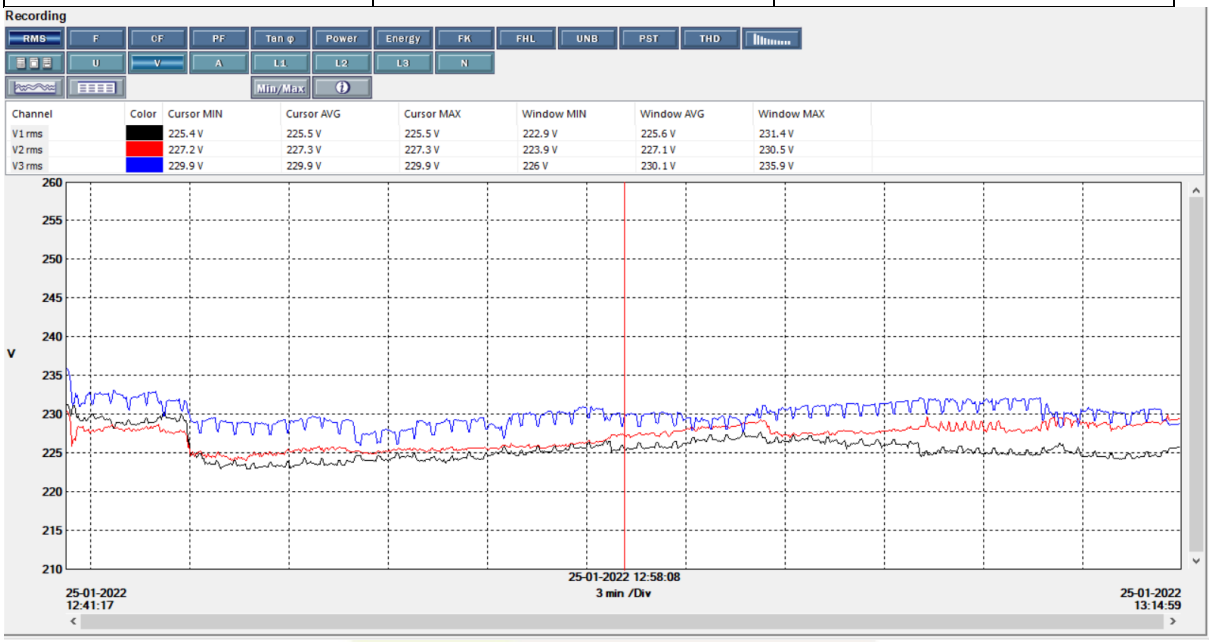
14.Power Quality Study

14.1Power quality study at Main power incomer point

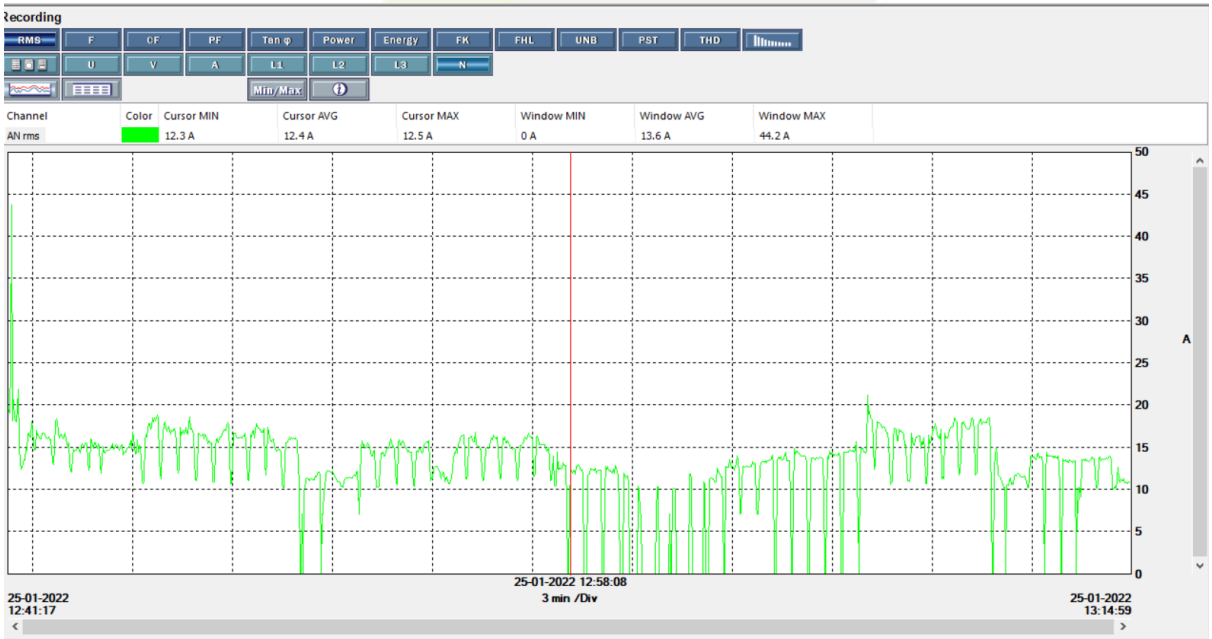
14.1.1Phase to Neutral- Voltage

R-N	Y-N	B-N
225.6V	227.1 V	230.1 V



Phase to neutral voltage is 225-230 V

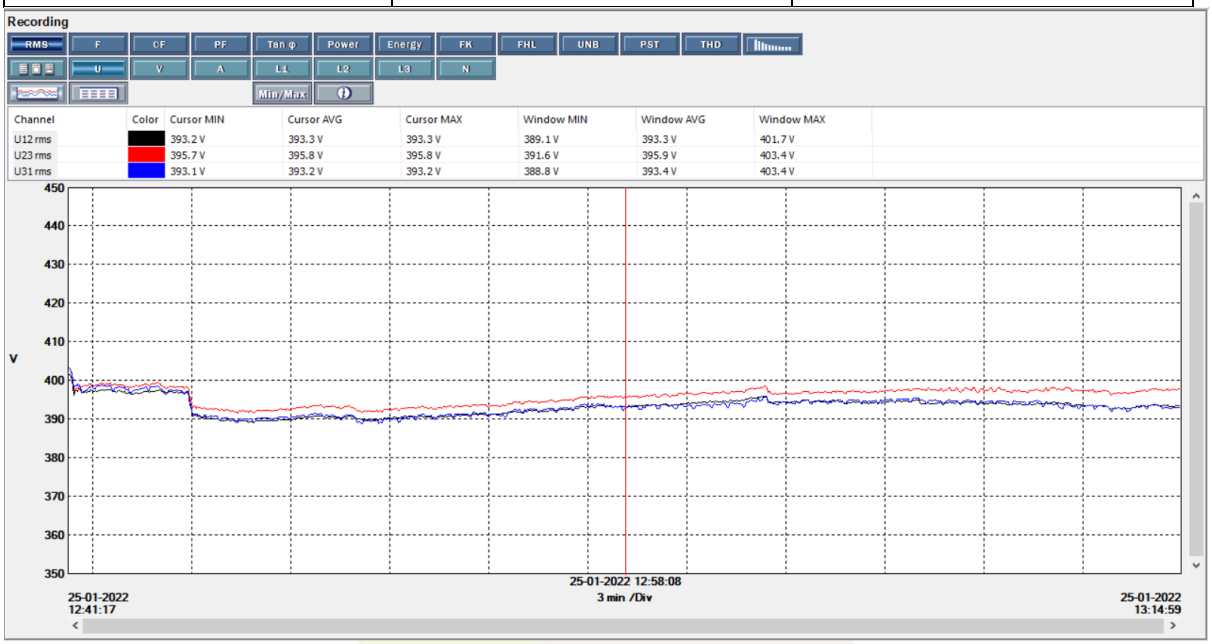
14.1.2 Phase to Neutral - Current



Phase to Neutral Current- 13.6 A

14.1.3 Phase to Phase – Voltage

RY	YB	BR
393.3V	395.9V	393.4V

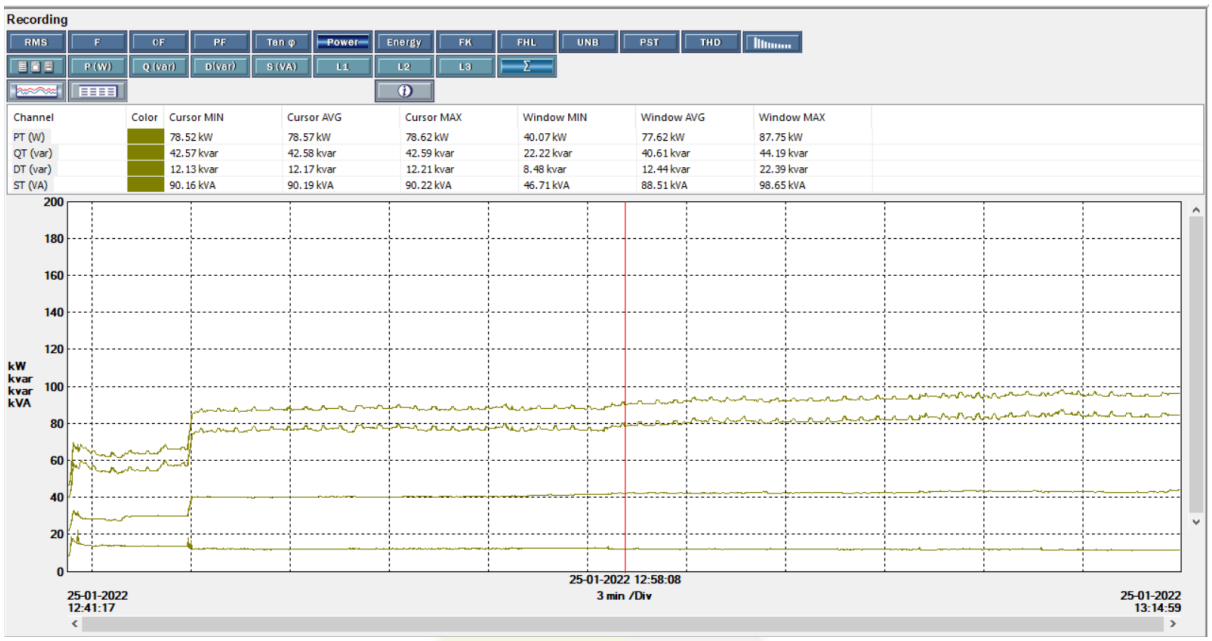


Voltage is between 393-396V only

14.1.4 Power Factor

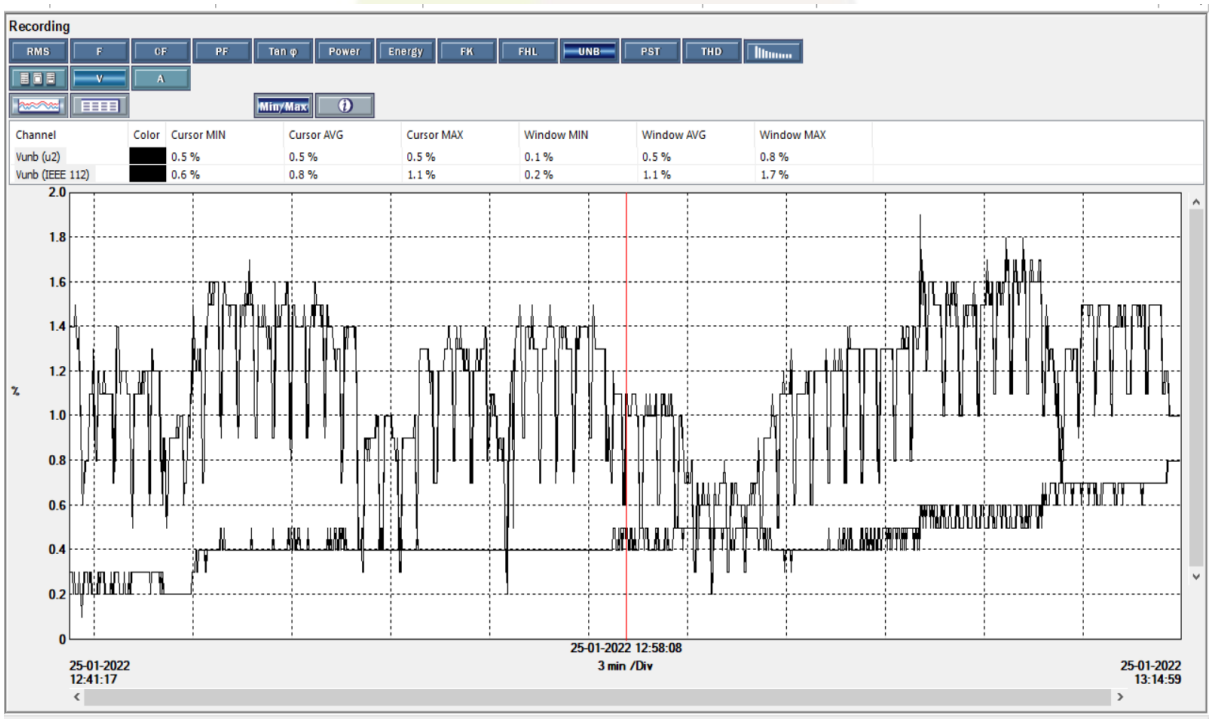
Power factor at 52 % Load- 0.886

14.1.5 Power



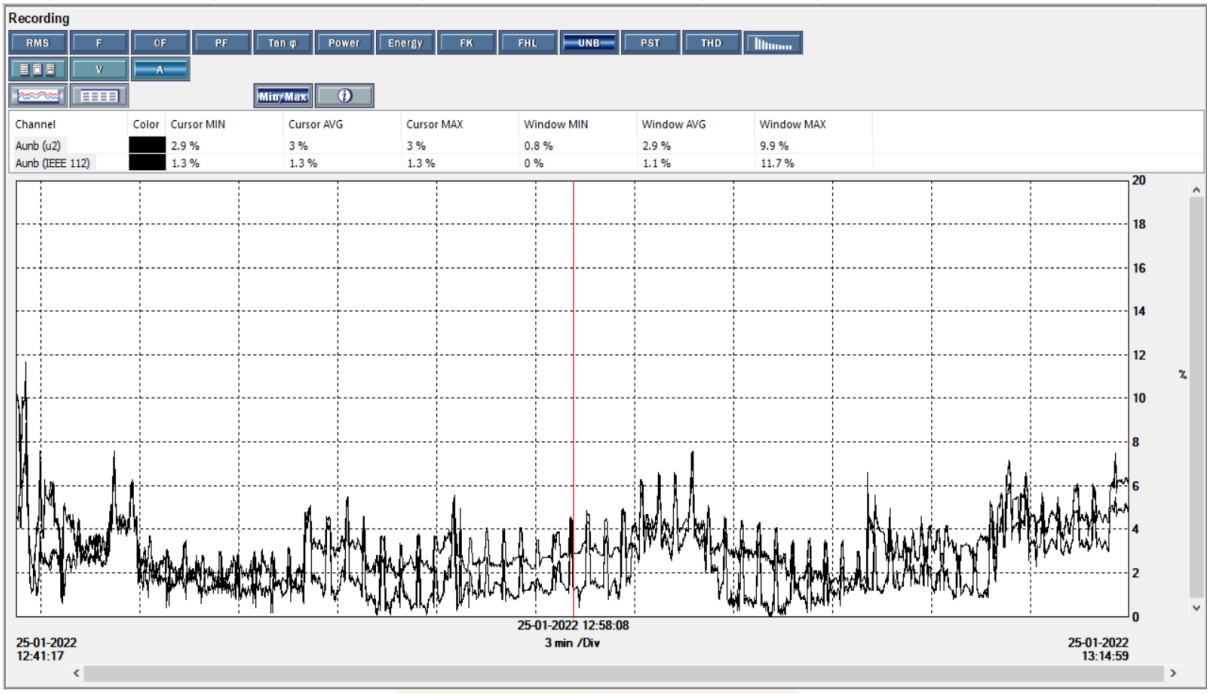
Maximum power reached during audit- 77.62 KW

14.1.6 Voltage Unbalance (Percentage)



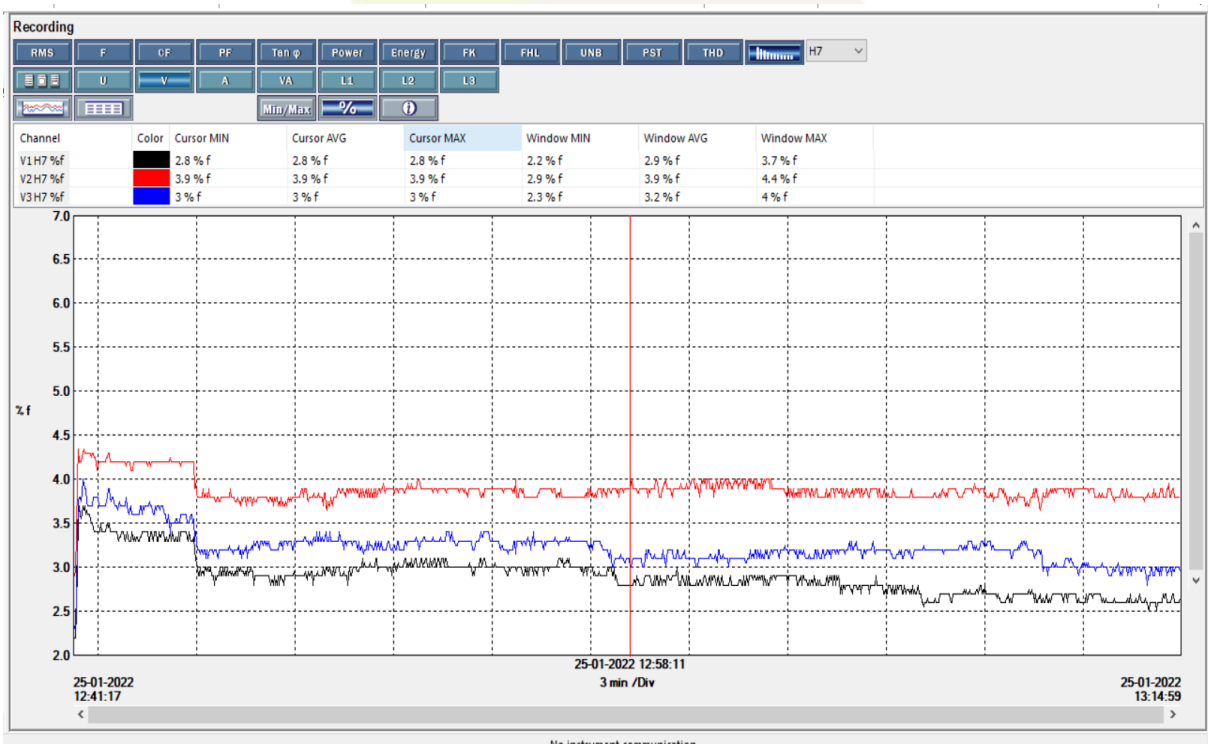
Voltage unbalance is 1.1% only

14.1.7 Current Unbalance (Percentage)



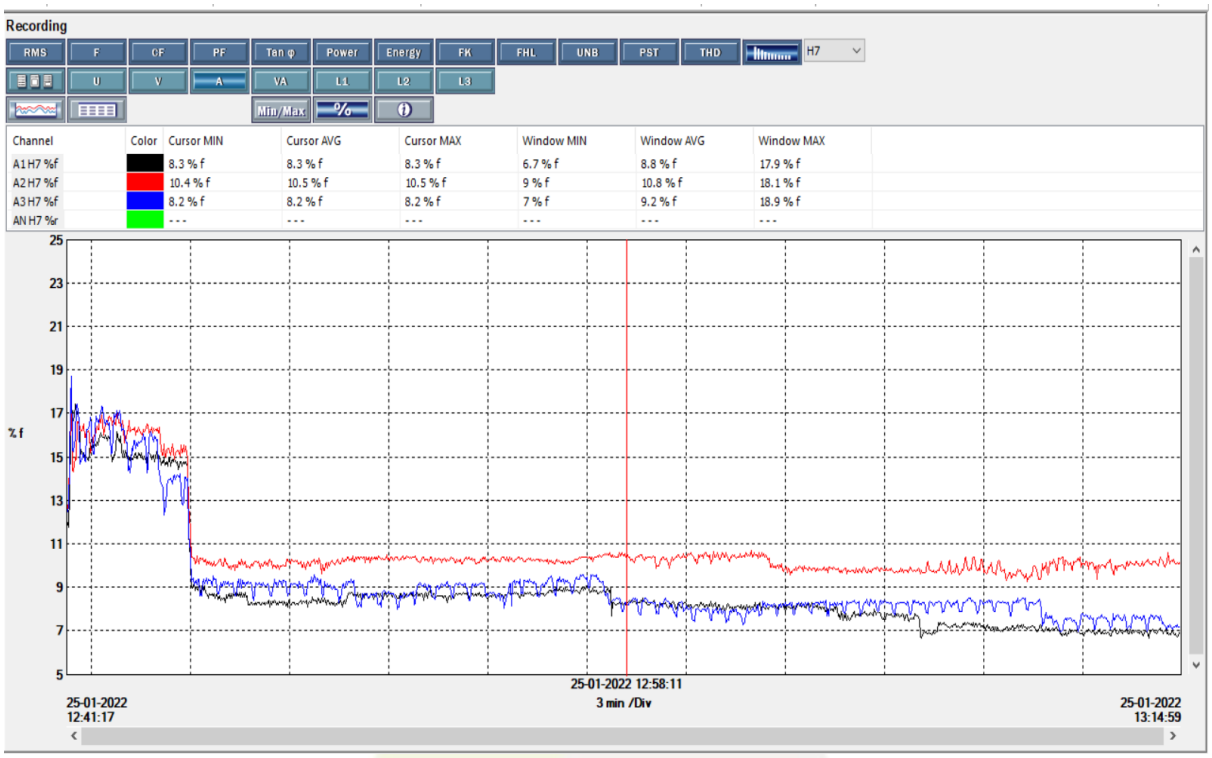
Current unbalance is 1.1 %

14.1.8 Voltage Harmonics (7th Harmonics -in Percentage)



Maximum value is 3.9 %

14.1.9 Current Harmonics (7th Harmonics -in Percentage)



Maximum value is 10.8 %

14.1.10 Remarks

1.Bimetallic clamps to be provided in the power drawing point at EB post to improve the incoming voltage

2. Transformer Neutral earth to be revamped

3.Auto Power Factor control panel to be provided in the main power line to improve the power factor to 0.99 and reduce the energy losses

4. Voltage unbalance is within the limit

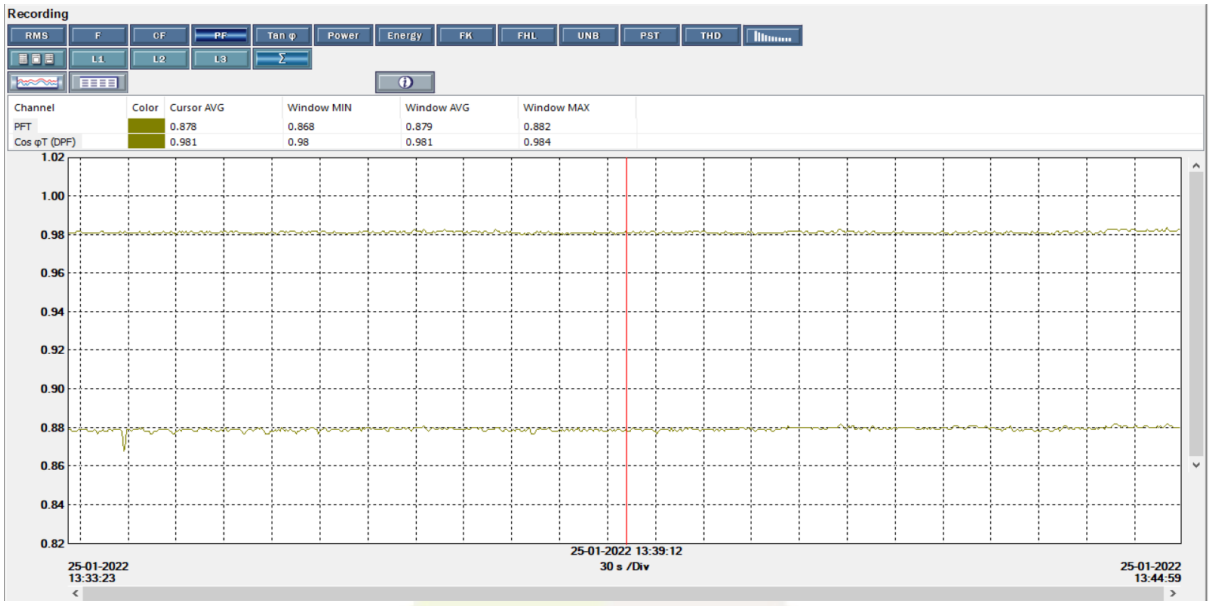
5. Current unbalance is within the limit

6. Voltage and Current harmonics levels are acceptable for main incomer

7. During the energy audit, maximum load given was 77.26 KW

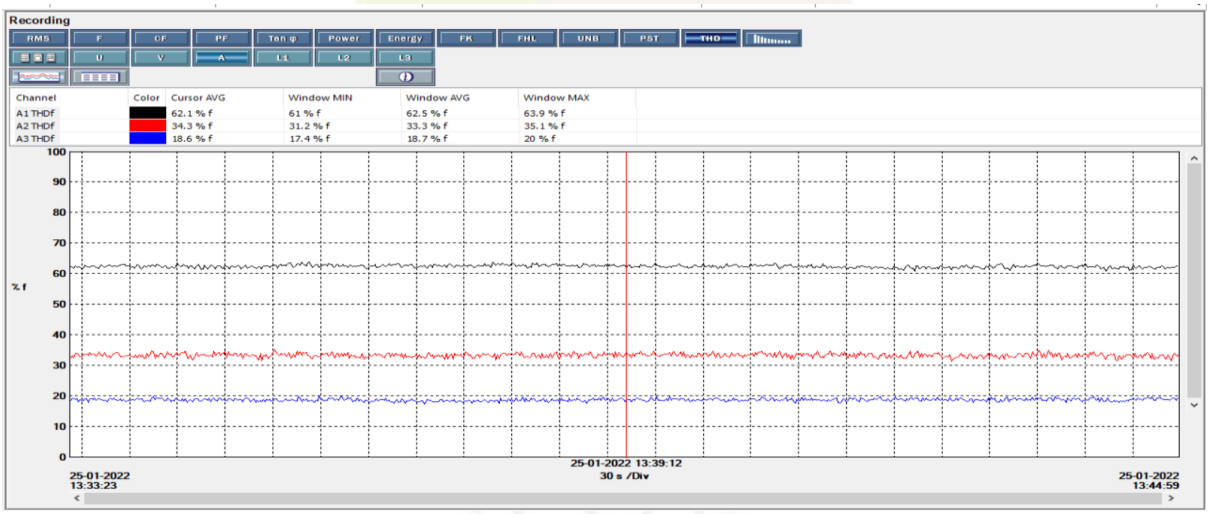
14.2 Power Quality study on OLD -20 KVA UPS- 3 Nos

14.2.1 Power Factor



Power Factor 0.981

14.2.2 Total Harmonics Distortion (Current)



THD value is 62.5 %

14.2.3 Remarks

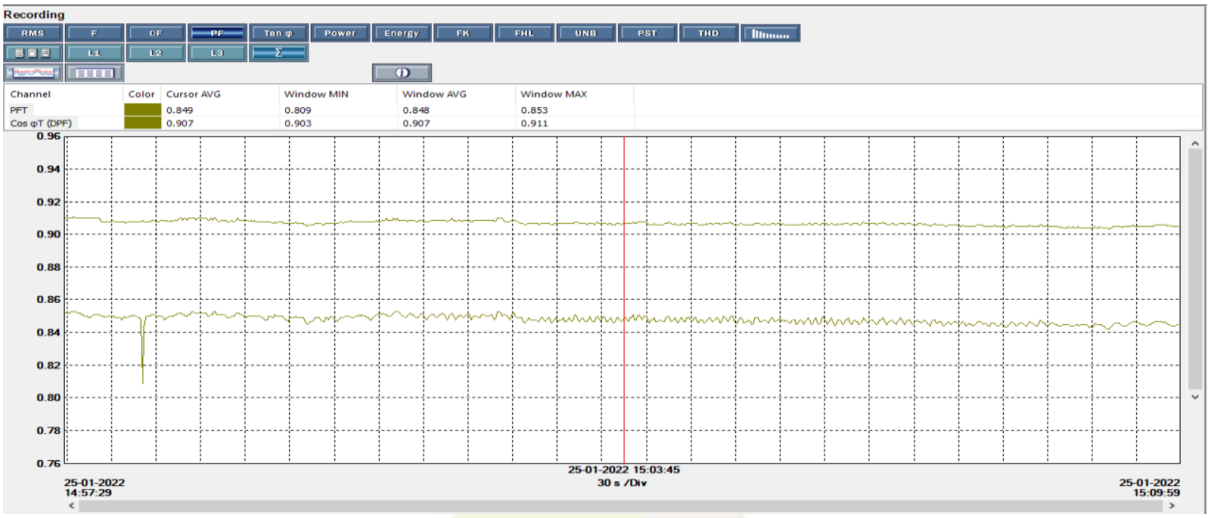
1. Current THD is 62.5 %. Limit is 8 %

2.Harmonics filter to be provided to reduce the harmonics level

3. Power Factor is normal

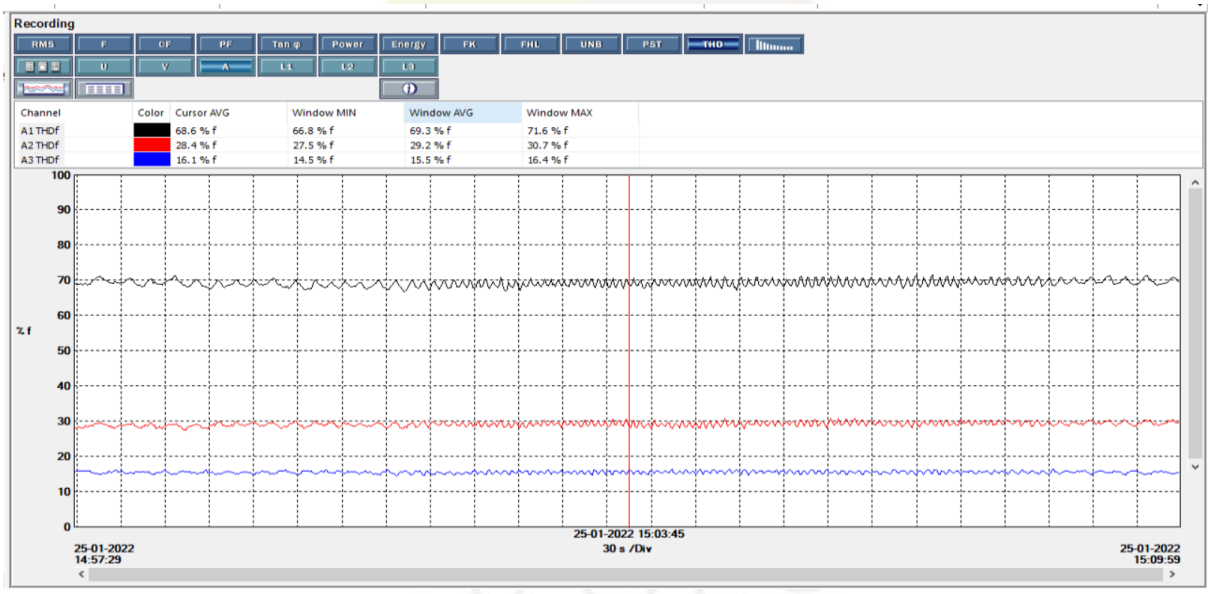
14.3 Power Quality study on 30KVA UPS 1 No & 20 KVA UPS-2 Nos

14.3.1 Power factor



Power factor is 0.907

14.3.2 Total Harmonics Distortion in percentage (Current)



THD value is 69.3 %

14.3.3 Remarks

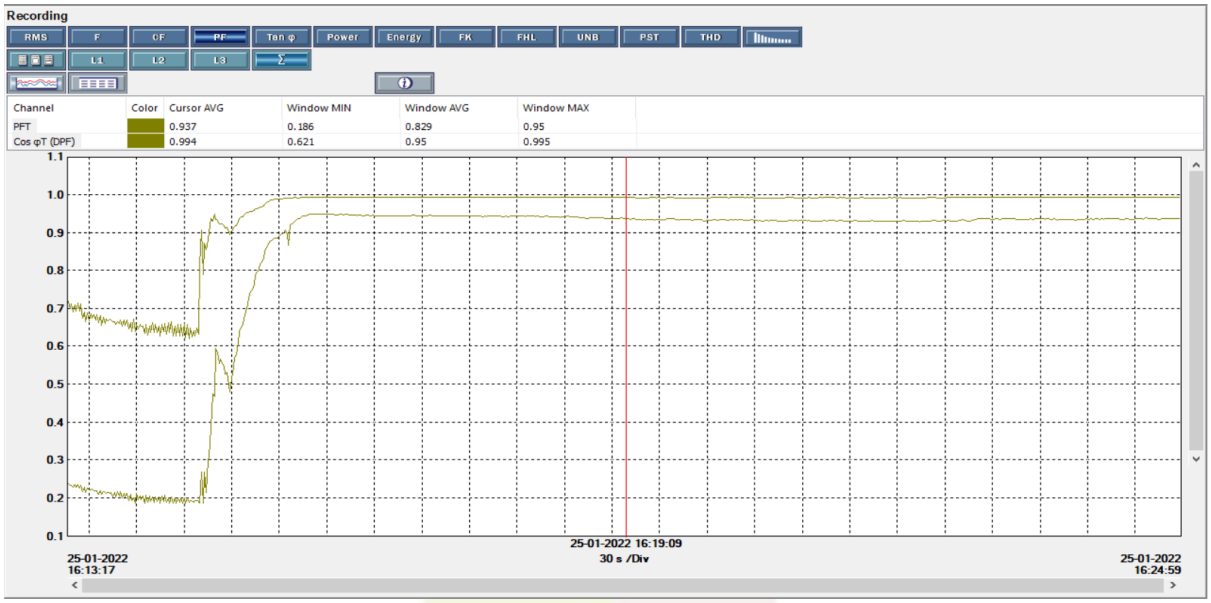
1. Current THD is 69.3 %. Limit is 8 %

2.Harmonics filter to be provided to reduce the harmonics level

3.Power Factor is within the acceptable level

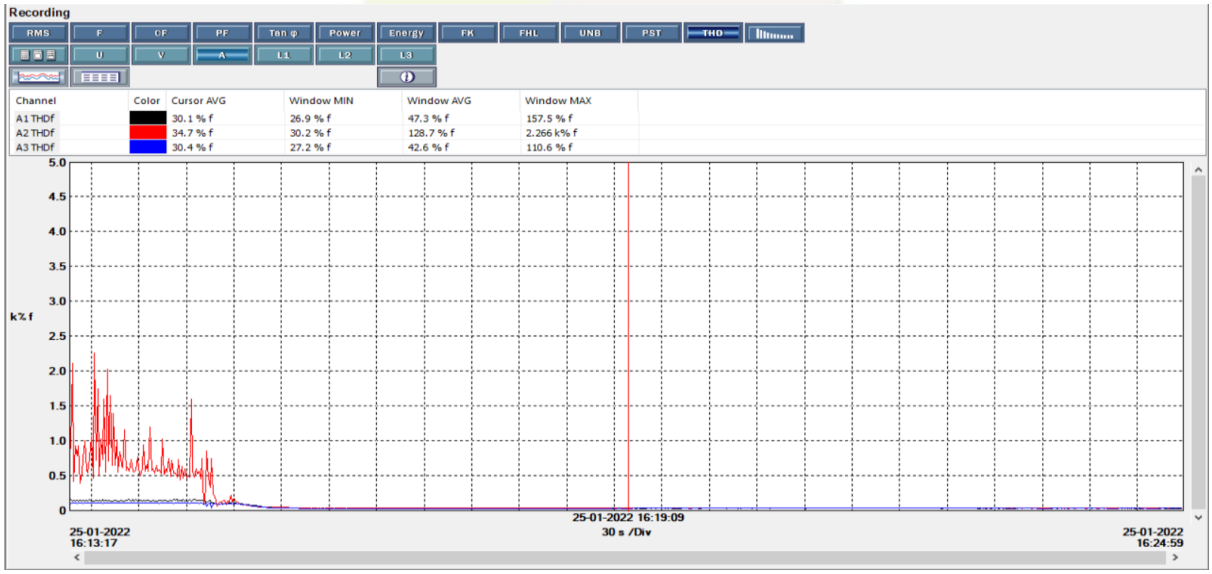
14.4.Power Quality study on 20 KVA New UPS-1 No

14.4.1 Power Factor



Power Factor is 0.95

14.4.2 Total Harmonics Distortion in percentage(Current)



THD value is 128.7 %

14.4.3 Remarks

1. Current THD is 128.7 %. Limit is 8 %

2.Harmonics filter to be provided to reduce the harmonics level

3.Power Factor is within the acceptable level

15.COMMON OBSERVATION AND FEEDBACK

1. Fire Extinguishers and Fire sand buckets to be kept at LPG gas cylinders storage area to use at emergency situation
2. Hands on training to operate Fire Extinguishers shall be given to all teaching and non- teaching staffs on periodical manner
3. Lightning arrestor system is not available inside the campus
4. DG sets should be kept under roof to avoid rain water entry and rust formation on silencer.
5. DG set Diesel tank, fuel addition point to be kept closed properly
6. Unwanted materials to be removed from power room
7. Energy conservation program for all staffs shall be planned on regular basis
8. Display of Emergency contact numbers to be posted on prominent places
9. History card to be maintained for all UPS and batteries.
10. Proper History card to be maintained to track the UPS and Battery conditions
11. Battery Purchase details, Warranty periods to be maintained.
12. Combustible Materials not to be kept inside Battery room
13. Proper ventilation to be ensured in battery and UPS storage room
14. Solar Street light system battery conditions to be checked on periodical manner
15. Five star rated energy efficient appliances to be procured in the future

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	Roof to be provided & Vegetation around Earth pits to be removed & maintained properly
	Fire Hydrant Pump to be serviced
	Unwanted materials to be removed from electrical room

	ɔustible material not to be kept in the battery room
	Solar street light system, battery conditions to be checked periodically
	Fire Extinguisher and Fire Sand Bucket to be kept near LPG storage area

17. AUDIT FINDINGS & ENERGY SAVING POTENIAL

Findings

- Annual electricity consumption from TNEB GRID is around 2,13,063 units during the year 2020-2021.Due to lockdown, energy consumption is less compare to previous years
- Electrical Energy consumption from Diesel Generator – 14,850 units.
- Solar Power Electrical energy consumption- 438 units
- Total Electrical Energy consumption – 2,28,351 units.
- Minimum energy consumption during lock down period is 10,000 units per month.
- More Renewable energy (Grid Interactive Roof Top Solar Power Plant) utilisation shall be planned in the coming years.
- LPG consumption - 1501 Kgs
- Solar water heater capacity of 4,100 LPD installed
- High Volume low speed fans are provided at auditorium to reduce energy consumption
- 5 Star rated Energy efficient electrical equipments shall be procured in future
- In total Lighting loads, 43.5 % lighting loads are converted into LED lighting system. Remaining Conventional Tube lights shall be replaced with LED tube lights in a phased manner
- Battery Room Housekeeping to be improved.
- Proper History card to be maintained to track the UPS and Battery conditions
- Fire Hydrant system water pump to be serviced
- Lightning arrestor to be provided inside the campus at higher elevation
- Students and staff may be advised to shift over to E- Vehicle
- Automatic power switch off systems may be introduced in the required areas
- Current and Voltage unbalance are within the limit
- Current Harmonics levels are above the limit for 30KVA and 20 KVA ups.
- Harmonics filters to be provided to reduce the unexpected failures of electronics equipments

- Auto Power Factor Control system to be provided to maintain the power factor near 0.99 to reduce energy losses

Renewable Energy

- Minimum energy consumption during Lockdown period was around 10,000 units for a month
- For minimum of 25 KW solar power plant operation, base loads are existing throughout 365 days.
- Solar power plant shall be planned in a phased manner in future to achieve 50 % renewable energy target

Energy saving potentials

1.Conventional tube lights shall be replaced with LED tube lights

Conventional tube light (with electronic choke) energy consumption-40 watts/hr

LED Tube lights energy consumption-20 watts/ hr

Savings per tube light -20 watts/hr

No of hours usage per day in the hostel– 10 hrs

No of days hostel occupied with students-275 days(During normal Days)

Energy savings per tube light per year -275 x10x20= 55,000wh=55 units

Average energy cost- Rs 8/unit

Cost saving per year per tube light-55 x 8 = Rs 440

Cost savings per month-Rs 36.6

Approximate Cost of LED tube light -Rs 200

Payback period-5.5 months

Replacement cost for 100 LED tube lights-Rs 200x100= RS 20,000

Cost savings for 100 LED tube lights-Rs 44,000 / year

Energy savings for 100 LED tube lights-5,500 units/ year

Payback period-5.5 months

2. Conventional fans shall be replaced with energy efficient fans

Conventional FAN energy consumption-75 watts/hr

ENERGY efficient fan energy consumption-28 watts/ hr

Savings per fan -47 watts/hr

No of hours usage per day in the hostel– 16 hrs

No of days hostel occupied with students-275 days (During normal Days)

Energy savings per fan per year -275x16x47= 206,800wh=207 units

Average energy cost- Rs 8 /unit

Cost saving per year per FAN-207 units x 8 = Rs 1656

Cost saving per month-Rs 138

Cost of ENERGY EFFICIENT FAN -Rs 2800

Payback period 20 months

Replacement cost for 100 Nos. ENERGY EFFICIENT FAN-Rs 2,800x100= RS 2,80,000

Cost savings for 100 Nos. ENERGY EFFICIENT FAN -Rs 1,65,600 / year

Energy savings for 100 Nos. ENERGY EFFICIENT FAN -20,700 units/ year

Payback period 20 months

ALGEO

NALLAMUTHU GOUNDER MAHALINGAM COLLEGE

(Autonomous Institutions -Affiliated to Bharathiar University)

ISO 9001:2015 Certified and Re-Accredited with B Grade by NAAC

POLLACHI – 642 001

GREEN AUDIT REPORT- 2021-2022

AUDIT / REPORT BY

ALCHEME GREEN ENERGY COMPANY
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ACKNOWLEDGEMENT

We at Alcheme Green Energy Company, Madurai are thankful to the Principal for giving us the opportunity to carry out Green audit at Nallamuthu Gounder Mahalingam College , Pollachi -642 001. Alcheme Green Energy Company team is also thankful to all other supporting Officers / Staffs of the above institute for their wholehearted support, hospitality and the courtesy extended to the Audit team during the course of the visit.

The following officers from Alcheme Green Energy Company under the guidance of Mr. C. Jebaraj, B.Tech., have carried out the Green Audit.

Name	Qualifications	Certification Number
Mr. C. Jebaraj	B.Tech., PDGEM., DIS., BEE Certificated Energy Auditor, IRCA Certified Lead Auditor - OHSMS Internal Auditor-QMS CII Certified Carbon footprint Professional	EA-9847
Mr. S. Lakhsmana Kumaran	B.Tech., MSc.,(Env. Science), MBA., IRCA Certified Lead Auditor ISO 14001 EMS	UID - 351851

The following staff from the Institution were participated in the audit process

Name	Qualification	Designation
Dr. R. Muthukumaran	M.A., M.Phil., B.Ed., Ph.D.,	Principal
Dr. R. Manicka Chezhian	M.Sc., M.S., Ph.D.,	IQAC Co-Ordinator
Thiru. K. Srinivasan	M.C.A	Associate Professor Department of Computer Science ERP Co-Ordinator
Dr. A. Srividhya	M.A., M.Phil., Ph.D.,	Assistant Professor Department of English
Dr. P. Archanaa	M.Com., M.Phil., PGDCA., Ph.D., M.A[HINDI]	Assistant Professor PG Department of Commerce with Computer Applications
Dr. A. Kanakaraj	MCA., M.Sc., M.Phil., Ph.D., DIR	Assistant Professor PG Department of Computer Science

Index

Sl. No.	Contents	Page No
1	Summary of the Green Audit	4
1.1	Green Environmental policy	6
1.2	Total Campus Area	6
1.3	NAAC Grading	6
1.4	Campus Infrastructure	7
2.0	Pre-Audit Stage	9
2.1	Management's Commitment	9
2.2	Scope and Goals of Green Auditing	9
2.3	Benefits of Green Auditing	10
2.4	Target Areas of Green Auditing	10
3.0	Audit Stage	13
3.1	Student Clubs and Forums	13
3.2	Comments on Site Tour	13
3.3	Review of Documents and Records	13
3.4	Review of Policies	14
3.5	Interviews	14
3.6	Site Inspection	14
4.0	Post Audit Stage	15
4.1	Key Findings ,Observations and Evaluations	15
4.2	Consolidation of Audit Findings	37
4.3	Preparation of Action Plan	39
4.4	Follow-up Action and Plans	39
4.5	Environmental Education	39
4.6	Recommendations	40

I. Summary of the Green Audit

Green audit of Nallamuthu Gounder Mahalingam College and its Hostel was carried by Alcheme Green Energy Company. The green audit reports assist in the process of attaining an eco- friendly approach to the sustainable development of the college. Green audit report is a very powerful and valuable communications tool to use when working with various stakeholders who need to be convinced that things are running smoothly and systems and procedures are coping with natural changes and modifications that occur.

A few recommendations are added to curb the menace of waste management using eco-friendly and scientific techniques. This will lead to a prosperous future in context of Green Campus leading to sustainable environment and community development. It has been proved frequently that the practical suggestions, alternatives and observations that have resulted from audits have added positive value to the audited organisation. It is hoped that the results presented in the Green Audit Report will serve as a guide for educating Nallamuthu Gounder Mahalingam College, on the existing environment related practices and resource usage and spawn new activities and innovative practices.

Noteworthy activities

- Installation of 90KW Solar Power plant
- MOU with Tharani Electronics Waste, Coimbatore for proper disposal of E waste
- Maximum utilisation of public transport system by students and staff for commutation is highly appreciable
- Optimum utilisation of Water
- Excellent Solar water Heater system for both Boys and Girls at Hostel
- Hot water from Solar water heater is used in the hostel for cooking to reduce the LPG consumption
- Grey water treatment facilities at Boys Hostel

The audit outputs and recommendations are summarised as follows:

- Total water consumption for Nallamuthu Gounder Mahalingam College and Hostel –50 KL/Day

- Electrical Energy consumption from TNEB GRID alone –2,93,479 units
- Diesel Generator electrical energy consumption - 7,596 units
- Total Electrical Energy consumption is 3,01,075 units
- Total Green House Gas Emission is 259.45 t CO_2e
- Green House gas captured by grown up trees is 20.18 t CO_2 e
- Net Green House Gas emission is 239.27 t CO_2 e

We are happy to submit this detailed green audit report to the Nallamuthu Gounder Mahalingam College

For Alcheme Green Energy Company

Madurai

1.1 Green Policy

Nallamuthu Gounder Mahalingam College has formulated a Green Policy to guide all its green initiatives. Cleanliness in the campus is maintained through proper disposal of wastes, utilization of eco-friendly supplies and effective recycling program. The concept of eco-friendly culture is disseminated among the students through various seminars/workshops and community-oriented programs. Institution strictly follows reduce, reuse and recycle method to limit energy usages

The main objectives are as follows:

- To promote green growth ,create green jobs and maintain green infrastructure
- To execute “Reduce, Reuse, Recycle and Re- earth “ towards waste management, environmental protection and sustainable future
- To reduce potable water consumption
- To create environmental awareness among all the stakeholders of the institution
- To assess and regulate environmental practices of the institution periodically

The Institution vouchsafes:

- Its commitment to sustainability and environmental management
- It reiterates the stand that managing environmental issues is a high priority for the College
- Its commitment to prevent pollution and to continuously improve upon environmental protection.
- A commitment to create environmental awareness

1.2 Total Campus Area & Building Spread Area

- Campus area -**25.98 Acres**
- Build up area – **367644.3** sq.ft.

1.3 NAAC Grading

- Accredited with ‘B’ Grade by NAAC

1.4 Campus Infrastructure

Nallamuthu Gounder Mahalingam College is located in calm and quiet surroundings that are conducive to learning. It helps to stimulate both personal and professional growth of the students. The campus is located about 5 Kms from Pollachi .

CLASS ROOMS

Spacious, well ventilated and well-equipped classrooms with projectors and screens facilitate and reinforce effective teaching-learning experience for the faculty and students.

LABORATORIES

Nallamuthu Gounder Mahalingam College has set up highly advanced science and computer laboratories attached to different departments. These are adequately equipped with the latest gadgets, instruments and apparatus with the aim of providing students conceptual as well as practical understanding of the subject through hands-on training.

LIBRARY

The library is a central facility in the college and is fully automated with OPAC (online Public Access Catalogue) system. The Library has a stock of more than 64,000 books, including 52,000 titles and a supply of 63 journals and 45 magazines. CD/DVDs, e-journals, on-line database and audio-video cassettes are also available for reference installed CCTV.

The Central Library aims at enhancing readership and encourage the research and academic activities in the College by rendering information service to all kind of users.

The library is dedicated to support the student's activities and programs of the institution. It accomplishes college mission by maintaining up- to–date collection of books, journals audio-visual items and other library materials related to study.

A rich collection of books and Journals, Magazines, periodicals, reports, reference material are available in the library. Various e-contents and e-Resources are available to facilitate e-Learning.

The library also responds to the needs of the teaching staff for effective teaching and research. To the credit, the library has attracted many research scholars from the neighbourhood colleges in and around Pollachi for reference..

INTERNET

College is fully equipped with round the clock internet facility with 50 Mbps Leased Line internet access to all students

DRINKING WATER

Water is not just an ordinary need to the human beings. It plays a vital role in our life hence the institution gives more care towards the provision of safe water to everyone. The college has installed an Water Doctor which supply pure and safe drinking water.

LANGUAGE LAB

The Technology enabled Language Lab to experiment new educational concepts is available for students studying in the English / Tamil Department. This lab enhances instruction in the classroom by providing computer access and exercises in listening, speaking, reading and writing. Exercises are provided by individual instructors

The primary goals of the computer labs and classrooms is to provide assistance to students that will enhance their chances of succeeding in technology-based classroom assignments and to provide access to equipment that will support the needs of instruction where we celebrate life-long learning. The computer labs support the curriculum of the college and the assignments of the instructors.

HOSTEL

In the hostel accommodation is provided with quality food, purified drinking water,24 x7 availability of water, Recreation provisions and other amenities. Accommodation is available for undergraduate and postgraduate students. The hostels provide a calm and relaxing atmosphere to accelerate the creative talents of the students. The teachers who act as resident wardens of the hostels provide moral and emotional support and guidance to the inmates. The hostel securities ensure 24 hours safety.

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2. Pre-Audit Stage

A pre-audit meeting provided an opportunity to reinforce the scope and objectives of the audit and discussions were held on the practicalities associated with the audit. This meeting is an important prerequisite for the green audit because it is the first opportunity to meet the auditee and deal with any concerns.

The meeting was an opportunity to gather information that the audit team can study before arriving on the site. The audit protocol and audit plan was handed over at this meeting and discussed in advance the audit itself.

In Nallamuthu Gounder Mahalingam College pre-audit meeting was conducted successfully and necessary documents were collected directly from the College before the initiation of the audit processes. Actual planning of audit processes was discussed in the pre-audit meeting. Audit team was also selected in this meeting with the help of staff and the college management.

The audit protocol and audit plan were handed over at this meeting and discussed in advance of the audit itself. The audit team worked together, under the leadership of the lead auditor, to ensure completion within the brief and scope of the audit.

2.1 Management's Commitment

The Management of the college has shown the commitment towards the green auditing during the pre-audit meeting. They were ready to encourage all green activities. It was decided to promote all activities that are environment friendly and planting more trees on the campus etc., after the green auditing.

2.2 Scope and Goals of Green Auditing

A clean and healthy environment aids effective learning and provides a conducive learning environment. There are various efforts around the world to address environmental education issues.

Green Audit is the most efficient and ecological way to manage environmental problems. It is a kind of professional care which is the responsibility of each individual who are the part of economic, financial, social, environmental factor. It is necessary to conduct green audit in the College campus because students become aware of the green audit, its advantages to save the planet and they become good citizens of our country.

A very simple indigenized system has been devised to monitor the environmental performance of Nallamuthu Gounder Mahalingam College, Pollachi. It comes with a series of questions to be answered. This innovative scheme is user friendly. The aim of this is to help the Institution to set environmental examples for the community and to educate the young learners.

2 .3 Benefits of the Green Auditing

- More efficient resource management
- To create a green campus
- To enable waste management through reduction of waste generation, solid-waste and water recycling
- To create plastic free campus and evolve health consciousness among the stakeholders
- Recognize the cost saving methods through waste minimizing and management
- Point out the prevailing and forthcoming complications
- Authenticate conformity with the implemented laws
- Empower the organizations to frame a better environmental performance
- Enhance the alertness for environmental guidelines and duties
- Impart environmental education through systematic environmental management approach and Improving environmental standards
- Benchmarking for environmental protection initiatives
- Financial savings through a reduction in resource use
- Development of ownership, personal and social responsibility for the College and its environment
- Developing an environmental ethic and value systems in youngsters.
- Green auditing should become a valuable tool in the management and monitoring of environmental and sustainable development programs of the college.

2.4 Target Areas of Green Auditing

Green audit forms part of a resource management process. Although they are individual events, the real value of green audits is the fact that they are carried out, at defined intervals and their results can illustrate the improvement.

Eco-campus concept mainly focuses on the efficient use of energy and water; minimize waste generation or pollution and also economic efficiency. All these indicators are assessed in process of “Green Auditing of educational institute”. Eco-campus focuses on the reduction of contribution to emissions, procure a cost effective and secure supply of energy, encourage and enhance energy use conservation, reduce the institute’s energy and water consumption, reduce wastes to landfill and integrate environmental considerations into all contracts and services considered to have significant environmental impacts. Target areas included in this green auditing are water, energy, waste, green campus and carbon footprint.

Auditing for Water Management

Water is a natural resource; all living matters depend on water. While freely available in many natural environments, in human settlements potable (drinkable) water is less readily available. We need to use water wisely to ensure that drinkable water is available for all, now and in future. Aquifer depletion and water contamination are taking place at unprecedented rates. It is therefore essential that any environmentally responsible Institution should examine its water use practices.

Water auditing is conducted for the evaluation of facilities of raw water intake and determining the facilities for water treatment and reuse. The concerned auditor investigates the relevant method that can be adopted and implemented to balance the demand and supply of water. It is therefore essential that any environmentally responsible Institution examine its water use practices.

Auditing for Energy Management

Energy cannot be seen, but we know it is there because we can see its effects in the forms of heat, light and power. This indicator addresses energy consumption, energy sources, energy monitoring, lighting, appliances, and vehicles. Energy use is clearly an important aspect of campus sustainability and thus requires no explanation for its inclusion in the assessment. An old incandescent bulb uses approximately 60 W while an energy efficient light emitting diode (LED) uses only less than 20 W. Energy auditing deals with the conservation and methods to reduce its consumption related to environmental degradation. It is therefore essential that any environmentally responsible institution examine its energy use practices.

Auditing for Waste Management

Pollution from waste is aesthetically unpleasing and results in large amounts of litter in our communities which can cause health problems. This indicator addresses waste production and disposal of plastic waste, paper waste, food waste, and recycling.
Solid waste can be divided into two categories: general waste and hazardous waste. General wastes include what is usually thrown away in homes and schools such as garbage, paper, tins and glass bottles. Hazardous waste is waste that is likely to be a threat to health or the environment like cleaning chemicals and used oils.
Unscientific landfills may contain harmful contaminants that leach into soil and water supplies, and produce greenhouse gases contributing to global climate change. Furthermore, solid waste often includes wasted material resources that could otherwise be channelled into better service through recycling, repair, and reuse. Thus the minimization of solid waste is essential to a sustainable college. It is therefore essential that any environmentally responsible institution examine its waste processing practices.

Auditing for Green Campus Management

Unfortunately, biodiversity is facing serious threats from habitat loss, pollution, over consumption and invasive species. Species are disappearing at an alarming rate and each loss affects nature's balance and our quality of life. Without this variability in the living world, ecological systems and functions would break down, with detrimental consequences for all forms of life, including human beings.

Newly planted and existing trees decrease the amount of carbon dioxide in the atmosphere. Trees play an important ecological role within the urban environment, as well as support improved public health and provide aesthetic benefits to cities. The amount of oxygen that a single tree produces is enough to provide one day's supply of oxygen for people. So while the students are busy studying and working on earning those good grades, all the trees on campus are also working hard to make the air cleaner.

Trees on our campus impact our mental health as well; studies have shown that trees greatly reduce stress, which the students feel.

Auditing for Carbon Footprint

Commutation of stakeholders has an impact on the environment through the emission of greenhouse gases into the atmosphere consequent to burning of fossil fuels (such as petrol). The most common greenhouse gases are carbon dioxide, water vapour, methane, nitrous oxide and ozone. Of all the greenhouse gases, carbon dioxide is the most prominent greenhouse gas, comprising around 415 ppm of the Earth's atmosphere. The release of carbon dioxide gas into the Earth's atmosphere through human activities is commonly known as carbon emissions.

An important aspect of doing an audit is to be able to measure your impact so that we can determine better ways to manage the impact. In addition to the water, waste, energy and biodiversity audits we can also determine what our carbon footprint is, based on the amount of carbon emissions created. One aspect is to consider the distance and method travelled between home and college every day. It undertakes the measure of bulk of carbon dioxide equivalents exhaled by the organization through which the carbon accounting is done. It is necessary to know how much the organization is contributing towards sustainable development. It is therefore essential that any environmentally responsible institution examine its carbon footprint.

3. Audit Stage

In Nallamuthu Gounder Mahalingam College green auditing was done with the help of Alcheme Green Energy Company involving different student groups, teaching and non-teaching staff. The green audit began with the teams walking through all the different facilities at the college, determining the different types of appliances and utilities as well as measuring the usage per item and identifying the relevant consumption patterns and their impacts.

The staff and learners were interviewed to get details of usage, frequency or general characteristics of certain appliances. Data collection was done in the sectors such as Energy, Waste, Greening, Carbon footprint and Water use. College records and documents were verified to clarify the data received through survey and discussions.

3.1 Student Clubs and Forums Involved

- Green Society, National Service Scheme(NSS)

3.2 Comments on Site Tour

Site inspection was done along with students and staff. Questionnaires were answered during the site tour. Students and staff took much interest in the data collection processes. It was quite interesting and fascinating. It was an environmental awareness program for the students who participated in the green auditing. The experience of green auditing was totally a new experience for most of the students. They have shared their expectations about a green campus and gave suggestions for the audit recommendations.

3.3 Review of Documents and Records

Documents such as electricity and water charge remittance, laboratory equipment registers, audited statements and office registers were examined and data were collected. College calendars, college magazines, annual report of the college and NAAC self-assessment reports, UGC report etc. were also verified as a part of data collection.

3.4 Review of Policies

Discussions were made with the College management regarding their policies on environmental management. Future plans of the college were also discussed. The management would formulate an environment /green policy for the college in the light of green auditing. The purpose of the green audit was to ensure that the practices followed in the campus are in accordance with the Green Policy adopted by the Institution.

3.5 Interviews

In order to collect information for green auditing different audit groups interviewed teaching and non-teaching staff, students and other stakeholders of the college.

3.6 Site inspection

College and its premises were visited and analysed by the audit-teams several times to gather information. Campus trees were counted and identified. Medicinal /Herbal plants garden, play grounds, canteen, library, office rooms and parking grounds were also visited to collect data. Number and type of vehicles used by the stakeholders were counted. Number of LPG cylinders used in labs, canteen and hostel kitchen were also counted.

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4. Post Audit Stage

The base of any green audit is that its findings are supported by documents and verifiable information. The audit process seeks, on a sampled basis, to track past actions, activities, events, and procedures to ensure that they are carried out according to systems requirements and in the correct manner.

Green audits form a part of a process. Although they are individual events, the real value of green audits is the fact that they are carried out, at defined intervals, and their results can illustrate improvement or change over time. Although green audits are carried out using policies, procedures, documented systems and objectives as a test, there is always an element of subjectivity in an audit.

The essence of any green audit is to find out how well the environmental organisation, environmental management and environmental equipment are performing. Each of the three components is crucial in ensuring that the organisation's environmental performance meets the goals set in its green policy. The individual functioning and the success of integration will all play a role in the degree of success or failure of the organisation's environmental performance.

4.1 Key Findings, Observations and Evaluations

a) Water Usage at Nallamuthu Gounder Mahalingam College

Total number of students studied during the academic year 2021-2022: 5090

Teaching & non-Teaching staff in the institution during the academic year 2021-2022:258

Total number of stake holders: 5348

Water for college and hostel

Municipal water-34,000 litres/day

Borewell water- 16,000 litres/day

Total water usage -50, 000 litres/day

Main water uses in the College campus are Drinking, Rest room, Canteen and Lab

Water usage in the College- 41 KL / Day

Water usage per day per stakeholder in the college – 7.66 litres

Water usage at college

Sl. No	Place	Water usage Quantity Litres / Day
1	Drinking	5000
2	Rest room	25,000
3	Canteen	4000
4	Lab	1000
5	Garden	6000
	Total	**41,000**

Waste water generation in the college – 30 KL/day

Water usage at Hostel

Number of students and staff residing in the hostel in the year 2021-2022: 91

Main water uses in the Hostel are Drinking, Washing of clothes, Cooking & Vessel cleaning and for Rest room

Water usage at Hostel - 9 KL / Day

Water usage at Hostel

Sl. No	Place	Water usage Quantity Litres / Day
1	Drinking	200
2	Cooking	400
3	Rest room	900
4	Bathing	1300
5	Clothes washing	1300
6	Vessel Cleaning	400
7	Garden	4,500
	Total	9,000

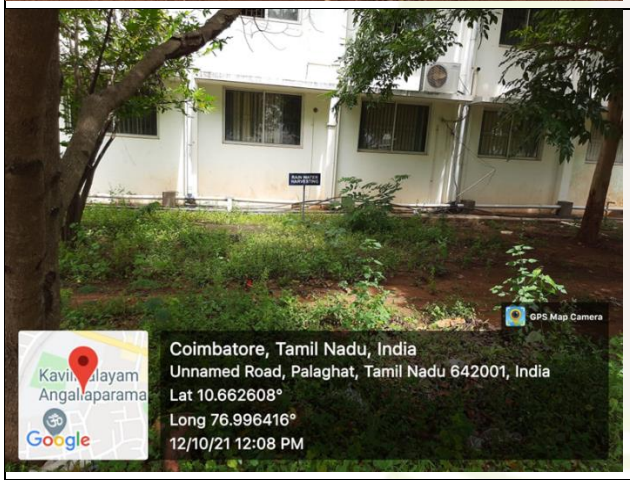
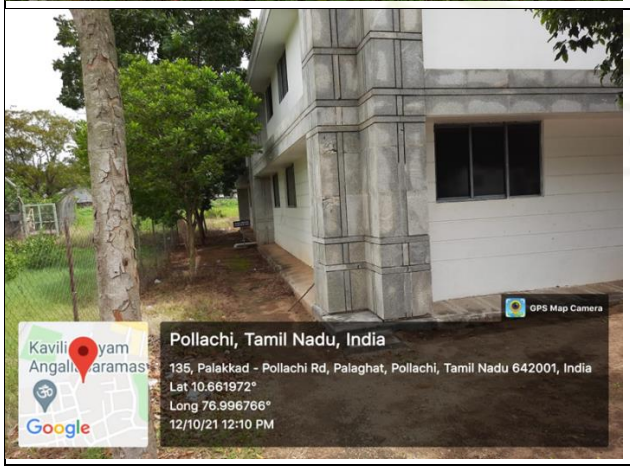
Waste water generation in the Hostel – 4.3 KL /day

For drinking water: Water Doctor system was installed

- Analysis of Drinking water and bore well water samples are done periodically
- The quality of Drinking water is within the norms.
- Microbial test for Drinking water is carried out on periodical manner.

Rainwater Harvesting

At Nallamuthu Gounder Mahalingam College, rainwater harvesting is done effectively to enhance the ground water level. The institution has rainwater harvesting pits at various locations and they are being maintained properly. The water drained during the rainy season is allowed to flow into the pits constructed in various places inside the campus including the Hostel Premises.

	Rainwater harvest area covered in the college -45,799 sqft
	Rainwater harvest area covered in the hostel- 16,276 Sqft
	

In addition, all the rainwater from open floor area are collected through Rainwater collection channel and directed to open well

Excellent collection system for effective utilisation of rainwater

Water Conservation initiatives

- Periodical preventive maintenance are carried out to avoid leakages

b) Energy

Non Renewable Energy

ELECTRICAL ENERGY CONSUMPTION IN THE COLLEGE AND HOSTEL

SL.NO	PLACE	UNITS CONSUMED
1	COLLEGE	264949
2	HOSTEL	28530
	TOTAL	293479

Diesel Generator Electrical Energy Consumption: 14,850 units

Total electrical energy consumption

SL.NO	SOURCE	UNITS CONSUMED
1	TNEB	293479
2	DIESEL GENERATOR	7596
	Total	301075

Total Electrical Energy consumption from TNEB grid and DG in the College and Hostel 3,01,075 units

LPG

LPG gas is used in the hostel for cooking and used in the college lab for heating

LPG cylinders used- commercial cylinders of 19 kgs capacity

- LPG consumption in the hostel mess during the year 2021-2022- 200 cylinders
- LPG consumption in the college during the year 2021-2022- 2 cylinder.
- Total LPG consumption during the year 2021-2022- 3838 KGs (202 Cylinders)

DIESEL CONSUMPTION FOR TRANSPORT-Nil

College is not running buses for transport

Renewable Energy

Solar Electrical Energy

- 90KW On Grid Roof Top Solar Power Plant
- Solar Power Generation from power plant-7583 units
- Solar Street Lights -5 Nos
- Power of LED lamp-20watts
- Solar Power generation from Solar street lights-438 units
- Total Solar power generation - 8021 units

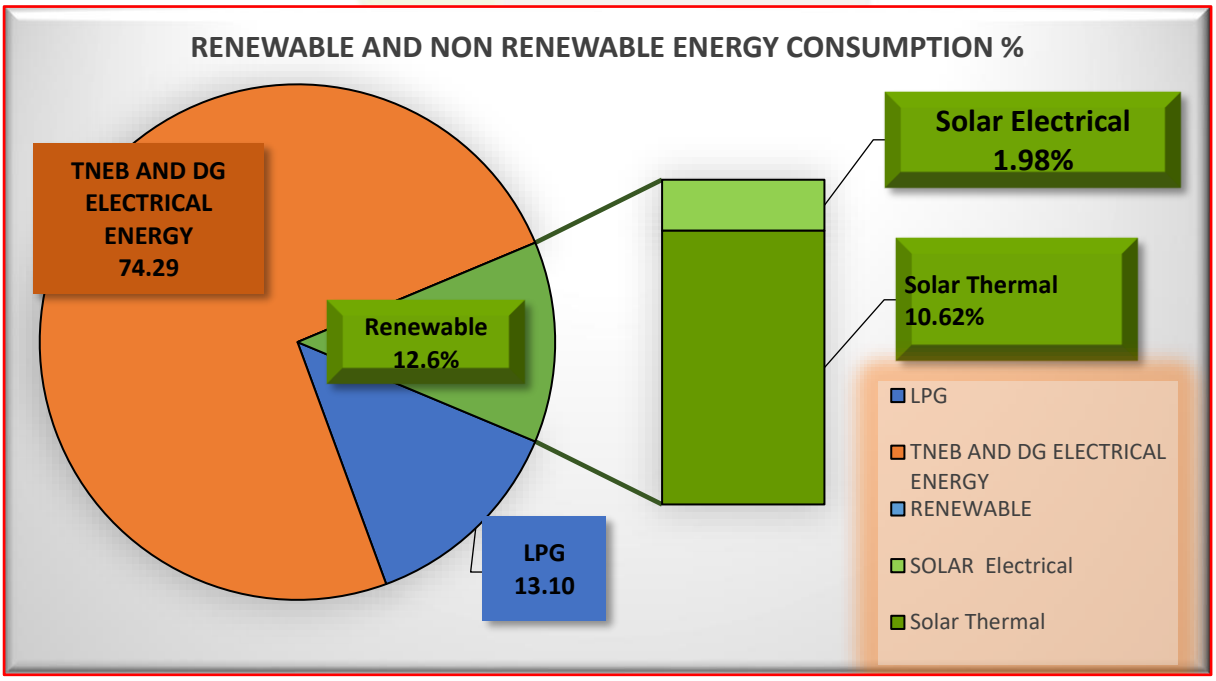
Solar Water Heater

Total capacity of Solar Water Heaters-4100 Litters Per Day

TOTAL ENERGY CONSUMPTION

Renewable and Non-Renewable(conventional) energy distribution

ENERGY CONSUMPTION	PERCENTAGE
NON RENEWABLE	
LPG	13.10
TNEB AND DG ELECTRICAL ENERGY	74.29
RENEWABLE	
SOLAR Electrical	1.98
Solar Thermal	10.62



The energy conservation measures followed

- High volume Low Speed fans are provided in the auditorium
- Maximum utilisation of day lights at auditorium, hostel and colleges
- Staff and Students are made aware of using public transport system
- Individual vehicle usage is reduced to the minimum level
- Periodical maintenance and overhauling of generators is being carried out
- The fans, lights, air-conditioners and other electronic and electrical equipments are switched off when not in use.
- Lights and fans are switched off by the students whenever they are out of hostel rooms
- Replacing conventional electrical light fittings with energy efficient Light-Emitting Diode (LED) bulbs.
- Replacing old high energy consuming appliances with star rated energy efficient appliances.
- Computers are switched to sleep mode or hibernate mode automatically when not in use.
- At the end of every practical session, Computer monitors and UPS are switched off.
- Soft copies are maintained instead of hard copies, to reduce power consumption and paper.

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b) WASTE

Quantity of waste generated:-
Liquid Waste Generation

Waste water generation in the College - 30 KL /day
Waste water generation in the Hostel - 4.3 KL /day

Solid Waste Generation

College

- Biodegradable-–<1kg/day

Office

- Non-biodegradable –< 0.1kg/day

College Canteen

- Biodegradable –< 1 kg/day
- Non-biodegradable –<0.5kg/day
- Aluminium foil -–<0.1kg/day

Hostel

- Biodegradable (Food waste) - 10-15 kg/day
- Non-biodegradable – <0.5kg/day

Open area

- Biodegradable (Dry leaves)- 5-10 Kgs/Day

Plastic waste

- **Less than 75 grams. per day**

e-Waste

- **Less than 200 kgs/year**

Waste Management
Liquid waste Management

- Grey water from kitchen is used for gardening
- Sewage water from boys' hostel is collected separately and treated in the waste water treatment plant and treated clear water is used for gardening

Bio-degradable waste management

- Bio-Degradable and non-biodegradable waste are collected in separate bins provided.
- Dry leaves are collected separately, dumped in the pits and converted into Bio fertilizer
- Every Year around 1000 Kgs Bio composts is produced

Plastic Waste Management

The college has been declared as a 'Plastic Free' zone.

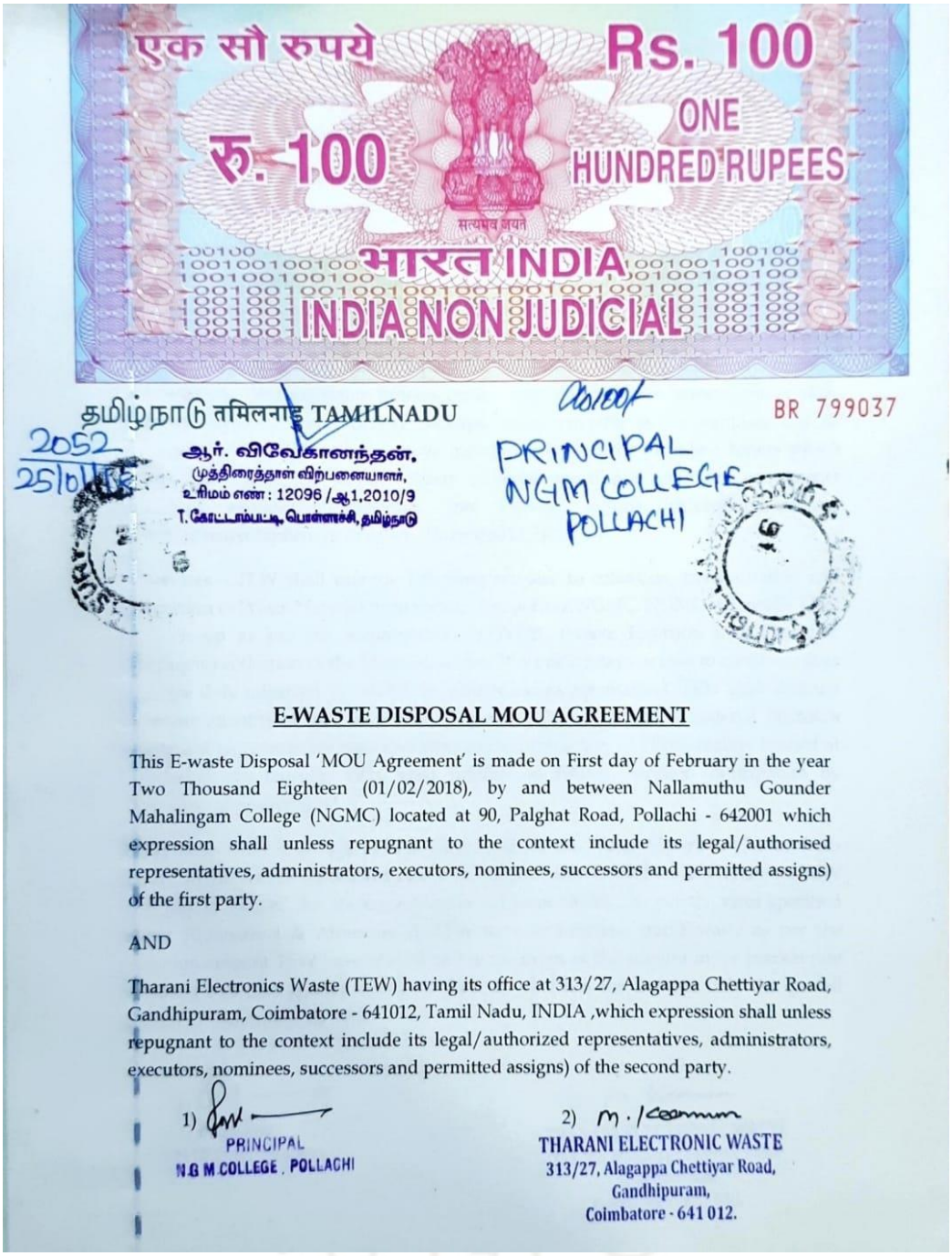
- Use of polythene bags, plastic cubs and laminated papers are prohibited.
- Students and staff are advised to bring cloth bags
- All the stake holders are motivated to use stainless steel water bottles and lunch boxes.
- Plastic utensils in the stores, canteen and hostel kitchen are replaced with stainless steel plates, tumblers etc
- Plastic waste that comes in through lab equipment's package, empty chemical containers etc. are collected separately and disposed periodically for recycling.

Used Battery Management

- Used batteries are disposed through Buy back method

e-Waste Management

- All electronic machineries are purchased under Buy-Back agreement for proper disposal of e waste to recycler
- MOU signed with Tharani Electronics Waste, Coimbatore for proper disposal of E waste



एक सौ रुपये Rs. 100
रु. 100 ONE HUNDRED RUPEES
सत्यमेव जयते
भारत INDIA
INDIA NON JUDICIAL
தமிழ்நாடு तमिलनाडु TAMILNADU
BR 799037
ஆர். விவேகானந்தன்,
முத்திரைத்தாள் விற்பனையாளர்,
உரிமம் எண்: 12096 /ஆ1,2010/9
T. கோட்டாம்பட்டி, பொள்ளாச்சி, தமிழ்நாடு
PRINCIPAL
NGM COLLEGE
POLLACHI

E-WASTE DISPOSAL MOU AGREEMENT

This E-waste Disposal 'MOU Agreement' is made on First day of February in the year Two Thousand Eighteen (01/02/2018), by and between Nallamuthu Gounder Mahalingam College (NGMC) located at 90, Palghat Road, Pollachi - 642001 which expression shall unless repugnant to the context include its legal/authorised representatives, administrators, executors, nominees, successors and permitted assigns) of the first party.

AND

Tharani Electronics Waste (TEW) having its office at 313/27, Alagappa Chettiyar Road, Gandhipuram, Coimbatore - 641012, Tamil Nadu, INDIA ,which expression shall unless repugnant to the context include its legal/authorized representatives, administrators, executors, nominees, successors and permitted assigns) of the second party.

1) PRINCIPAL
N.G.M.COLLEGE, POLLACHI

2) THARANI ELECTRONIC WASTE
313/27, Alagappa Chettiyar Road,
Gandhipuram,
Coimbatore - 641 012.

Other Solid Waste Management

- Solid wastes generated from damaged furniture are sent to waste wood collection centre. Useful furniture and other wooden materials are made from the waste
- Glass wastes are disposed periodically through municipal waste collection system.

Waste Reduction

- Students are instructed not to waste paper while writing examinations.
- Reusing one side paper
- Where ever possible, printing on both sides of papers
- In order to reduce the use of paper the following initiative were taken by E - Governance
    - Attendance
    - Payment of fees
    - Submission of e-assignment through email
    - Digitalisation of Staff profiles and details about students
    - E – Circular through SMS, WhatsApp or Email
  - Online Admission Process – Printing of applications reduced & submission of applications through admission portal.
  - All inter department communications are through intranet
  - Online exams are conducted to reduce the paper usage.

Waste Recycling

Recyclable papers are collected and kept and disposed as mixed waste to paper mills through authorized Vendors.

- The answer scripts after the publication of results are sent for recycling.
- e wastes are collected and sent to authorised recycler.

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d) Green Campus

Nallamuthu Gounder Mahalingam College, Pollachi being located in the regime surrounded by agriculture-based villages, naturally the institute is overwhelmed with the atmosphere of greenery. The Institution too does ever take meticulous efforts to maintain and retain the Nature given atmosphere with planting of new saplings The campus is lush green with gardens, lawns and plants wherever there is open space

- The eco-friendly ambience of the campus is a noteworthy feature of Nallamuthu Gounder Mahalingam College
- Green belt is developed in all possible open area are being converted into greenery
- The Green Society is maintaining a medicinal garden plant which is spread over 450 sqft area. Around 40 numbers of medicinal plants are there inside the campus
- Special initiatives are taken by the Green Society and new saplings are planted every year. Altogether, there are 961 plants in the campus.
- The list of trees and the arrival of new saplings are recorded every year.

Routine Green Practices

- Every year, new tree saplings are planted inside the college campus.
- The Green campus drive is an initiative of the College to protect the environment.
- The Green Society of the college take special care to keep the campus neat and green.
- Environmental awareness programs are conducted regularly to spread the message of environment preservation.

Awareness programs

- Drawing competition on Nature and Life

- Rally on international day for action for rivers

- World Meteorological Day

GREEN BELT DEVELOPMENT

GREEN BELT DEVELOPMENT

List of trees, shrubs and herbs in NGMC

	List of plants
1	*Abrus precatorious Linn. Herb*
2	*Abutilon indicumL. Sweet. shrub*
3	*Acacia meamsii tree*
4	*Acalypha chamaedrifolia (Lam.)MullArg. herb*
5	*Acalypha indica Linn.herb*
6	*Acalypha wilkesianaMuell.Arg.herb*
7	*Acanthospermum hispidum D.C. herb*
8	*Achras sapota Linn.tree*
9	*Achyranthes aspera Linn.herb*
10	*Aegle marmelosL.Corr.tree*
11	*Aerva javanica Pers. herb*
12	*Aerva lanataJuss.herb*
13	*Agave foetida(L.) Haw.* herb
14	*Albizia lebbeck (L)Benth.tree*
15	*Albizia amara (*Roxb.) B.Boivin Tree
16	*Alkamanda catharticaLinn.shruby climber*
17	*Aloe vera (L.) Burm.f. herb*
18	*Alstonia scholaris L. R.Br.tree*
19	*Alternanthera pungensKunth.herb*
20	*Alternanthera bettzickiana (Regel) G.Nicholsonherb*
21	*Alternanthera sessilis(L.) R. B rherb.*
22	*Amarantusblitum Linn. herb*
23	*Amaryllis carnea linn herb*
24	*Andrographispaniculata Nees herb*
25	*Annona squamosaLinn.tree*
26	*Araucaria heterophylla (Salisb) Franco.tree*
27	*Aristolochia bracteolate Lam. Her*
28	*Artocarpus heterophyllus Lam.tree*
29	*Asperagusracemosus Willd.* herb
30	*Asystasiagangetica(L.) T.Anderson* herb
31	*Axonopus compressus (SW) P.Beauv.* herb
32	*Azadiracta indicaA.Juss.* Tree
33	*Bambusa vulgaris* Schrad. tree
34	*Barleria cristata Linn.* Herb
35	*Bauhinia purpurea Linn.* Shrub
36	*Bauhinia recemosaLam.* shrub
37	*Boerhaevia diffusaLinn.* herb
38	*Boerhaavia erecta Linn.* Herb
39	*Bougainvillea spectabilis Willd* shrub.
40	*Brachiaria semiundulata (Hochst. ex A.Rich.) Stapf* herb
41	*Cajanus scarabaeoides (L.) Thouars* herb
42	*Calotropis gigantea R. Br.* shrub
43	*Canna indica* Linn herb
44	*Cardiospermum halicacabum Linn.herb*

45	*Carica papaya Linn.tree*
46	*Cassia fistula Linn. Tree*
47	*Cassia occidentalis Linn shrub.*
48	*Celosia argenteaLinn.herb*
49	*Celosia cristataLinn.herb*
50	*Centella asiatica (Linn.)Urb. Herb*
51	*Chromolaena odorata* (L.) King & H.E. Robins. herb
52	*Cissus quadrangularis* Linn.herb
53	*Citrus aurantifolia* (Christm.) Swingle shrub
54	*Citharexylum spinosum* L.
55	*Cleome viscosa Linn. Herb*
56	*Clitoria ternatea Linn. Herb*
57	*Coccinea grandis (L.) Voigt herb.*
58	*Cocos nucifera Linn.tree*
59	*Commelina benghalensis Linn.*
60	*Commelina diffusaBurm.f. herb*
61	*Corchorus olitoriusLinn.herb*
62	*Corchorus urticifolius Wight & Arn. Herb*
63	*Corchorus trilocularis L.herb*
64	*Corchorus tridens L.herb*
65	*Crateva roxburghiiR.Br.tree*
66	*Crinum viviparum(Lam.) R.Ansari&V.J.Nair herb*
67	*Crossandra infundibuliformis* (L.) Nees herb
68	*Crotalaria retusa Linn. Herb*
69	*Crotalaria verrucosaLinn.herb*
70	*Croton bonplandianusBaillon herb.*
71	*Cuscuta reflexaRoxb. Herb (parasitic)*
72	*Cycas circinalis Linn. Tree-Gymnosperm*
73	*Cycas revoluta Linn. Tree*
74	*Cymbopogon caesius(Hook. &Arn.) Stapf herb-grass*
75	*Cynodon dactylon(L.) Pers. Herb -grass*
76	*Cyperus rotundus Linn. Herb- grass*
77	*Cyperus iria Linn. Herb-grass*
78	*Dactyloctenium aegyptium (L.) P. Beauv.-herb-grass*
79	*Datura stramonium L.herb*
80	*Delonix regia (Hook.) Raf.tree.*
81	*Dendrophthoe falcata* (L.f.) Ettingsh shrub
82	*Dieffenbachia picta* Lodd. Herb
83	*Digitaria bicornis (Lam.) Roem. &Schult. herb*
84	*Dracaena marginata-coloroma Lam.tree monocot*
85	*Duranta repens Linn. shrub*
86	*Dypsislutescens, (H. Wendl.) Beentje& J. Drans tree*
87	Ehretia ovalifolia *Wight Tree*
88	*Echinochloacolona* (L.) Link. Herb grass
89	*Eleusineindica(L.) Gaertn. Herb grass*

90	*Erianthusrepens (Willd.) P. Beauv herb grass*
91	*Eucalyptus globulusLabill. tree*
92	*Euphorbia heteropiylla Linn. Herb*
93	*Euphorbia hirtaLinn.herb*
94	*Evolvulus alsinoidesLinn.herb*
95	*Ficus benghalensis Linn. Tree*
96	*Ficus benjamina Linn. Tree*
97	*Ficus religiosaLinn.tree*
98	*Filicium decipiens (Wt. &Arn.) Thw. Tree*
99	*Geissaspis cristata Wight &Arn.herb*
100	*Glinus lotoides Linn.herb*
101	*Gmelina arborea Roxb.Tree*
102	*Gomphrena globosaLinn.herb*
103	*Gomphrena serrata Linn.herb*
104	*Grangeamaderaspatana (L.) Poiret herb*
105	*Gynandropsis pentaphylla DC herb*
106	*Hamelia patens Jacq. shrub*
107	*Hedyotis umbellata (L.) Lam. Herb*
108	*Heliconia rostrata Ruiz &Pavon shrub*
109	*Heliotropiumindicum Linn. herb*
110	*Hibiscus rosa-sinensis Linn. Shrub*
111	*Hibiscus vitifolius Linn herb*
112	*Hyptis suaveolens (L.) Poitier herb*
113	*Indigofera linnaei Ali. Herb*
114	*Indigofera tinctoria Linn. Herb*
115	*Ipomea marginata (I.) R. Br. Climber*
116	*Ipomoea quamoclit Linn.climber*
117	*Ixora coccineaLinn.shrub*
118	*Jasminum sambac(L.) Aiton climbing shrub.*
119	*Jatropha gossypifolia Linn. Shrub*
120	*Justicia adathoda Linn. Shrub*
121	*Justicia betonicaLinn.herb*
122	*Kedrostis foetidissimaJacq.Cogn. herb*
123	*Khaya senegalensis (Desr.) A. Juss. Tree*
124	*Lactuca serriolaLinn. Herb*
125	*Lantana camaraLinn.shrub*
126	*Leucaena leucocephala (Lam.) de wit. Tree*
127	*Leucas aspera (Willd.) Link herb*
128	*Magnolia champaca(L.) Baill. Ex Pierre tree*
129	*Mangifera indica Linn.tree*
130	*Marsilea quadrifoliata Linn.herb*
131	*Millingtonia hortensisLinn.tree*
132	*Mimosa pudica Linn.herb*
133	*Mimusops elengi Linn.tree*
134	*Morinda tinctoriaRoxb.tree*
135	*Morus indicaGriff.shrub*
136	*Mukia maderaspatana Linn.*

137	*Murraya koenigii (L.) Sprengel shrub*
138	*Musa paradisiaca Linn. Tree*
139	*Nerium oleander Linn. shrub*
140	*Ocimum basilicum Linn. Herb*
141	*Ocimum canum Sims.herb*
142	*Ocimum tenuiflorumLinn.herb*
143	*Opuntia stricta* (Haw.) Haw. herb
144	Oplismenus compositus (L.) P.Beauv. Grass
145	*Oroxylum indicum (L.) Benth. ex Kurz shrub*
146	*Oxalis corniculata Linn.herb*
147	*Panicum colonum Linn. Herb=grass*
148	*Panicum maximum Jacq. Herb – grass*
149	*Parthenium hysterophorus Linn. Herb*
150	*Passiflora foetida Linn. Climber*
151	*Pavoniao dorataWilld herb*
152	*Peltophorum pterocarpum (DC.) K.Heyne tree*
153	*Pergularia daemia (Forssk.) Chiov climber*
154	*Perotis indica(L.) Kuntze herb - grass*
155	*Phleum pretense Linn. Herb grass*
156	*Phoenix canariensisChabaud. Tree*
157	*Phoenix dactyliferaLinn.tree*
158	*Phyllanthus amarusSchum.herb*
159	*Phyllanthus emblica Linn. Tree*
160	*Phyllanthus maderaspatensisLinn.herb*
161	*Phyllanthus acidus (L.) Skeels. tree*
162	*Physalis peruviana Linn. herb*
163	*Pisonia alba Span. tree*
164	*Pithecellobium dulce (Roxb.) Benth.tree*
165	*Plumeria rubraLinn.tree*
166	*Polyalthia longifolia Hook.f. &Thoms.tree*
167	*Pongamia pinnata* (L.) Pierre.tree
168	*PortulacaoleraceaLinn..herb*
169	*Priva cordifolia (L.f.) Druce herb*
170	*Psidium guajava Linn. Tree*
171	*Pterocarpus marsupium* Roxburgh.tree
172	*Pterocarpus santalinus* L. f. Tree
173	*Quisqualisindica Linn. Climber*
174	*Ricinus communis Linn. Shrub*
175	*Roystonea regia (Kunth) O.F.Cook tree*
176	*Russelia equisetiformisSchlecht. & Cham. Herb*
177	*Sansevieria roxburghiana* Schult. &Schult.f. herb
178	*Santalum album Linn.tree*
179	*Senna siamea (Lam.) H.S.Irwin&barneby tree*
180	*Sida cordifolia Linn. Herb*
181	*Sida rhombifoliaLinn.herb*
182	*Simarouba glaucaDc.tree*
183	*Solanum nigrumLinn.herb*

e) Carbon Footprint

Release of carbon dioxide into the atmosphere is contributes to the global warming and increasing the pace of climate change. More trees in the campus will make a source of sink for the carbon dioxide and for other greenhouse gases.

Average distance travelled from home to College and back to home by four wheelers=16KM		
Average distance travelled from home to College and back to home by two wheelers=12 KM		
Average Four Wheeler Fuel efficiency assumed = 20KM/ Lit		
Average Two Wheeler Fuel efficiency assumed = 60KM/ Lit		
No of cars used by both students and staff =17		
No of two wheelers used by both students and staff =693		
No of College working days during the year 2021-2022-180 days		
No of days Hostel was occupied with students in the year 2021-2022-252 days		
Fuel (Petrol)consumption by two wheelers = No of days * No of vehicles*12/60	12613	lits
Fuel (Petrol)consumption by four wheelers = No of days * No of vehicles*16/20	1237.6	Lits
Total quantity of petrol consumed by both two wheelers and four wheelers	13850	Lits
Diesel consumed by DG sets during the year 2021-2022	2532	Lits
Total Diesel consumption during the year 2021-2022	2532	lits
LPG consumption in the college	38	kgs
LPG consumption in hostel mess and canteen	3800	kgs
Total LPG consumption	3838	KGS
Total Power consumed in the COLLEGE and HOSTEL in the year 2021-2022	293479	units
GHG EMISSION		
Green House Gas emission due to petrol	32686.47	Kge CO2
Green House Gas emission due to diesel	6760.44	Kge CO2
Green House Gas emission due to LPG	11629.14	Kge CO2
Green House Gas emission due to Grid power	208370.09	Kge CO2
Total GHG emission per year	259446.14	Kge CO2
Total GHG emission per year	**259.45**	**t CO2 eq**
GHG Captured by tress		
Fully grown up trees inside the campus	961	trees
Greenhouse gas captured by trees	**20.18**	**t CO2 eq**
Net Green House Gas Emission per year	**239.27**	**t CO2 eq**
GHG AVOIDED due to usage of Renewable Energy		
Solar power generation from Solar power plant	7583.00	units
Solar power generation for street lights	438.00	units
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Greenhouse gas emission avoided due to solar power generation	6577.22	KGs
Greenhouse gas emission avoided due to solar power generation	6.58	t CO2 eq
Total Solar Water Heater installed	4100.00	LPD
Greenhouse gas emission avoided due to Solar Water Heater	30.57	t CO2 eq
Total GHG avoided by usage of Renewable Energy	**37.14**	**t CO2 eq**

4.2 Consolidation of Audit Findings

We hope that students would have developed a greater appreciation and understanding of the impact of their actions on the environment. They have successfully been able to determine the impacts on the environment through the various auditing exercises. Participating in this green auditing procedure they have gained knowledge about the need of sustainability of the college campus. It will create awareness on the use of the Earth's resources in their home, college, local community and beyond.

General

- Green Policy is stated and objectives are reflected very well in the functioning of the college and Hostel
- Gardens inside the college premises are found to be well maintained.
- Campus is declared plastic free and lot of initiatives and innovative actions are taken to maintain the green policy.

Water

Total water consumption -50 KL/day

- Water management & waste water management strategies are well maintained.

Water Conservation

- Water taps are converted into press type to reduce water wastage

Rain water Harvest system

Appreciable work has been carried out for harvesting the rainwater both from college buildings & hostel for charging the ground water level and usage.

Energy

Total electrical energy consumption from TNEB Grid-2,93,479 units

Installed 90KW On Grid Roof Top Solar Power plant
Lot of Energy saving activities are implemented

More number of conventional tube lights are replaced with LED lights

Waste to Wealth

- Waste papers are collected in a arranged manner and send for recycling
- Quantity of Bio compost generated- 1000 Kgs

Waste Recycle

- Paper wastes are collected in a proper manner and sent for recycling
- E - wastes are collected and kept separately to send to authorised recycler
- Plastic wastes generated from packing materials are collected separately and disposed properly to recycler-

Green Campus

- Tree cover of the college with respect to the stakeholder strength is excellent
- Regular planting of trees inside campus are to be continued
- Usage of water for gardens are to be measured

Carbon Foot Print

- Yearly Greenhouse gas emission is around 259.45 t CO_2

ALGEO

4.3 Preparation of Action Plan

Policies referring to college's management and approach towards the use of resources need to be considered. The college green policy/environmental policy for its sustainable development to be monitored consciously.

4.4 Follow-up Action and Plans

Green Audits are exercises which generate considerable quantities of valuable management information. The time, effort and cost involved in this exercise is often considerable and in order to be able to justify this expenditure, it is important to ensure that the findings and recommendations of the audit are considered at the correct level within the organisation and that action plans and implementation programs result from the findings. Audit follow up is part of the wider process of continuous improvement.

4.5 Environmental Education

The following environmental education program may be implemented in the college before the next green auditing:-

- Training programs in Energy, Water & Waste management , Solids and e-Waste Management, Carbon footprint concepts, Awareness on Global warming, Net Zero Emission
- Increase the number of display boards on environmental awareness such as no wastage of food/water, switch off light and fan after use, plastic free campus etc.

Awareness on Carbon Consumption

- Students and Staff members are made totally aware of pollution caused by use of vehicles.
- The carbon consumption awareness programs on carbon emission at individual as well as social level will help to avoid air and noise pollution due to vehicles.

4.6 Recommendations

Common Recommendations

Targets shall be fixed to achieve Net Zero Emission

Criteria Wise Recommendations

Water

- Water consumption monitoring system has to be implemented in the college campus and hostel
- More awareness programs on water conservation to be conducted.

Energy

- Remaining old Tube lights shall be replaced with LED tube lights.
- Automatic power switch off systems may be introduced in the required lighting locations and high power consuming electrical equipments.
- Conduct more awareness programs on importance of energy saving for students and staff

Waste

- Conduct exhibition of recyclable waste products
- Target for reduction in waste generation shall be planned
- Conversion of Used Cooking Oil into Bio diesel shall be given as project to students

Green Campus

- Keep continuously encouraging students for making the campus green
- Roof garden for main building shall be planned in future

Carbon footprint

- Fix a target to reduce Green House Gas emission for next Ten years

NALLAMUTHU GOUNDER MAHALINGAM COLLEGE

(Autonomous Institutions -Affiliated to Bharathiar University)

ISO 9001:2015 Certified and Re-Accredited with B Grade by NAAC

POLLACHI – 642 001

ENVIRONMENTAL AUDIT
2021 - 2022

AUDIT/REPORT BY

ALCHEME GREEN ENERGY COMPANY
73977 64900
99948 45487
info@alchemegreenenergy.com

ACKNOWLEDGEMENT

We at Alcheme Green Energy Company, Madurai are thankful to the principal for giving us the opportunity to carry out Environmental audit at Nallamuthu Gounder Mahalingam College, Pollachi -642 001. Alcheme Green Energy Company team is also thankful to all other supporting Officers / Staffs of the above institute for their wholehearted support, hospitality and the courtesy extended to the Audit team during the course of the visit.

The following officers from Alcheme Green Energy Company under the guidance of Mr. C. Jebaraj, B.Tech., have carried out the Environmental Audit.

Name	Qualifications	Certification Number
Mr. C. Jebaraj	B.Tech., PDGEM., DIS., BEE Certificated Energy Auditor, IRCA Certified Lead Auditor - OHSMS Internal Auditor-QMS CII Certified Carbon footprint Professional	EA-9847
Mr. S. Lakhsmana Kumaran	B.Tech., MSc.,(Env. Science), MBA., IRCA Certified Lead Auditor ISO 14001 EMS	UID - 351851

The following staff from the Institution were participated in the audit process

Name	Qualification	Designation
Dr. R. Muthukumaran	M.A., M.Phil., B.Ed., Ph.D.,	Principal
Dr. R. Manicka Chezhian	M.Sc., M.S., Ph.D.,	IQAC Co-Ordinator
Thiru. K. Srinivasan	M.C.A	Associate Professor Department of Computer Science ERP Co-Ordinator
Dr. A. Srividhya	M.A., M.Phil., Ph.D.,	Assistant Professor Department of English
Dr. P. Archanaa	M.Com., M.Phil., PGDCA., Ph.D., M.A[HINDI]	Assistant Professor PG Department of Commerce with Computer Applications
Dr. A. Kanakaraj	MCA., M.Sc., M.Phil., Ph.D., DIR	Assistant Professor PG Department of Computer Science

Index

Sl. No.	Contents	Page No
	Summary of Environmental Audit	4
1.	Introduction	6
1.1	Environmental Policy	6
2.	Water	7
2.1	Water usage at college	7
2.2	Water usage at hostel	8
3.	Electrical Energy	9
3.1	TNEB Grid Electrical Energy	9
3.2	Diesel Generator Electrical Energy	9
4.	Fuel Consumption	9
4.1	LPG	9
5.	Waste Generations and Management	10
5.1	Liquid and Solid Waste Generation	10
5.2	Waste Management	10
5.2.1	Liquid Waste Management	10
5.2 .2	Bio degradable Waste Management	11
5.2.3	Plastic Waste Management	11
5.2.4	Used Battery Management	11
5.2.5	e-Waste Management	11
5.2.6	Other solid waste management	13
6.	Pollution abatement measures	13
6.1	Waste Reduction	13
6.2	Waste Recycling	13
6.3	Waste Reuse	14
6.4	Waste to wealth	14
6.5	Water Conservation	14
6.6	Energy Conservation	14
7.	Greenbelt Development	15
8.	Rainwater Harvesting	17
9	Ambient Air	18
9.1	Greenhouse Gas Emission	18
9.2	Ambient Air Quality	19
9.3.	Noise Level	20
10.	Recommendations	21

Summary of Environment Audit

Environment audit of Nallamuthu Gounder Mahalingam College and its Hostel was carried by Alcheme Green Energy Company. Audit team has gone through the data related to Water and Electrical Energy, Waste generation, Waste Management, Waste Recycling and Reuse, Green Belt Development of the Institution both inside and outside the campus. The team also carried out the study of Pollution abatement measures, Rainwater harvesting, Water and Energy Conservation measures taken to reduce the pollution, noise level, green house emission and maintain Ambient Air quality

During the visit it is observed that cleanliness in the campus is well maintained through proper disposal of wastes, utilization of eco-friendly supplies and effective recycling program. The concept of eco-friendly culture is disseminated among the students through various seminars/workshops and community-oriented programs. The Institution strictly follows reduce, reuse and recycle method to limit energy usage and partially replace non-renewable energy sources with renewable energy resources.
The environment audit report is a very powerful and valuable communications tool to use while working with various stakeholders who need to be convinced that systems and procedures in place are suited to cope with natural changes and modifications.

It is hoped that the results presented in the environment audit report will serve as a guide for educating the college community on the existing environment related practices and resource usage at the college as well as spawn new activities and innovative practices.

The audit outputs and recommendations are summarised as follows:

Noteworthy activities

- Installation of 90KW Solar Power plant
- MOU with Tharani Electronics Waste, Coimbatore for proper disposal of E waste
- Clean, Green and plastic free campus
- Rainwater Collection arrangement to open well
- Sewage treatment plant at Boy's Hostel
- Solar Water Heater system at Hostels and utilisation hot water at Hostel Kitchen

The audit outputs and recommendations are summarised as follows:

- Air pollution impact on Ambient Air quality is negligible since the quantity of fuel used for combustion in the institution is very less
- Noise levels inside the campus are within the prescribed limit.
- Lot of initiatives are taken to conserve Water and Energy by the Institution.
- Total water consumption for Nallamuthu Gounder Mahalingam College and Hostel –50 KL/Day
- Electrical Energy consumption from TNEB GRID alone –2,93,479 units
- Green House Gas Emission is 259.45 t CO_2e Total GHG emission
- Green House gas reduction due to grown up trees is 20.18 t CO_2 e
- Net Green House Gas emission is 239.27 t CO_2 e

We are happy to submit this detailed Environmental audit report to the Nallamuthu Gounder Mahalingam College

For Alcheme Green Energy Company

Madurai

1. Introduction

1.1Environmental Policy

Nallamuthu Gounder Mahalingam College has well formulated Environmental Policy to guide all its activities.

The main objectives are as follows:

- To promote green growth, create green jobs and maintain green infrastructure
- To execute “Reduce, Reuse, Recycle and Re- earth “towards waste management, environmental protection and sustainable future
- To reduce potable water consumption
- To create environmental awareness among all the stakeholders of the institution
- To assess and regulate environmental practices of the institution periodically

The Institution vouchsafes:

- Its commitment to sustainability and environmental management
- It reiterates the stand that managing environmental issues is a high priority for the College
- Its commitment to prevent pollution and to continuously improve upon environmental protection.
- A commitment to create environmental awareness

2. WATER

2.1 Water Usage at Nallamuthu Gounder Mahalingam College

Total number of students studied during the academic year 2021-2022: 5090

Teaching & non-Teaching staff in the institution during the academic year 2021-2022:258

Total number of stake holders: 5348

Water for college and hostel

Municipal water-34,000 litres/day

Borewell water- 16,000 litres/day

Total water usage -50, 000 litres/day

Main water uses in the College campus are Drinking, Rest room, Canteen and Lab

Water usage in the College- 41 KL / Day

Water usage per day per stakeholder in the college – 7.66 litres

Water usage at college

Sl. No	Place	Water usage Quantity Litres / Day
1	Drinking	5000
2	Rest room	25,000
3	Canteen	4000
4	Lab	1000
5	Garden	6000
	Total	**41,000**

Waste water generation in the college – 30 KL/day

2.2 Water usage at Hostel

Number of students and staff residing in the hostel in the year 2021-2022: 91

Main water uses in the Hostel are Drinking, Washing of clothes, Cooking & Vessel cleaning and for Rest room

Water usage at Hostel - 9 KL / Day

Water consumption per day per stakeholder in the hostel – 98.9 litres

Water usage at Hostel

Sl. No	Place	Water usage Quantity Litres / Day
1	Drinking	200
2	Cooking	400
3	Rest room	900
4	Bathing	1300
5	Clothes washing	1300
6	Vessel Cleaning	400
7	Garden	4,500
	Total	9,000

Waste water generation in the Hostel – 4.3 KL /day

3. Electrical Energy

3.1 TNEB Grid Electrical Energy Consumption: 2021-2022

ELECTRICAL ENERGY CONSUMPTION IN THE COLLEGE AND HOSTEL

SL.NO	PLACE	UNITS CONSUMED
1	COLLEGE	264949
2	HOSTEL	28530
	TOTAL	293479

3.2 Diesel Generator Electrical Energy Consumption: 14,850 units

Total electrical energy consumption

SL.NO	SOURCE	UNITS CONSUMED
1	TNEB	293479
2	DIESEL GENERATOR	7596
	Total	301075

Total Electrical Energy consumption from TNEB grid and DG in the College and Hostel 3,01,075 units

Electrical Energy consumption per stakeholder per year – 56.3 units/year

4. FUEL CONSUMPTION

4.1 LPG

LPG gas is used in the hostel for cooking and used in the college lab for heating

LPG cylinders used- commercial cylinders of 19 kgs capacity

- LPG consumption in the hostel mess during the year 2021-2022- 200 cylinders
- LPG consumption in the college during the year 2021-2022- 2 cylinder.
- Total LPG consumption during the year 2021-2022- 3838 KGs (202 Cylinders)

5. Waste Generations and Management

5.1 Liquid and Solid Waste Generation

Waste water generation in the College - 30 KL /day
Waste water generation in the Hostel - 4.3 KL /day

College

- Biodegradable-–<1kg/day

Office

- Non-biodegradable –< 0.1kg/day

College Canteen

- Biodegradable –< 1 kg/day
- Non-biodegradable –<0.5kg/day
- Aluminium foil -–<0.1kg/day

Hostel

- Biodegradable (Food waste) - 10-15 kg/day
- Non-biodegradable – <0.5kg/day

Open area

- Biodegradable (Dry leaves)- 5-10 Kgs/Day

Plastic waste

- **Less than 75 grams. per day**

e-Waste

- **Less than 200 kgs/year**

5.2 Waste Management

5.2.1 Liquid waste Management

- Grey water from kitchen is used for gardening
- Sewage water from boys' hostel is collected separately and treated in the waste water treatment plant and treated clear water is used for gardening

5.2.2 Bio-degradable waste management

- Bio-Degradable and non-biodegradable waste are collected in separate bins provided.
- Dry leaves are collected separately, dumped in the pits and converted into Bio fertilizer
- Every Year around 1000 Kgs Bio composts is produced

5.2.3 Plastic Waste Management

The college has been declared as a 'Plastic Free' zone.

- Use of polythene bags, plastic cubs and laminated papers are prohibited.
- Students and staff are advised to bring cloth bags
- All the stake holders are motivated to use stainless steel water bottles and lunch boxes.
- Plastic utensils in the stores, canteen and hostel kitchen are replaced with stainless steel plates, tumblers etc
- Plastic waste that comes in through lab equipment's package, empty chemical containers etc. are collected separately and disposed periodically for recycling.

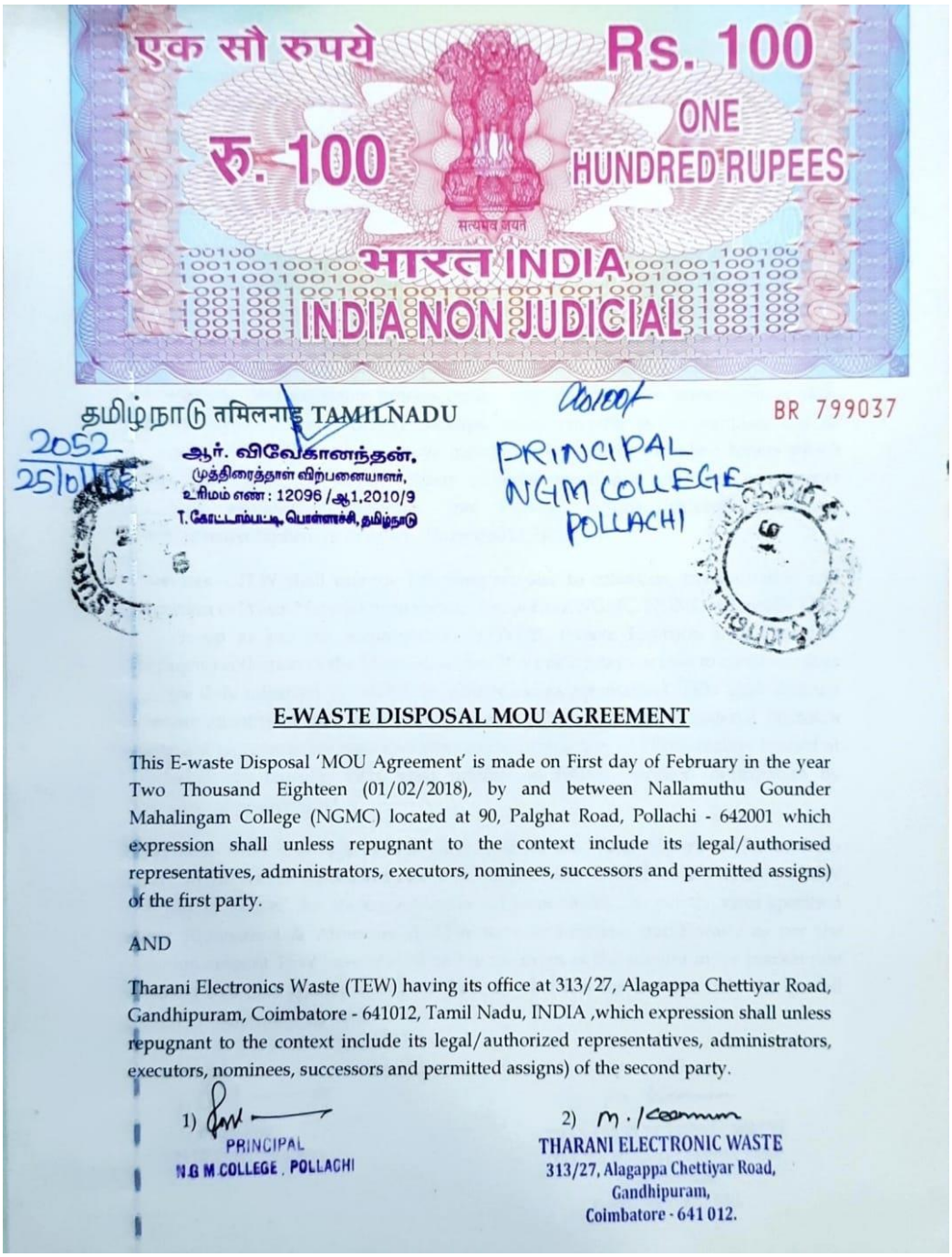
5.2.4 Used Battery Management

- Used batteries are disposed through Buy back method

5.2.5 e-Waste Management

- All electronic machineries are purchased under Buy-Back agreement for proper disposal of e waste to recycler

- MOU signed with Tharani Electronics Waste, Coimbatore for proper disposal of E waste



एक सौ रुपये Rs. 100

रु. 100 ONE HUNDRED RUPEES

सत्यमेव जयते

भारत INDIA

INDIA NON JUDICIAL

தமிழ்நாடு तमिलनाडु TAMILNADU

BR 799037

ஆர். விவேகானந்தன்.
முத்திரைத்தாள் விற்பனையாளர்,
உரிமம் எண் : 12096 /ஆ1,2010/9
T. கோட்டாம்பட்டி, பொள்ளாச்சி, தமிழ்நாடு

PRINCIPAL
NGM COLLEGE
POLLACHI

E-WASTE DISPOSAL MOU AGREEMENT

This E-waste Disposal 'MOU Agreement' is made on First day of February in the year Two Thousand Eighteen (01/02/2018), by and between Nallamuthu Gounder Mahalingam College (NGMC) located at 90, Palghat Road, Pollachi - 642001 which expression shall unless repugnant to the context include its legal/authorised representatives, administrators, executors, nominees, successors and permitted assigns) of the first party.

AND

Tharani Electronics Waste (TEW) having its office at 313/27, Alagappa Chettiyar Road, Gandhipuram, Coimbatore - 641012, Tamil Nadu, INDIA ,which expression shall unless repugnant to the context include its legal/authorized representatives, administrators, executors, nominees, successors and permitted assigns) of the second party.

1) PRINCIPAL
N.G.M.COLLEGE, POLLACHI

2) THARANI ELECTRONIC WASTE
313/27, Alagappa Chettiyar Road,
Gandhipuram,
Coimbatore - 641 012.

5.2.6 Other Solid Waste Management

- Solid wastes generated from damaged furniture are sent to waste wood collection centre. Useful furniture and other wooden materials are made from the waste
- Glass wastes are disposed periodically through municipal waste collection system.

6. Pollution abatement measures

6.1 Waste Reduction

- ❖ Students are instructed not to waste paper while writing examinations.
- ❖ Reusing one side paper
- ❖ Where ever possible, printing on both sides of papers
- ❖ In order to reduce the use of paper the following initiative were taken by E - Governance
    - Attendance
    - Payment of fees
    - Submission of e-assignment through email
    - Digitalisation of Staff profiles and details about students
    - E – Circular through SMS, WhatsApp or Email
- Online Admission Process – Printing of applications reduced & submission of applications through admission portal.
- All inter department communications are through intranet
- Online exams are conducted to reduce the paper usage.

6.2 Waste Recycling

Recyclable papers are collected and kept and disposed as mixed waste to paper mills through authorized Vendors.

- The answer scripts after the publication of results are sent for recycling.
- e wastes are collected and sent to authorised recycler.

6.3 Waste Reuse

- Reuse one sided paper
- Reuse Envelopes

6.4 Waste to wealth

- Dry leaves are converted into bio fertilizer

6.5 Water Conservation initiatives

- Water taps are changed to push type to reduce the wastage of water
- Periodical preventive maintenance is carried out to avoid leakages

6.6 Energy conservation activities followed

- High volume Low Speed fans are provided in the auditorium
- Maximum utilisation of day lights at auditorium, hostel and colleges
- Staff and Students are made aware of using public transport system
- Individual vehicle usage is reduced to the minimum level
- Periodical maintenance and overhauling of generators are being carried out
- The fans, lights, air-conditioners and other electronic and electrical equipments are switched off when not in use.
- Lights and fans are switched off by the students whenever they are out of hostel rooms
- Replacing conventional electrical light fittings with energy efficient Light-Emitting Diode (LED) bulbs.
- Replacing old high energy consuming appliances with star rated energy efficient appliances.
- Computers are switched to sleep mode or hibernate mode automatically when not in use.
- At the end of every practical session, Computer monitors and UPS are switched off.
- Soft copies are maintained instead of hard copies, to reduce power consumption and paper.

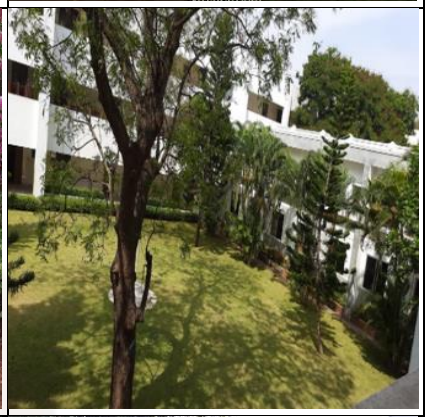
7. Greenbelt Development

Nallamuthu Gounder Mahalingam College, Pollachi being located in the regime surrounded by agriculture-based villages, naturally the institute is overwhelmed with the atmosphere of greenery. The Institution too does ever take meticulous efforts to maintain and retain the Nature given atmosphere with planting of new saplings The campus is lush green with gardens, lawns and plants wherever there is open space

- The eco-friendly ambience of the campus is a noteworthy feature of Nallamuthu Gounder Mahalingam College
- Green belt is developed in all possible open area are being converted into greenery
- The Green Society is maintaining a medicinal garden plant which is spread over 450 sqft area. Around 40 numbers of medicinal plants are there inside the campus
- Special initiatives are taken by the Green Society and new saplings are planted every year. Altogether, there are 961 plants in the campus.
- The list of trees and the arrival of new saplings are recorded every year.

Routine Green Practices

- Every year, new tree saplings are planted inside the college campus.
- The Green campus drive is an initiative of the College to protect the environment.
- The Green Society of the college take special care to keep the campus neat and green.
- Environmental awareness programs are conducted regularly to spread the message of environment preservation.



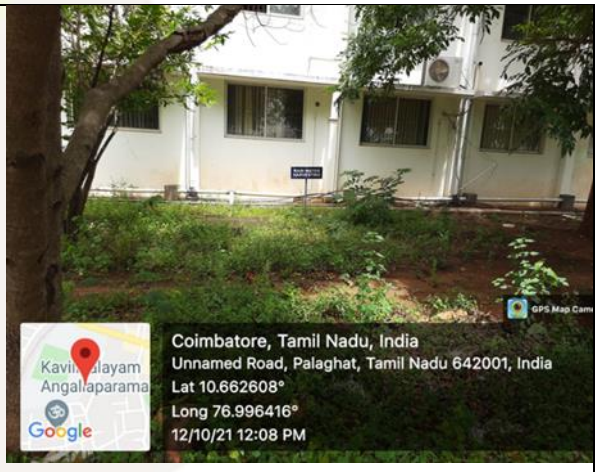
GREEN BELT DEVELOPMENT

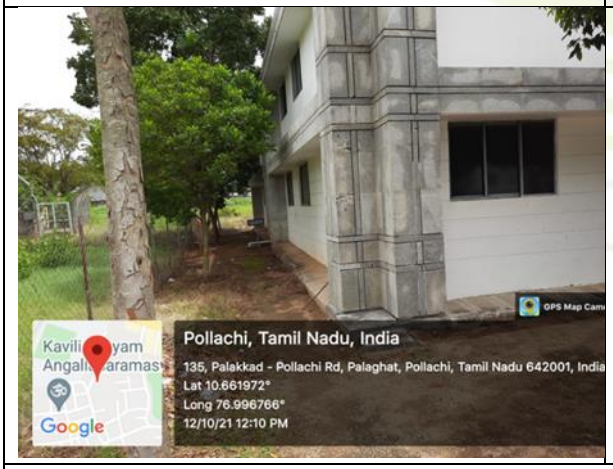
8.Rainwater Harvesting

At Nallamuthu Gounder Mahalingam College, rainwater harvesting is done effectively to enhance the ground water level. The institution has rainwater harvesting pits at various locations and they are being maintained properly. The water drained during the rainy season is allowed to flow into the pits constructed in various places inside the campus including the Hostel Premises.

Rainwater harvest area covered in the college -45,799 sqft
Rainwater harvest area covered in the hostel- 16,276 Sqft

In addition, all the rainwater from open floor area is collected through Rainwater collection channel and directed to open well





Excellent collection system for effective utilisation of rainwater

9. AMBIENT AIR

9.1 Green House Gas Emission

Release of carbon dioxide into the atmosphere is contributes to the global warming and increasing the pace of climate change. More trees in the campus will make a source of sink for the carbon dioxide and for other greenhouse gases

Average distance travelled from home to College and back to home by four wheelers=16KM		
Average distance travelled from home to College and back to home by two wheelers=12 KM		
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Total Solar Water Heater installed	4100.00	LPD
Greenhouse gas emission avoided due to Solar Water Heater	30.57	t CO2 eq
Total GHG avoided by usage of Renewable Energy	**37.14**	**t CO2 eq**

9.2 Ambient Air Quality

Flue gas emission sources

- LPG combustion at hostel, canteen and labs
- Diesel generator at College and Hostel

Fuel consumption per year

- LPG -3838 Kg
- Diesel for generator – 2532 litres

Fuel consumption per day

- College workings days -180
- Hostel occupied with students -252 days
- Average LPG consumption per day- 15.23 kgs
- Average diesel consumption per day-14.06 litres

Combustion of LPG is NOT CONTINUOUS process

DIESEL Generator will run only when TNEB grid power fails

Considering the above situation, the quantity of flue gas emission and the impact on ambient air quality from the above combustions are negligible

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9.3 Noise level

Noise level inside the campus

Sl. No	Location	Max value in dB	Average Value in dB
1	Near Main Entrance	71.3	66.1
2	Class room	58.1	53.4
3	Library	51.7	47.3
4	Near DG	59.5	52.7
5	Hostel	54.6	52.2
6	Office	57.8	55.6

- Diesel Generators (DG) sets do not run on a continuous basis. Only during power failure, DG sets are operated during the working hours of the College.
- Generally, Power failure occurs for a very short time period.
- During planned shutdown hours, DGs run continuously based on the load
- Noise disturbance due to DG set is negligible.

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10. Audit Findings & Recommendations

Noteworthy activities

- Utilisation of Green Energy from 90KW Solar Power Plant
- MOU with Tharani Electronics Waste, Coimbatore for proper disposal of E waste
- Clean, Green and plastic free campus
- Optimum utilisation of Water
- Sewage Water Treatment at Boys' Hostel
- Hot water from Solar water heaters is utilised in the Hostel Kitchen to reduce the LPG consumption

Findings

- Air pollution impact on Ambient Air quality is negligible since the quantity of fuel used for combustion in the institution is very less
- Noise levels inside the campus are within the prescribed limit.
- Lot of initiatives are taken to conserve Water and Energy by the Institution.
- Total water consumption for Nallamuthu Gounder Mahalingam College and Hostel –50 KL/Day
- Electrical Energy consumption from TNEB GRID alone –2,93,479 units
- Green House Gas Emission is 259.45 t CO_2e Total GHG emission
- Green House gas reduction due to grown up trees is 20.18 t CO_2 e
- Net Green House Gas emission is 239.27 t CO_2 e
- Tree cover of the college with respect to the stakeholder strength is excellent
- Regular planting of trees inside campus are to be continued
- Water usage per day per stakeholder in the college 7.66 litres.
- Water consumption per day per stakeholder in the hostel -98.9 litres
- Electrical Energy consumption per stakeholder per year – 56.3 units/year

Recommendations

- Flow meter to be installed at borewell water pump discharge to know the exact usage of water.

- Waste water generated from college rest room shall be separated as grey and septic water and grey water shall be used for garden or reused for toilet flushing after treatment
- Training programs in Water & Waste management, Solids and e-Waste Management, Carbon footprint concepts, Awareness on Global warming & Climate change, E -vehicle usage, Alternative Fuel usage, Renewable Energy
- Increase the number of display boards on environmental awareness such as no wastage of food, switch off light and fan after use etc

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NALLAMUTHU GOUNDER MAHALINGAM COLLEGE

(Autonomous Institutions -Affiliated to Bharathiar University)

ISO 9001:2015 Certified and Re-Accredited with "B "Grade by NAAC

POLLACHI – 642 001

ENERGY AUDIT REPORT

2021 - 2022

AUDIT / REPORT BY

ALCHEME GREEN ENERGY COMPANY
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ACKNOWLEDGEMENT

We at ALCHEME GREEN ENERGY COMPANY, Madurai are thankful to the principal for giving us the opportunity to carry out Energy audit at Nallamuthu Gounder Mahalingam College, Pollachi -642 001. Alcheme Green Energy Company team is also thankful to all other supporting Officers / Staffs of the above institute for their wholehearted support, hospitality and the courtesy extended to the Audit team during the course of the visit.

The following officers from Alcheme Green Energy Company under the guidance of Mr. C. Jebaraj, B.Tech., have carried out the Energy Audit.

Name	Qualifications	Certification Number
Mr. C. Jebaraj	B.Tech., PDGEM., DIS., BEE Certificated Energy Auditor, IRCA Certified Lead Auditor - OHSMS Internal Auditor-QMS CII Certified Carbon footprint Professional	EA-9847
Mr. S. Lakhsmana Kumaran	B.Tech., MSc.,(Env. Science), MBA., IRCA Certified Lead Auditor ISO 14001 EMS	UID - 351851

The following staff from the Institution participated in the audit process

Name	Qualification	Designation
Dr. R. Muthukumaran	M.A., M.Phil., B.Ed., Ph.D.,	Principal
Dr. R. Manicka Chezhian	M.Sc., M.S., Ph.D.,	IQAC Co-Ordinator
Thiru. K. Srinivasan	M.C.A	Associate Professor Department of Computer Science ERP Co-Ordinator
Dr. A. Srividhya	M.A., M.Phil., Ph.D.,	Assistant Professor Department of English
Dr. P. Archanaa	M.Com., M.Phil., PGDCA., Ph.D., M.A[HINDI]	Assistant Professor PG Department of Commerce with Computer Applications
Dr. A. Kanakaraj	MCA., M.Sc., M.Phil., Ph.D., DIR	Assistant Professor PG Department of Computer Science

Summary of Audit

Energy audit of Nallamuthu Gounder Mahalingam College and Hostel was carried by Alcheme Green Energy Company. The Audit team has gone through the data related to TNEB GRID Electrical Energy, Renewable Energy, Diesel and LPG consumption. A study was also carried out on Renewable energy utilisation and Energy Conservation measures to reduce energy consumption.

During the visit it was observed that Nallamuthu Gounder Mahalingam College strictly follows reduce, reuse and recycle policy to limit energy usage. The concept of energy conservation is disseminated among the students and staffs through various seminars/workshops and training programs.

We hope that the results presented in the energy auditing report will serve as a guide for the institution on the existing energy related practices and resource usage.

Note Worthy

Installation of 90KW On Grid Roof Top Solar Power Plant to reduce conventional energy usage

The audit outputs and recommendations are summarised as follows

- Annual electricity consumption from TNEB GRID is around 2,93,479units during the year 2021-2022.
- Electrical Energy consumption from Diesel Generator – 7,596 units.
- Solar Power Electrical energy consumption- 8,021 units
- Total Electrical Energy consumption – 3,09,096 units.
- LPG consumption - 3838 Kgs
- Solar water heater installed capacity 4,100 LPD
- High Volume low speed fans are provided at auditorium to reduce energy consumption
- BEE Star rated appliances are being used.

ENERGY SAVING POTENTIALS

1.**Conventional tube lights shall be replaced with LED tube lights**

Replacement cost for 100 LED tube lights-Rs 180x100= RS 18,000
Cost savings for 100 LED tube lights-Rs 44,600 / year
Energy savings for 100 LED tube lights-5,000 units/ year
Payback period-5 months

2.**Conventional fans shall be replaced with energy efficient fans**

Replacement cost for 100 Nos. ENERGY EFFICIENT FAN-Rs 2,800x100= RS ,80,000
Cost savings for 100 Nos. ENERGY EFFICIENT FAN -Rs 1,36,100/ year
Energy savings for 100 Nos. ENERGY EFFICIENT FAN -15,300 units/ year
Payback period 25 months

- Remaining Conventional Tube lights shall be replaced with LED tube lights in a phased manner
- 5 Star rated Energy efficient electrical equipments shall be procured in future
- Automatic power switch off systems may be introduced in the required areas

We are happy to submit this detailed energy audit report to the Nallamuthu Gounder Mahalingam College

Alcheme Green Energy Company
Madurai

Sl. No.	Content	Page No.
	Summary of Energy Audit	
1	Service connection, Tariff, Load and Energy consumption details	6
2	Electrical Energy consumption in the college service number 03 386 007 123	7
3	Electrical Energy consumption in the hostel service number 03 386 005 1053	8
4	TNEB Grid Energy consumption in College and Hostel	9
5	DG set Electrical Energy consumption	10
6	Total Conventional Electrical Energy Consumption details	11
7	Renewable Electrical Energy-Solar (Power Plant & Street Lights)	12
8	Conventional Thermal Energy consumption – Liquified Petroleum Gas (LPG) & Diesel (For DG)	14
9	Renewable Thermal Energy-Solar Water Heater	15
10	Total Energy consumption	16
11	Renewable and conventional energy distribution	17
12	Energy Conservation measures followed	18
13	Major Electrical load details	19
14	Common observation and feedback	21
15	Audit Findings and Energy saving potential	22

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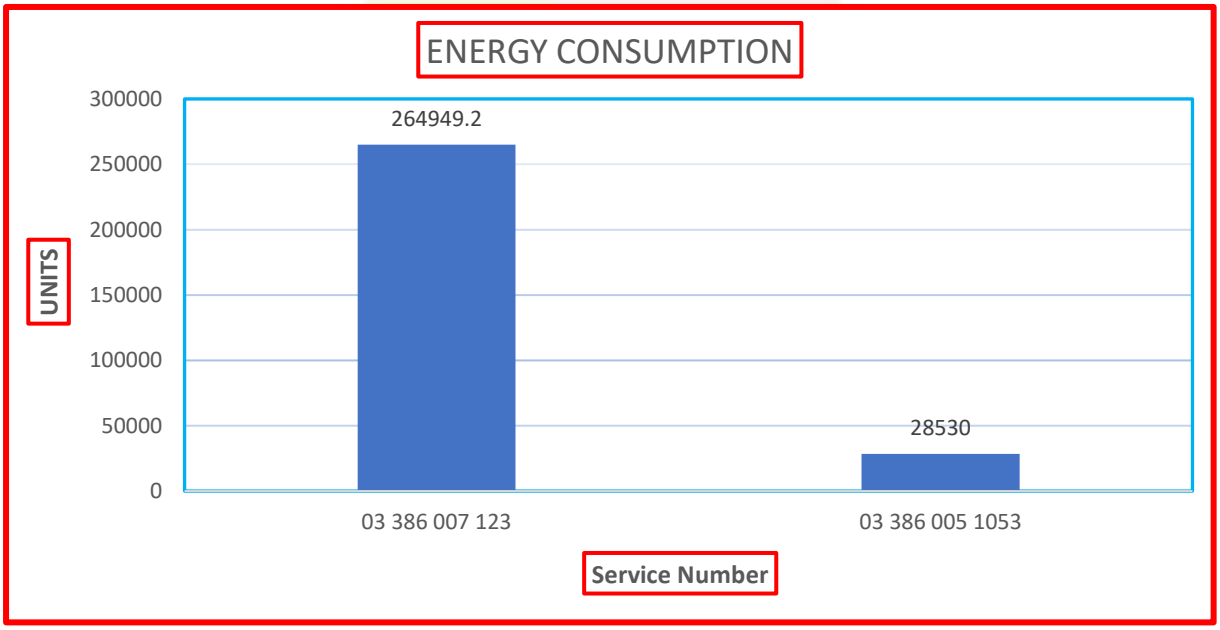
1. Service connection, Tariff, Load and Energy consumption details

TNEB SERVICE CONNECTION DETAILS				
Sl. No	**Service Number**	**BLOCK/BUILDING NAME**	**Tariff**	**connected load in KW**
1	03 386 007 123	College	LM2B2	149.52
2	03 386 005 1053	Hostel	LM2B2	14.48
	Total			164

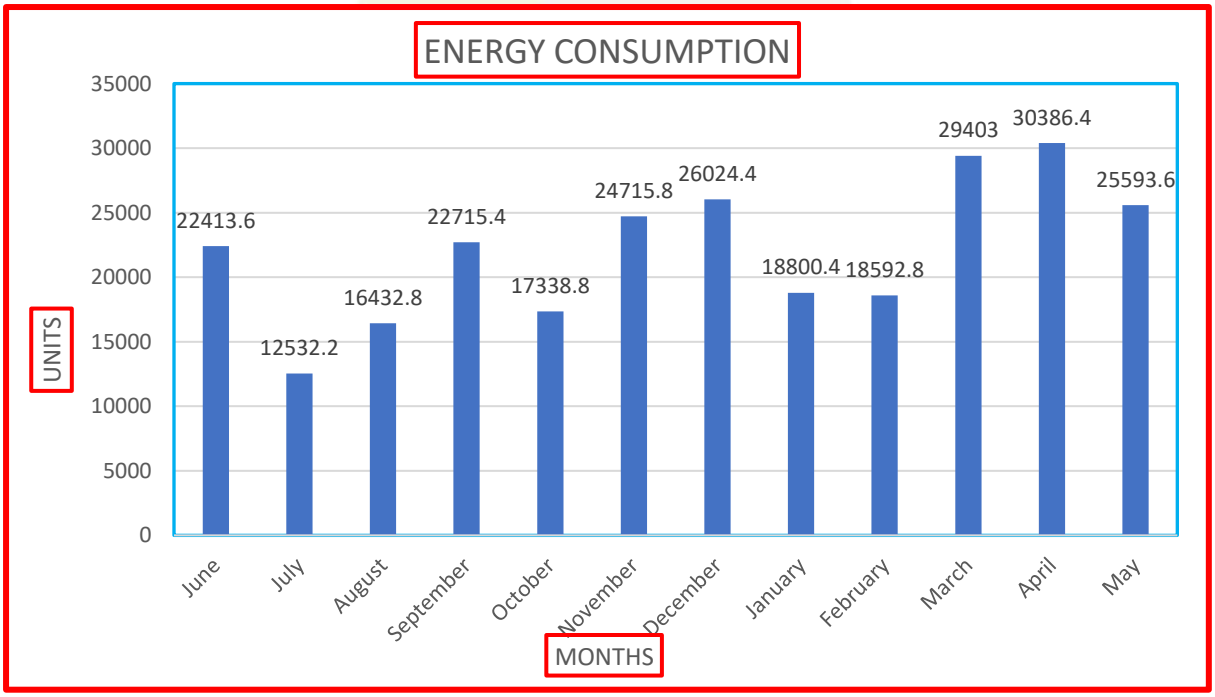
Sl. No	Service Number	Tariff	Units Consumed
1	03 386 007 123	LM 2B2	264949
2	03 386 005 1053	LM 2B2	28530
	Total		293479



College and Hostel Energy consumption during the year 2021-2022

2. Electrical Energy consumption in the college service number 03 386 007 123

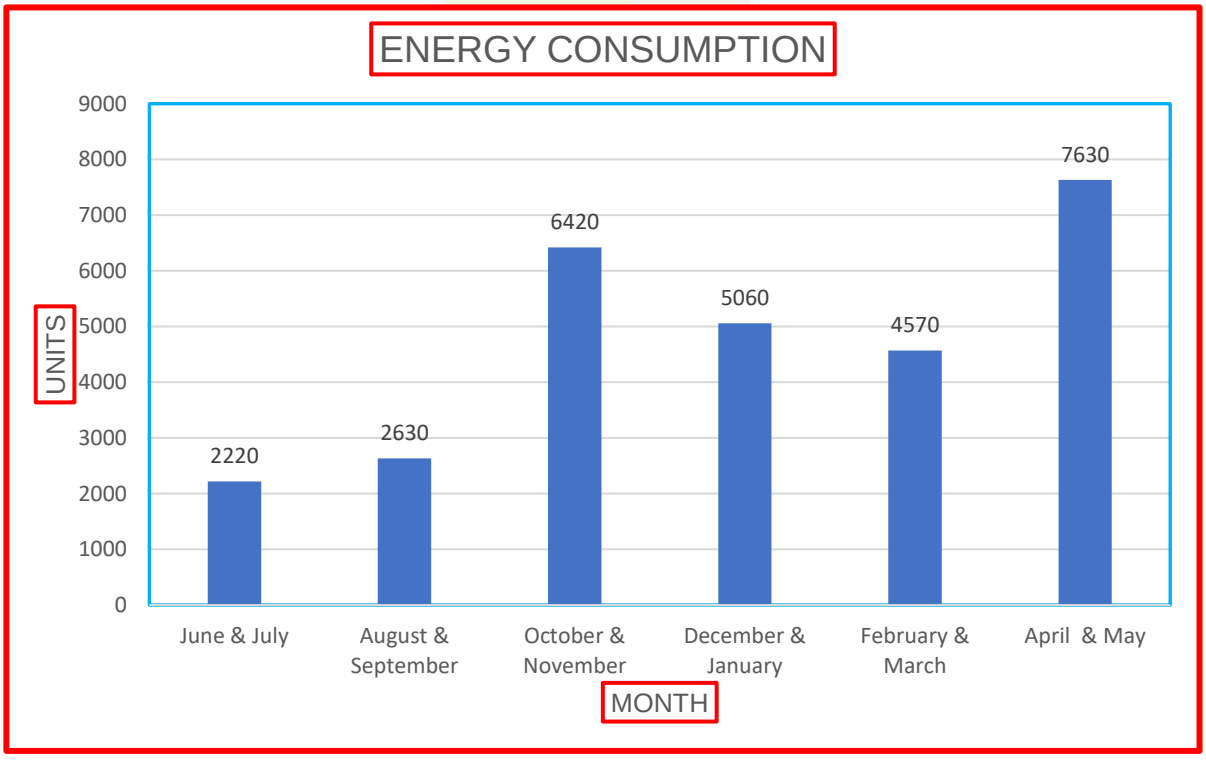
Sl. No.	Assessment Date	Months	Units Consumed
1	26.06.2021	June	22413.6
2	27.07.2021	July	12532.2
3	27.08.2021	August	16432.8
4	28.09.2021	September	22715.4
5	26.10.2021	October	17338.8
6	29.11.2021	November	24715.8
7	27.12.2021	December	26024.4
8	28.01.2022	January	18800.4
9	28.02.2022	February	18592.8
10	26.03.2022	March	29403
11	27.04.2022	April	30386.4
12	27.05.2022	May	25593.6
	Total		264949.2



Month wise Energy consumption in the college

3. Electrical Energy consumption in the hostel service number 03 386 005 1053

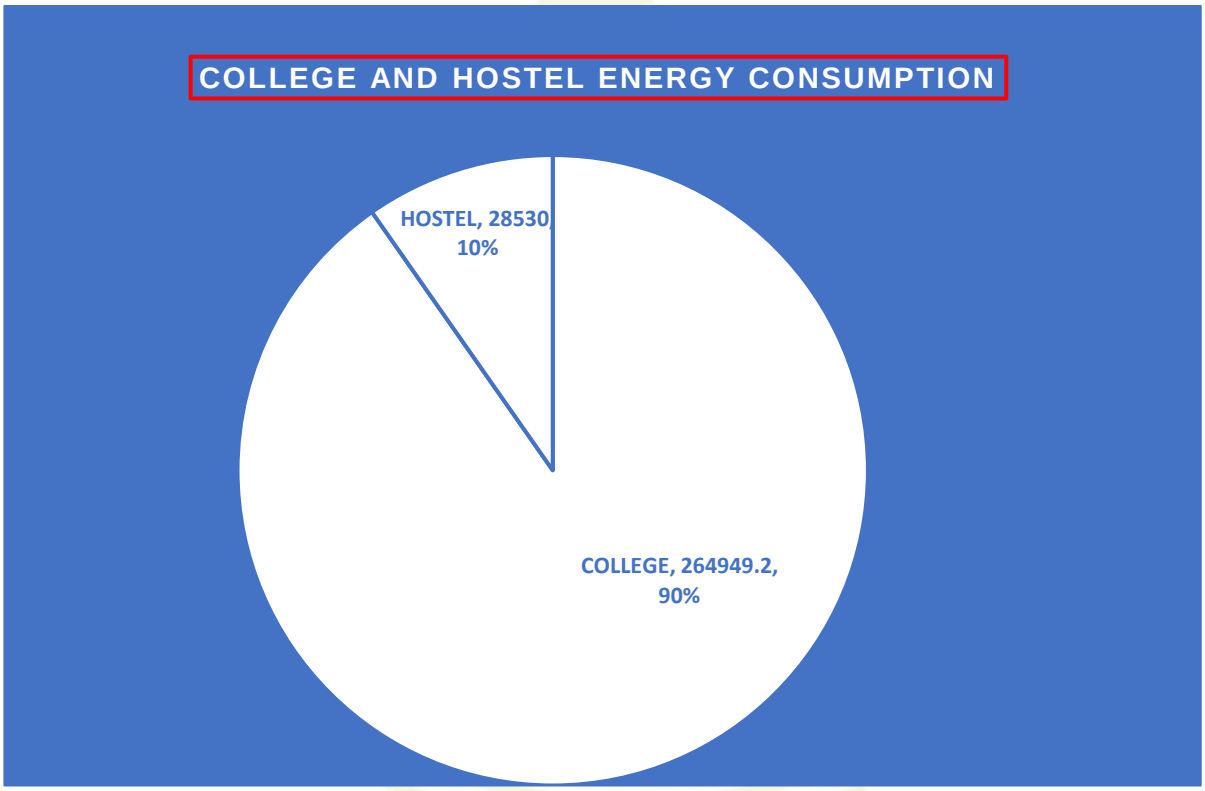
Service No 03 386 005 1053 14.48 KW 3 Phase Tariff LM2B2			
Sl. No.	**Assessment Date**	**Months**	**Units Consumed**
1	27.07.2021	June & July	2220
2	27.09.2021	August & September	2630
3	29.11.2021	October & November	6420
4	29.01.2022	December & January	5060
5	25.03.2022	February & March	4570
6	24.05.2022	April & May	7630
	Total		28530



Bi Monthly Energy consumption in the Hostel

4.TNEB Grid Energy consumption pattern in College and Hostel

Sl. No.	Place	Service Number	Units Consumed
1	COLLEGE	03 386 007 123	264949
2	HOSTEL	03 386 005 1053	28530
	TOTAL		293479



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5.DG set Electrical Energy consumption

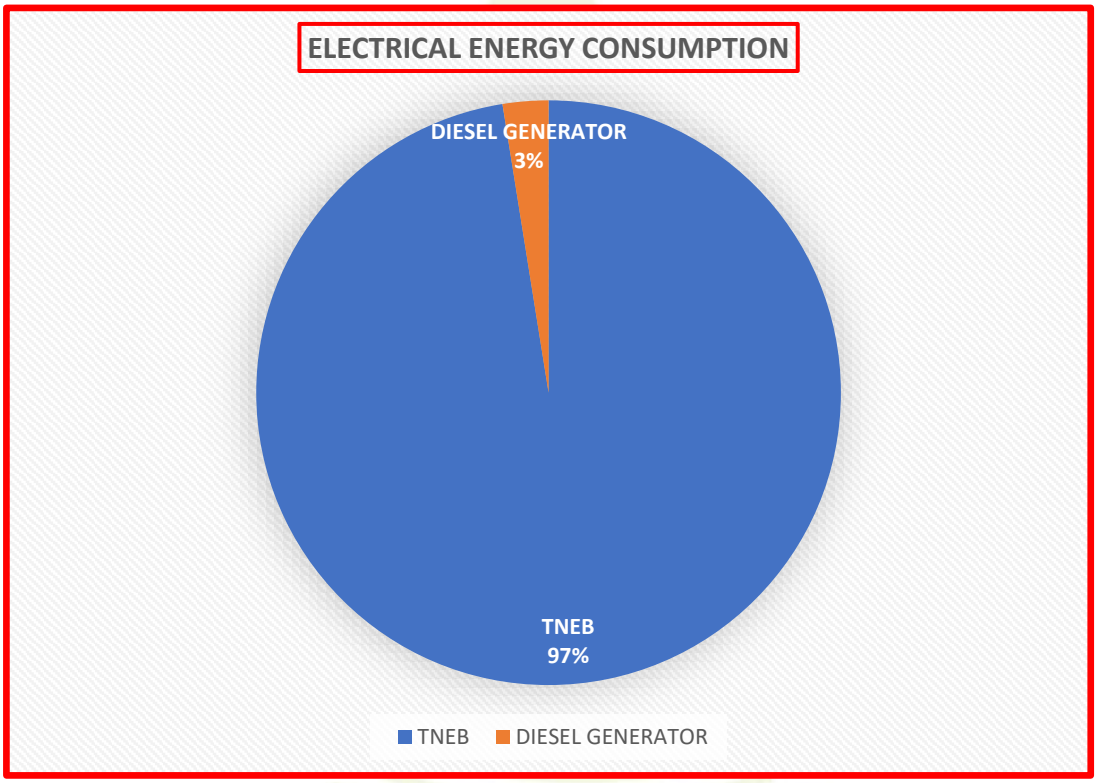
College Diesel Generator

Hostel Diesel Generator

- Total Diesel consumption-2532 litres
- Power generation -7596 units

6.Total Conventional Electrical Energy Consumption details

SL.NO	SOURCE	UNITS CONSUMED
1	TNEB	293479
2	DIESEL GENERATOR	7596
	Total	301075



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7.Renewable Electrical Energy-Solar Electrical energy Consumption

ON GRID ROOF TOP SOLAR POWER PLANT

Capacity-90KW

Commissioned on 1St May 2022

Solar Energy generated up to 31.05.2022

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Solar Street Lights

- Solar Street Lights -5 Nos
- Power of LED lamp-20watts
- Total power generation - 438 units

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8.Conventional Thermal Energy consumption – LPG

LPG cylinders used- commercial cylinders of 19 kgs capacity

- LPG consumption in the hostel mess during the year 2021-2022- 200 cylinders
- LPG consumption in the college during the year 2021-2022- 2 cylinders
- **Total LPG consumption during the year 2021-2022- 3838 KGs (202 Cylinders)**

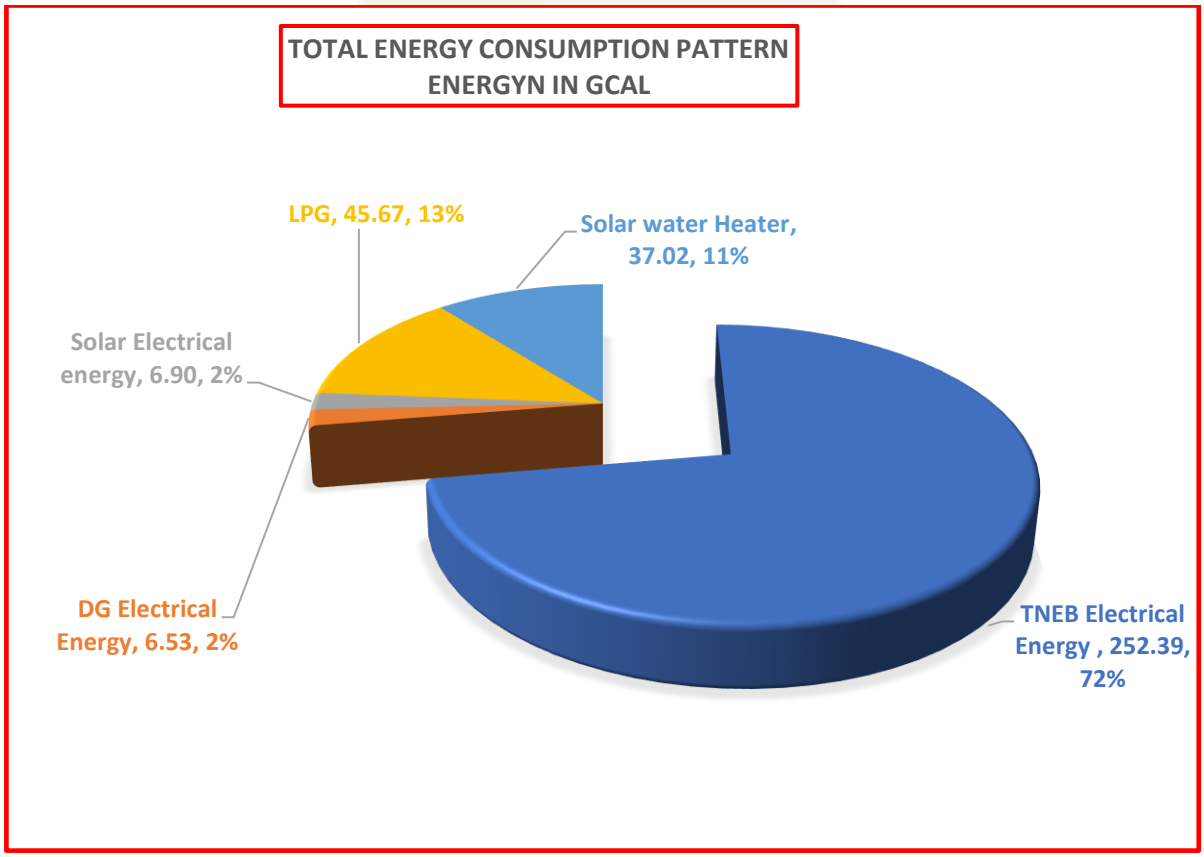
9. Renewable Thermal Energy

Total capacity of Solar Water Heaters-4100 Litters Per Day

	Boys Hostel 1000 LPD X 1
	Girls Hostel 1000 LPD X 1
	Girls Hostel 1000 LPD X 2 100 LPD X 1

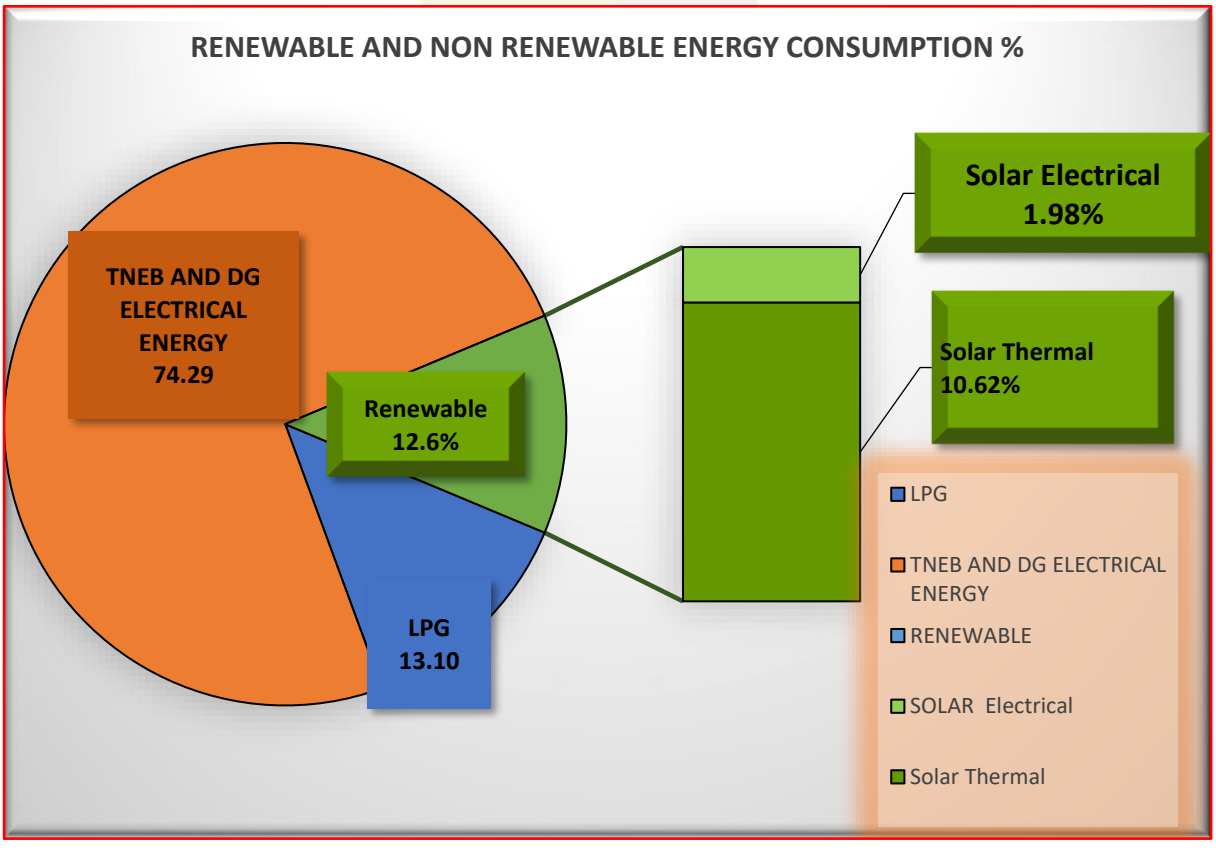
10.Total Energy consumption

SL.NO	TYPE OF ENERGY	ENERGY -GCAL
1	TNEB Electrical Energy	252.39
2	DG Electrical Energy	6.53
3	Solar Electrical energy	6.90
4	LPG	45.67
5	Solar water Heater	37.02
	Total	348.5



11.Renewable and Non-Renewable(conventional) energy distribution

ENERGY CONSUMPTION	PERCENTAGE
NON RENEWABLE	
LPG	13.10
TNEB AND DG ELECTRICAL ENERGY	74.29
RENEWABLE	
SOLAR Electrical	1.98
Solar Thermal	10.62



12.The energy conservation measures followed

- High volume Low Speed fans are provided in the auditorium
- Maximum utilisation of day lights at auditorium, hostel and colleges
- Staff and Students are made aware of using public transport system
- Individual vehicle usage is reduced to the minimum level
- Periodical maintenance and overhauling of generators is being carried out
- The fans, lights, air-conditioners and other electronic and electrical equipments are switched off when not in use.
- Lights and fans are switched off by the students whenever they are out of hostel rooms
- Replacing conventional electrical light fittings with energy efficient Light-Emitting Diode (LED) bulbs.
- Replacing old high energy consuming appliances with star rated energy efficient appliances.
- Computers are switched to sleep mode or hibernate mode automatically when not in use.
- At the end of every practical session, Computer monitors and UPS are switched off.
- Soft copies are maintained instead of hard copies, to reduce power consumption and paper.

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13.Major Electrical load details

Sl. No	Equipment	Watts	Nos	Total watts	KW
1	Ceiling Fan	75	932	69900	69.9
2	Computer	180	560	100800	100.8
3	Printer	115	30	3450	3.45
4	LCD	240	30	7200	7.2
5	Light	36	99	3564	3.564
6	light	18	68	1224	1.224
7	Light	16	4	64	0.064
8	Light	11	131	1441	1.441
9	LED	32	88	2816	2.816
10	LED	18	193	3474	3.474
11	LED	20	335	6700	6.7
12	LED	9	236	2124	2.124
13	CFL	27	3	81	0.081
14	CFL	18	13	234	0.234
15	CFL	12	6	72	0.072
16	CFL	4	4	16	0.016
17	Sodium Light	250	27	6750	6.75
18	Pedestal Fan	60	12	720	0.72
19	Wall mounted fan	55	10	550	0.55
20	Xerox Printer	2100	5	10500	10.5
21	Water Doctor	750	12	9000	9
22	1 Ton AC	1000	9	9000	9
23	1.5 T AC	1500	20	30000	30
	HOSTEL				
	H	HP	Nos		KW
1	Ceiling Fan	3	2	6	4.5
2	Motor	3	1	3	0.003
3	Motor	7.5	3	22.5	0.0225
4	Motor	5	1	5	0.005
5	Motor	2	1	2	0.002
6	Motor	1	1	1	0.001
	Hostel				
	Equipment	Watts	Nos	Watts	KW
1	Wet Grinder	1300	1	1300	1.3
2	Wet Grinder	750	1	750	0.75
3	Mixie	1500	1	1500	1.5
4	Mixie	750	1	750	0.75
	UPS				
	30 KVA	1			
	20 KVA	6			
	10KVA	1			
	6 KVA	1			
	3KVA	10			

Lighting Load

Total Lighting load	28.56	KW	
Contribution on Total lighting Load			%
LED Load	15.11	KW	52.92
CFL load	0.40	KW	1.41
Conventional lights	13.04	KW	45.67

Diesel Generators

1. 200 KVA- 1- College

2.62.5 KVA- 2 - College

3. 25 KVA-1- Hostel

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14.COMMON OBSERVATION AND FEEDBACK

1. Lightning arrestor system is provided in the campus
2. Metal Roof was provided for DG sets to avoid rain water entry and rust formation on silencer.
3. Unwanted materials to be removed from power room
4. Energy conservation program for all staffs shall be planned on regular basis
5. Additional Display of Emergency contact numbers to be posted on prominent places
6. History card to be maintained for all UPS and batteries.
7. Proper ventilation to be ensured in battery and UPS storage room
8. Solar Street light system battery conditions to be checked on periodical manner
9. Five star rated energy efficient appliances to be procured in the future

Lightning Arrestor

Shed for DG

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15. AUDIT FINDINGS & ENERGY SAVING POTENIAL

Findings

- Annual electricity consumption from TNEB GRID is around 2,93,479units during the year 2021-2022.
- Electrical Energy consumption from Diesel Generator – 7,596 units.
- Solar Power Electrical energy consumption- 8,021 units
- Total Electrical Energy consumption – 3,09,096 units.
- LPG consumption - 3838 Kgs
- Solar water heater installed capacity 4,100 LPD
- High Volume low speed fans are provided at auditorium to reduce energy consumption
- 5 Star rated Energy efficient electrical equipments shall be procured in future
- In total Lighting loads, 52.92 % lighting loads are converted into LED lighting system. Remaining Conventional Tube lights shall be replaced with LED tube lights in a phased manner
- Lightning arrestor was provided inside the campus at higher elevation
- Students and staff may be encouraged to shift over to E- Vehicle
- Automatic power switch off systems may be introduced in the required areas

Renewable Energy

90KW On Grid Roof Top Solar Power Plant was installed and commissioned on 1st May 2022

Bi Directional meter to be fixed in the existing energy meter as soon as possible to harvest maximum Solar Energy

Energy saving potentials

1.Conventional tube lights shall be replaced with LED tube lights

Conventional tube light (with electronic choke) energy consumption-40 watts/hr

LED Tube lights energy consumption-20 watts/ hr

Savings per tube light -20 watts/hr

No of hours usage per day in the hostel– 10 hrs

No of days hostel occupied with students-252 days

Energy savings per tube light per year -252 x10x20= 50,400wh=50 units

Average energy cost- Rs 8.5/unit + 5% Tax = Rs 8.9/unit

Cost saving per year per tube light-50 x 8.925 = Rs 446

Cost savings per month-Rs 37

Approximate Cost of LED tube light -Rs 180

Payback period-5 months

Replacement cost for 100 LED tube lights-Rs 180x100= RS 18,000

Cost savings for 100 LED tube lights-Rs 44,600 / year

Energy savings for 100 LED tube lights-5,000 units/ year

Payback period-5 months

2. Conventional fans shall be replaced with energy efficient fans

Conventional FAN energy consumption-60 watts/hr

ENERGY efficient fan energy consumption-28 watts/ hr

Savings per fan -32 watts/hr

No of hours usage per day in the hostel– 16 hrs

No of days hostel occupied with students-252 days

Energy savings per fan per year -252x16x38= 153216wh=153 units

Average energy cost- Rs 8.9 /unit

Cost saving per year per FAN-153 units x 8.9 = Rs 1361

Cost saving per month-Rs 113

Cost of ENERGY EFFICIENT FAN -Rs 2800

Payback period 25 months

Replacement cost for 100 Nos. ENERGY EFFICIENT FAN-Rs 2,800x100= RS 2,80,000

Cost savings for 100 Nos. ENERGY EFFICIENT FAN -Rs 1,36,100/ year

Energy savings for 100 Nos. ENERGY EFFICIENT FAN -15,300 units/ year

Payback period 25 months

NALLAMUTHU GOUNDER MAHALINGAM COLLEGE

(Autonomous Institutions -Affiliated to Bharathiar University)

ISO 9001:2015 Certified and Re-Accredited with B Grade by NAAC

POLLACHI – 642 001

GREEN AUDIT REPORT - 2022-2023

AUDIT / REPORT BY

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Mr. S. Lakhsmana Kumaran	B.Tech., MSc., (Env. Science), MBA., IRCA Certified Lead Auditor ISO 14001 EMS	UID - 351851

The following staff from the Institution were participated in the audit process

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Dr.R.ManickaChezhian	M.Sc., M.S., Ph.D.,	IQAC Co-Ordinator, Controller of Examinations, Head and Associate Professor, Department of Computer Science
Thiru.K.Srinivasan	M.C.A	Associate Professor Department of Computer Science ISO Co-Ordinator ERP Co-Ordinator
Dr.A.Srividhya	MA.M.Phil., Ph.D., NET	Assistant Professor Department of English
Dr.P.Archanaa	M.Com., M.Phil., PGDCA., Ph.D., M.A [Hindi]	Assistant Professor & Head UG Department of Commerce with Computer Applications
Ms.S.Shanthi	M.C.A., M.Phil.,	Assistant Professor, PG Department of Computer Sciene
Ms.P.Uma Maheswari	M.Sc., Computer Science	IQAC Member
Selvan. S. Kumaraguru	21CC135	III B.Com CA
Selvan. G.Vishnu Prakash	21CC150	III B.Com CA

Index

Sl. No.	Contents	Page No
1	Summary of the Green Audit	4
1.1	Green Environmental policy	6
1.2	Total Campus Area	6
1.3	NAAC Grading	6
1.4	Campus Infrastructure	7
2.0	Pre-Audit Stage	9
2.1	Management's Commitment	9
2.2	Scope and Goals of Green Auditing	9
2.3	Benefits of Green Auditing	10
2.4	Target Areas of Green Auditing	10
3.0	Audit Stage	13
3.1	Student Clubs and Forums	13
3.2	Comments on Site Tour	13
3.3	Review of Documents and Records	13
3.4	Review of Policies	14
3.5	Interviews	14
3.6	Site Inspection	14
4.0	Post Audit Stage	15
4.1	Key Findings, Observations and Evaluations	15
4.2	Consolidation of Audit Findings	38
4.3	Preparation of Action Plan	40
4.4	Follow-up Action and Plans	40
4.5	Environmental Education	40
4.6	Recommendations	41

I. Summary of the Green Audit

Green audit of Nallamuthu Gounder Mahalingam College and its Hostel was carried by Alcheme Green Energy Company. The green audit reports assist in the process of attaining an eco- friendly approach to the sustainable development of the college. Green audit report is a very powerful and valuable communications tool to use when working with various stakeholders who need to be convinced that things are running smoothly and systems and procedures are coping with natural changes and modifications that occur.

A few recommendations are added to curb the menace of waste management using eco-friendly and scientific techniques. This will lead to a prosperous future in context of Green Campus leading to sustainable environment and community development. It has been proved frequently that the practical suggestions, alternatives and observations that have resulted from audits have added positive value to the audited organisation. It is hoped that the results presented in the Green Audit Report will serve as a guide for educating Nallamuthu Gounder Mahalingam College, on the existing environment related practices and resource usage and spawn new activities and innovative practices.

Noteworthy activities

- Installation of 90KW Solar Power plant
- MOU with Tharani Electronics Waste, Coimbatore for proper disposal of E waste
- Maximum utilisation of public transport system by students and staff for commutation is highly appreciable
- Appreciable increase in usage of Bicycle and E- vehicle by Students and staff
- Excellent Solar water Heater system for both Boys and Girls at Hostel
- Hot water from Solar water heater is used in the hostel for cooking to reduce the LPG consumption

The audit outputs and recommendations are summarised as follows:

- Total water consumption for Nallamuthu Gounder Mahalingam College and Hostel –69 KL/Day
- Electrical Energy consumption from TNEB GRID alone –2,87,718 units

- Diesel Generator electrical energy consumption – 10,860 units
- Electrical energy consumption from solar power lant and solar street lights- 10,605 units
- Total Electrical Energy consumption is 3,09,283 units
- Electrical Energy consumption from TNEB GRID alone –2,87,718 units
- Total Green House Gas Emission is 295.57 t CO_2e
- Green House gas reduction due to grown up trees is 22.28 t CO_2 e
- Net Green House Gas emission is 273.29 t CO_2 e

We are happy to submit this detailed green audit report to the Nallamuthu Gounder Mahalingam College

For Alcheme Green Energy Company

Madurai

1.1 Green Policy

Nallamuthu Gounder Mahalingam College has formulated a Green Policy to guide all its green initiatives. Cleanliness in the campus is maintained through proper disposal of wastes, utilization of eco-friendly supplies and effective recycling program. The concept of eco-friendly culture is disseminated among the students through various seminars/workshops and community-oriented programs. Institution strictly follows reduce, reuse and recycle method to limit energy usages

The main objectives are as follows:

- To promote green growth, create green jobs and maintain green infrastructure
- To execute “Reduce, Reuse, Recycle and Re- earth “towards waste management, environmental protection and sustainable future
- To reduce potable water consumption
- To create environmental awareness among all the stakeholders of the institution
- To assess and regulate environmental practices of the institution periodically

The Institution vouchsafes:

- Its commitment to sustainability and environmental management
- It reiterates the stand that managing environmental issues is a high priority for the College
- Its commitment to prevent pollution and to continuously improve upon environmental protection.
- A commitment to create environmental awareness

1.2 Total Campus Area & Building Spread Area

- Campus area -**25.98 Acres**
- Build up area – **367644.3** sq. ft.

1.3 NAAC Grading

- Accredited with ‘B’ Grade by NAAC

1.4 Campus Infrastructure

Nallamuthu Gounder Mahalingam College is located in calm and quiet surroundings that are conducive to learning. It helps to stimulate both personal and professional growth of the students. The campus is located about 5 Kms from Pollachi.

CLASS ROOMS

Spacious, well-ventilated and well-equipped classrooms with projectors and screens facilitate and reinforce effective teaching-learning experience for the faculty and students.

LABORATORIES

Nallamuthu Gounder Mahalingam College has set up highly advanced science and computer laboratories attached to different departments. These are adequately equipped with the latest gadgets, instruments and apparatus with the aim of providing students conceptual as well as practical understanding of the subject through hands-on training.

LIBRARY

The library is a central facility in the college and is fully automated with OPAC (online Public Access Catalogue) system. The library has a stock of more than 64,000 books, including 52,000 titles and a supply of 63 journals and 45 magazines. CD/DVDs, e-journals, on-line database and audio-video cassettes are also available for reference installed CCTV.

The Central Library aims at enhancing readership and encourage the research and academic activities in the College by rendering information service to all kind of users.

The library is dedicated to support the student's activities and programs of the institution. It accomplishes college mission by maintaining up- to–date collection of books, journals audio-visual items and other library materials related to study.

A rich collection of books and Journals, Magazines, periodicals, reports, reference material are available in the library. Various e-contents and e-Resources are available to facilitate e-Learning.

The library also responds to the needs of the teaching staff for effective teaching and research. To the credit, the library has attracted many research scholars from the neighbourhood colleges in and around Pollachi for reference.

INTERNET

College is fully equipped with round the clock internet facility with 50 Mbps Leased Line internet access to all students

DRINKING WATER

Water is not just an ordinary need to the human beings. It plays a vital role in our life hence the institution gives more care towards the provision of safe water to everyone. The college has installed an Water Doctor which supply pure and safe drinking water.

LANGUAGE LAB

The Technology enabled Language Lab to experiment new educational concepts is available for students studying in the English / Tamil Department. This lab enhances instruction in the classroom by providing computer access and exercises in listening, speaking, reading and writing. Exercises are provided by individual instructors

The primary goals of the computer labs and classrooms is to provide assistance to students that will enhance their chances of succeeding in technology-based classroom assignments and to provide access to equipment that will support the needs of instruction where we celebrate life-long learning. The computer labs support the curriculum of the college and the assignments of the instructors.

HOSTEL

In the hostel accommodation is provided with quality food, purified drinking water,24 x7 availability of water, Recreation provisions and other amenities. Accommodation is available for undergraduate and postgraduate students. The hostels provide a calm and relaxing atmosphere to accelerate the creative talents of the students. The teachers who act as resident wardens of the hostels provide moral and emotional support and guidance to the inmates. The hostel securities ensure 24 hours safety.

ALGEO

2. Pre-Audit Stage

A pre-audit meeting provided an opportunity to reinforce the scope and objectives of the audit and discussions were held on the practicalities associated with the audit. This meeting is an important prerequisite for the green audit because it is the first opportunity to meet the auditee and deal with any concerns.

The meeting was an opportunity to gather information that the audit team can study before arriving on the site. The audit protocol and audit plan was handed over at this meeting and discussed in advance the audit itself.

In Nallamuthu Gounder Mahalingam College pre-audit meeting was conducted successfully and necessary documents were collected directly from the College before the initiation of the audit processes. Actual planning of audit processes was discussed in the pre-audit meeting. Audit team was also selected in this meeting with the help of staff and the college management.

The audit protocol and audit plan were handed over at this meeting and discussed in advance of the audit itself. The audit team worked together, under the leadership of the lead auditor, to ensure completion within the brief and scope of the audit.

2.1 Management's Commitment

The Management of the college has shown the commitment towards the green auditing during the pre-audit meeting. They were ready to encourage all green activities. It was decided to promote all activities that are environment friendly and planting more trees on the campus etc., after the green auditing.

2.2 Scope and Goals of Green Auditing

A clean and healthy environment aids effective learning and provides a conducive learning environment. There are various efforts around the world to address environmental education issues.

Green Audit is the most efficient and ecological way to manage environmental problems. It is a kind of professional care which is the responsibility of each individual who are the part of economic, financial, social, environmental factor. It is necessary to conduct green audit in the College campus because students become aware of the green audit, its advantages to save the planet and they become good citizens of our country.

A very simple indigenized system has been devised to monitor the environmental performance of Nallamuthu Gounder Mahalingam College, Pollachi. It comes with a series of questions to be answered. This innovative scheme is user friendly. The aim of this is to help the Institution to set environmental examples for the community and to educate the young learners.

2 .3 Benefits of the Green Auditing

- More efficient resource management
- To create a green campus
- To enable waste management through reduction of waste generation, solid-waste and water recycling
- To create plastic free campus and evolve health consciousness among the stakeholders
- Recognize the cost saving methods through waste minimizing and management
- Point out the prevailing and forthcoming complications
- Authenticate conformity with the implemented laws
- Empower the organizations to frame a better environmental performance
- Enhance the alertness for environmental guidelines and duties
- Impart environmental education through systematic environmental management approach and improving environmental standards
- Benchmarking for environmental protection initiatives
- Financial savings through a reduction in resource use
- Development of ownership, personal and social responsibility for the College and its environment
- Developing an environmental ethic and value systems in youngsters.
- Green auditing should become a valuable tool in the management and monitoring of environmental and sustainable development programs of the college.

2.4 Target Areas of Green Auditing

Green audit forms part of a resource management process. Although they are individual events, the real value of green audits is the fact that they are carried out, at defined intervals and their results can illustrate the improvement.

Eco-campus concept mainly focuses on the efficient use of energy and water; minimize waste generation or pollution and also economic efficiency. All these indicators are assessed in process of “Green Auditing of educational institute”. Eco-campus focuses on the reduction of contribution to emissions, procure a cost effective and secure supply of energy, encourage and enhance energy use conservation, reduce the institute’s energy and water consumption, reduce wastes to landfill and integrate environmental considerations into all contracts and services considered to have significant environmental impacts. Target areas included in this green auditing are water, energy, waste, green campus and carbon footprint.

Auditing for Water Management

Water is a natural resource; all living matters depend on water. While freely available in many natural environments, in human settlements potable (drinkable) water is less readily available. We need to use water wisely to ensure that drinkable water is available for all, now and in future. Aquifer depletion and water contamination are taking place at unprecedented rates. It is therefore essential that any environmentally responsible Institution should examine its water use practices.

Water auditing is conducted for the evaluation of facilities of raw water intake and determining the facilities for water treatment and reuse. The concerned auditor investigates the relevant method that can be adopted and implemented to balance the demand and supply of water. It is therefore essential that any environmentally responsible Institution examine its water use practices.

Auditing for Energy Management

Energy cannot be seen, but we know it is there because we can see its effects in the forms of heat, light and power. This indicator addresses energy consumption, energy sources, energy monitoring, lighting, appliances, and vehicles. Energy use is clearly an important aspect of campus sustainability and thus requires no explanation for its inclusion in the assessment. An old incandescent bulb uses approximately 60 W while an energy efficient light emitting diode (LED) uses only less than 20 W. Energy auditing deals with the conservation and methods to reduce its consumption related to environmental degradation. It is therefore essential that any environmentally responsible institution examine its energy use practices.

Auditing for Waste Management

Pollution from waste is aesthetically unpleasing and results in large amounts of litter in our communities which can cause health problems. This indicator addresses waste production and disposal of plastic waste, paper waste, food waste, and recycling.
Solid waste can be divided into two categories: general waste and hazardous waste. General wastes include what is usually thrown away in homes and schools such as garbage, paper, tins and glass bottles. Hazardous waste is waste that is likely to be a threat to health or the environment like cleaning chemicals and used oils.
Unscientific landfills may contain harmful contaminants that leach into soil and water supplies, and produce greenhouse gases contributing to global climate change. Furthermore, solid waste often includes wasted material resources that could otherwise be channelled into better service through recycling, repair, and reuse. Thus, the minimization of solid waste is essential to a sustainable college. It is therefore essential that any environmentally responsible institution examine its waste processing practices.

Auditing for Green Campus Management

Unfortunately, biodiversity is facing serious threats from habitat loss, pollution, over consumption and invasive species. Species are disappearing at an alarming rate and each loss affects nature's balance and our quality of life. Without this variability in the living world, ecological systems and functions would break down, with detrimental consequences for all forms of life, including human beings.

Newly planted and existing trees decrease the amount of carbon dioxide in the atmosphere. Trees play an important ecological role within the urban environment, as well as support improved public health and provide aesthetic benefits to cities. The amount of oxygen that a single tree produces is enough to provide one day's supply of oxygen for people. So, while the students are busy studying and working on earning those good grades, all the trees on campus are also working hard to make the air cleaner.

Trees on our campus impact our mental health as well; studies have shown that trees greatly reduce stress, which the students feel.

Auditing for Carbon Footprint

Commutation of stakeholders has an impact on the environment through the emission of greenhouse gases into the atmosphere consequent to burning of fossil fuels (such as petrol). The most common greenhouse gases are carbon dioxide, water vapour, methane, nitrous oxide and ozone. Of all the greenhouse gases, carbon dioxide is the most prominent greenhouse gas, comprising around 415 ppm of the Earth's atmosphere. The release of carbon dioxide gas into the Earth's atmosphere through human activities is commonly known as carbon emissions.

An important aspect of doing an audit is to be able to measure your impact so that we can determine better ways to manage the impact. In addition to the water, waste, energy and biodiversity audits we can also determine what our carbon footprint is, based on the amount of carbon emissions created. One aspect is to consider the distance and method travelled between home and college every day. It undertakes the measure of bulk of carbon dioxide equivalents exhaled by the organization through which the carbon accounting is done. It is necessary to know how much the organization is contributing towards sustainable development. It is therefore essential that any environmentally responsible institution examine its carbon footprint.

3. Audit Stage

In Nallamuthu Gounder Mahalingam College green auditing was done with the help of Alcheme Green Energy Company involving different student groups, teaching and non-teaching staff. The green audit began with the teams walking through all the different facilities at the college, determining the different types of appliances and utilities as well as measuring the usage per item and identifying the relevant consumption patterns and their impacts.

The staff and learners were interviewed to get details of usage, frequency or general characteristics of certain appliances. Data collection was done in the sectors such as Energy, Waste, Greening, Carbon footprint and Water use. College records and documents were verified to clarify the data received through survey and discussions.

3.1 Student Clubs and Forums Involved

- Green Society, National Service Scheme (NSS), NCC and Rotaract club

3.2 Comments on Site Tour

Site inspection was done along with students and staff. Questionnaires were answered during the site tour. Students and staff took much interest in the data collection processes. It was quite interesting and fascinating. It was an environmental awareness program for the students who participated in the green auditing. The experience of green auditing was totally a new experience for most of the students. They have shared their expectations about a green campus and gave suggestions for the audit recommendations.

3.3 Review of Documents and Records

Documents such as electricity and water charge remittance, laboratory equipment registers, audited statements and office registers were examined and data were collected. College calendars, college magazines, annual report of the college and NAAC self-assessment reports, UGC report etc. were also verified as a part of data collection.

3.4 Review of Policies

Discussions were made with the College management regarding their policies on environmental management. Future plans of the college were also discussed. The management would formulate an environment /green policy for the college in the light of green auditing. The purpose of the green audit was to ensure that the practices followed in the campus are in accordance with the Green Policy adopted by the Institution.

3.5 Interviews

In order to collect information for green auditing different audit groups interviewed teaching and non-teaching staff, students and other stakeholders of the college.

3.6 Site inspection

College and its premises were visited and analysed by the audit-teams several times to gather information. Campus trees were counted and identified. Medicinal /Herbal plants garden, play grounds, canteen, library, office rooms and parking grounds were also visited to collect data. Number and type of vehicles used by the stakeholders were counted. Number of LPG cylinders used in labs, canteen and hostel kitchen were also counted.

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4. Post Audit Stage

The base of any green audit is that its findings are supported by documents and verifiable information. The audit process seeks, on a sampled basis, to track past actions, activities, events, and procedures to ensure that they are carried out according to systems requirements and in the correct manner.

Green audits form a part of a process. Although they are individual events, the real value of green audits is the fact that they are carried out, at defined intervals, and their results can illustrate improvement or change over time. Although green audits are carried out using policies, procedures, documented systems and objectives as a test, there is always an element of subjectivity in an audit.

The essence of any green audit is to find out how well the environmental organisation, environmental management and environmental equipment are performing. Each of the three components is crucial in ensuring that the organisation's environmental performance meets the goals set in its green policy. The individual functioning and the success of integration will all play a role in the degree of success or failure of the organisation's environmental performance.

4.1 Key Findings, Observations and Evaluations

a) Water Usage at Nallamuthu Gounder Mahalingam College

Total number of students studied during the academic year 2022-2023: 5031

Teaching & non-Teaching staff in the institution during the academic year 2022-2023:180

Total number of stake holders: 5211

Water for college and hostel

Municipal water-3,000 litres/day

Borewell water- 66,000 litres/day

Total water usage -69,000 litres/day

Main water uses in the College campus are Drinking, Rest room, Canteen and Lab

Water usage in the College- 39 KL / Day

Water usage per day per stakeholder in the college – 7.48 litres

Water usage at college

Sl. No	Place	Water usage Quantity Litres / Day
1	Drinking	10,000
2	Rest room	12,000
3	Canteen	2,000
4	Lab	2,000
5	Garden	13,000
	Total	**39,000**

Waste water generation in the college – 16 KL/day

Water usage at Hostel

Number of students and staff residing in the hostel in the year 2022-2023: 251

Main water uses in the Hostel are Drinking, Washing of clothes, Cooking & Vessel cleaning and for Rest room

Water usage at Hostel - 30 KL / Day

Water usage at Hostel

Sl. No	Place	Water usage Quantity Litres / Day
1	Drinking	750
2	Cooking	1,250
3	Rest room	10,000
4	Bathing	5,000
5	Clothes washing	5,000
6	Vessel Cleaning	2,000
7	Garden	6,000
	Total	30,000

Waste water generation in the Hostel – 22 KL /day

For drinking water: Water Doctor system was installed

- Analysis of Drinking water and bore well water samples are done periodically
- The quality of Drinking water is within the norms.
- Microbial test for Drinking water is carried out on periodical manner.

Rainwater Harvesting

At Nallamuthu Gounder Mahalingam College, rainwater harvesting is done effectively to enhance the ground water level. The institution has rainwater harvesting pits at various locations and they are being maintained properly. The water drained during the rainy season is allowed to flow into the pits constructed in various places inside the campus including the Hostel Premises.

	Rainwater harvest area covered in the college -45,799 sqft
	Rainwater harvest area covered in the hostel- 16,276 Sqft

In addition, all the rainwater from open floor area is collected through Rainwater collection channel and directed to open well

Excellent collection system for effective utilisation of rainwater

Water Conservation initiatives

- Periodical preventive maintenance is carried out to avoid leakages

b) Energy

Non-Renewable Energy

ELECTRICAL ENERGY CONSUMPTION IN THE COLLEGE AND HOSTEL

SL.NO	PLACE	SERVICE NUMBER	UNITS CONSUMED
1	COLLEGE	03 386 007 123	248939
2	HOSTEL	03 386 005 1053	38779
	TOTAL		287718

Diesel Generator Electrical Energy Consumption: 10,860 units

Total electrical energy consumption

SL.NO	SOURCE	UNITS CONSUMED
1	TNEB	287718
2	DIESEL GENERATOR	10,860
	Total	298578

Total Electrical Energy consumption from TNEB grid and DG in the College and Hostel 2,98,578 units

LPG

LPG gas is used in the hostel for cooking and used in the college lab for heating

- LPG cylinders used- commercial cylinders of 19 kgs capacity LPG consumption in the hostel mess during the year 2022-2023- 275cylinders
- LPG consumption in the college during the year 2022-2023- 2 cylinder.
- Total LPG consumption during the year 2022-2023- 5,263 KGs (277 Cylinders)

DIESEL CONSUMPTION FOR TRANSPORT-Nil

College is not running buses for transport

Renewable Energy

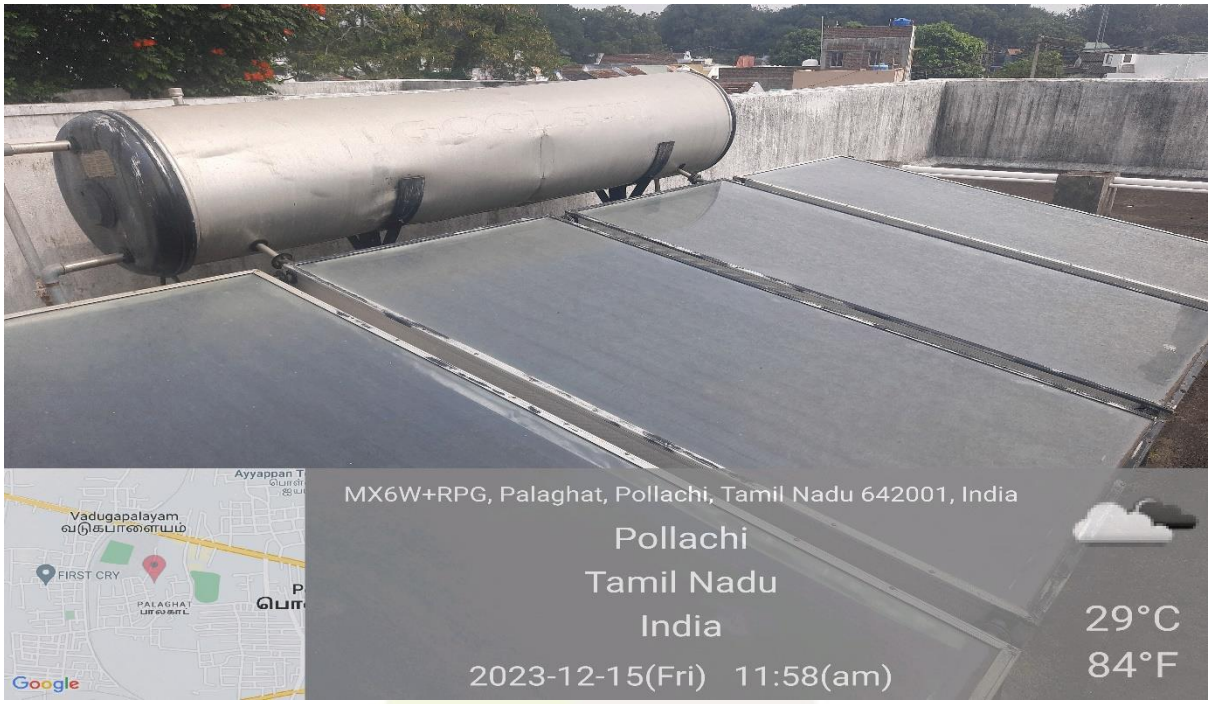
Solar Electrical Energy

- 90KW On Grid Roof Top Solar Power Plant
- Solar Power Generation from power plant-10,167 units
- Solar Street Lights -5 Nos
- Power of LED lamp-20watts
- Solar Power generation from Solar Street lights-438 units
- Total Solar power generation – 10,605 units

Solar Street Lights

Solar Water Heater

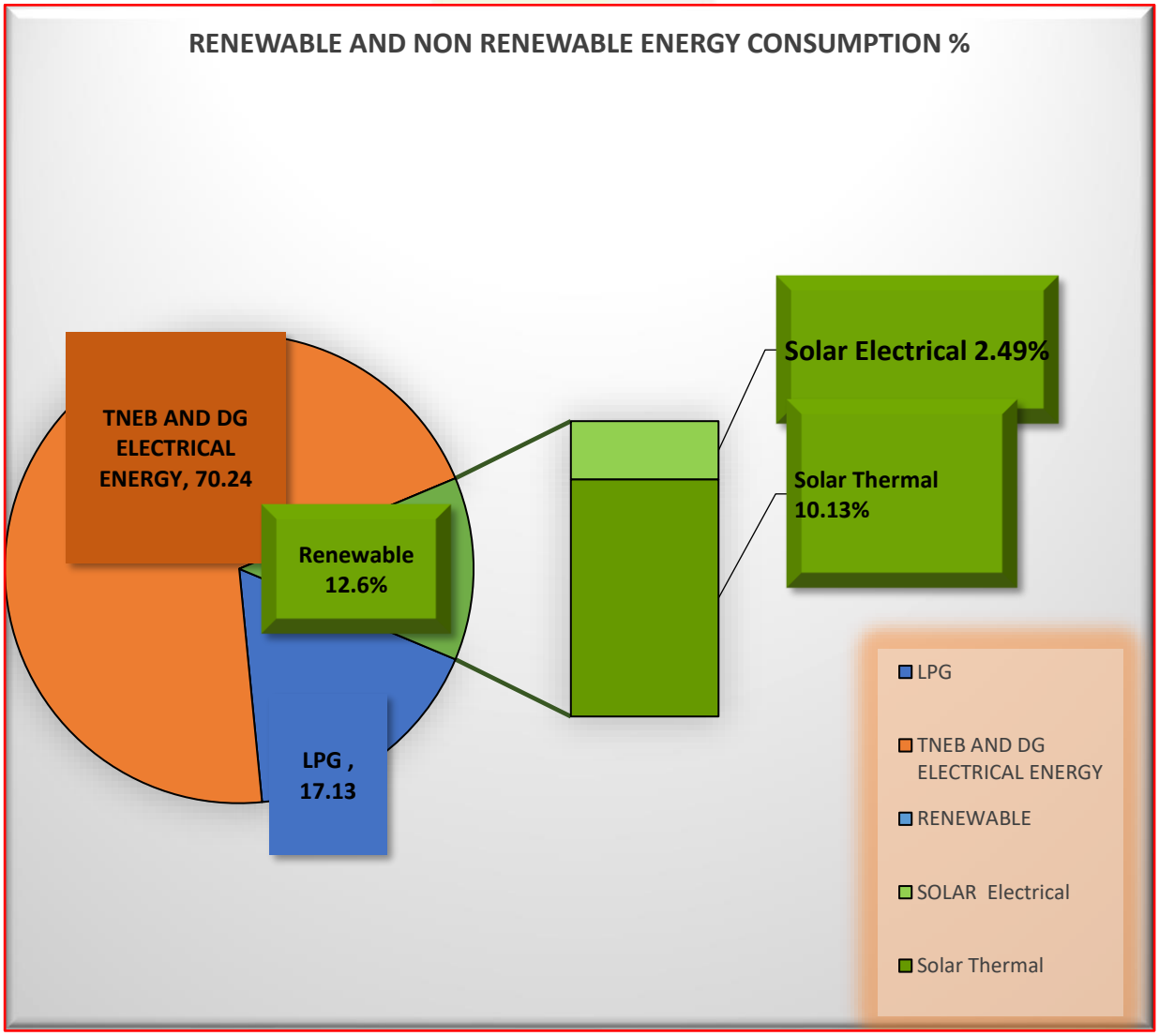
Total capacity of Solar Water Heaters-4,100 Litters Per Day



TOTAL ENERGY CONSUMPTION

Renewable and Non-Renewable(conventional) energy distribution

ENERGY CONSUMPTION	PERCENTAGE
NON RENEWABLE	
LPG	17.13
TNEB AND DG ELECTRICAL ENERGY	70.24
RENEWABLE	
Solar Electrical	2.49
Solar Thermal	10.13



The energy conservation measures followed

- High volume Low Speed fans are provided in the auditorium
- Maximum utilisation of day lights at auditorium, hostel and colleges
- Staff and Students are made aware of using public transport system
- Individual vehicle usage is reduced to the minimum level
- Periodical maintenance and overhauling of generators is being carried out
- The fans, lights, air-conditioners and other electronic and electrical equipment's are switched off when not in use.
- Lights and fans are switched off by the students whenever they are out of hostel rooms
- Replacing conventional electrical light fittings with energy efficient Light-Emitting Diode (LED) bulbs.
- Replacing old high energy consuming appliances with star rated energy efficient appliances.
- Computers are switched to sleep mode or hibernate mode automatically when not in use.
- At the end of every practical session, Computer monitors and UPS are switched off.
- Soft copies are maintained instead of hard copies, to reduce power consumption and paper.

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b) WASTE

Quantity of waste generated: -
Liquid Waste Generation

Waste water generation in the College - 16 KL /day
Waste water generation in the Hostel - 22 KL /day

Solid Waste Generation

College

- Biodegradable-–<1kg/day

Office

- Non-biodegradable –< 0.1kg/day

College Canteen

- Biodegradable –< 1 kg/day
- Non-biodegradable –<0.5kg/day
- Aluminium foil -–<0.1kg/day

Hostel

- Biodegradable (Food waste) - 10-15 kg/day
- Non-biodegradable – <0.5kg/day

Open area

- Biodegradable (Dry leaves)- 5-10 Kgs/Day

Plastic waste

- **Less than 50 grams. per day**

e-Waste

- **Less than 200 kgs/year**

Waste Management

Liquid waste Management

- Grey water from kitchen is used for gardening

Bio-degradable waste management

- Bio-Degradable and non-biodegradable waste are collected in separate bins provided.
- Dry leaves are collected separately, dumped in the pits and converted into Bio fertilizer
- Every Year around 600 Kgs Bio composts is produced

Plastic Waste Management

The college has been declared as a ‘Plastic Free’ zone.

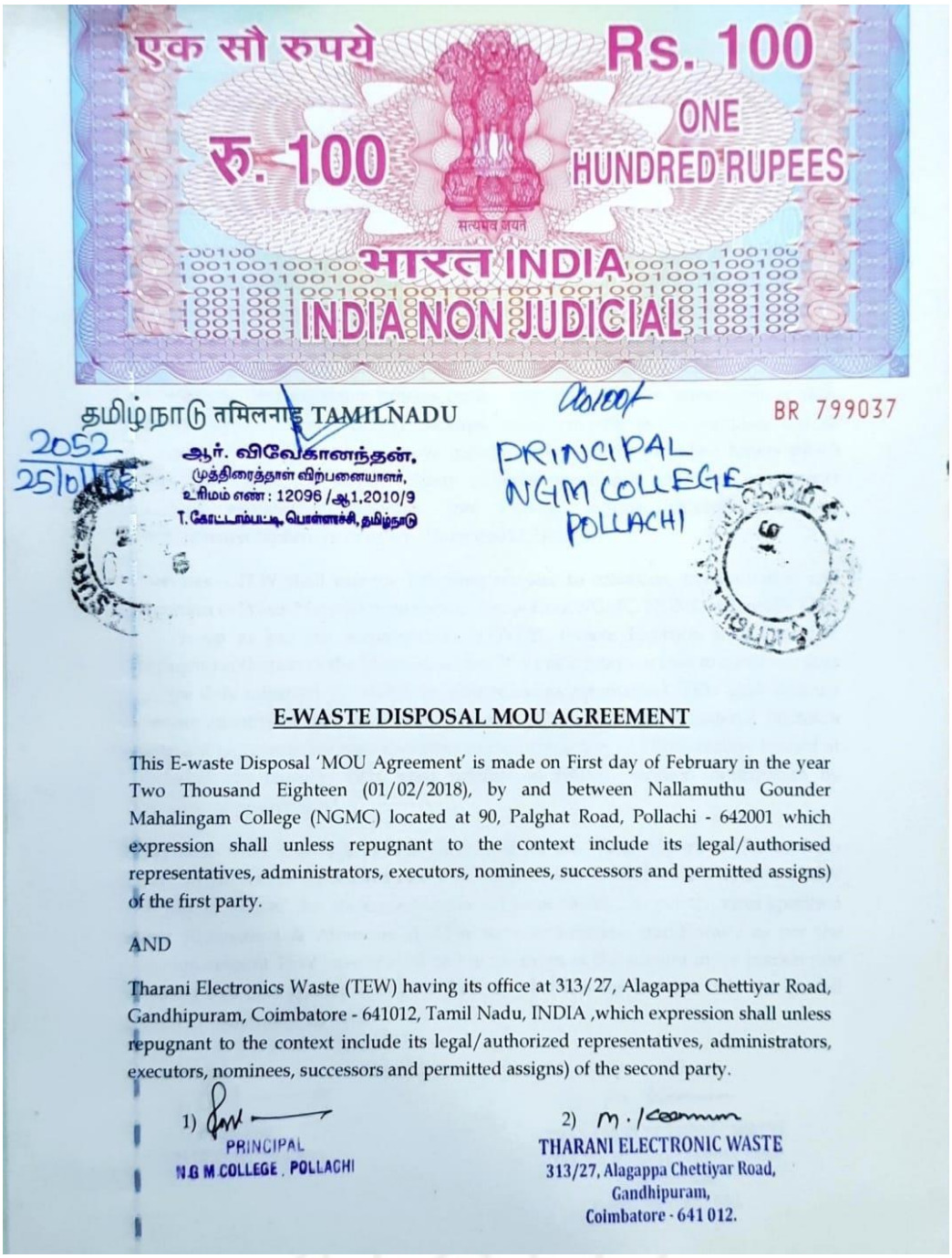
- Use of polythene bags, plastic cubs and laminated papers are prohibited.
- Students and staff are advised to bring cloth bags
- All the stake holders are motivated to use stainless steel water bottles and lunch boxes.
- Plastic utensils in the stores, canteen and hostel kitchen are replaced with stainless steel plates, tumblers etc
- Plastic waste that comes in through lab equipment’s package, empty chemical containers etc. are collected separately and disposed periodically for recycling.

Used Battery Management

- Used batteries are disposed through Buy back method

e-Waste Management

- All electronic machineries are purchased under Buy-Back agreement for proper disposal of e waste to recycler
- MOU signed with Tharani Electronics Waste, Coimbatore for proper disposal of E waste



एक सौ रुपये Rs. 100

रु. 100 ONE HUNDRED RUPEES

सत्यमेव जयते

भारत INDIA

INDIA NON JUDICIAL

தமிழ்நாடு तमिलनाडु TAMILNADU BR 799037

2052 25/01/18

ஆர். விவேகானந்தன்,
முத்திரைத்தாள் விற்பனையாளர்,
உரிமம் எண்: 12096 /ஆ1,2010/9
T. கோட்டாம்பட்டி, பொள்ளாச்சி, தமிழ்நாடு

Rs100/-

PRINCIPAL
NGM COLLEGE
POLLACHI

E-WASTE DISPOSAL MOU AGREEMENT

This E-waste Disposal 'MOU Agreement' is made on First day of February in the year Two Thousand Eighteen (01/02/2018), by and between Nallamuthu Gounder Mahalingam College (NGMC) located at 90, Palghat Road, Pollachi - 642001 which expression shall unless repugnant to the context include its legal/authorised representatives, administrators, executors, nominees, successors and permitted assigns) of the first party.

AND

Tharani Electronics Waste (TEW) having its office at 313/27, Alagappa Chettiyar Road, Gandhipuram, Coimbatore - 641012, Tamil Nadu, INDIA ,which expression shall unless repugnant to the context include its legal/authorized representatives, administrators, executors, nominees, successors and permitted assigns) of the second party.

1) PRINCIPAL
N.G.M.COLLEGE, POLLACHI

2) THARANI ELECTRONIC WASTE
313/27, Alagappa Chettiyar Road,
Gandhipuram,
Coimbatore - 641 012.

Other Solid Waste Management

- Solid wastes generated from damaged furniture are sent to waste wood collection centre. Useful furniture and other wooden materials are made from the waste
- Glass wastes are disposed periodically through municipal waste collection system.

Waste Reduction

- Students are instructed not to waste paper while writing examinations.
- Reusing one side paper
- Where ever possible, printing on both sides of papers
- In order to reduce the use of paper the following initiative were taken by E - Governance
    - Attendance
    - Payment of fees
    - Submission of e-assignment through email
    - Digitalisation of Staff profiles and details about students
    - E – Circular through SMS, WhatsApp or Email
  - Online Admission Process – Printing of applications reduced & submission of applications through admission portal.
  - All inter department communications are through intranet
  - Online exams are conducted to reduce the paper usage.

Waste Recycling

Recyclable papers are collected and kept and disposed as mixed waste to paper mills through authorized Vendors.

- The answer scripts after the publication of results are sent for recycling.
- e wastes are collected and sent to authorised recycler.

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d) Green Campus

Nallamuthu Gounder Mahalingam College, Pollachi being located in the regime surrounded by agriculture-based villages, naturally the institute is overwhelmed with the atmosphere of greenery. The Institution too does ever take meticulous efforts to maintain and retain the Nature given atmosphere with planting of new saplings The campus is lush green with gardens, lawns and plants wherever there is open space

- The eco-friendly ambience of the campus is a noteworthy feature of Nallamuthu Gounder Mahalingam College
- Green belt is developed in all possible open area are being converted into greenery
- The Green Society is maintaining a medicinal garden plant which is spread over 450 sqft area. Around 40 numbers of medicinal plants are there inside the campus
- Special initiatives are taken by the Green Society and new saplings are planted every year. Altogether, there are 1061 plants in the campus.
- The list of trees and the arrival of new saplings are recorded every year.

Routine Green Practices

- Every year, new tree saplings are planted inside the college campus.
- The Green campus drive is an initiative of the College to protect the environment.
- The Green Society of the college take special care to keep the campus neat and green.
- Environmental awareness programs are conducted regularly to spread the message of environment preservation.

GREEN BELT DEVELOPMENT

List of trees, shrubs and herbs in NGMC

	List of plants
1	*Abrus precatorious Linn. Herb*
2	*Abutilon indicumL. Sweet. shrub*
3	*Acacia meamsii tree*
4	*Acalypha chamaedrifolia (Lam.)MullArg. herb*
5	*Acalypha indica Linn.herb*
6	*Acalypha wilkesianaMuell.Arg.herb*
7	*Acanthospermum hispidum D.C. herb*
8	*Achras sapota Linn.tree*
9	*Achyranthes aspera Linn.herb*
10	*Aegle marmelosL.Corr.tree*
11	*Aerva javanica Pers. herb*
12	*Aerva lanataJuss.herb*
13	*Agave foetida(L.)* Haw. herb
14	*Albizia lebbeck (L)Benth.tree*
15	*Albizia amara (*Roxb.) B.Boivin Tree
16	*Alkamanda catharticaLinn.shruby climber*
17	*Aloe vera (L.) Burm.f. herb*
18	*Alstonia scholaris L. R.Br.tree*
19	*Alternanthera pungensKunth.herb*
20	*Alternanthera bettzickiana (Regel) G.Nicholsonherb*
21	*Alternanthera sessilis(L.) R. B rherb.*
22	*Amarantusblitum Linn. herb*
23	*Amaryllis carnea linn herb*
24	*Andrographispaniculata Nees herb*
25	*Annona squamosaLinn.tree*
26	*Araucaria heterophylla (Salisb) Franco.tree*
27	*Aristolochia bracteolate Lam. Her*
28	*Artocarpus heterophyllus Lam.tree*
29	*Asperagusracemosus Wilkd.* herb
30	*Asystasiagangetica(L.) T.Anderson* herb
31	*Axonopus compressus (SW) P.Beauv.* herb
32	*Azadiracta indicaA.Juss.* Tree
33	*Bambusa vulgaris* Schrad. tree
34	*Barleria cristata Linn.* Herb
35	*Bauhinia purpurea Linn.* Shrub
36	*Bauhinia racemosaLam.* shrub
37	*Boerhaevia diffusaLinn.* herb
38	*Boerhaavia erecta Linn.* Herb
39	*Bougainvillea spectabilis Willd* shrub.
40	*Brachiaria semiundulata (Hochst. ex A.Rich.) Stapf* herb
41	*Cajanus scarabaeoides (L.) Thouars* herb
42	*Calotropis gigantea R. Br.* shrub
43	*Canna indica* Linn herb
44	*Cardiospermum halicacabum Linn.herb*

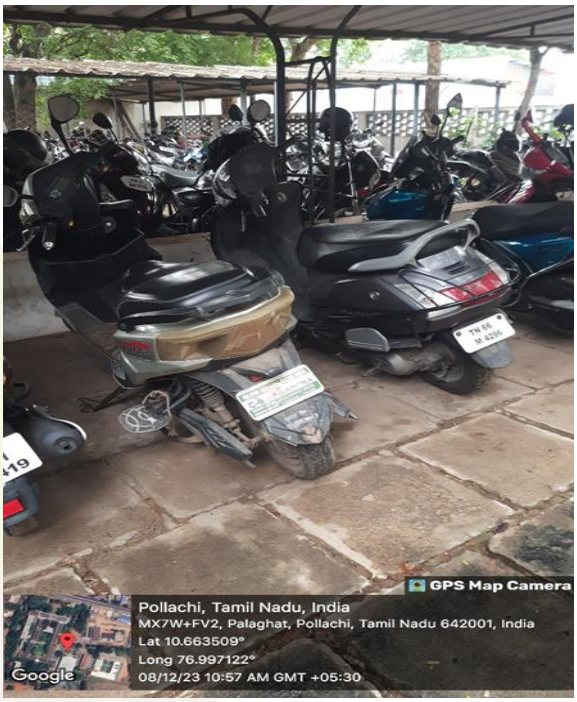
45	*Carica papaya Linn.tree*
46	*Cassia fistula Linn. Tree*
47	*Cassia occidentalis Linn shrub.*
48	*Celosia argenteaLinn.herb*
49	*Celosia cristataLinn.herb*
50	*Centella asiatica (Linn.)Urb. Herb*
51	*Chromolaena odorata* (L.) King & H.E. Robins. herb
52	*Cissus quadrangularis* Linn.herb
53	*Citrus aurantifolia* (Christm.) Swingle shrub
54	*Citharexylum spinosum* L
55	*Cleome viscosa Linn. Herb*
56	*Clitoria ternatea Linn. Herb*
57	*Coccinea grandis (L.) Voigt herb.*
58	*Cocos nucifera Linn.tree*
59	*Commelina benghalensis Linn.*
60	*Commelina diffusaBurm.f. herb*
61	*Corchorus olitoriusLinn.herb*
62	*Corchorus urticifolius Wight & Arn. Herb*
63	*Corchorus trilocularis L.herb*
64	*Corchorus tridens L.herb*
65	*Crateva roxburghiiR.Br.tree*
66	*Crinum viviparum(Lam.) R.Ansari&V.J.Nair herb*
67	*Crossandra infundibuliformis* (L.) Nees herb
68	*Crotalaria retusa Linn. Herb*
69	*Crotalaria verrucosaLinn.herb*
70	*Croton bonplandianusBaillon herb.*
71	*Cuscuta reflexaRoxb. Herb (parasitic)*
72	*Cycas circinalis Linn. Tree-Gymnosperm*
73	*Cycas revoluta Linn. Tree*
74	*Cymbopogon caesius(Hook. &Arn.) Stapf herb-grass*
75	*Cynodon dactylon(L.) Pers. Herb -grass*
76	*Cyperus rotundus Linn. Herb- grass*
77	*Cyperus iria Linn. Herb-grass*
78	*Dactyloctenium aegyptium (L.) P. Beauv.-herb-grass*
79	*Datura stramonium L.herb*
80	*Delonix regia (Hook.) Raf.tree.*
81	*Dendrophthoe falcata* (L.f.) Ettingsh shrub
82	*Dieffenbachia picta* Lodd. Herb
83	*Digitaria bicornis (Lam.) Roem. &Schult. herb*
84	*Dracaena marginata-coloroma Lam.tree monocot*
85	*Duranta repens Linn. shrub*
86	*Dypsislutescens, (H. Wendl.) Beentje& J. Drans tree*
87	Ehretia ovalifolia *Wight Tree*
88	*Echinochloacolona* (L.) Link. Herb grass
89	*Eleusineindica(L.) Gaertn. Herb grass*

90	*Erianthusrepens (Willd.) P. Beauv herb grass*
91	*Eucalyptus globulusLabill. tree*
92	*Euphorbia heterophylla Linn. Herb*
93	*Euphorbia hirtaLinn.herb*
94	*Evolvulus alsinoidesLinn.herb*
95	*Ficus benghalensis Linn. Tree*
96	*Ficus benjamina Linn. Tree*
97	*Ficus religiosaLinn.tree*
98	*Filicium decipiens (Wt. &Arn.) Thw. Tree*
99	*Geissaspis cristata Wight &Arn.herb*
100	*Glinus lotoides Linn.herb*
101	*Gmelina arborea Roxb.Tree*
102	*Gomphrena globosaLinn.herb*
103	*Gomphrena serrata Linn.herb*
104	*Grangeamaderaspatana (L.) Poiret herb*
105	*Gynandropsis pentaphylla DC herb*
106	*Hamelia patens Jacq. shrub*
107	*Hedyotis umbellata (L.) Lam. Herb*
108	*Heliconia rostrata Ruiz &Pavon shrub*
109	*Heliotropiumindicum Linn. herb*
110	*Hibiscus rosa-sinensis Linn. Shrub*
111	*Hibiscus vitifolius Linn herb*
112	*Hyptis suaveolens (L.) Poitier herb*
113	*Indigofera linnaei Ali. Herb*
114	*Indigofera tinctoria Linn. Herb*
115	*Ipomea marginata (l.) R. Br. Climber*
116	*Ipomoea quamoclit Linn.climber*
117	*Ixora coccineaLinn.shrub*
118	*Jasminumsambac(L.) Aiton climbing shrub.*
119	*Jatropha gossypifolia Linn. Shrub*
120	*Justicia adathoda Linn. Shrub*
121	*Justicia betonicaLinn.herb*
122	*Kedrostis foetidissimaJacq.Cogn. herb*
123	*Khaya senegalensis (Desr.) A. Juss. Tree*
124	*Lactuca serriolaLinn. Herb*
125	*Lantana camaraLinn.shrub*
126	*Leucaena leucocephala (Lam.) de wit. Tree*
127	*Leucas aspera (Willd.) Link herb*
128	*Magnolia champaca(L.) Baill. Ex Pierre tree*
129	*Mangifera indica Linn.tree*
130	*Marsilea quadrifoliata Linn.herb*
131	*Millingtonia hortensisLinn.tree*
132	*Mimosa pudica Linn.herb*
133	*Mimusops elengi Linn.tree*
134	*Morinda tinctoriaRoxb.tree*
135	*Morus indicaGriff.shrub*
136	*Mukia maderaspatana Linn.*

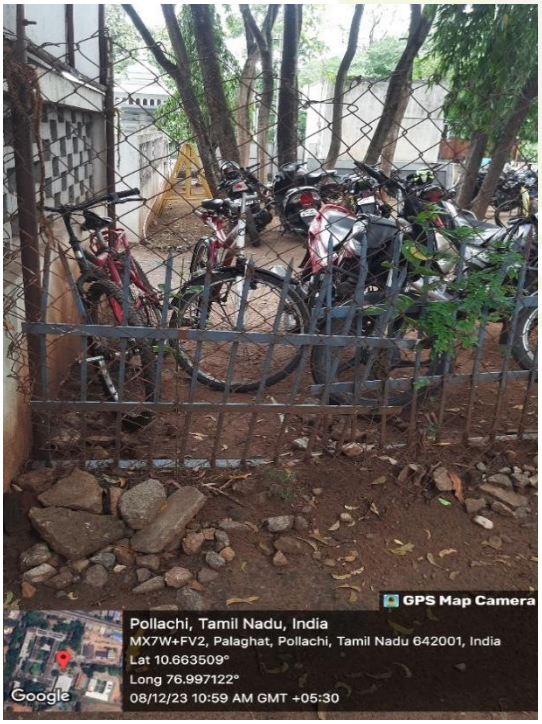
137	*Murraya koenigii (L.) Sprengel shrub*
138	*Musa paradisiaca Linn. Tree*
139	*Nerium oleander Linn. shrub*
140	*Ocimum basilicum Linn. Herb*
141	*Ocimum canum Sims.herb*
142	*Ocimum tenuiflorumLinn.herb*
143	*Opuntia stricta* (Haw.) Haw. herb
144	Oplismenus compositus (L.) P.Beauv. Grass
145	*Oroxylum indicum (L.) Benth. ex Kurz shrub*
146	*Oxalis corniculata Linn.herb*
147	*Panicum colonum Linn. Herb=grass*
148	*Panicum maximum Jacq. Herb – grass*
149	*Parthenium hysterophorus Linn. Herb*
150	*Passiflora foetida Linn. Climber*
151	*Pavoniao dorataWilld herb*
152	*Peltophorum pterocarpum (DC.) K.Heyne tree*
153	*Pergularia daemia (Forssk.) Chiov climber*
154	*Perotis indica(L.) Kuntze herb - grass*
155	*Phleum pretense Linn. Herb grass*
156	*Phoenix canariensisChabaud. Tree*
157	*Phoenix dactyliferaLinn.tree*
158	*Phyllanthus amarusSchum.herb*
159	*Phyllanthus emblica Linn. Tree*
160	*Phyllanthus maderaspatensisLinn.herb*
161	*Phyllanthus acidus (L.) Skeels.* tree
162	*Physalis peruviana Linn. herb*
163	*Pisonia alba Span. tree*
164	*Pithecellobium dulce (Roxb.) Benth.tree*
165	*Plumeria rubraLinn.tree*
166	*Polyalthia longifolia Hook.f. &Thoms.tree*
167	*Pongamia pinnata* (L.) Pierre.tree
168	*PortulacaoleraceaLinn..herb*
169	*Priva cordifolia (L.f.) Druce herb*
170	*Psidium guajava Linn. Tree*
171	*Pterocarpus marsupium* Roxburgh.tree
172	*Pterocarpus santalinus* L. f. Tree
173	*Quisqualisindica Linn. Climber*
174	*Ricinus communis Linn. Shrub*
175	*Roystonea regia (Kunth) O.F.Cook tree*
176	*Russelia equisetiformisSchlecht. & Cham. Herb*
177	*Sansevieria roxburghiana* Schult. &Schult.f. herb
178	*Santalum album Linn.tree*
179	*Senna siamea (Lam.) H.S.Irwin&barneby tree*
180	*Sida cordifolia Linn. Herb*
181	*Sida rhombifoliaLinn.herb*
182	*Simarouba glaucaDc.tree*
183	*Solanum nigrumLinn.herb*

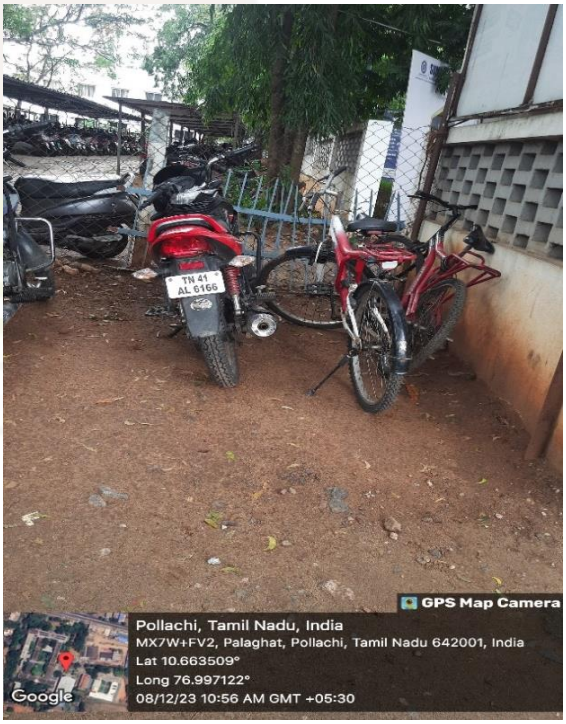
e) Green initiatives

Use of Battery Powered Vehicles

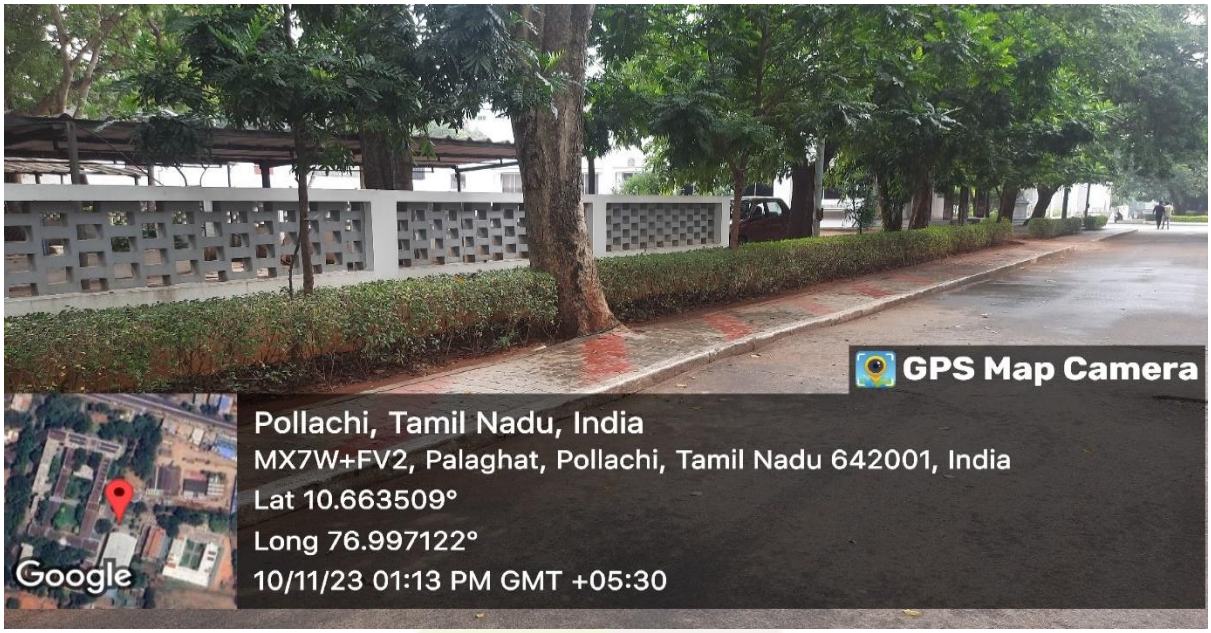


Use of Bicycles

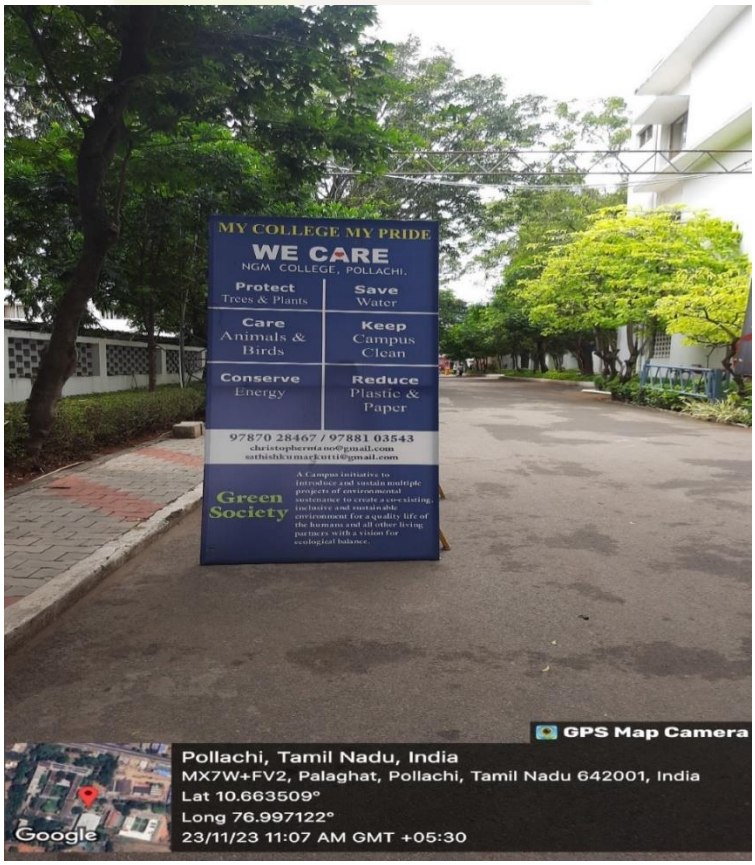




Pedestrian Friendly Pathways



Awareness on Reducing the Use of Plastic



f) Carbon Footprint

Release of carbon dioxide into the atmosphere is contributes to the global warming and increasing the pace of climate change. More trees in the campus will make a source of sink for the carbon dioxide and for other greenhouse gases.

Average distance travelled from home to college and back to home by four wheelers=16KM		
Average distance travelled from home to college and back to home by two wheelers=12 KM		
Average Four-Wheeler Fuel efficiency assumed = 20KM/ Lit		
Average Two-Wheeler Fuel efficiency assumed = 60KM/ Lit		
No of cars used by both students and staff =18		
No of two wheelers used by both students and staff =701		
No of College working days during the year 2022-2023-180 days		
No of days Hostel was occupied with students in the year 2022-2023-252 days		
Fuel (Petrol)consumption by two wheelers = No of days * No of vehicles*12/60	25,236	Lits
Fuel (Petrol)consumption by four wheelers = No of days * No of vehicles*16/20	2,592	Lits
Total quantity of petrol consumed by both two wheelers and four wheelers	27,828	Lits
Diesel consumed by DG sets during the year 2022-2023	3,620	Lits
Total Diesel consumption during the year 2022-2023	2532	Lits
LPG consumption in the college	38	kgs
LPG consumption in hostel mess and canteen	5,225	kgs
Total LPG consumption	5,263	KGS
Total Power consumed in the COLLEGE and HOSTEL in the year 2022-2023	2,87,718	units
GHG EMISSION		
Green House Gas emission due to petrol	65,674	Kge CO2
Green House Gas emission due to diesel	9,665	Kge CO2
Green House Gas emission due to LPG	15,947	Kge CO2
Green House Gas emission due to Grid power	2,04,279	Kge CO2
Total GHG emission per year	2,95,566	Kge CO2
Total GHG emission per year	**295.57**	**t CO2 eq**
GHG Captured by tress		
Fully grown-up trees inside the campus	1,061	trees
Greenhouse gas captured by trees	**22.28**	**t CO2 eq**
Net Green House Gas Emission per year	**273.29**	**t CO2 eq**
GHG AVOIDED due to usage of Renewable Energy		
Solar power generation from Solar power plant	10,167	units
Solar power generation for street lights	438	units
Total solar energy used	10,605	units
Greenhouse gas emission avoided due to solar power generation	7,530	KGs
Greenhouse gas emission avoided due to solar power generation	7.53	t CO2 eq
Total Solar Water Heater installed	4100	LPD
Greenhouse gas emission avoided due to Solar Water Heater	30.57	t CO2 eq
Total GHG avoided by usage of Renewable Energy	**38.10**	**t CO2 eq**

4.2 Consolidation of Audit Findings

We hope that students would have developed a greater appreciation and understanding of the impact of their actions on the environment. They have successfully been able to determine the impacts on the environment through the various auditing exercises. Participating in this green auditing procedure they have gained knowledge about the need of sustainability of the college campus. It will create awareness on the use of the Earth's resources in their home, college, local community and beyond.

General

- Green Policy is stated and objectives are reflected very well in the functioning of the college and Hostel
- Gardens inside the college premises are found to be well maintained.
- Campus is declared plastic free and lot of initiatives and innovative actions are taken to maintain the green policy.

Water

Total water consumption -69 KL/day

- Water management & waste water management strategies are well maintained.

Water Conservation

- Water taps are converted into press type to reduce water wastage

Rain water Harvest system

Appreciable work has been carried out for harvesting the rainwater both from college buildings & hostel for charging the ground water level and usage.

Energy

Total electrical energy consumption from TNEB Grid-2,87,718 units

Installed 90KW On Grid Roof Top Solar Power plant

Lot of Energy saving activities are implemented

More number of conventional tube lights are replaced with LED lights

Waste to Wealth

- Waste papers are collected in a arranged manner and send for recycling
- Quantity of Bio compost generated- 600 Kgs

Waste Recycle

- Paper wastes are collected in a proper manner and sent for recycling
- E - wastes are collected and kept separately to send to authorised recycler
- Plastic wastes generated from packing materials are collected separately and disposed properly to recycler-

Green Campus

- Tree cover of the college with respect to the stakeholder strength is excellent
- Regular planting of trees inside campus are to be continued
- Usage of water for gardens are to be measured

Carbon Foot Print

- Yearly Greenhouse gas emission is around 295.57 t CO_2

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4.3 Preparation of Action Plan

Policies referring to college's management and approach towards the use of resources need to be considered. The college green policy/environmental policy for its sustainable development to be monitored consciously.

4.4 Follow-up Action and Plans

Green Audits are exercises which generate considerable quantities of valuable management information. The time, effort and cost involved in this exercise is often considerable and in order to be able to justify this expenditure, it is important to ensure that the findings and recommendations of the audit are considered at the correct level within the organisation and that action plans and implementation programs result from the findings. Audit follow up is part of the wider process of continuous improvement.

4.5 Environmental Education

The following environmental education program may be implemented in the college before the next green auditing: -

- Training programs in Energy, Water & Waste management, Solids and e-Waste Management, Carbon footprint concepts, Awareness on Global warming, Net Zero Emission
- Increase the number of display boards on environmental awareness such as no wastage of food/water, switch off light and fan after use, plastic free campus etc.

Awareness on Carbon Consumption

- Students and Staff members are made totally aware of pollution caused by use of vehicles.
- The carbon consumption awareness programs on carbon emission at individual as well as social level will help to avoid air and noise pollution due to vehicles.

4.6 Recommendations

Common Recommendations

Targets shall be fixed to achieve Net Zero Emission

Criteria Wise Recommendations

Water

- Water consumption monitoring system has to be implemented in the college campus and hostel
- More awareness programs on water conservation to be conducted.

Energy

- Remaining old Tube lights shall be replaced with LED tube lights.
- Automatic power switch off systems may be introduced in the required lighting locations and high power consuming electrical equipment's.
- Conduct more awareness programs on importance of energy saving for students and staff

Waste

- Conduct exhibition of recyclable waste products
- Target for reduction in waste generation shall be planned
- Conversion of Used Cooking Oil into Bio diesel shall be given as project to students

Green Campus

- Keep continuously encouraging students for making the campus green
- Roof garden for main building shall be planned in future

Carbon footprint

- Fix a target to reduce Green House Gas emission for next Ten years

NALLAMUTHU GOUNDER MAHALINGAM COLLEGE

(Autonomous Institutions -Affiliated to Bharathiar University)

ISO 9001:2015 Certified and Re-Accredited with B Grade by NAAC

POLLACHI – 642 001

ENVIRONMENTAL AUDIT - 2022-2023

AUDIT/REPORT BY

ALCHEME GREEN ENERGY COMPANY
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ACKNOWLEDGEMENT

We at Alcheme Green Energy Company, Madurai are thankful to the principal for giving us the opportunity to carry out Environmental audit at Nallamuthu Gounder Mahalingam College, Pollachi -642 001. Alcheme Green Energy Company team is also thankful to all other supporting Officers / Staffs of the above institute for their wholehearted support, hospitality and the courtesy extended to the Audit team during the course of the visit.

The following officers from Alcheme Green Energy Company under the guidance of Mr. C. Jebaraj, B.Tech., have carried out the Environmental Audit.

Name	Qualifications	Certification Number
Mr. C. Jebaraj	B.Tech., PDGEM., DIS., BEE Certificated Energy Auditor, IRCA Certified Lead Auditor - OHSMS Internal Auditor-QMS CII Certified Carbon footprint Professional	EA-9847
Mr. S. Lakhsmana Kumaran	B.Tech., MSc., (Env. Science), MBA., IRCA Certified Lead Auditor ISO 14001 EMS	UID - 351851

The following staff from the Institution were participated in the audit process

Name	Qualification	Designation
Dr.R.Muthukumaran	M.A., M.Phil., B.Ed., Ph.D.,	Principal
Dr.R.ManickaChezhian	M.Sc., M.S., Ph.D.,	IQAC Co-Ordinator, Controller of Examinations, Head and Associate Professor, Department of Computer Science
Thiru.K.Srinivasan	M.C.A	Associate Professor Department of Computer Science ISO Co-Ordinator ERP Co-Ordinator
Dr.A.Srividhya	MA.M.Phil., Ph.D., NET	Assistant Professor Department of English
Dr.P.Archanaa	M.Com., M.Phil., PGDCA., Ph.D., M.A [Hindi]	Assistant Professor & Head UG Department of Commerce with Computer Applications
Ms.S.Shanthi	M.C.A., M.Phil.,	Assistant Professor, PG Department of Computer Sciene
Ms.P.Uma Maheswari	M.Sc., Computer Science	IQAC Member
Selvan. S. Kumaraguru	21CC135	III B.Com CA
Selvan. G.Vishnu Prakash	21CC150	III B.Com CA

Index

Sl. No.	Contents	Page No
	Summary of Environmental Audit	4
1.	Introduction	6
1.1	Environmental Policy	6
2.	Water	7
2.1	Water usage at college	7
2.2	Water usage at hostel	8
3.	Electrical Energy	9
3.1	TNEB Grid Electrical Energy	9
3.2	Diesel Generator Electrical Energy	9
4.	Fuel Consumption	9
4.1	LPG	9
5.	Waste Generations and Management	10
5.1	Liquid and Solid Waste Generation	10
5.2	Waste Management	10
5.2.1	Liquid Waste Management	10
5.2 .2	Bio degradable Waste Management	10
5.2.3	Plastic Waste Management	11
5.2.4	Used Battery Management	11
5.2.5	e-Waste Management	11
5.2.6	Other solid waste management	13
6.	Pollution abatement measures	13
6.1	Waste Reduction	13
6.2	Waste Recycling	13
6.3	Waste Reuse	14
6.4	Waste to wealth	14
6.5	Water Conservation	14
6.6	Energy Conservation	14
7.	Greenbelt Development	15
8.	Rainwater Harvesting	17
9	Ambient Air	18
9.1	Greenhouse Gas Emission	18
9.2	Ambient Air Quality	19
9.3.	Noise Level	20
10.	Recommendations	21

Summary of Environment Audit

Environment audit of Nallamuthu Gounder Mahalingam College and its Hostel was carried by Alcheme Green Energy Company. Audit team has gone through the data related to Water and Electrical Energy, Waste generation, Waste Management, Waste Recycling and Reuse, Green Belt Development of the Institution both inside and outside the campus. The team also carried out the study of Pollution abatement measures, Rainwater harvesting, Water and Energy Conservation measures taken to reduce the pollution, noise level, green house emission and maintain Ambient Air quality

During the visit it was observed that cleanliness in the campus is well maintained through proper disposal of wastes, utilization of eco-friendly supplies and effective recycling program. The concept of eco-friendly culture is disseminated among the students through various seminars/workshops and community-oriented programs. The Institution strictly follows reduce, reuse and recycle method to limit energy usage and partially replace non-renewable energy sources with renewable energy resources. The environment audit report is a very powerful and valuable communications tool to use while working with various stakeholders who need to be convinced that systems and procedures in place are suited to cope with natural changes and modifications.

It is hoped that the results presented in the environment audit report will serve as a guide for educating the college community on the existing environment related practices and resource usage at the college as well as spawn new activities and innovative practices.

The audit outputs and recommendations are summarised as follows:

Noteworthy activities

- Installation of 90KW Solar Power plant
- MOU with Tharani Electronics Waste, Coimbatore for proper disposal of E waste
- Clean, Green and plastic free campus
- Rainwater Collection arrangement to open well
- Solar Water Heater system at Hostels and utilisation hot water at Hostel Kitchen

The audit outputs and recommendations are summarised as follows:

- Air pollution impact on Ambient Air quality is negligible since the quantity of fuel used for combustion in the institution is very less
- Noise levels inside the campus are within the prescribed limit.
- Lot of initiatives are taken to conserve Water and Energy by the Institution.

- Total water consumption for Nallamuthu Gounder Mahalingam College and Hostel –69 KL/Day
- Electrical Energy consumption from TNEB GRID alone –2,87,718 units
- Total Green House Gas Emission is 295.57 t CO_2e
- Green House gas reduction due to grown up trees is 22.28 t CO_2 e
- Net Green House Gas emission is 273.29 t CO_2 e

We are happy to submit this detailed Environmental audit report to the Nallamuthu Gounder Mahalingam College

For Alcheme Green Energy Company

Madurai

1. Introduction

1.1Environmental Policy

Nallamuthu Gounder Mahalingam College has well formulated Environmental Policy to guide all its activities.

The main objectives are as follows:

- To promote green growth, create green jobs and maintain green infrastructure
- To execute “Reduce, Reuse, Recycle and Re- earth “towards waste management, environmental protection and sustainable future
- To reduce potable water consumption
- To create environmental awareness among all the stakeholders of the institution
- To assess and regulate environmental practices of the institution periodically

The Institution vouchsafes:

- Its commitment to sustainability and environmental management
- It reiterates the stand that managing environmental issues is a high priority for the College
- Its commitment to prevent pollution and to continuously improve upon environmental protection.
- A commitment to create environmental awareness

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2. WATER

2.1 Water Usage at Nallamuthu Gounder Mahalingam College

Total number of students studied during the academic year 2022-2023: 5031

Teaching & non-Teaching staff in the institution during the academic year 2022-2023:180

Total number of stake holders: 5211

Water for college and hostel

Municipal water-3,000 litres/day

Borewell water- 66,000 litres/day

Total water usage -69,000 litres/day

Main water uses in the College campus are Drinking, Rest room, Canteen and Lab

Water usage in the College- 39 KL / Day

Water usage per day per stakeholder in the college – 7.48 litres

Water usage at college

Sl. No	Place	Water usage Quantity Litres / Day
1	Drinking	10,000
2	Rest room	12,000
3	Canteen	2,000
4	Lab	2,000
5	Garden	13,000
	Total	**39,000**

Waste water generation in the college – 16 KL/day

2.2 Water usage at Hostel

Number of students and staff residing in the hostel in the year 2022-2023: 251

Main water uses in the Hostel are Drinking, Washing of clothes, Cooking & Vessel cleaning and for Rest room

Water usage at Hostel - 30 KL / Day

Water usage at Hostel

Sl. No	Place	Water usage Quantity Litres / Day
1	Drinking	750
2	Cooking	1,250
3	Rest room	10,000
4	Bathing	5,000
5	Clothes washing	5,000
6	Vessel Cleaning	2,000
7	Garden	6,000
	Total	30,000

Waste water generation in the Hostel – 22 KL /day

3. Electrical Energy

3.1 TNEB Grid Electrical Energy Consumption: 2022-2023

ELECTRICAL ENERGY CONSUMPTION IN THE COLLEGE AND HOSTEL

Sl. No	PLACE	SERVICE NUMBER	UNITS CONSUMED
1	COLLEGE	03 386 007 123	248939
2	HOSTEL	03 386 005 1053	38779
	TOTAL		287718

3.2 Diesel Generator Electrical Energy Consumption: 10,860 units

Total electrical energy consumption

Sl. No	SOURCE	UNITS CONSUMED
1	TNEB	287718
2	DIESEL GENERATOR	10,860
	Total	298578

Total Electrical Energy consumption from TNEB grid and DG in the College and Hostel 2,98,578 units

Electrical Energy consumption per stakeholder per year – 57.3 units/year

4. FUEL CONSUMPTION

4.1 LPG

LPG gas is used in the hostel for cooking and used in the college lab for heating

LPG cylinders used- commercial cylinders of 19 kgs capacity

- LPG consumption in the hostel mess during the year 2022-2023- 275cylinders
- LPG consumption in the college during the year 2022-2023- 2 cylinder.
- Total LPG consumption during the year 2022-2023- 5,263 KGs (277 Cylinders)

5. Waste Generations and Management

5.1 Liquid and Solid Waste Generation

Waste water generation in the College - 16 KL /day

Waste water generation in the Hostel - 22 KL /day

College

- Biodegradable-–<1kg/day

Office

- Non-biodegradable –< 0.1kg/day

College Canteen

- Biodegradable –< 1 kg/day
- Non-biodegradable –<0.5kg/day
- Aluminium foil -–<0.1kg/day

Hostel

- Biodegradable (Food waste) - 10-15 kg/day
- Non-biodegradable – <0.5kg/day

Open area

- Biodegradable (Dry leaves)- 5-10 Kgs/Day

Plastic waste

- **Less than 50 grams. per day**

e-Waste

- **Less than 200 kgs/year**

5.2 Waste Management

5.2.1 Liquid waste Management

- Grey water from kitchen is used for gardening

5.2.2 Bio-degradable waste management

- Bio-Degradable and non-biodegradable waste are collected in separate bins provided.
- Dry leaves are collected separately, dumped in the pits and converted into Bio fertilizer
- Every Year around 600 Kgs Bio compost is produced

5.2.3 Plastic Waste Management

The college has been declared as a 'Plastic Free' zone.

- Use of polythene bags, plastic cubs and laminated papers are prohibited.
- Students and staff are advised to bring cloth bags
- All the stake holders are motivated to use stainless steel water bottles and lunch boxes.
- Plastic utensils in the stores, canteen and hostel kitchen are replaced with stainless steel plates, tumblers etc
- Plastic waste that comes in through lab equipment's package, empty chemical containers etc. are collected separately and disposed periodically for recycling.

5.2.4 Used Battery Management

- Used batteries are disposed through Buy back method

5.2.5 e-Waste Management

- All electronic machineries are purchased under Buy-Back agreement for proper disposal of e waste to recycler
- MOU signed with Tharani Electronics Waste, Coimbatore for proper disposal of E waste

தமிழ்நாடு तमिलनाडु TAMILNADU

BR 799037

2052
25/01/18

ஆர். விவேகானந்தன்.
முத்திரைத்தாள் விற்பனையாளர்,
உரிமம் எண் : 12096 /ஆ1,2010/9
T. கோட்டாம்பட்டி, பொள்ளாச்சி, தமிழ்நாடு

Rs.100/-

PRINCIPAL
NGM COLLEGE
POLLACHI

E-WASTE DISPOSAL MOU AGREEMENT

This E-waste Disposal 'MOU Agreement' is made on First day of February in the year Two Thousand Eighteen (01/02/2018), by and between Nallamuthu Gounder Mahalingam College (NGMC) located at 90, Palghat Road, Pollachi - 642001 which expression shall unless repugnant to the context include its legal/authorised representatives, administrators, executors, nominees, successors and permitted assigns) of the first party.

AND

Tharani Electronics Waste (TEW) having its office at 313/27, Alagappa Chettiyar Road, Gandhipuram, Coimbatore - 641012, Tamil Nadu, INDIA ,which expression shall unless repugnant to the context include its legal/authorized representatives, administrators, executors, nominees, successors and permitted assigns) of the second party.

1) PRINCIPAL
N.G.M.COLLEGE, POLLACHI

2) M./Common
THARANI ELECTRONIC WASTE
313/27, Alagappa Chettiyar Road,
Gandhipuram,
Coimbatore - 641 012.

5.2.6 Other Solid Waste Management

- Solid wastes generated from damaged furniture are sent to waste wood collection centre. Useful furniture and other wooden materials are made from the waste
- Glass wastes are disposed periodically through municipal waste collection system.

6. Pollution abatement measures

6.1 Waste Reduction

- ❖ Students are instructed not to waste paper while writing examinations.
- ❖ Reusing one side paper
- ❖ Where ever possible, printing on both sides of papers
- ❖ In order to reduce the use of paper the following initiative were taken by E - Governance
    - Attendance
    - Payment of fees
    - Submission of e-assignment through email
    - Digitalisation of Staff profiles and details about students
    - E – Circular through SMS, WhatsApp or Email
- Online Admission Process – Printing of applications reduced & submission of applications through admission portal.
- All inter department communications are through intranet
- Online exams are conducted to reduce the paper usage.

6.2 Waste Recycling

Recyclable papers are collected and kept and disposed as mixed waste to paper mills through authorized Vendors.

- The answer scripts after the publication of results are sent for recycling.
- e wastes are collected and sent to authorised recycler.

6.3 Waste Reuse

- Reuse one sided paper
- Reuse Envelopes

6.4 Waste to wealth

- Dry leaves are converted into bio fertilizer

6.5 Water Conservation initiatives

- Water taps are changed to push type to reduce the wastage of water
- Periodical preventive maintenance is carried out to avoid leakages

6.6 Energy conservation activities followed

- High volume Low Speed fans are provided in the auditorium
- Maximum utilisation of day lights at auditorium, hostel and colleges
- Staff and Students are made aware of using public transport system
- Individual vehicle usage is reduced to the minimum level
- Periodical maintenance and overhauling of generators are being carried out
- The fans, lights, air-conditioners and other electronic and electrical equipment's are switched off when not in use.
- Lights and fans are switched off by the students whenever they are out of hostel rooms
- Replacing conventional electrical light fittings with energy efficient Light-Emitting Diode (LED) bulbs.
- Replacing old high energy consuming appliances with star rated energy efficient appliances.
- Computers are switched to sleep mode or hibernate mode automatically when not in use.
- At the end of every practical session, Computer monitors and UPS are switched off.
- Soft copies are maintained instead of hard copies, to reduce power consumption and paper.

7. Greenbelt Development

Nallamuthu Gounder Mahalingam College, Pollachi being located in the regime surrounded by agriculture-based villages, naturally the institute is overwhelmed with the atmosphere of greenery. The Institution too does ever take meticulous efforts to maintain and retain the Nature given atmosphere with planting of new saplings The campus is lush green with gardens, lawns and plants wherever there is open space

- The eco-friendly ambience of the campus is a noteworthy feature of Nallamuthu Gounder Mahalingam College
- Green belt is developed in all possible open area are being converted into greenery
- The Green Society is maintaining a medicinal garden plant which is spread over 450 sqft area. Around 40 numbers of medicinal plants are there inside the campus
- Special initiatives are taken by the Green Society and new saplings are planted every year. Altogether, there are 1061 plants in the campus.
- The list of trees and the arrival of new saplings are recorded every year.

Routine Green Practices

- Every year, new tree saplings are planted inside the college campus.
- The Green campus drive is an initiative of the College to protect the environment.
- The Green Society of the college take special care to keep the campus neat and green.
- Environmental awareness programs are conducted regularly to spread the message of environment preservation.

GREEN BELT DEVELOPMENT

8.Rainwater Harvesting

At Nallamuthu Gounder Mahalingam College, rainwater harvesting is done effectively to enhance the ground water level. The institution has rainwater harvesting pits at various locations and they are being maintained properly. The water drained during the rainy season is allowed to flow into the pits constructed in various places inside the campus including the Hostel Premises.

Rainwater harvest area covered in the college -45,799 sqft
Rainwater harvest area covered in the hostel- 16,276 Sqft

In addition, all the rainwater from open floor area is collected through Rainwater collection channel and directed to open well

Excellent collection system for effective utilisation of rainwater

9. AMBIENT AIR

9.1 Green House Gas Emission

Release of carbon dioxide into the atmosphere is contributes to the global warming and increasing the pace of climate change. More trees in the campus will make a source of sink for the carbon dioxide and for other greenhouse gases

Average distance travelled from home to college and back to home by four wheelers=16KM		
Average distance travelled from home to college and back to home by two wheelers=12 KM		
Average Four-Wheeler Fuel efficiency assumed = 20KM/ Lit		
Average Two-Wheeler Fuel efficiency assumed = 60KM/ Lit		
No of cars used by both students and staff =18		
No of two wheelers used by both students and staff =701		
No of College working days during the year 2022-2023-180 days		
No of days Hostel was occupied with students in the year 2022-2023-252 days		
Fuel (Petrol)consumption by two wheelers = No of days * No of vehicles*12/60	25,236	Lits
Fuel (Petrol)consumption by four wheelers = No of days * No of vehicles*16/20	2,592	Lits
Total quantity of petrol consumed by both two wheelers and four wheelers	27,828	Lits
Diesel consumed by DG sets during the year 2022-2023	3,620	Lits
Total Diesel consumption during the year 2022-2023	2532	Lits
LPG consumption in the college	38	kgs
LPG consumption in hostel mess and canteen	5,225	kgs
Total LPG consumption	5,263	KGS
Total Power consumed in the COLLEGE and HOSTEL in the year 2022-2023	2,87,718	units
GHG EMISSION		
Green House Gas emission due to petrol	65,674	Kge CO2
Green House Gas emission due to diesel	9,665	Kge CO2
Green House Gas emission due to LPG	15,947	Kge CO2
Green House Gas emission due to Grid power	2,04,279	Kge CO2
Total GHG emission per year	2,95,566	Kge CO2
Total GHG emission per year	**295.57**	**t CO2 eq**
GHG Captured by tress		
Fully grown-up trees inside the campus	1,061	trees
Greenhouse gas captured by trees	**22.28**	**t CO2 eq**
Net Green House Gas Emission per year	**273.29**	**t CO2 eq**
GHG AVOIDED due to usage of Renewable Energy		
Solar power generation from Solar power plant	10,167	units
Solar power generation for street lights	438	units
Total solar energy used	10,605	units
Greenhouse gas emission avoided due to solar power generation	7,530	KGs
Greenhouse gas emission avoided due to solar power generation	7.53	t CO2 eq
Total Solar Water Heater installed	4100	LPD
Greenhouse gas emission avoided due to Solar Water Heater	30.57	t CO2 eq
Total GHG avoided by usage of Renewable Energy	**38.10**	**t CO2 eq**

9.2 Ambient Air Quality

Flue gas emission sources

- LPG combustion at hostel, canteen and labs
- Diesel generator at College and Hostel

Fuel consumption per year

- LPG – 5,263 Kgs
- Diesel for generator – 3,620 litres

Fuel consumption per day

- College workings days -180
- Hostel occupied with students -252 days
- Average LPG consumption per day- 20.88 kgs
- Average diesel consumption per day-14.36 litres

Combustion of LPG is NOT CONTINUOUS process

DIESEL Generator will run only when TNEB grid power fails

Considering the above situation, the quantity of flue gas emission and the impact on ambient air quality from the above combustions are negligible

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9.3 Noise level

Noise level inside the campus

Sl. No	Location	Max value in dB	Average Value in dB
1	Near Main Entrance	70.6	66.4
2	Class room	57.2	53.1
3	Library	51.3	46.7
4	Near DG	59.9	53.9
5	Hostel	59.0	53.8
6	Office	56.9	55.3

- Diesel Generators (DG) sets do not run on a continuous basis. Only during power failure, DG sets are operated during the working hours of the College.
- Generally, Power failure occurs for a very short time period.
- During planned shutdown hours, DGs run continuously based on the load
- Noise disturbance due to DG set is negligible.

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10. Audit Findings & Recommendations

Noteworthy activities

- Utilisation of Green Energy from 90KW Solar Power Plant
- MOU with Tharani Electronics Waste, Coimbatore for proper disposal of E waste
- Clean, Green and plastic free campus
- Optimum utilisation of Water
- Hot water from Solar water heaters is utilised in the Hostel Kitchen to reduce the LPG consumption

Findings

- Air pollution impact on Ambient Air quality is negligible since the quantity of fuel used for combustion in the institution is very less
- Noise levels inside the campus are within the prescribed limit.
- Lot of initiatives are taken to conserve Water and Energy by the Institution.
- Total water consumption for Nallamuthu Gounder Mahalingam College and Hostel –69KL/Day
- Electrical Energy consumption from TNEB GRID alone –2,87,718 units
- Total Green House Gas Emission is 295.57 t CO_2e
- Green House gas reduction due to grown up trees is 22.28 t CO_2 e
- Net Green House Gas emission is 273.29 t CO_2 e
- Tree cover of the college with respect to the stakeholder strength is excellent
- Regular planting of trees inside campus are to be continued
- Water usage per day per stakeholder in the college 7.48 litres.
- Water consumption per day per stakeholder in the hostel -119.5 litres
- Electrical Energy consumption per stakeholder per year – 57.3 units/year

Recommendations

- Waste water generated from college rest room shall be separated as grey and septic water and grey water shall be used for garden or reused for toilet flushing after treatment
- Training programs in Water & Waste management, Solids and e-Waste Management, Carbon footprint concepts, Awareness on Global warming & Climate change, E -vehicle usage and Alternative Fuel usage shall be given

- Increase the number of display boards on environmental awareness such as no wastage of food, switch off light and fan after use etc

NALLAMUTHU GOUNDER MAHALINGAM COLLEGE

(Autonomous Institutions -Affiliated to Bharathiar University)

ISO 9001:2015 Certified and Re-Accredited with "B "Grade by NAAC

POLLACHI – 642 001

ENERGY AUDIT REPORT - 2022-2023

AUDIT / REPORT BY

ALCHEME GREEN ENERGY COMPANY
73977 64900
99948 45487
info@alchemegreenenergy.com

ACKNOWLEDGEMENT

We at ALCHEME GREEN ENERGY COMPANY, Madurai are thankful to the principal for giving us the opportunity to carry out Energy audit at Nallamuthu Gounder Mahalingam College, Pollachi -642 001. Alcheme Green Energy Company team is also thankful to all other supporting Officers / Staffs of the above institute for their wholehearted support, hospitality and the courtesy extended to the Audit team during the course of the visit.

The following officers from Alcheme Green Energy Company under the guidance of Mr. C. Jebaraj, B.Tech., have carried out the Energy Audit.

Name	Qualifications	Certification Number
Mr. C. Jebaraj	B.Tech., PDGEM., DIS., BEE Certificated Energy Auditor, IRCA Certified Lead Auditor - OHSMS Internal Auditor-QMS CII Certified Carbon footprint Professional	EA-9847
Mr. S. Lakhsmana Kumaran	B.Tech., MSc., (Env. Science), MBA., IRCA Certified Lead Auditor ISO 14001 EMS	UID - 351851

The following staff from the Institution participated in the audit process

Name	Qualification	Designation
Dr.R.Muthukumaran	M.A., M.Phil., B.Ed., Ph.D.,	Principal
Dr.R.ManickaChezhian	M.Sc., M.S., Ph.D.,	IQAC Co-Ordinator, Controller of Examinations, Head and Associate Professor, Department of Computer Science
Thiru.K.Srinivasan	M.C.A	Associate Professor Department of Computer Science ISO Co-Ordinator ERP Co-Ordinator
Dr.A.Srividhya	MA.M.Phil., Ph.D., NET	Assistant Professor Department of English
Dr.P.Archanaa	M.Com., M.Phil., PGDCA., Ph.D., M.A [Hindi]	Assistant Professor & Head UG Department of Commerce with Computer Applications
Ms.S.Shanthi	M.C.A., M.Phil.,	Assistant Professor, PG Department of Computer Sciene
Ms.P.Uma Maheswari	M.Sc., Computer Science	IQAC Member
Selvan. S. Kumaraguru	21CC135	III B.Com CA
Selvan. G.Vishnu Prakash	21CC150	III B.Com CA

Summary of Audit

Energy audit of Nallamuthu Gounder Mahalingam College and Hostel was carried out by Alcheme Green Energy Company. The Audit team has gone through the data related to TNEB GRID Electrical Energy, Renewable Energy, Diesel and LPG consumption. A study was also carried out on Renewable energy utilisation and Energy Conservation measures to reduce energy consumption.

During the visit it was observed that Nallamuthu Gounder Mahalingam College strictly follows reduce, reuse and recycle policy to limit energy usage. The concept of energy conservation is disseminated among the students and staffs through various seminars/workshops and training programs.

We hope that the results presented in the energy auditing report will serve as a guide for the institution on the existing energy related practices and resource usage.

Note Worthy

Installation of 90KW On Grid Roof Top Solar Power Plant to reduce conventional energy usage

The audit outputs and recommendations are summarised as follows

- Annual electricity consumption from TNEB GRID is around 2,87,718units during the year 2022-2023.
- Electrical Energy consumption from Diesel Generator – 10,860 units.
- Solar Power Electrical energy consumption- 10,167 units
- Total Electrical Energy consumption – 3,08,745 units
- LPG consumption - 5263 Kgs
- Solar Water heater installed capacity 4,100 LPD
- High Volume low speed fans are provided at auditorium to reduce energy consumption
- BEE Star rated appliances are being used.

ENERGY SAVING POTENTIALS

1.**Conventional tube lights shall be replaced with LED tube lights**

Replacement cost for 50 LED tube lights-Rs 180x50= RS 9,000
Cost savings for 50 LED tube lights-Rs 19,200 / year
Energy savings for 50 LED tube lights-2,000 units/ year
Payback period-5.6 months

2.**Conventional fans shall be replaced with energy efficient fans**

Replacement cost for 100 Nos. ENERGY EFFICIENT FAN-Rs 2,800x100= RS 2,80,000
Cost savings for 100 Nos. ENERGY EFFICIENT FAN -Rs 1,45,900/ year
Energy savings for 100 Nos. ENERGY EFFICIENT FAN -15,200 units/ year
Payback period 23 months

- Remaining Conventional Tube lights shall be replaced with LED tube lights in a phased manner
- 5 Star rated Energy efficient electrical equipment shall be procured in future
- Automatic power switch off systems may be introduced in the required areas

We are happy to submit this detailed energy audit report to the Nallamuthu Gounder Mahalingam College

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Alcheme Green Energy Company
Madurai

Sl. No.	Content	Page No.
	Summary of Energy Audit	3
1	Service connection, Tariff, Load and Energy consumption details	6
2	Electrical Energy consumption in the college service number 03 386 007 123	7
3	Electrical Energy consumption in the hostel service number 03 386 005 1053	8
4	TNEB Grid Energy consumption in College and Hostel	9
5	DG set Electrical Energy consumption	10
6	Total Conventional Electrical Energy Consumption details	11
7	Renewable Electrical Energy-Solar (Power Plant & Street Lights)	12
8	Conventional Thermal Energy consumption – Liquified Petroleum Gas (LPG)	15
9	Renewable Thermal Energy-Solar Water Heater	16
10	Total Energy consumption	17
11	Renewable and conventional energy distribution	18
12	Energy Conservation measures followed	19
13	Major Electrical load details	20
14	Common observation and feedback	22
15	Audit Findings and Energy saving potential	24

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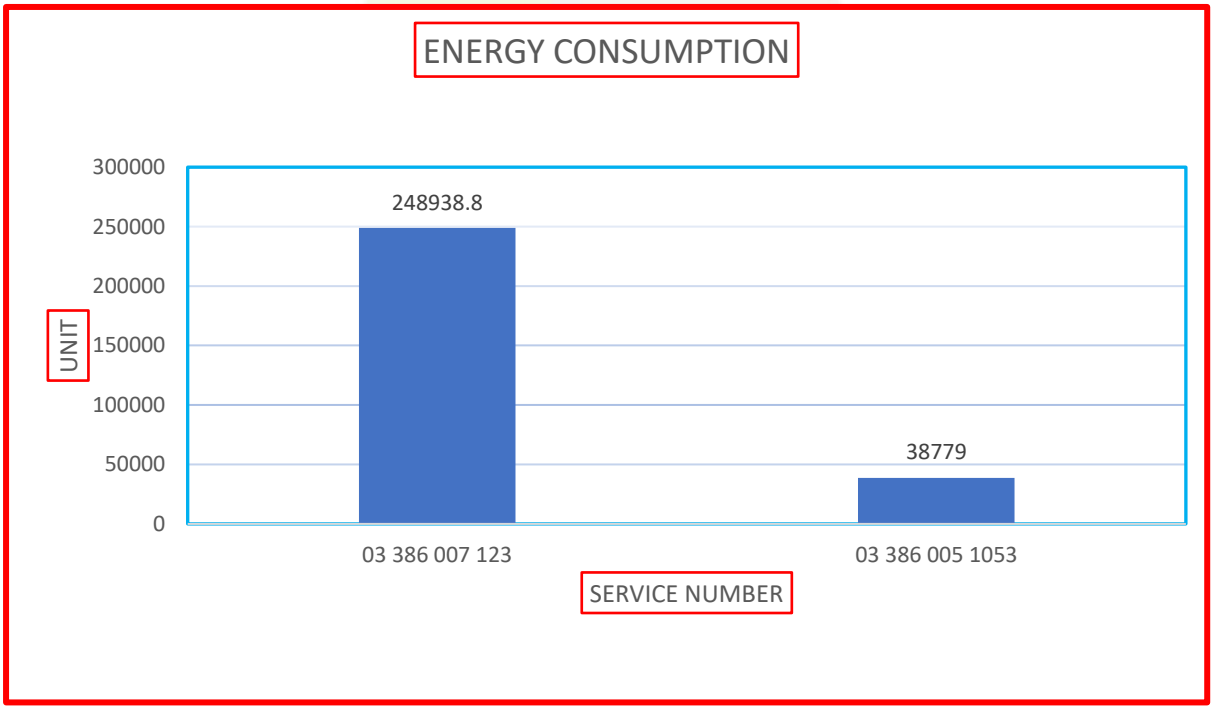
1. Service connection, Tariff, Load and Energy consumption details

TNEB SERVICE CONNECTION DETAILS				
Sl. No	**Service Number**	**BLOCK/BUILDING NAME**	**Tariff**	**Connected load in KW**
1	03 386 007 123	College	LM2B2	149.52
2	03 386 005 1053	Hostel	LM2B2	14.48
	Total			164.00

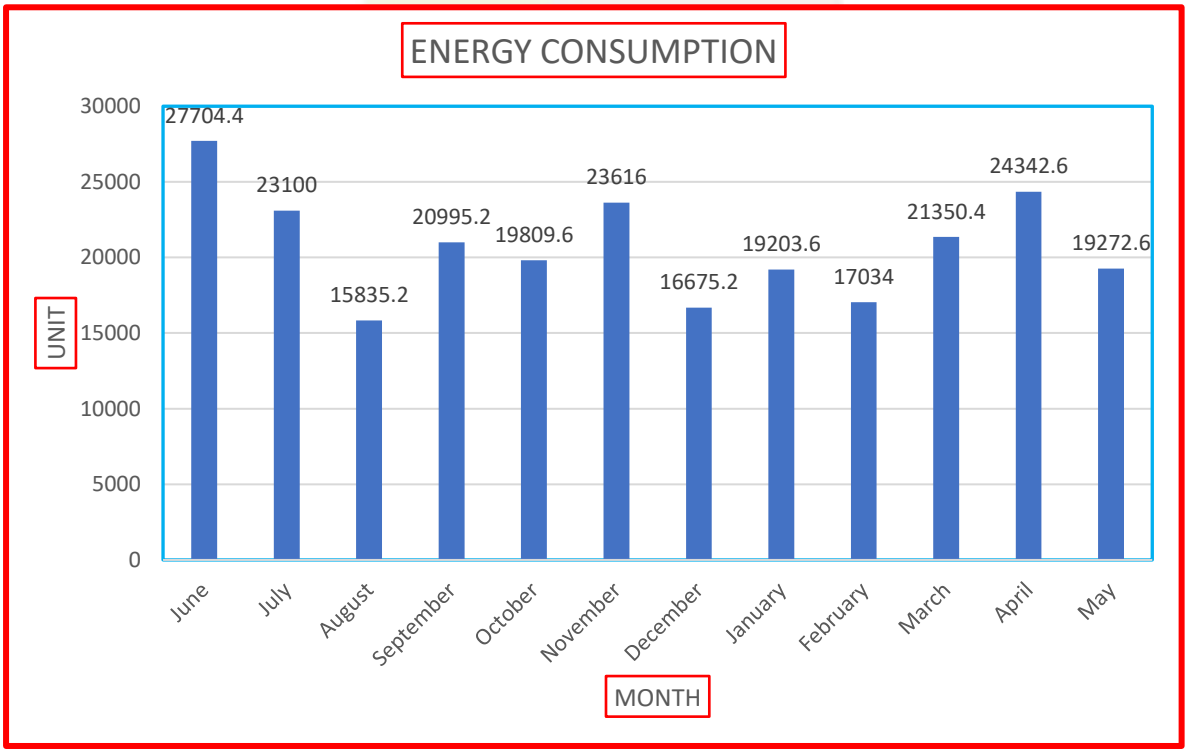
Sl. No	Service Number	Tariff	Units Consumed
1	03 386 007 123	LM 2B2	2,48,939
2	03 386 005 1053	LM 2B2	38,779
	Total		2,87,718



College and Hostel Energy consumption during the year 2022-2023

2. Electrical Energy consumption in the college service number 03 386 007 123

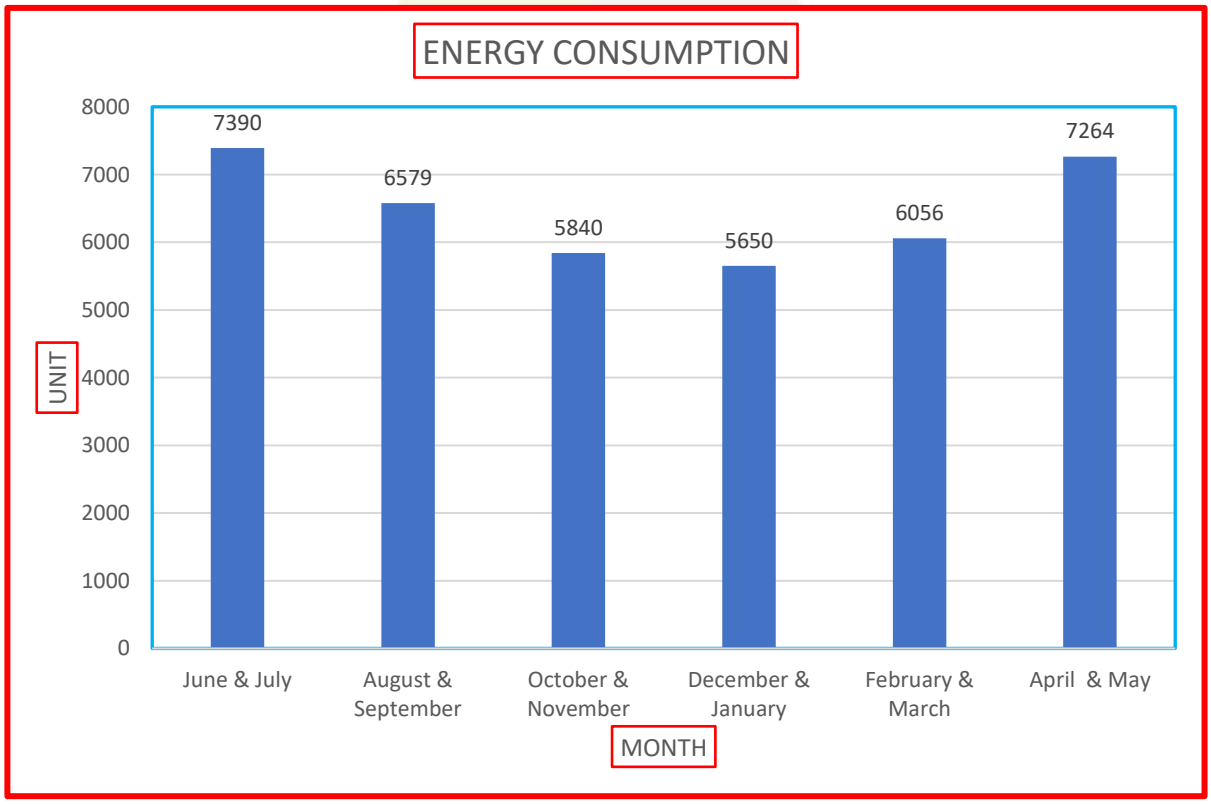
1.Service No 03 386 007 123 150 KW 3 Phase Tariff LM2B2					
Sl. No.	Assessment Date	Months	Units Consumed	Bill Amount -Rs	Unit cost-Rs
1	27-06-2022	June	27704.4	272877	9.85
2	27-07-2022	July	23100	187007	8.10
3	25-08-2022	August	15835.2	178900	11.30
4	27-09-2022	September	20995.2	260571	12.41
5	29-10-2022	October	19809.6	271331	13.70
6	29-11-2022	November	23616	306644	12.98
7	28-12-2022	December	16675.2	241655	14.49
8	30-01-2023	January	19203.6	265212	13.81
9	27-02-2023	February	17034	244515	14.35
10	28-03-2023	March	21350.4	285713	13.38
11	27-04-2023	April	24342.6	314095	12.90
12	29-05-2023	May	19272.6	266500	13.83
	Total		248938.8	3095020	12.43



Month wise Energy consumption in the college

3. Electrical Energy consumption in the hostel service number 03 386 005 1053

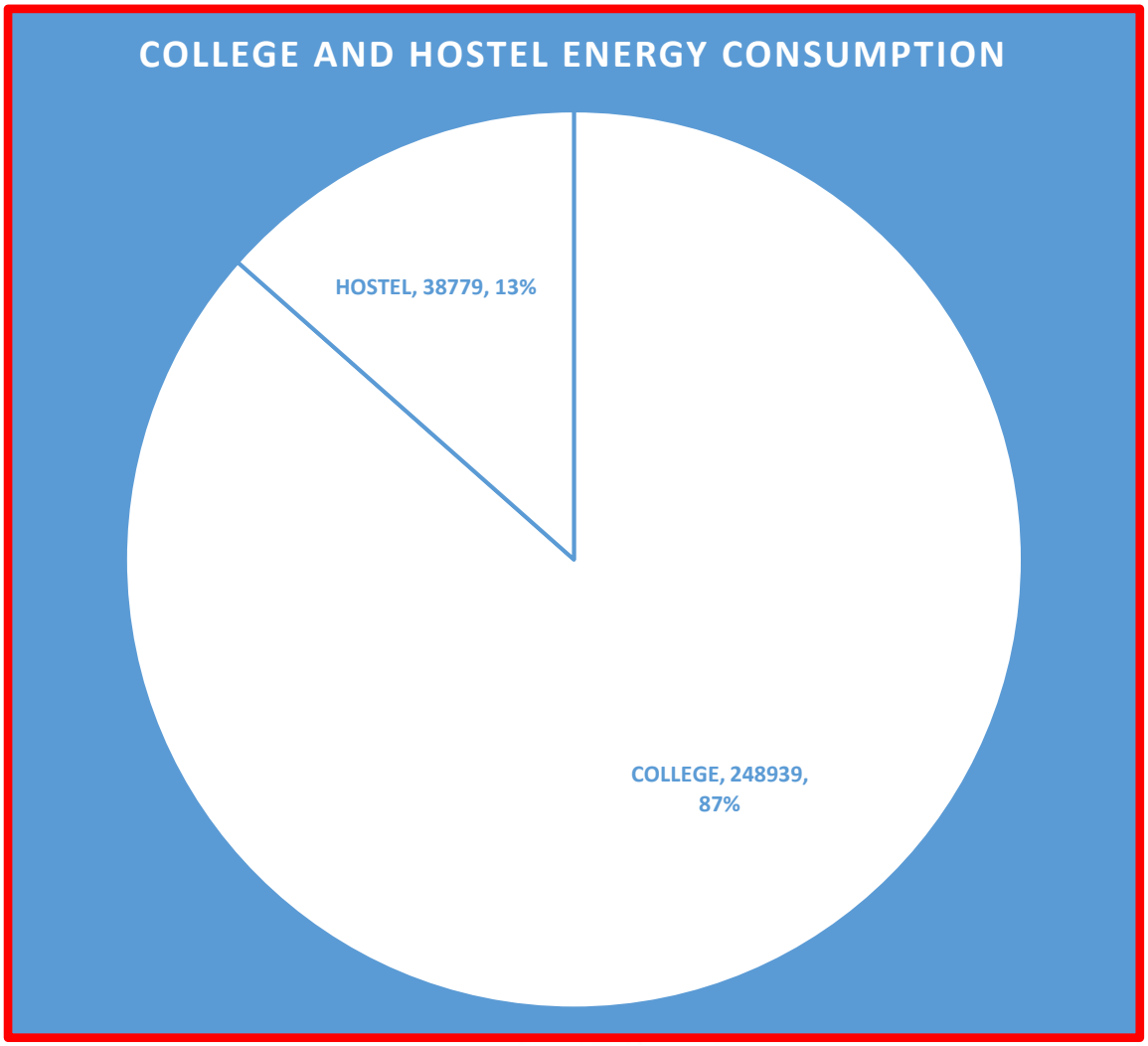
2.Service No 03 386 005 1053 15 KW 3 Phase Tariff LM2B2					
Sl. No.	Assessment Date	Months	Units Consumed	Bill Amount - Rs	Unit cost- Rs
1	27-07-2022	June & July	7390	60050	8.13
2	30-09-2022	August & September	6579	57637	8.76
3	28-11-2022	October & November	5840	59064	10.11
4	27-01-2023	December & January	5650	57423	10.16
5	29-03-2023	February & March	6056	60056	9.92
6	29-05-2023	April & May	7264	71270	9.81
	Total		38779	365500	



Bi Monthly Energy consumption in the Hostel

4.TNEB Grid Energy consumption in College and Hostel

SL.NO	PLACE	SERVICE NUMBER	UNITS CONSUMED
1	COLLEGE	03 386 007 123	248939
2	HOSTEL	03 386 005 1053	38779
	TOTAL		287718



5.DG set Electrical Energy consumption

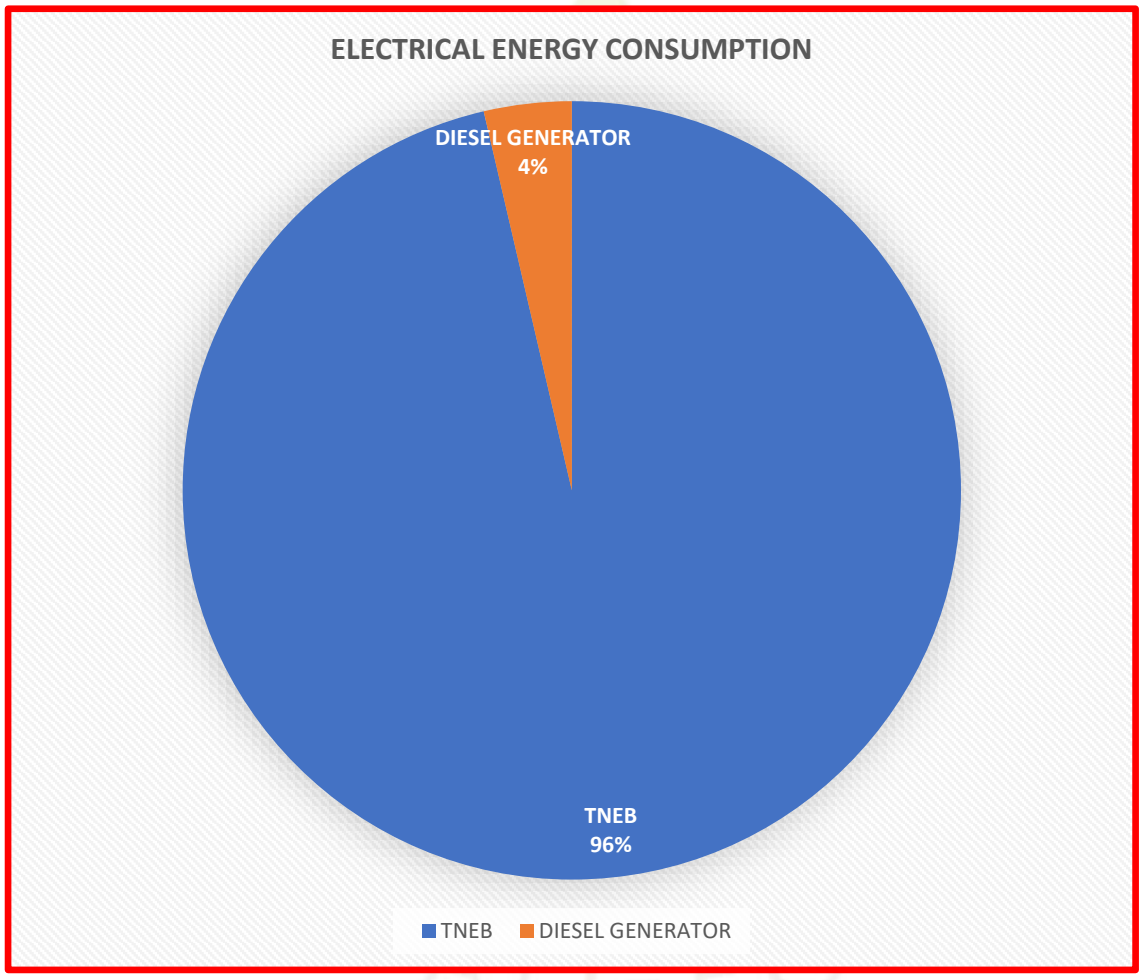
College Diesel Generator

Hostel Diesel Generator

- Total Diesel consumption-3620 litres
- Power generation -10860 units

6.Total Conventional Electrical Energy Consumption details

SL.NO	SOURCE	UNITS CONSUMED
1	TNEB	2,87,718
2	DIESEL GENERATOR	10,860
	Total	2,98,578



7.Renewable Electrical Energy-Solar Electrical energy Consumption

90KW -ON GRID ROOF TOP SOLAR POWER PLANT

Commissioned on 1St May 2022

Solar Energy generated up to 31.05.2023- 10,167 Units

Inverter Make-Growatt, capacity-80KW

Solar PV Panel- SWELECT-HHV

Capacity of PV panel- 380Wp

No of panels-238

Total PV panel capacity-90.44 KWp

78, SH78A, Palaghat, Bodipalayam village, Tamil Nadu 642001, India
Bodipalayam village
Tamil Nadu
India
2023-12-15(Fri) 03:14(pm)
29°C
84°F
Vadugapalayam
வடுகபாளையம்
FIRST CRY
PALAGHAT
பாலக்காட்
Google

Solar Street Lights

- Solar Street Lights -5 Nos
- Power of LED lamp-20watts
- Total power generation - 438 units

8.Conventional Thermal Energy consumption – LPG

LPG cylinders used- commercial cylinders of 19 kgs capacity

- LPG consumption in the hostel mess during the year 2022-2023- 275 cylinders
- LPG consumption in the college during the year 2022-2023- 2 cylinders
- **Total LPG consumption during the year 2022-2023- 5,263 KGs (277 Cylinders)**

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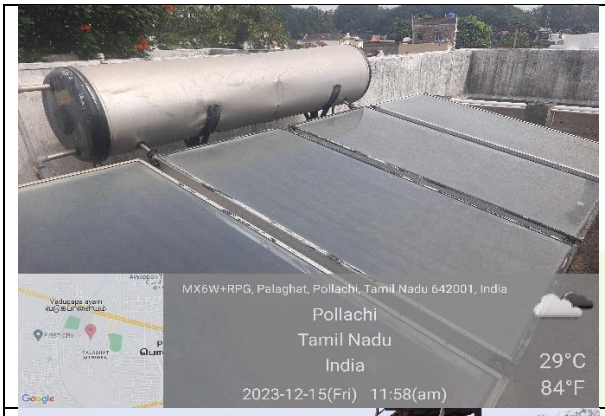
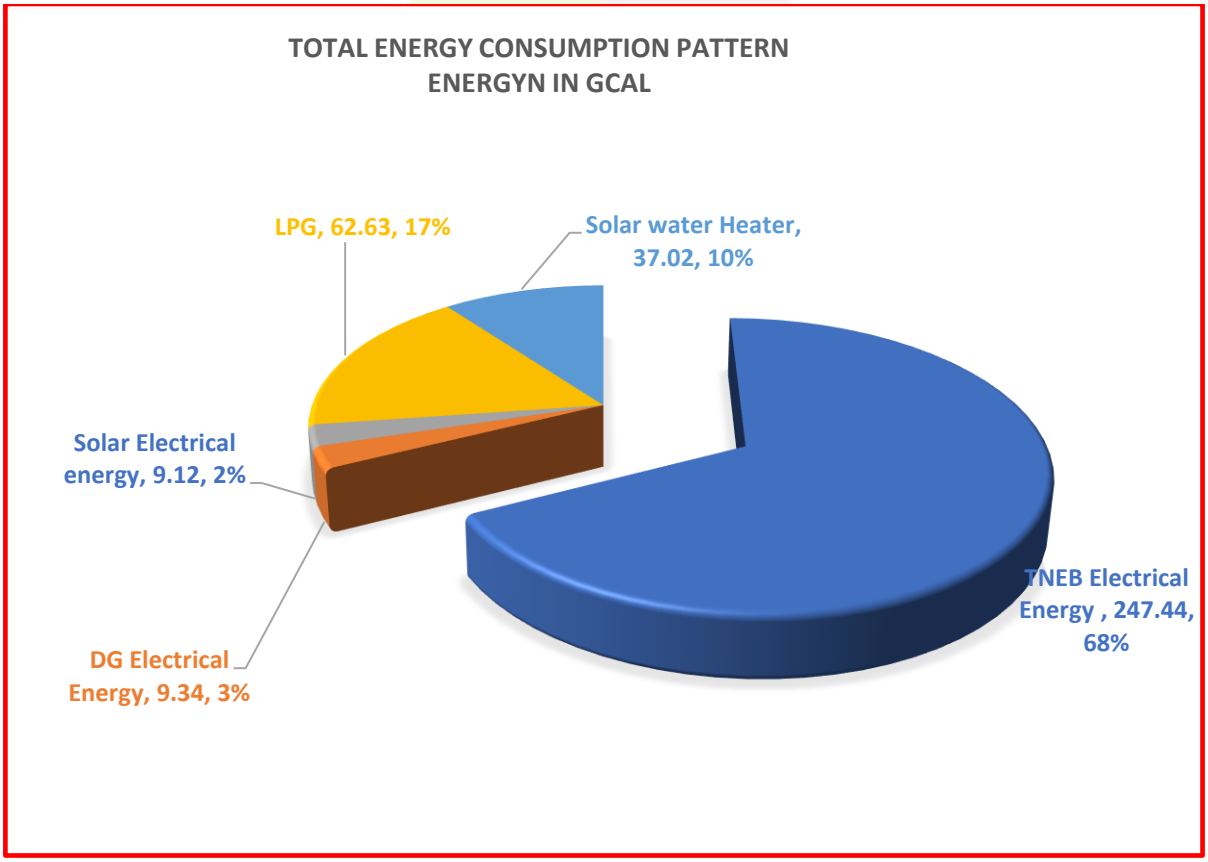
9. Renewable Thermal Energy

Total capacity of Solar Water Heaters-4100 Litters Per Day

	Boys Hostel 1000 LPD X 1
	Girls Hostel 1000 LPD X 1
	Girls Hostel 1000 LPD X 2 100 LPD X 1

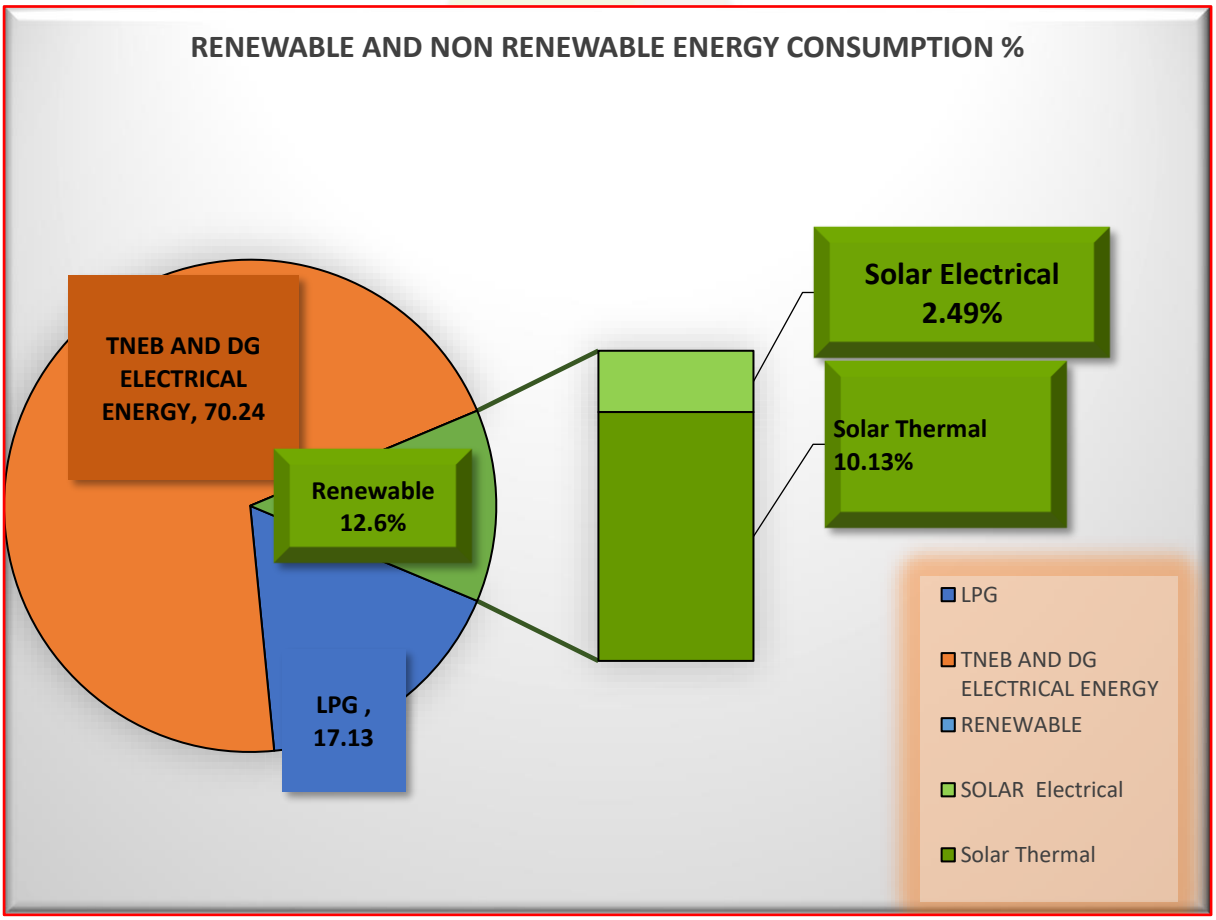
10.Total Energy consumption

SL.NO	TYPE OF ENERGY	ENERGY -GCAL
1	TNEB Electrical Energy	247.44
2	DG Electrical Energy	9.34
3	Solar Electrical energy	9.12
4	LPG	62.63
5	Solar water Heater	37.02
	Total	365.60



11.Renewable and Non-Renewable(conventional) energy distribution

ENERGY CONSUMPTION	PERCENTAGE
NON RENEWABLE	
LPG	17.13
TNEB AND DG ELECTRICAL ENERGY	70.24
RENEWABLE	
Solar Electrical	2.49
Solar Thermal	10.13



12.The energy conservation measures followed

- High volume Low Speed fans are provided in the auditorium
- Maximum utilisation of day lights at auditorium, hostel and colleges
- Staff and Students are made aware of using public transport system
- Individual vehicle usage is reduced to the minimum level
- Periodical maintenance and overhauling of generators is being carried out
- The fans, lights, air-conditioners and other electronic and electrical equipments are switched off when not in use.
- Lights and fans are switched off by the students whenever they are out of hostel rooms
- Replacing conventional electrical light fittings with energy efficient Light-Emitting Diode (LED) bulbs.
- Replacing old high energy consuming appliances with star rated energy efficient appliances.
- Computers are switched to sleep mode or hibernate mode automatically when not in use.
- At the end of every practical session, Computer monitors and UPS are switched off.
- Soft copies are maintained instead of hard copies, to reduce power consumption and paper.

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13.Major Electrical load details

Sl. No	Equipment	Watts	Nos	Total watts	KW
1	Ceiling Fan	75	932	69900	69.9
2	Computer	180	560	100800	100.8
3	Printer	115	30	3450	3.45
4	LCD	240	30	7200	7.2
5	Light	36	59	2124	2.124
6	light	18	68	1224	1.224
7	Light	16	4	64	0.064
8	Light	11	131	1441	1.441
9	LED	32	88	2816	2.816
10	LED	18	193	3474	3.474
11	LED	20	335	6700	6.7
12	LED	9	236	2124	2.124
13	CFL	27	3	81	0.081
14	CFL	18	13	234	0.234
15	CFL	12	6	72	0.072
16	CFL	4	4	16	0.016
17	Sodium Light	250	27	6750	6.75
18	Pedestal Fan	60	12	720	0.72
19	Wall mounted fan	55	10	550	0.55
20	Xerox Printer	2100	5	10500	10.5
21	Water Doctor	750	12	9000	9
22	1 Ton AC	1000	9	9000	9
23	1.5 T AC	1500	20	30000	30
	HOSTEL				
	H	HP	Nos		KW
1	Ceiling Fan	3	2	6	4.5
2	Motor	3	1	3	0.003
3	Motor	7.5	3	22.5	0.0225
4	Motor	5	1	5	0.005
5	Motor	2	1	2	0.002
6	Motor	1	1	1	0.001
	Hostel				
	Equipment	Watts	Nos	Watts	KW
1	Wet Grinder	1300	1	1300	1.3
2	Wet Grinder	750	1	750	0.75
3	Mixie	1500	1	1500	1.5
4	Mixie	750	1	750	0.75
	UPS				
	30 KVA	1			
	20 KVA	6			
	10KVA	1			
	6 KVA	1			
	3KVA	10			

Lighting Load

Total Lighting load	27.92	KW	
Contribution on Total lighting Load			%
LED Load	15.92	KW	57.02
CFL load	0.40	KW	1.43
Conventional lights	11.60	KW	41.55

Diesel Generators

1. 200 KVA- 1- College

2.62.5 KVA- 2 - College

3. 25 KVA-1- Hostel

ALGEO

14.COMMON OBSERVATION AND FEEDBACK

1. Periodical Cleaning of Solar panels to be carried out to get maximum output from solar power plant

2. Battery terminals in corroded condition. Proper maintenance is required
3. Fire hydrant to be operated on periodical manner. Immediate service of pump and motor is required

4. STP pump’s suction and discharge lines to be set right

5. Oil spill inside the 200 KVA DG set to be cleaned properly and spill/leak to be avoided
6. Power Cables to be laid properly under the earth. Not to be exposed to sunlight and walkway near DG set area.

7. Power cable entry to Electrical panel to be done properly at Room No A 127

15. AUDIT FINDINGS & ENERGY SAVING POTENIAL

Findings

- Annual electricity consumption from TNEB GRID is around 2,87,718units during the year 2022-2023.
- Electrical Energy consumption from Diesel Generator – 10,860 units.
- Solar Power Electrical energy consumption- 10,167 units
- Total Electrical Energy consumption – 3,08,745 units.
- LPG consumption – 5,263 Kgs
- Solar water heater installed capacity 4,100 LPD
- High Volume low speed fans are provided at auditorium to reduce energy consumption
- 5 Star rated Energy efficient electrical equipments shall be procured in future
- In total Lighting loads, 57.02 % lighting loads are converted into LED lighting system. Remaining Conventional Tube lights shall be replaced with LED tube lights in a phased manner
- Lightning arrestor was provided inside the campus at higher elevation
- Students and staff may be encouraged to shift over to E- Vehicle
- Automatic power switch off systems may be introduced in the required areas

Renewable Energy

90KW On Grid Roof Top Solar Power Plant was installed and commissioned on 1st May 2022

Energy saving potentials

1.Conventional tube lights shall be replaced with LED tube lights

Conventional tube light (with electronic choke) energy consumption-40 watts/hr

LED Tube lights energy consumption-20 watts/ hr

Savings per tube light -20 watts/hr

No of hours usage per day in the hostel– 8 hrs

No of days hostel occupied with students-250 days

Energy savings per tube light per year -250 x8x20= 40000wh=40 units

Average energy cost- Rs 8.7/unit + 5% Tax + peak hr charges = Rs 9.6/unit

Cost saving per year per tube light-40 x 9.6= Rs 384

Cost savings per month-Rs 32

Approximate Cost of LED tube light -Rs 180

Payback period-5.6 months

Replacement cost for 50 LED tube lights-Rs 180x50= RS 9,000

Cost savings for 50 LED tube lights-Rs 19,200 / year

Energy savings for 50 LED tube lights-2,000 units/ year

Payback period-5.6 months

2. Conventional fans shall be replaced with energy efficient fans

Conventional FAN energy consumption-60 watts/hr

ENERGY efficient fan energy consumption-28 watts/ hr

Savings per fan -32 watts/hr

No of hours usage per day in the hostel– 16 hrs

No of days hostel occupied with students-250 days

Energy savings per fan per year -250x16x38= 152 000wh=152 units

Average energy cost- Rs 8.7/unit + 5% Tax + peak hr charges = Rs 9.6/unit

Cost saving per year per FAN-152 units x 9.6 = Rs 1459

Cost saving per month-Rs 122

Cost of ENERGY EFFICIENT FAN -Rs 2800

Payback period 23 months

Replacement cost for 100 Nos. ENERGY EFFICIENT FAN-Rs 2,800x100= RS 2,80,000

Cost savings for 100 Nos. ENERGY EFFICIENT FAN -Rs 1,45,900/ year

Energy savings for 100 Nos. ENERGY EFFICIENT FAN -15,200 units/ year

Payback period 23 months

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Report on Environmental promotion and sustainability activities conducted beyond the campus

The College collaborates with community organizations to raise awareness and promote sustainable practices beyond campus boundaries. These activities not only benefit the environment but also help in shaping the students in to responsible citizens who are conscious of their impact on the planet. By engaging in initiatives such as Swachh Bharath clean-up drives, Green India Mission, tree planting, and recycling programs, students learn the importance of preserving natural resources and reducing waste. Furthermore, these activities create a ripple effect, inspiring others to take action and contribute to a greener future.

The activities conducted during the last five years are listed below:

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Activities conducted beyond the campus

2022 - 2023

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1	Plastic Recycling in Kaliyapuram	07.05.2023	National Service Scheme	Gollapatti	5
2	Swachha Bharath (Thuimai Bharath iru varapani)	22.04.2023	Arutchelvar Manavar Sinthanai Mandram	Vettaikaranpudur	6
3	Planting tree saplings and cleaning work	25.03.2023	Arutchelvar Manavar Sinthanai Mandram	Vettaikaranpudur	7
4	Clean India 2022	02.10.2022	National Service Scheme	Puravipalayam	7
5	Medical Camp	24.09.2022	National Service Scheme	Supendapudur	8
6	Planting of trees and stationery distribution	19.09.2022	Arutchelvar Manavar Sinthanai Mandram	Nethaji Elementary School	9
7	Planting of tree saplings	15.08.2022	Arutchelvar Manavar Sinthanai Mandram	Vadugapalayam	9
8	Cleaning of School Campus	06.08.2022	Arutchelvar Manavar Sinthanai Mandram	Govt., Hr. Sec. School, Aliyar	10
9	Nagarangal Thuimaikkana makkal iyakkam	23.07.2022	Arutchelvar Manavar Sinthanai Mandram	Vettailkkaranpudur	11
10	Save Nature	21.07.2022	Arutchelvar Manavar Sinthanai Mandram	Vadugapalayam	11
11	Planting of trees	16.07.2022	Arutchelvar Manavar Sinthanai Mandram	Jothi Nagar	12
12	Painting of subway	25.06.2022	Arutchelvar Manavar Sinthanai Mandram	Pollachi Bustand	12
13	Yenathu kuppai Yenathu poruppu (My Wastage My Responsibility)	11.06.2022	Arutchelvar Manavar Sinthanai Mandram	Pollachi Municipality Office	13
14	Solid Waste Management	11.06.2022	Arutchelvar Manavar Sinthanai Mandram	Anaimalai	13

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2021 - 2022

S. No	Event	Date	Conducted by	Place conducted	Page No.
15	Tree Plantation Drive	12.05.2022	National Service Scheme	Muthur	14
16	Cleaning of Police Station	16.04.2022	Arutchelvar Manavar Sinthanai Mandram	Anaimalai	15
17	Cleaning of Temple	26.03.2022	Arutchelvar Manavar Sinthanai Mandram	Pudhucolony, Ponnapuram Road	16
18	Eradication of Plastic Wastages	08.01.2022	National Service Scheme	Subbegounden pudhur	16
19	Swachh Bharat Abhiyan	25.12.2021	National Service Scheme	G. Kaaliyapuram	18
20	Swachha Bharath and Planting of Trees	14.10.2021	Arutchelvar Manavar Sinthanai Mandram	Kaaliyapuram	19

2020 - 2021

S. No	Event	Date	Conducted by	Place conducted	Page No.
21	Plastic free Topslip Campaign	18.03.2021	Department of Zoology	Topslip Hill, Anaimalai	19

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2019 – 2020

S. No	Event	Date	Conducted by	Place conducted	Page No.
22	Cleaning and Awareness on Plastic	01.03.2020	Arutchelvar Manavar Sinthanai Mandram	Kulleykoundanoor	20
23	Planting of trees	14.09.2019 – 21.09.2019	Arutchelvar Manavar Sinthanai Mandram	Kottampatti	20
24	Planting of trees	15.08.2019	Arutchelvar Manavar Sinthanai Mandram	Elementary School, Aalaangadavu	21
25	Target Zero – Cleaning of Plastic Wastages	22.07.2019	Arutchelvar Manavar Sinthanai Mandram	Aliyar	22

2018 - 2019

S. No	Event	Date	Conducted by	Page No.
26.	Helmet Awareness Rally Programme	10.01.2019	National Service Scheme	23
27.	Swachht Ki Sewa	02.10.2018	National Cadet Corps	24
28.	Kerala Flood Relief	05.09.2018	National Service Scheme	24

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2022-2023

Environment Promotion and Sustainability Activities

1. **Plastic Recycling in Kaliyapuram harath iru varapani) – 07.05.2023 – National Service Scheme**

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2. Swachha Bharath (Thuimai Bharath iru varapani) - 22.04.2023 - Arutchelvar Manavar Sinthanai Mandram

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3. **Planting tree saplings and cleaning work - 25.03.2023 - Arutchelvar Manavar Sinthanai Mandram**

4. **Clean India – 02.10.2022 – National Service Scheme**

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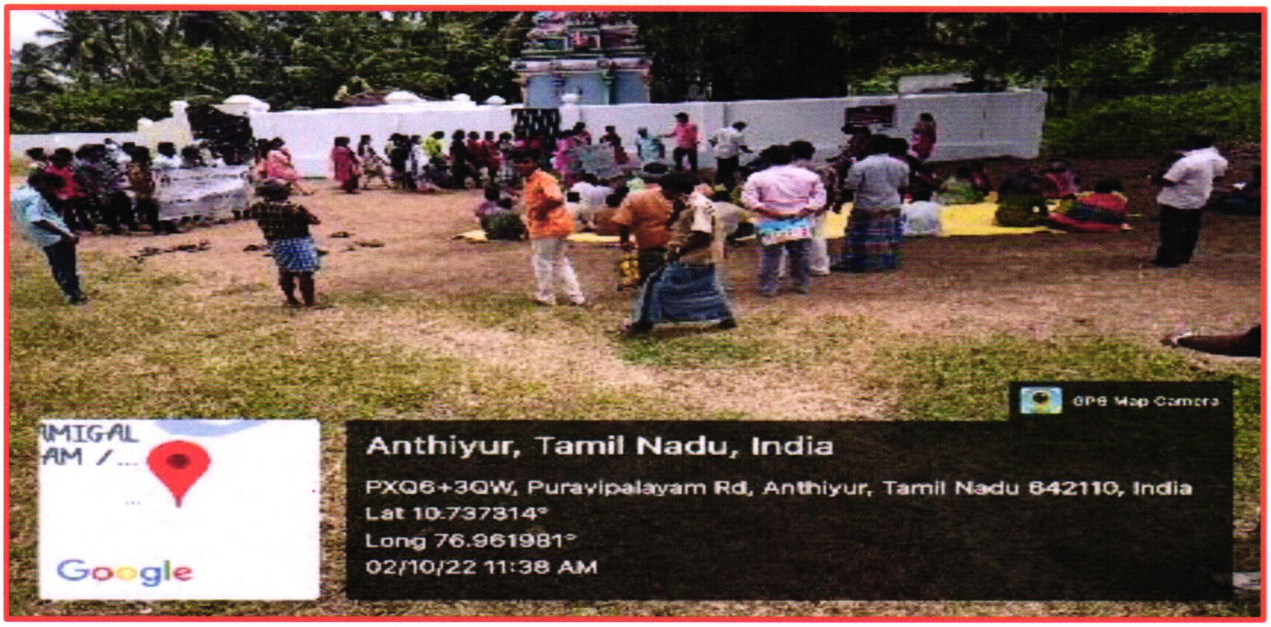

5. Medical Camp - 24.09.2022 – National Service Scheme

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6. **Planting of trees and stationery distribution - 19.09.2022 - Arutchelvar Manavar Sinthanai Mandram**

7. **Planting of tree saplings - 15.08.2022 - Arutchelvar Manavar Sinthanai Mandram**

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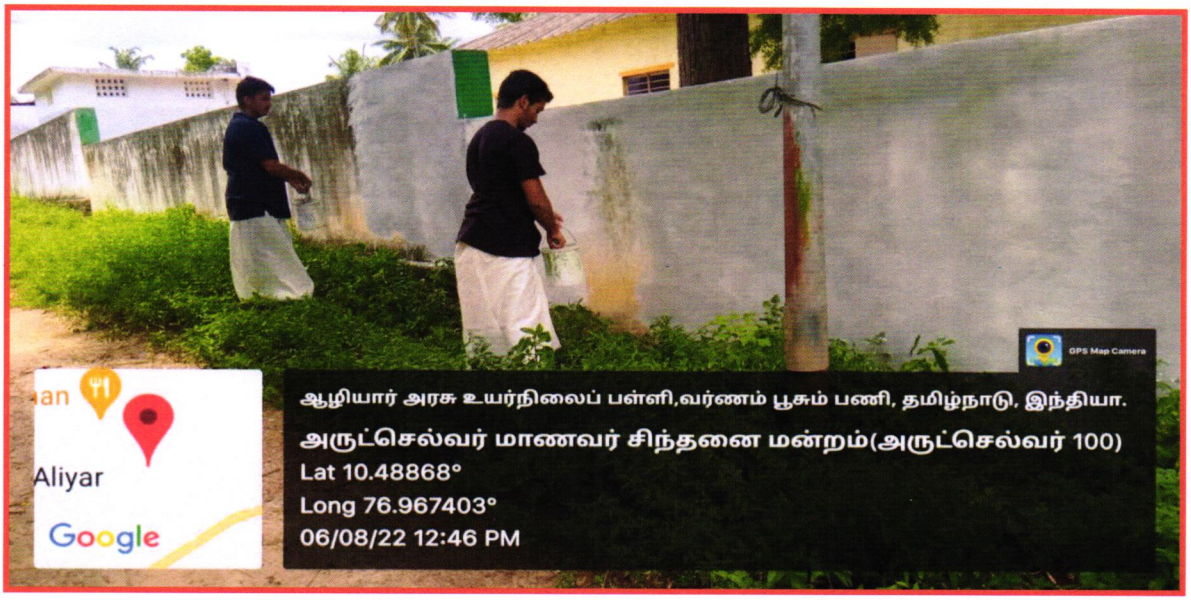
8. Cleaning of School Campus - 06.08.2022 - Arutchelvar Manavar Sinthanai Mandram



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9. Nagarangal Thuimaikkana makkal iyakkam - 23.07.2022 - Arutchelvar Manavar Sinthanai Mandram (Tree Plantation)

10. Save Nature - 21.07.2022 - Arutchelvar Manavar Sinthanai Mandram

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11. Planting of trees - 16.07.2022 - Arutchelvar Manavar Sinthanai Mandram

12. Painting of subway - 25.06.2022 - Arutchelvar Manavar Sinthanai Mandram

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13. Yenathu kuppai Yenathu poruppu (My Wastage My Responsibility) - 11.06.2022 - Arutchelvar Manavar Sinthanai Mandram

14. Solid Waste Management - 11.06.2022 - Arutchelvar Manavar Sinthanai Mandram

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2021– 2022

2022

15. Tree Plantation Drive - 12.05.2022 – National Service Scheme

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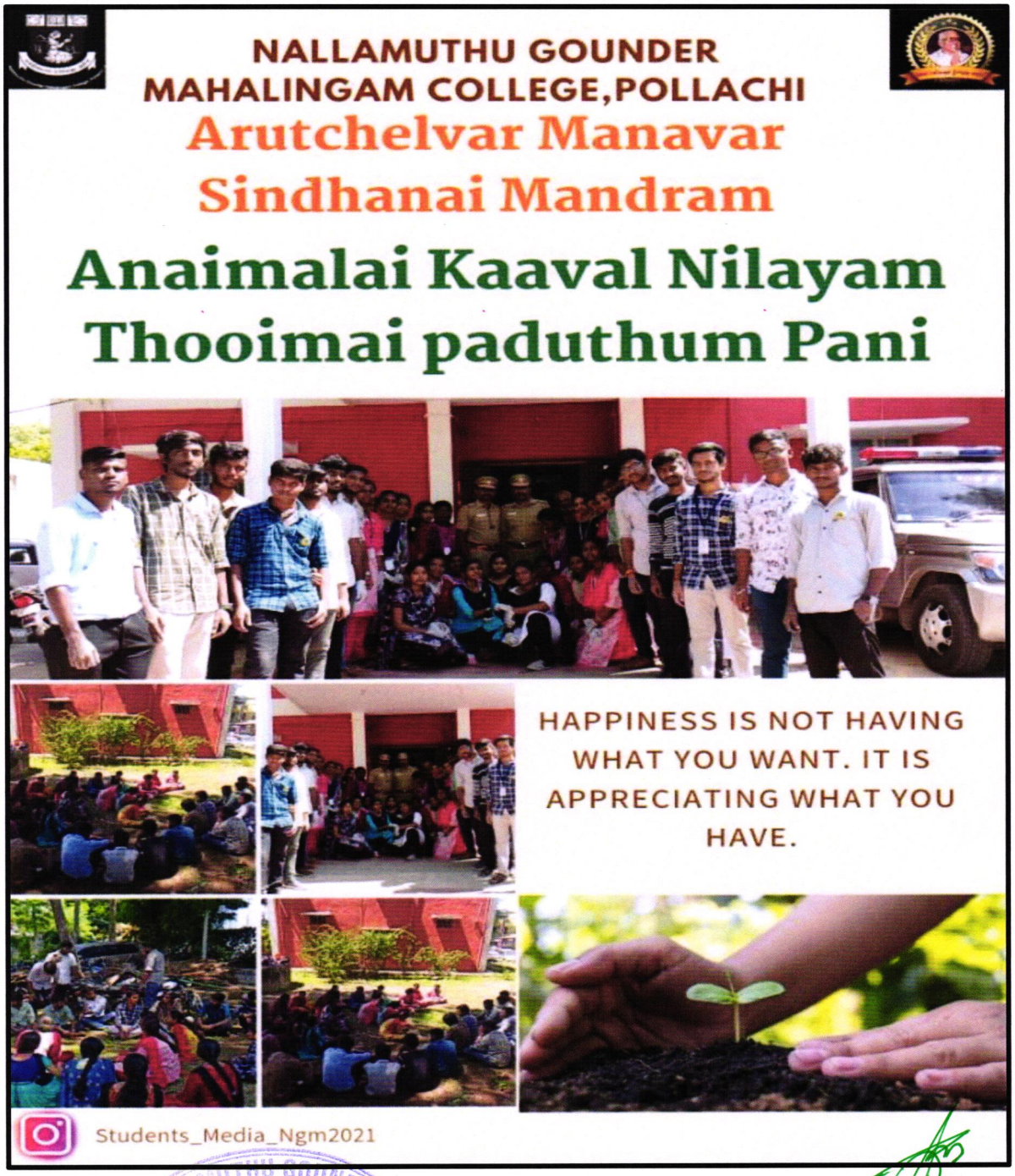
16. Cleaning of Police Station-16.04.2022 - Arutchelvar Manavar Sinthanai Mandram



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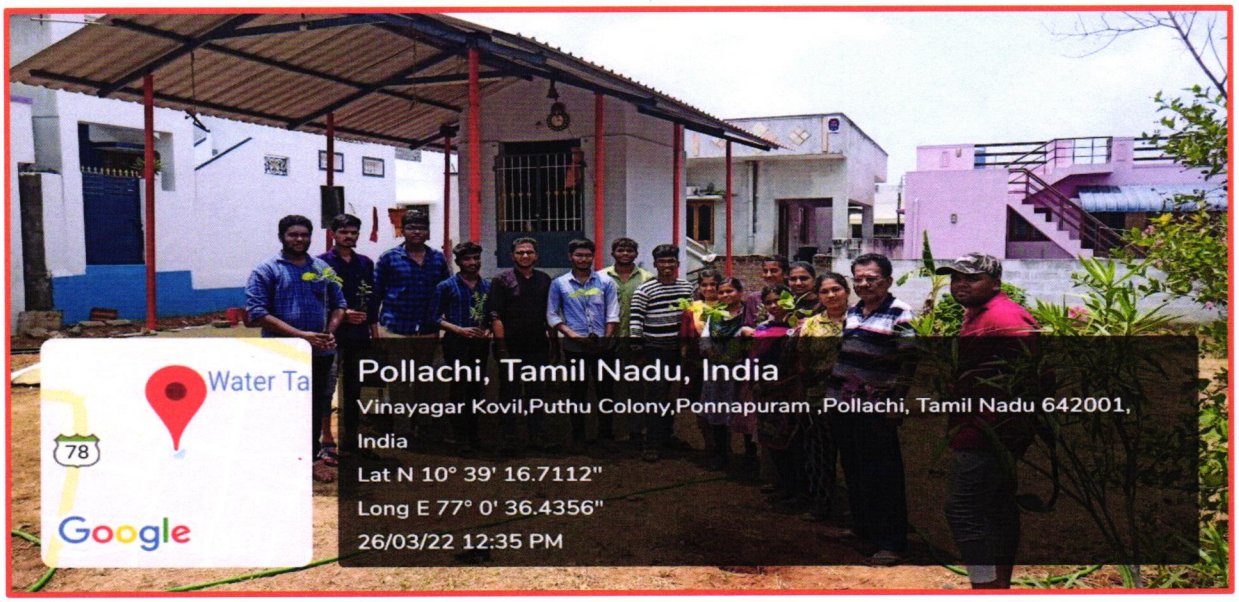
17.Cleaning of Temple - 26.03.2022 - Arutchelvar Manavar Sinthanai Mandram



18.Eradication of Plastic Wastages - 08.01.2022 – National Service Scheme

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19. Swachh Bharat Abhiyan – 25.12.2021 – National Service Scheme

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20. Swachha Bharath Abhiyan and Planting of Trees - 14.10.2021 - Arutchelvar Manavar Sinthanai Mandram

2020-2021

21. Plastic free Topslip Campaign - Topslip Hill, Anaimalai 18.03.2021- Department of Zoology

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22. Cleaning and Awareness on Plastic - 01.03.2020 -Arutchelvar Manavar Sinthanai Mandram

23. Planting of trees - 14.09.2019 – 21.09.2019 - Arutchelvar Manavar Sinthanai Mandram

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24. Planting of trees - 15.08.2019 - Arutchelvar Manavar Sinthanai Mandram

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25. Target Zero – Cleaning of Plastic Wastages - 22.07.2019 - Arutchelvar Manavar Sinthanai Mandram

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26.Helmet Awareness Rally – 10.01.2019 – National Service Scheme

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27. Swachht Ki Sewa - 02.10.2018 - National Cadet Corps

28.Kerala Flood Relief – 05.09.2018 - National Service Scheme

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Kerala Flood Relief has been collected from the college students and from public on 05-09-18. The collected things had been sent to Kerala through Bharathiar University represented vehicle. Rice, Bedsheet, Medicines, Candles, Dress Materials, Carpet are given.

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Supporting Documents of the Environmental Promotion and Sustainability activities

2022 - 2023

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1	Plastic Recycling in Kaliyapuram	07.05.2023	National Service Scheme	Gollapatti
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3	Planting tree saplings and cleaning work	25.03.2023	Arutchelvar Manavar Sinthanai Mandram	Vettaikaranpudur
4	Clean India 2022	02.10.2022	National Service Scheme	Puravipalayam
5	Medical Camp	24.09.2022	National Service Scheme	Supendapudur
6	Planting of trees and stationery distribution	19.09.2022	Arutchelvar Manavar Sinthanai Mandram	Nethaji Elementary School
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8	Cleaning of School Campus	06.08.2022	Arutchelvar Manavar Sinthanai Mandram	Govt., Hr. Sec. School, Aliyar
9	Nagarangal Thuimaikkana makkal iyakkam	23.07.2022	Arutchelvar Manavar Sinthanai Mandram	Vettailkkaranpudur
10	Save Nature	21.07.2022	Arutchelvar Manavar Sinthanai Mandram	Vadugapalayam
11	Planting of trees	16.07.2022	Arutchelvar Manavar Sinthanai Mandram	Jothi Nagar
12	Painting of subway	25.06.2022	Arutchelvar Manavar Sinthanai Mandram	Pollachi Bustand
13	Yenathu kuppai Yenathu poruppu (My Wastage My Responsibility)	11.06.2022	Arutchelvar Manavar Sinthanai Mandram	Pollachi Municipality Office
14	Solid Waste Management	11.06.2022	Arutchelvar Manavar Sinthanai Mandram	Anaimalai

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2021 - 2022

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16	Cleaning of Police Station	16.04.2022	Arutchelvar Manavar Sinthanai Mandram	Anaimalai
17	Cleaning of Temple	26.03.2022	Arutchelvar Manavar Sinthanai Mandram	Pudhucolony, Ponnapuram Road
18	Eradication of Plastic Wastages	08.01.2022	National Service Scheme	Subbegounden pudhur
19	Swachh Bharat Abhiyan	25.12.2021	National Service Scheme	G. Kaaliyapuram
20	Swachha Bharath and Planting of Trees	14.10.2021	Arutchelvar Manavar Sinthanai Mandram	Kaaliyapuram

2020 - 2021

S. No	Event	Date	Conducted by	Place conducted
21	Plastic free Topslip Campaign	18.03.2021	Department of Zoology	Topslip Hill, Anaimalai

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Criteria: **VII : Institutional Values and Best Practices**

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2019 – 2020

S. No	Event	Date	Conducted by	Place conducted
22	Cleaning and Awareness on Plastic	01.03.2020	Arutchelvar Manavar Sinthanai Mandram	Kulleykoundanoor
23	Planting of trees	14.09.2019 – 21.09.2019	Arutchelvar Manavar Sinthanai Mandram	Kottampatti
24	Planting of trees	15.08.2019	Arutchelvar Manavar Sinthanai Mandram	Elementary School, Aalaangadavu
25	Target Zero – Cleaning of Plastic Wastages	22.07.2019	Arutchelvar Manavar Sinthanai Mandram	Aliyar

2018 - 2019

S. No	Event	Date	Conducted by
26.	Helmet Awareness Rally Programme	10.01.2019	National Service Scheme
27.	Swachhta Ki Sewa	02.10.2018	National Cadet Corps
28.	Kerala Flood Relief	05.09.2018	National Service Scheme

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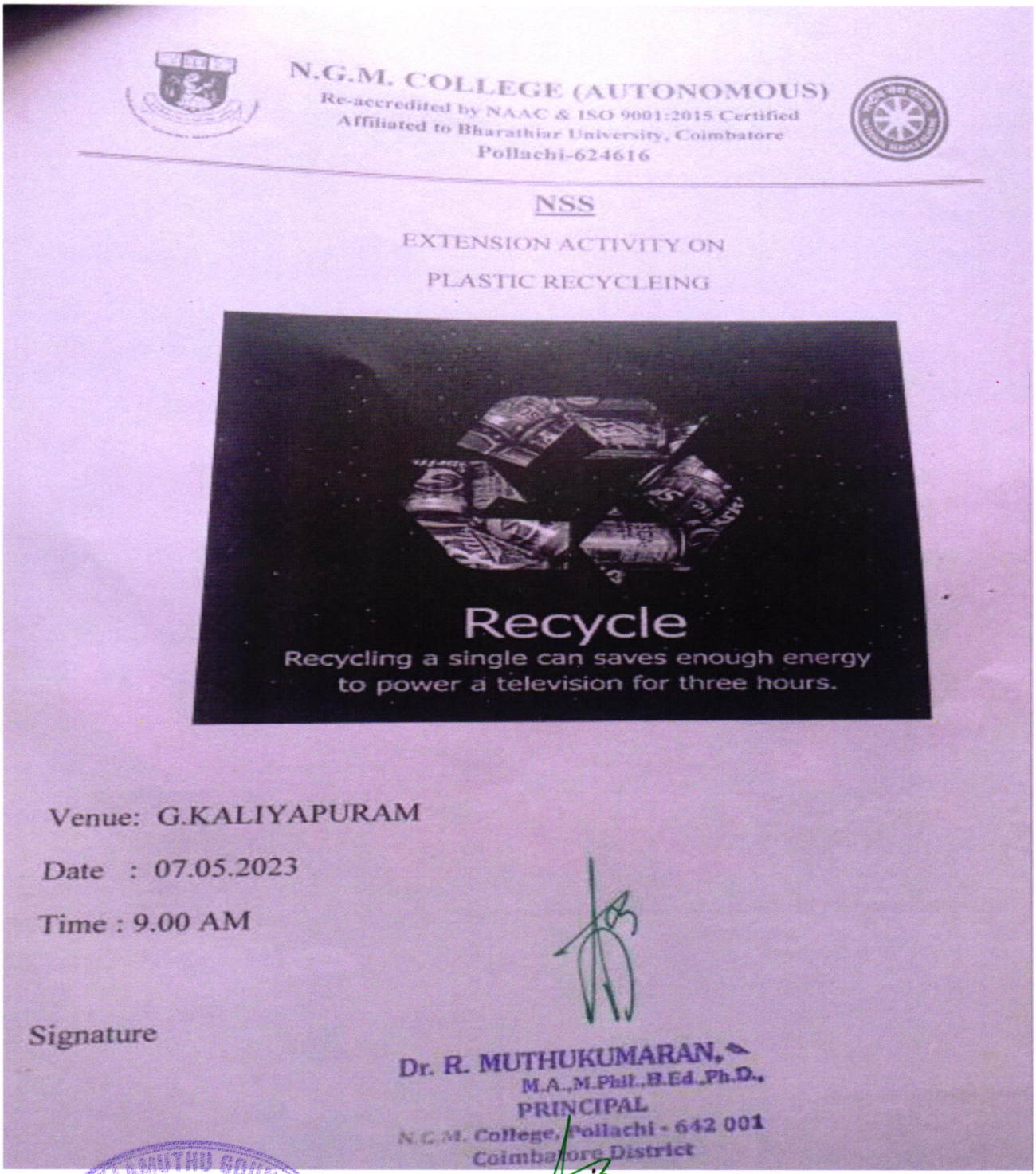
1. Plastic Recycling in Kaliyapuram - 07.05.2023 - National Service Scheme



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Pollachi – 642 001

Name of the Activity :NSS- Plastic recycling		
Date :07.05.2023	**No. of Days :3**	**Venue :G.Kaliyapuram**
Department : NSS – National Service Scheme		
Name of Organizers :Dr.P.Prathap– NSS Programming Officer		
No. of Staff Participants:2		
No. of Students Participants:21		
Name of the Scheme: Extension Activity		

Report plastic recycling

Organization: NGM College, Pollachi, NSS Program

Event: One-Day Program on Plastic Recycling

Date: May 7, 2023

Time: 2:30 pm

Location: G. Kaliapuram

Organizer:

Dr. P. Pradhap, NSS Programming Officer, NGM College, Pollachi

Program Highlights:

Plastic Recycling Program

Collection of plastic items in and around G. Kaliapuram

Awareness campaign on the problems associated with using plastic products

Participants:

15 students actively participated in the program

Objectives:

To educate and create awareness about the issues related to plastic use

Collection of plastic items for recycling

Promoting the importance of responsible waste management

Dr. R. MUTHUKUMARAN,
M.A.,M.Phil.,B.Ed.,Ph.D.,
PRINCIPAL
N.G.M. College, Pollachi - 642 001
Coimbatore District

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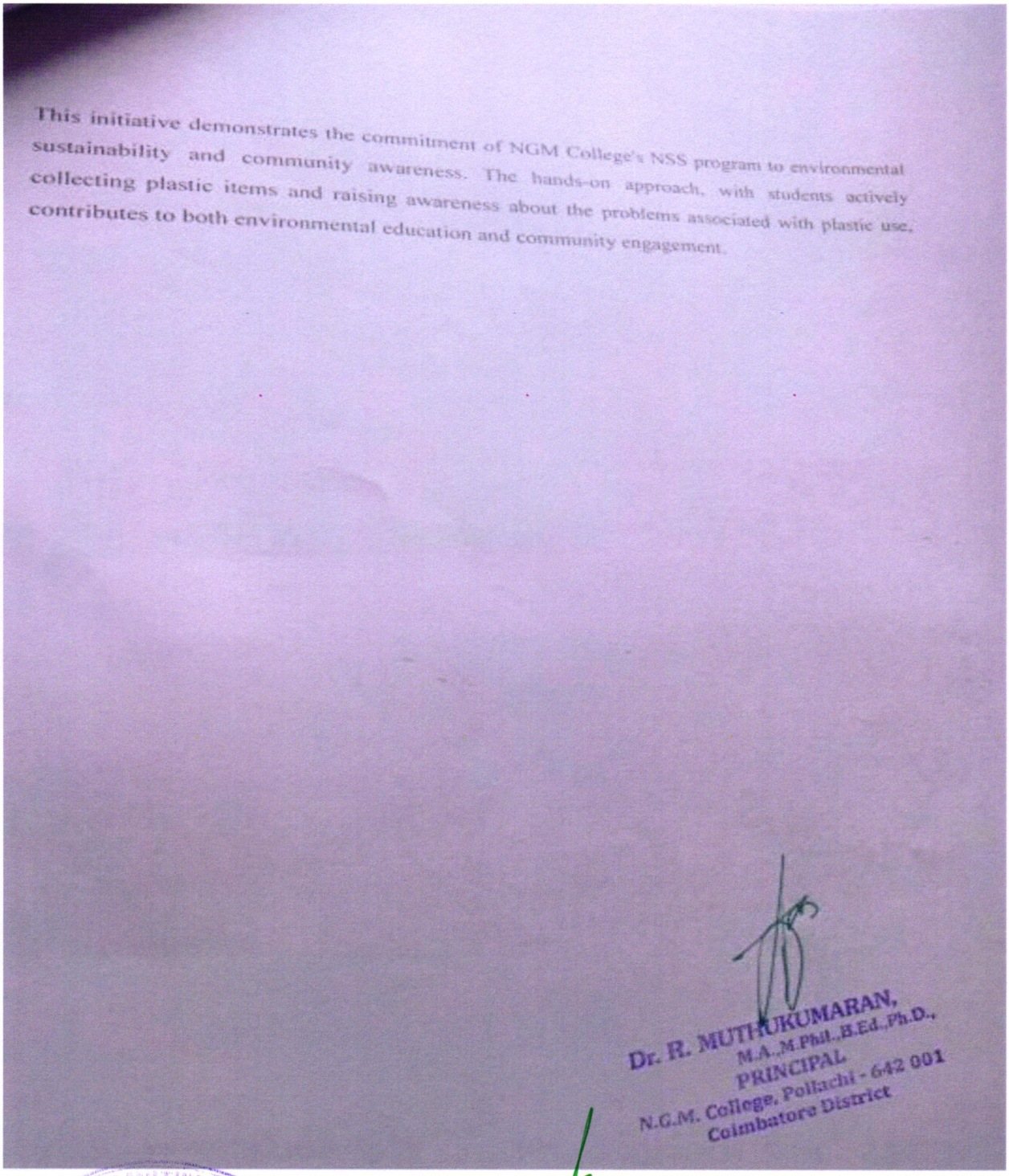

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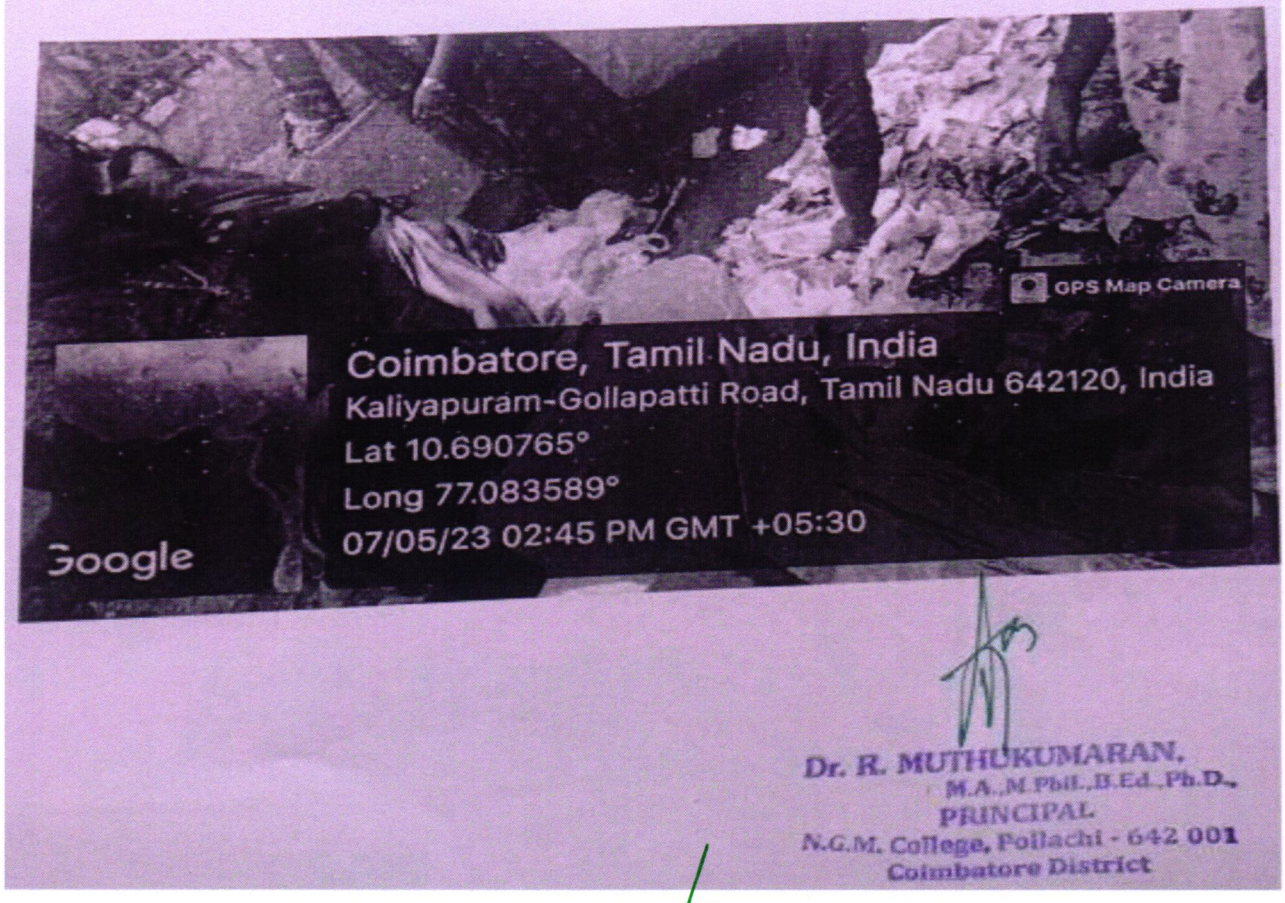

Dr. R. MUTHUKUMARAN, M.A.,M.Phil.,B.Ed.,Ph.D.,
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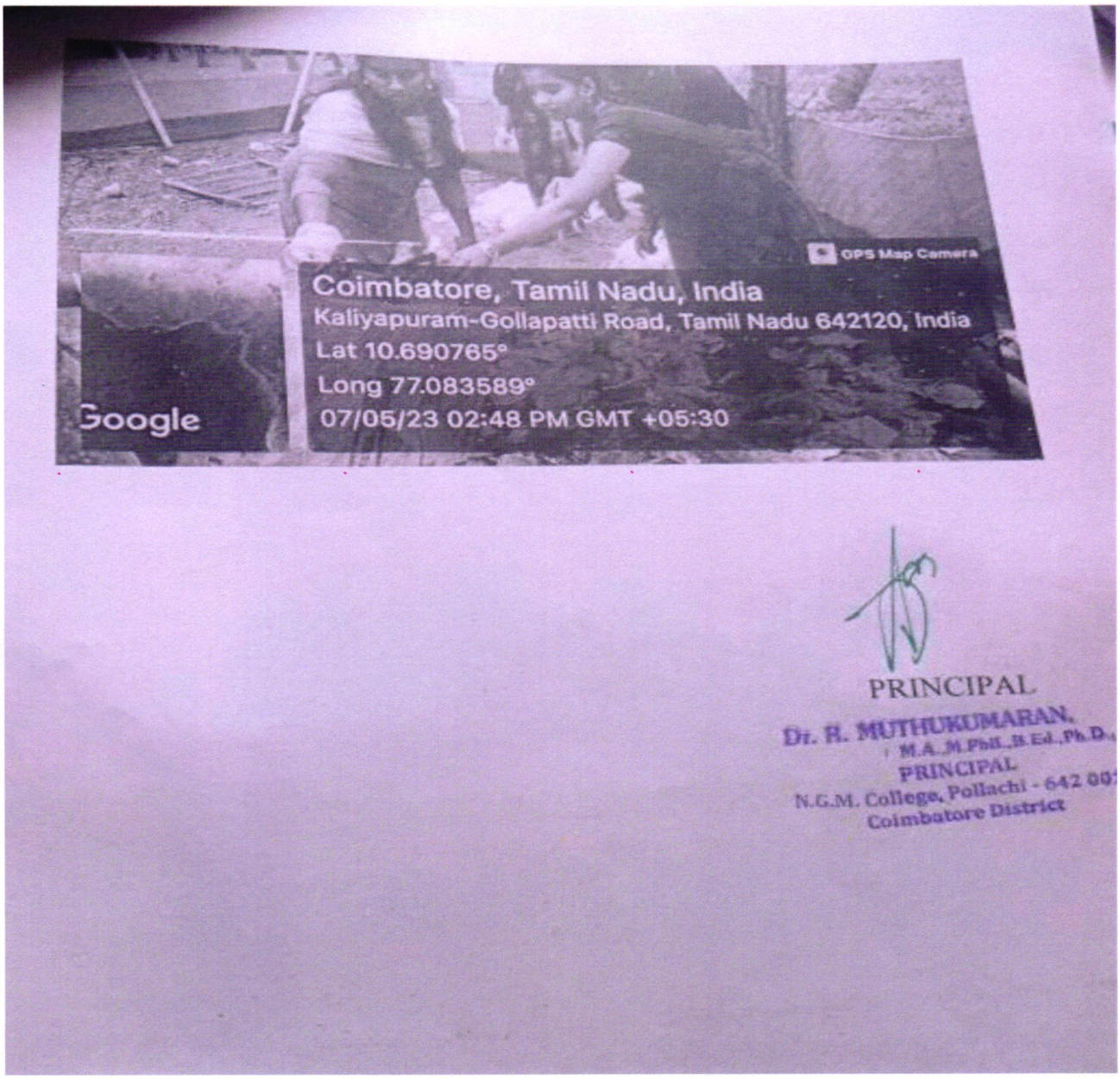

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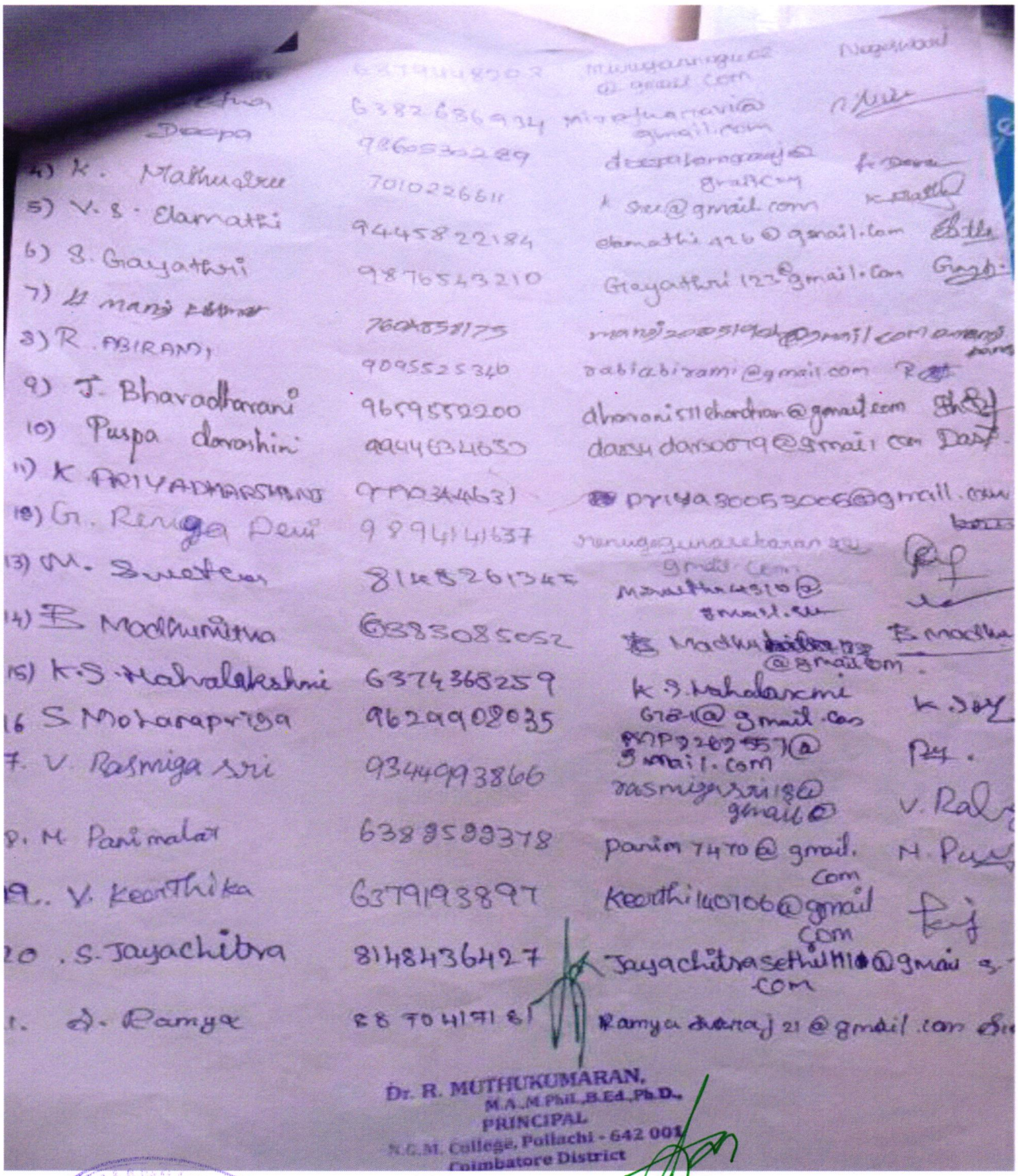

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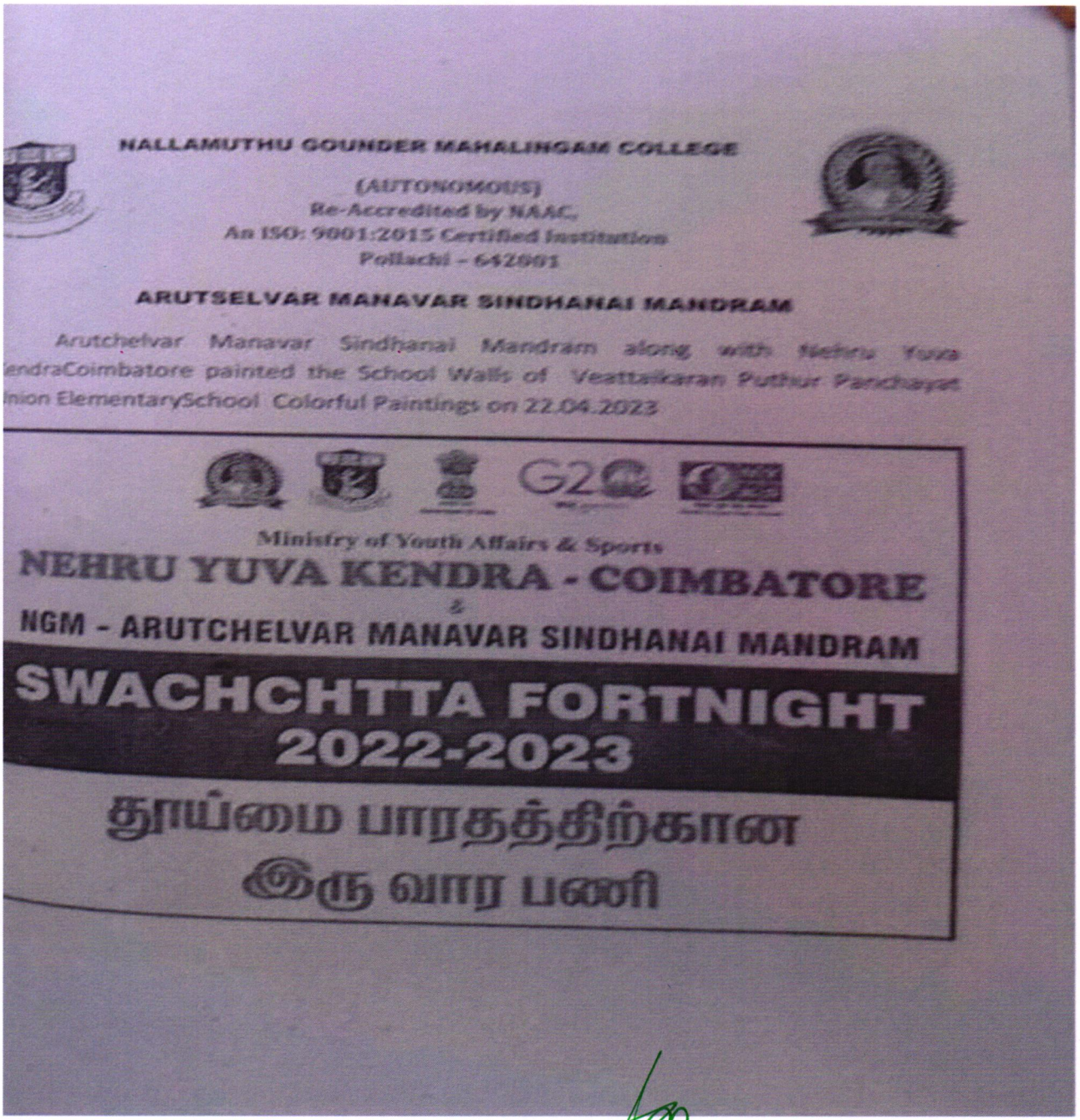
2. Swachha Bharath (Thuimai Bharath - Iruvarappani) - 22.04.2023 - Arutchelvar Manavar Sinthanai Mandram



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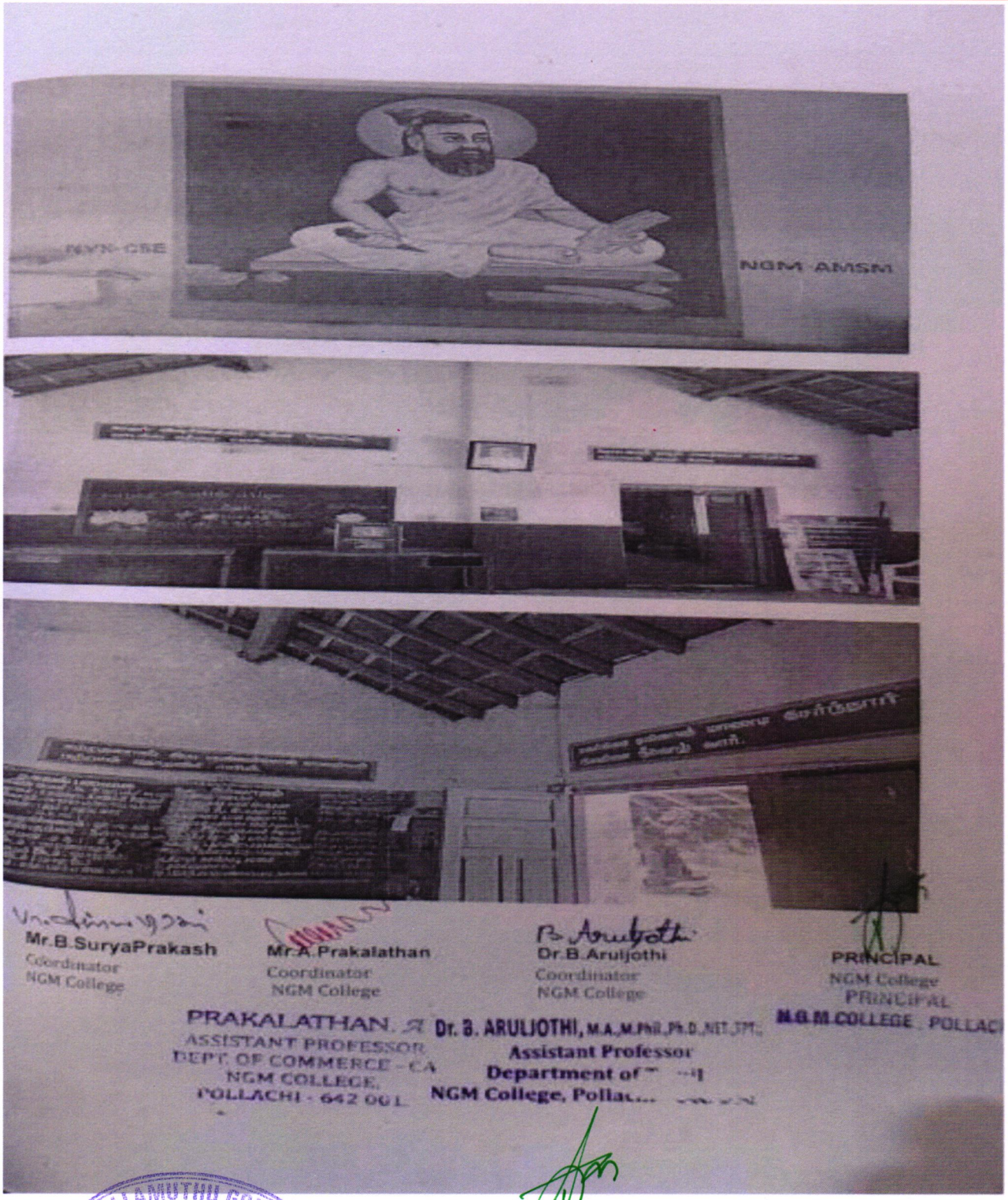

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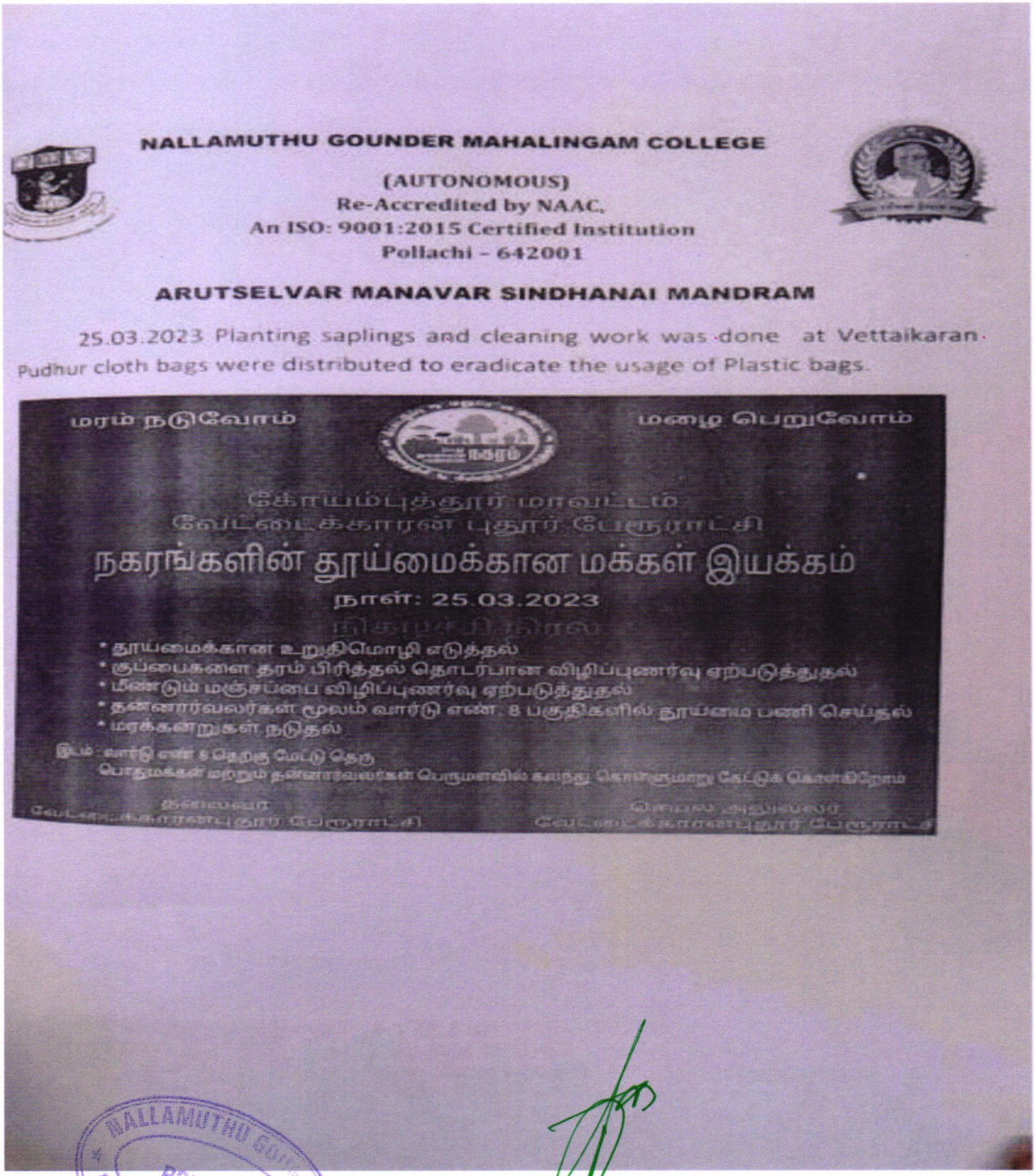
3. Planting tree saplings and cleaning work – 25.03.2023 - Arutchelvar Manavar Sinthanai Mandram



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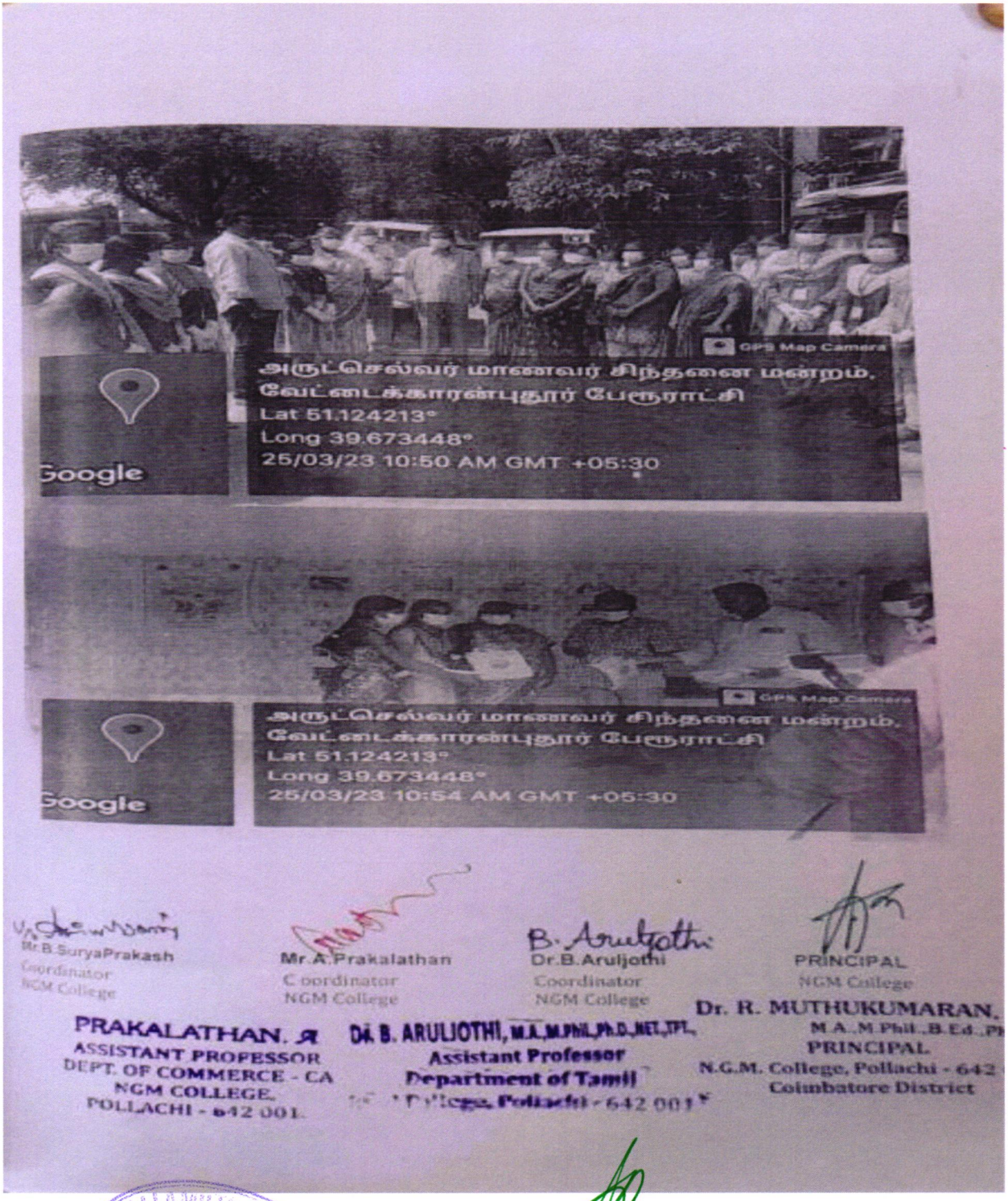

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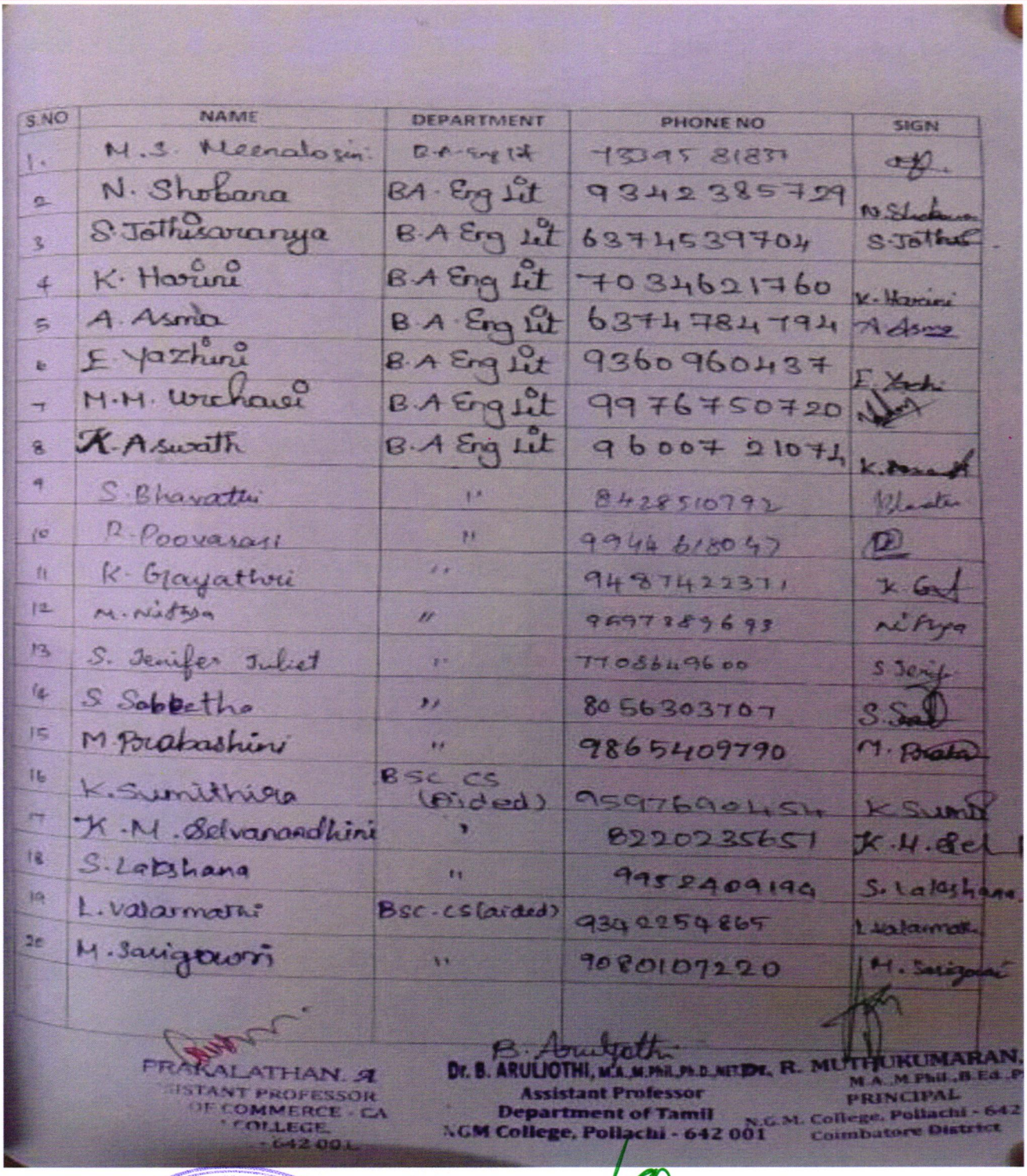

S.NO	NAME	DEPARTMENT	PHONE NO	SIGN
1.	M.S. Meenalosini	B.A-Eng Lit	73095 81837	
2	N. Shobana	BA. Eng Lit	9342385729	
3	S. Jothisaranya	B.A Eng Lit	6374539704	
4	K. Harini	B.A Eng Lit	7034621760	
5	A. Asma	B.A. Eng Lit	6374784794	
6	E. Yazhini	B.A Eng Lit	9360960437	
7	M.M. Urchasi	B.A Eng Lit	9976750720	
8	K. Aswath	B.A Eng Lit	96007 21071	
9	S. Bharathi	"	8428510792	
10	R. Poovarasi	"	9944 618047	
11	K. Gayathri	"	9487422371	
12	M. Nithya	"	9597896993	
13	S. Jenifer Juliet	"	7708649600	
14	S Sabbetha	"	8056303707	
15	M. Prabashini	"	9865409790	
16	K. Sumithira	BSc CS (Aided)	9597690454	
17	K.M. Selvanandhini	"	8220235651	
18	S. Lakshana	"	9952409199	
19	L. Valarmathi	BSc. CS (aided)	9342259865	
20	M. Sangavari	"	9080107220	

PRAKALATHAN. R
ASSISTANT PROFESSOR
DEPARTMENT OF COMMERCE - CA
NGM COLLEGE
POLLACHI - 642 001.

B. Aruljothi
Dr. B. ARULJOTHI, M.A., M.Phil., Ph.D., NET
Assistant Professor
Department of Tamil
NGM College, Pollachi - 642 001

Dr. R. MUTHUKUMARAN, M.A., M.Phil., B.Ed., P
PRINCIPAL
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NALLAMUTHU GOUNDER'S MAHALINGAM COLLEGE POLLACHI

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4. Clean India 2022 - 02.10.2022 - National Service Scheme

Event ID:

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Name of the Activity :NSS- **(CLEAN INDIA 2022)**	
Date:**02.10.2022** / **No. of Days :1** / **Venue : PURAVIPALAYAM**	
Department : NSS – National Service Scheme	
Name of Organizers :S.Vigneshkumar – NSS Programming Officer	
No. of Staff Participants:3	
No. of Students Participants:20	
Name of the Scheme:	

On the golden day of MAHATMA GANDHI's Birthday (oct 2) ,NGM College Unit-2 NATIONAL SERVICES SCHEME in a joint venture With Bharat Ratna C. SUBRAMANIAM Trust collected Plastics and Wastes in PURAVIPALAYAM village located near Pollachi.

(CLEAN INDIA 2022)

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Criteria: **VII : Institutional Values and Best Practices**

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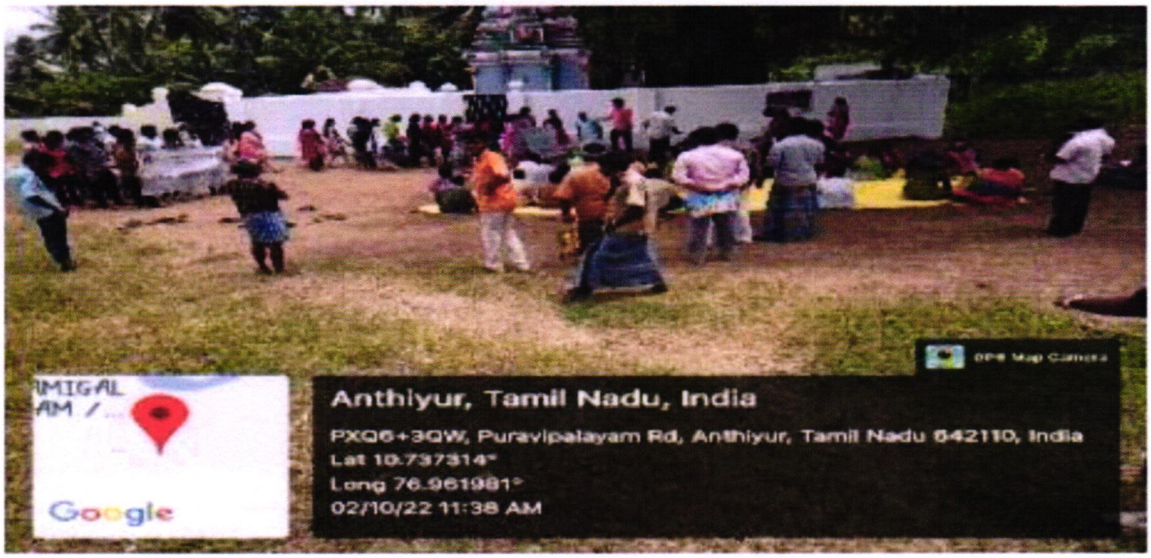
We delivering an awareness to the village people about plastics and to avoid usage of plastics and making them to come under our vision (Non-Usage of plastics).



NALLAMUTHU GOUNDER POLLACHI MAHALINGAM COLLEGE

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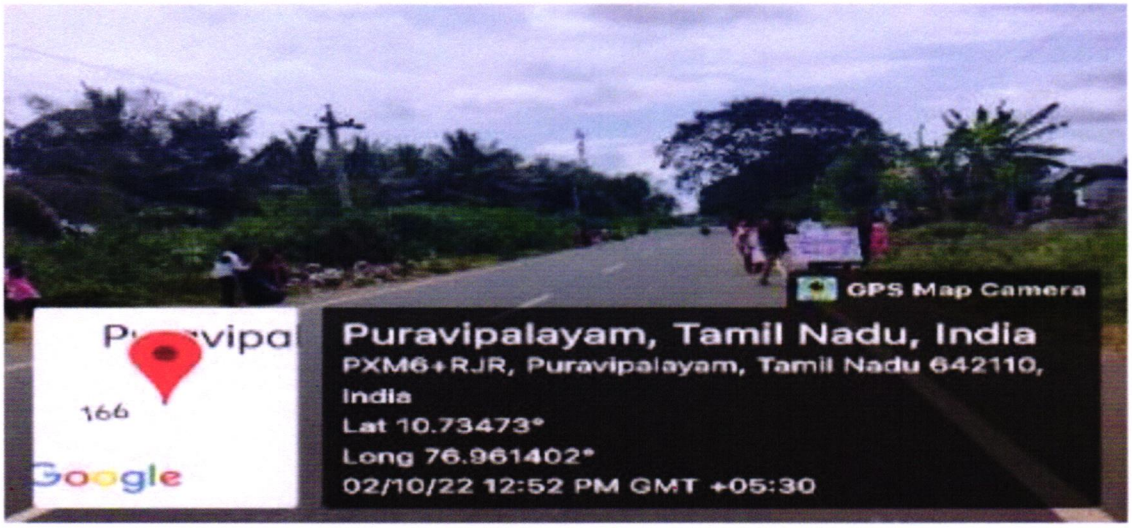

We are in-action of collecting and gathering wastes form villages and we delivering an awareness to the village people about plastics and to avoid usage of plastics and making them to come under our vision (Non-usage of plastics).

NALLAMUTHU GOUNDER MAHALINGAM COLLEGE POLLACHI

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5. Medical Camp - 24.09.2022 - National Service Scheme

Event ID:

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Pollachi – 642 001

Name of the Activity :MEDICAL CAMP		
Date :24.09.2022	**No. of Days :1**	**Venue : SUPENDAPUDDUR**
Department : NSS – National Service Scheme		
Name of Organizers : S.Vigneshkumar – NSS Programming Officer		
No. of Staff Participants: 3		
No. of Students Participants:20		
Name of the Scheme:		

The National Service Scheme and nachimuthu nursing home Medical camp organized a one-day free medical camp for the benefit of public in supendapuddur Village on 24th sep 2022 . The medical camp was conducted at government school in supendapuddur and its organizing team included 20 NSS volunteers.

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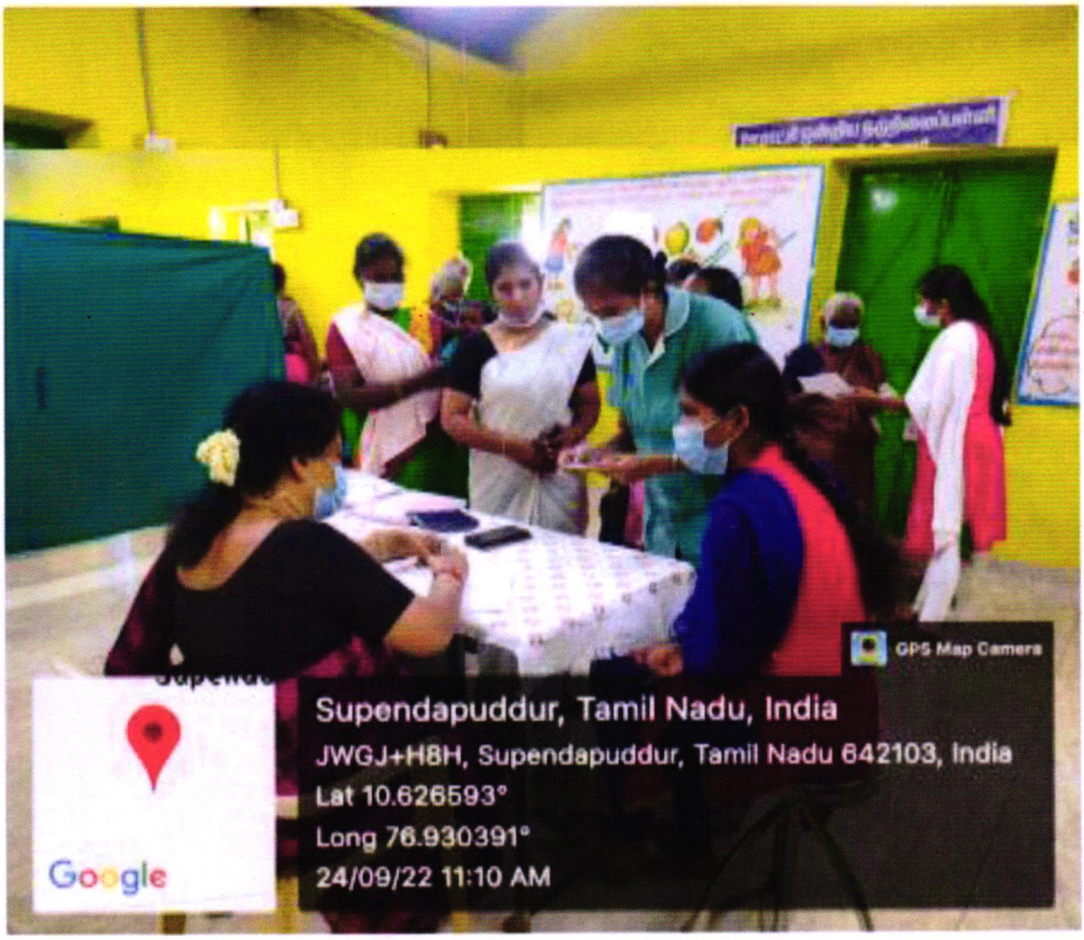
Many villagers participated in the camp thanks to wide publicity by NSS volunteers. In total, 3 villagers attended the medical camp and benefitted. The NSS also arranged for free Blood Sugar Level and Blood Pressure tests which were hugely useful for many villagers.



The NSS volunteers played a vital role in making this camp success with their dedication in serving people, they directed people in all needy way.

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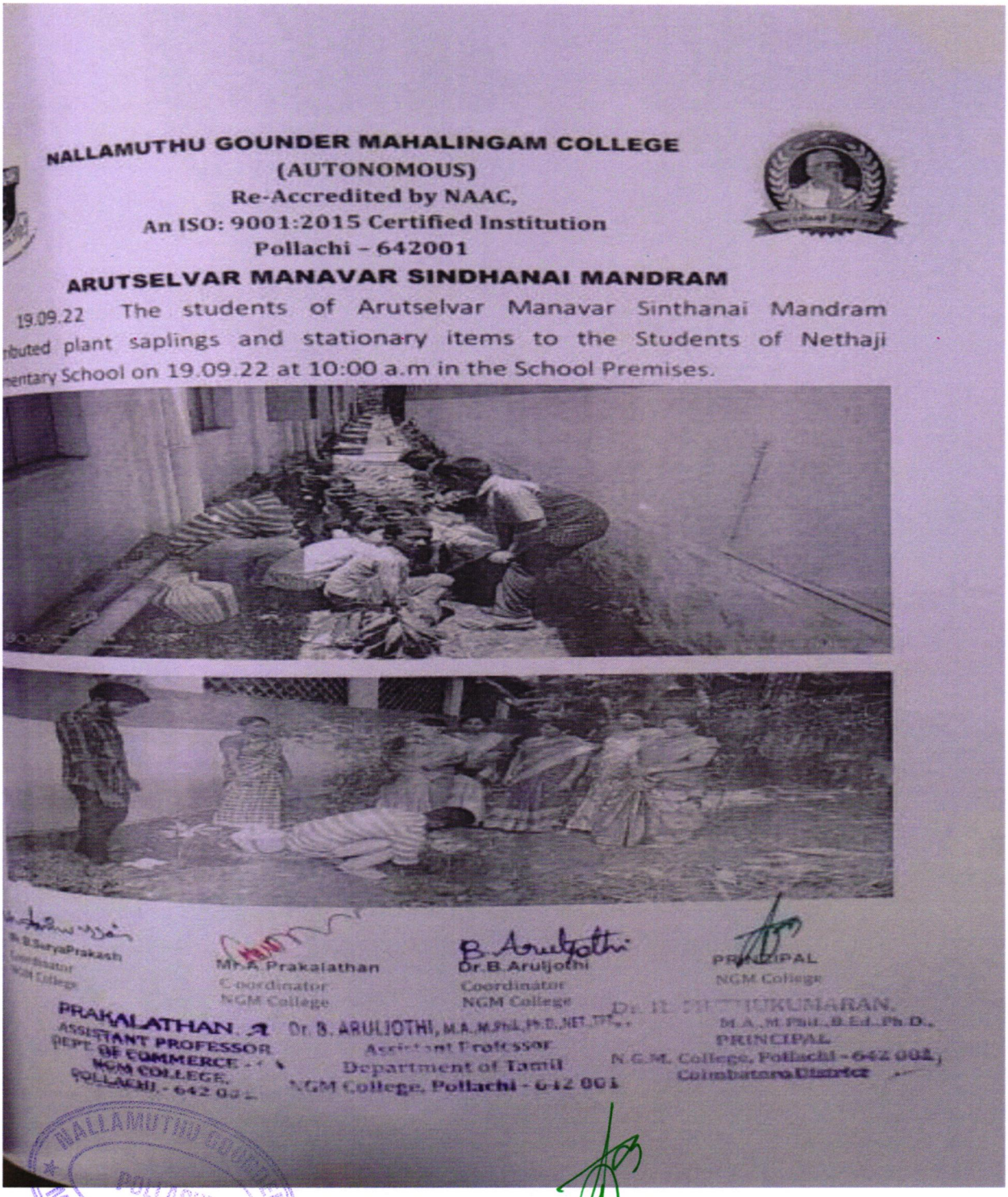
6. Planting of trees and stationery distribution - 19.09.2022 - Arutchelvar Manavar Sinthanai Mandram



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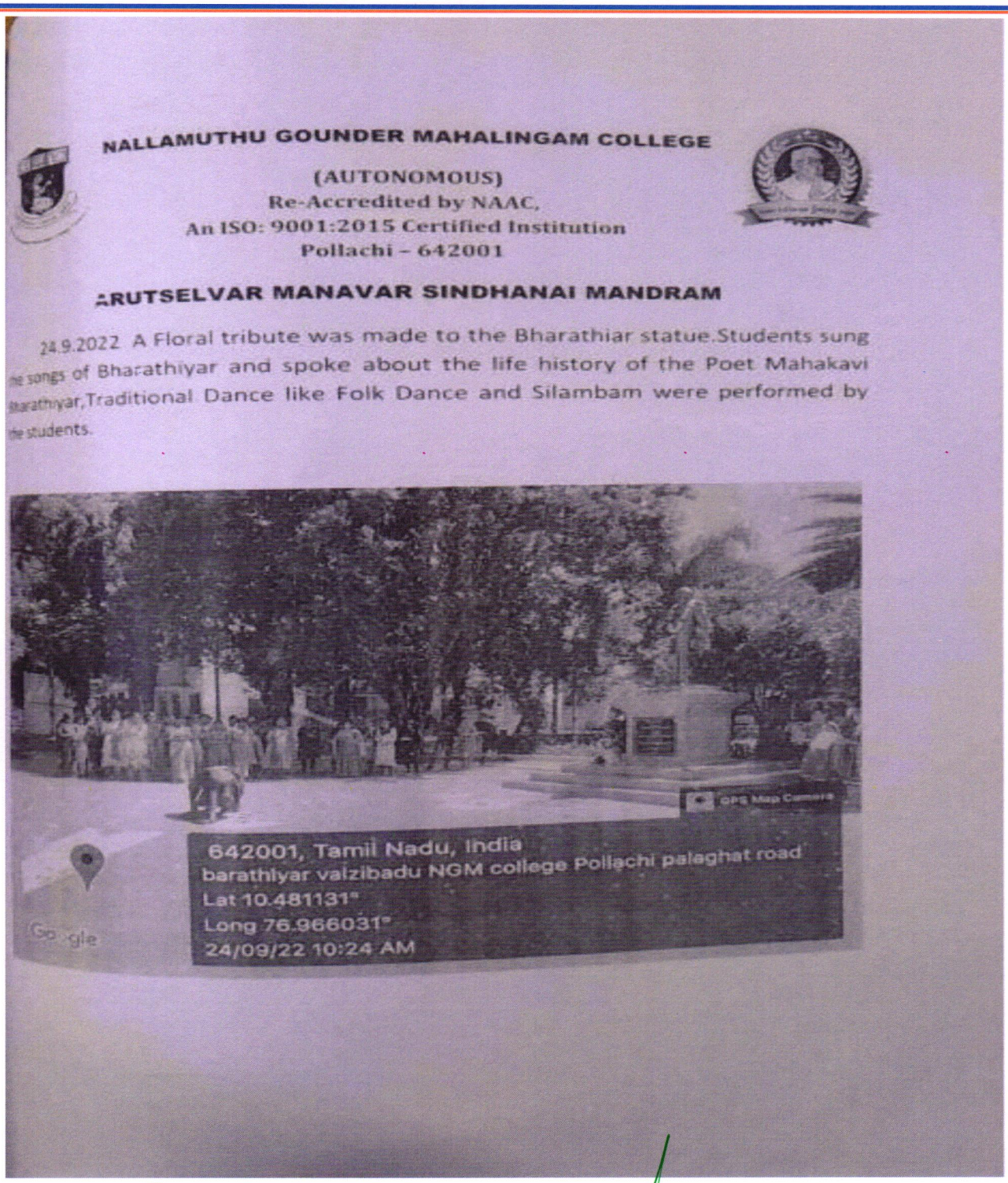

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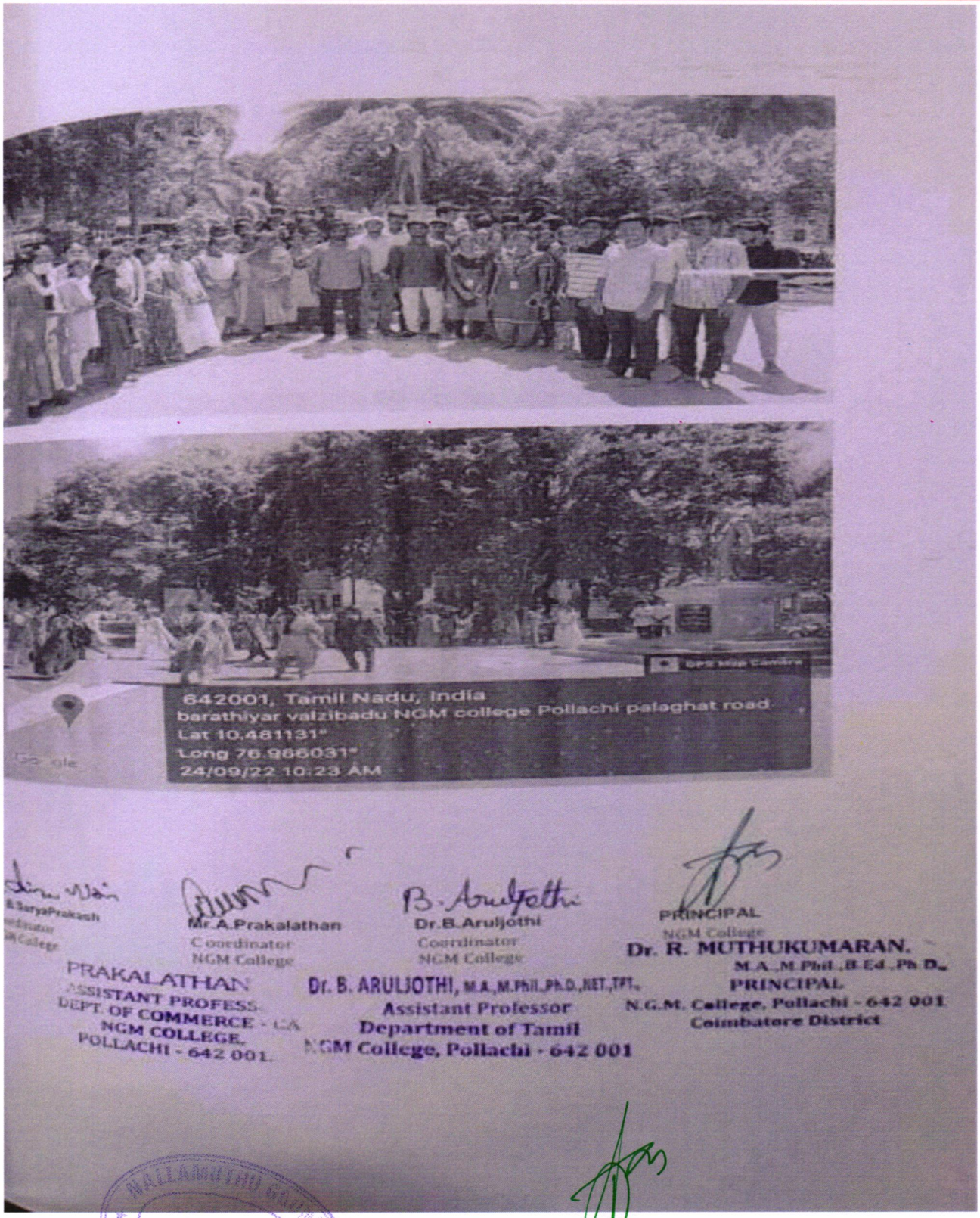

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7. Planting of tree saplings – 15.08.2022 - Arutchelvar Manavar Sinthanai Mandram

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(AUTONOMOUS)

Re-Accredited by NAAC.

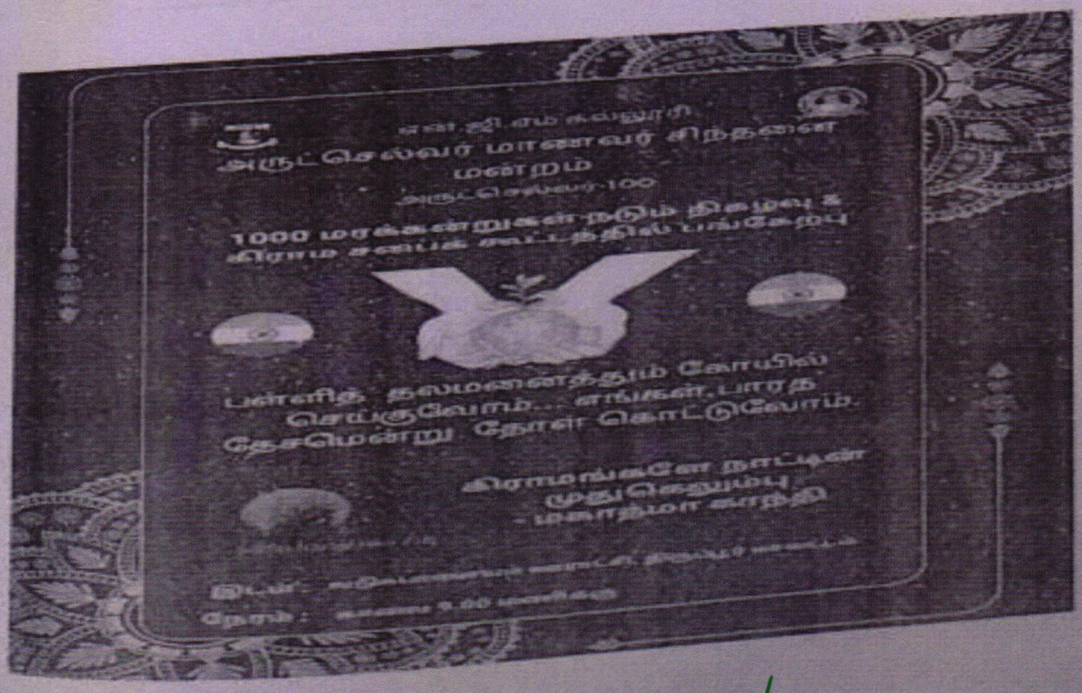
An ISO: 9001:2015 Certified Institution

Pollachi – 642001

ARUTSELVAR MANAVAR SINDHANAI MANDRAM

IQAC/2022-23/SEP/036

15.08.2022 To conserve nature a series of saplings nearly 1000 plant saplings were planted in Vadugapalayam on 15.08.2022 by the students of NGM in Tirupur District. Grama sabha officers participated in this event. In the programme an awareness was created to learn about the significance of planting and the role of Gramasabha members and the benefits to the people.



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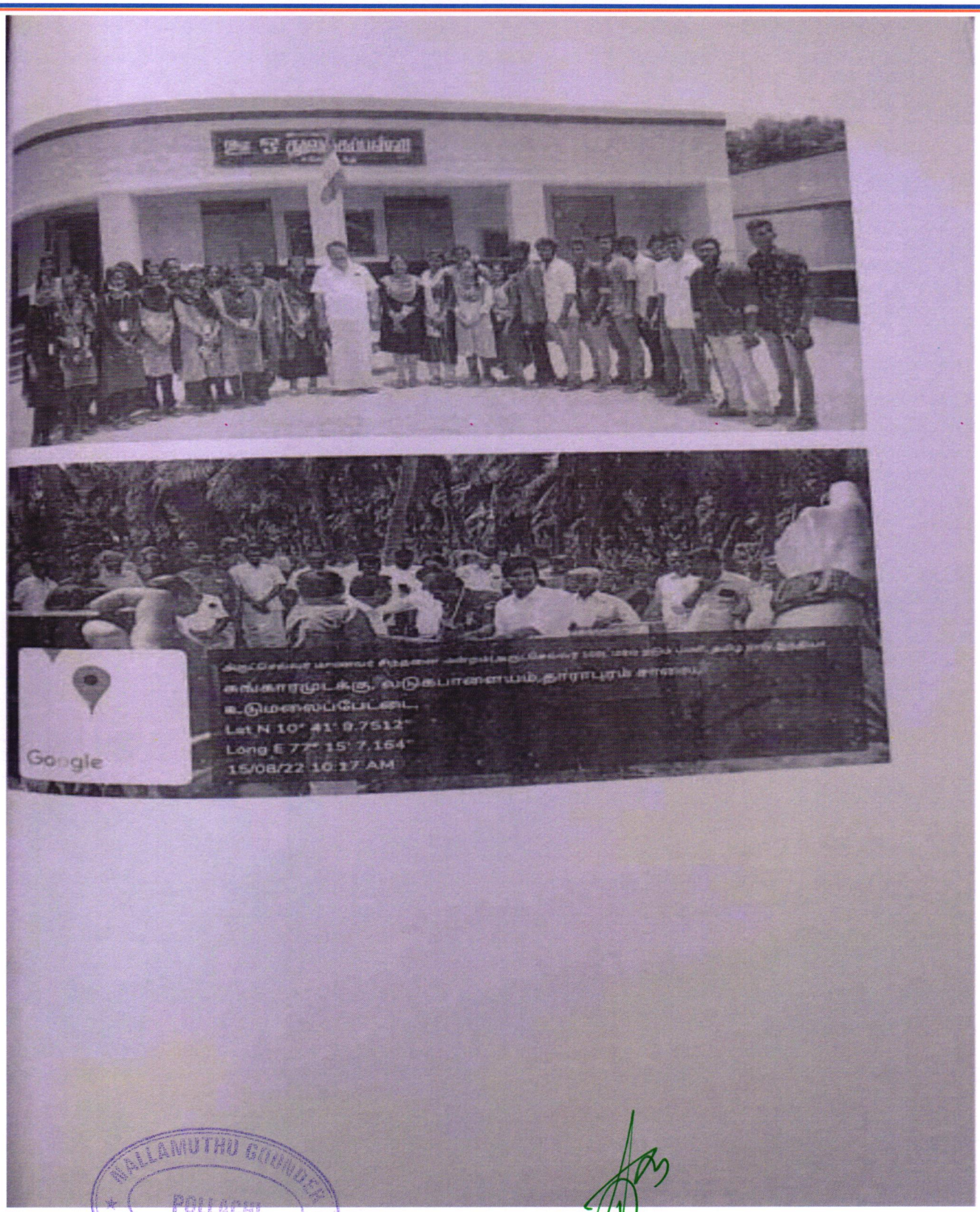

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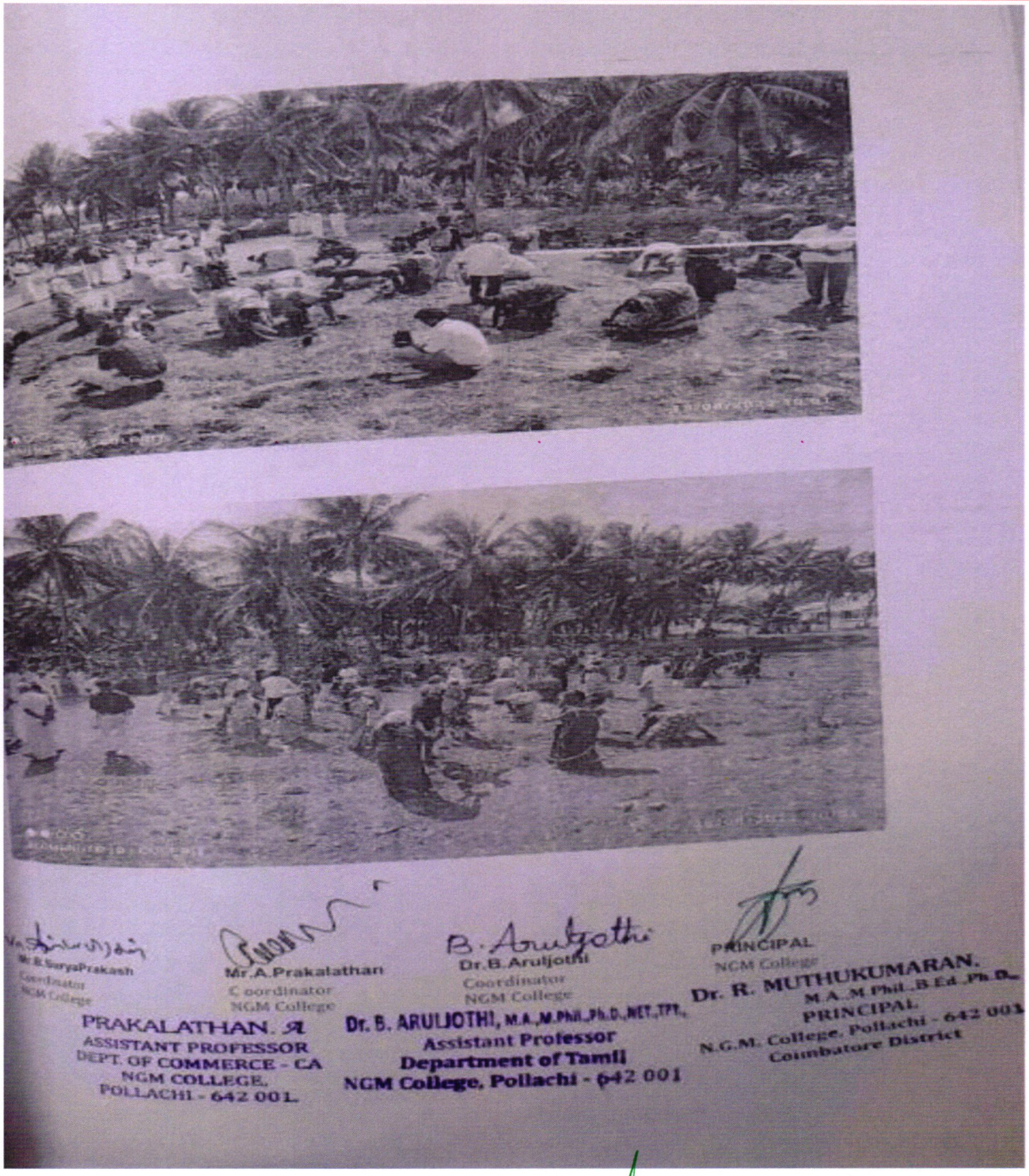

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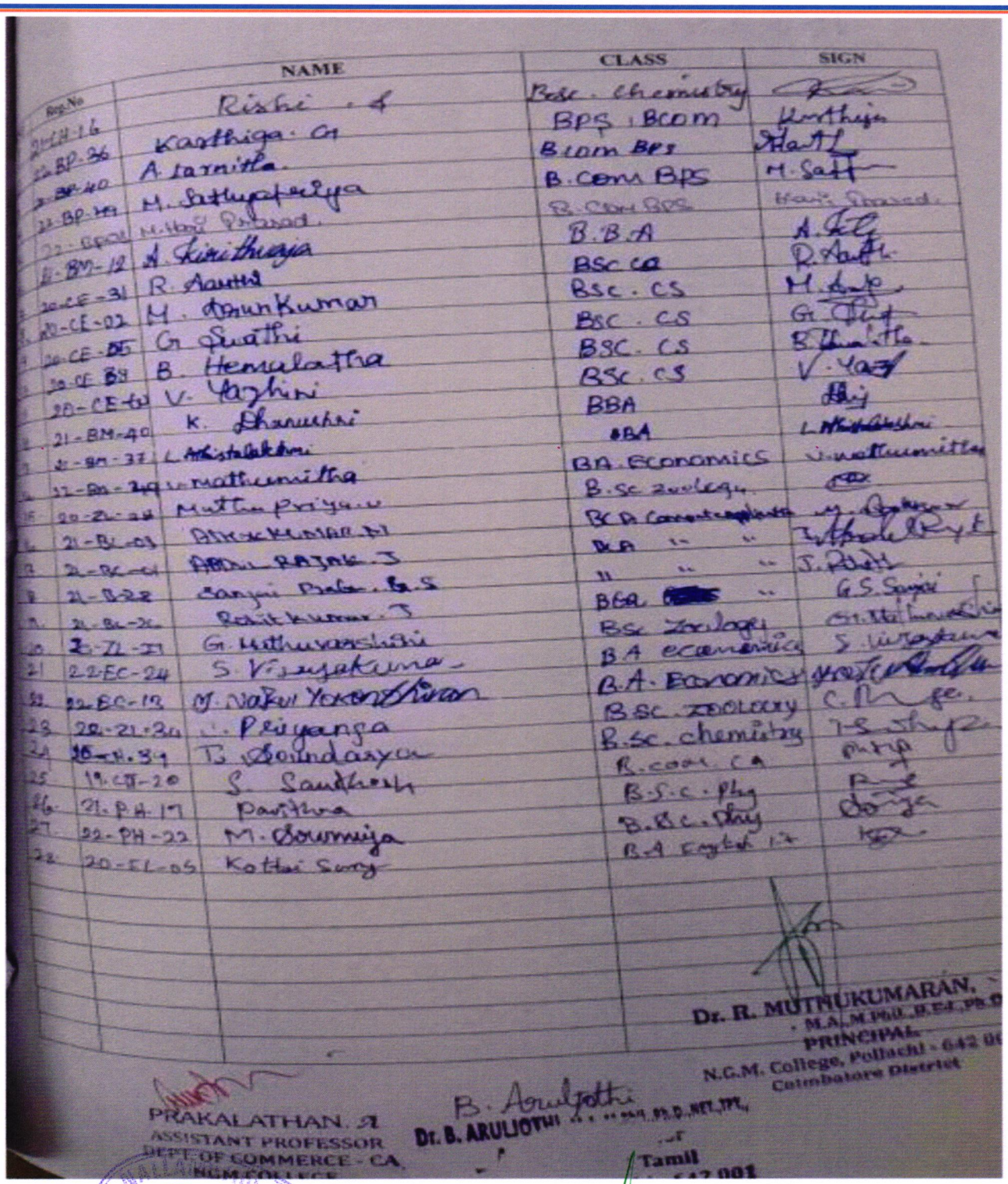
NGMC IQAC



Reg.No	NAME	CLASS	SIGN
21-CH-16	Rishi . S	Bsc. Chemistry	[illegible]
22-BP-36	Karthiga. G	BPS, BCOM	Karthiga
22-BP-40	A. Sarmitha.	B.Com BPS	[illegible]
22-BP-49	M. Sathyapriya	B.Com BPS	M. Sath
22-BP-01	M. Hari Prasad.	B.Com BPS	Hari Prasad.
21-BM-12	A. Kirithiga	B.B.A	A. [illegible]
20-CE-31	R. Aauthi	BSC CA	R. Aauthi
20-CE-02	M. Arun Kumar	BSC. CS	M. [illegible]
20-CE-05	G. Swathi	BSC. CS	G. [illegible]
20-CE-39	B. Hemalatha	BSC. CS	B. Hemalatha
20-CE-60	V. Yazhini	BSC. CS	V. Yazh
21-BM-40	K. Dhanushri	BBA	[illegible]
21-BM-37	L. Mahalakshmi	BBA	L. Mahalakshmi
22-BA-29	V. Mathumitha	BA. Economics	V. Mathumitha
20-ZL-28	Muthu Priya. V	B.Sc Zoology	[illegible]
21-BC-03	ABDUL KUMAR. M	BCA Commerce Applications	M. [illegible]
21-BC-01	ABDUL RAJAK. J	BCA " "	[illegible]
21-B-22	Sanjai Prabu. G.S	" " "	J. [illegible]
21-BC-26	Rohit Kumar. J	BCA "	G.S. Sanjai
20-ZL-27	G. Mathuvarshini	BSc Zoology	G. Mathuvarshini
22-EC-24	S. Vijayakumar	B.A economics	S. Vijayakumar
22-EC-13	M. Nakul Yokanthiran	B.A. Economics	[illegible]
22-ZL-30	J. Priyanga	B.Sc. Zoology	C. [illegible]
20-CH-39	T. Soundarya	B.Sc. chemistry	T.S. [illegible]
19-CH-20	S. Santhosh	B.com CA	[illegible]
21-PH-17	Pavithra	B.S.C. Phy	[illegible]
22-PH-22	M. Sowmiya	B.Sc. Phy	[illegible]
20-EL-05	Kothai Sury	B.A English Lit	[illegible]

Dr. R. MUTHUKUMARAN,
M.A., M.Phil., B.Ed., Ph.D.
PRINCIPAL
N.G.M. College, Pollachi - 642 001
Coimbatore District

PRAKALATHAN. A
ASSISTANT PROFESSOR
DEPT. OF COMMERCE - CA
NGM COLLEGE

B. Aruljothi
Dr. B. ARULJOTHI M.A., M.Phil., Ph.D., NET, TPL,
Tamil
642 001

NALLAMUTHU GOUNDER MAHALINGAM COLLEGE POLLACHI

PRINCIPAL
N G M COLLEGE, POLLACHI

Nallamuthu Gounder Mahalingam College

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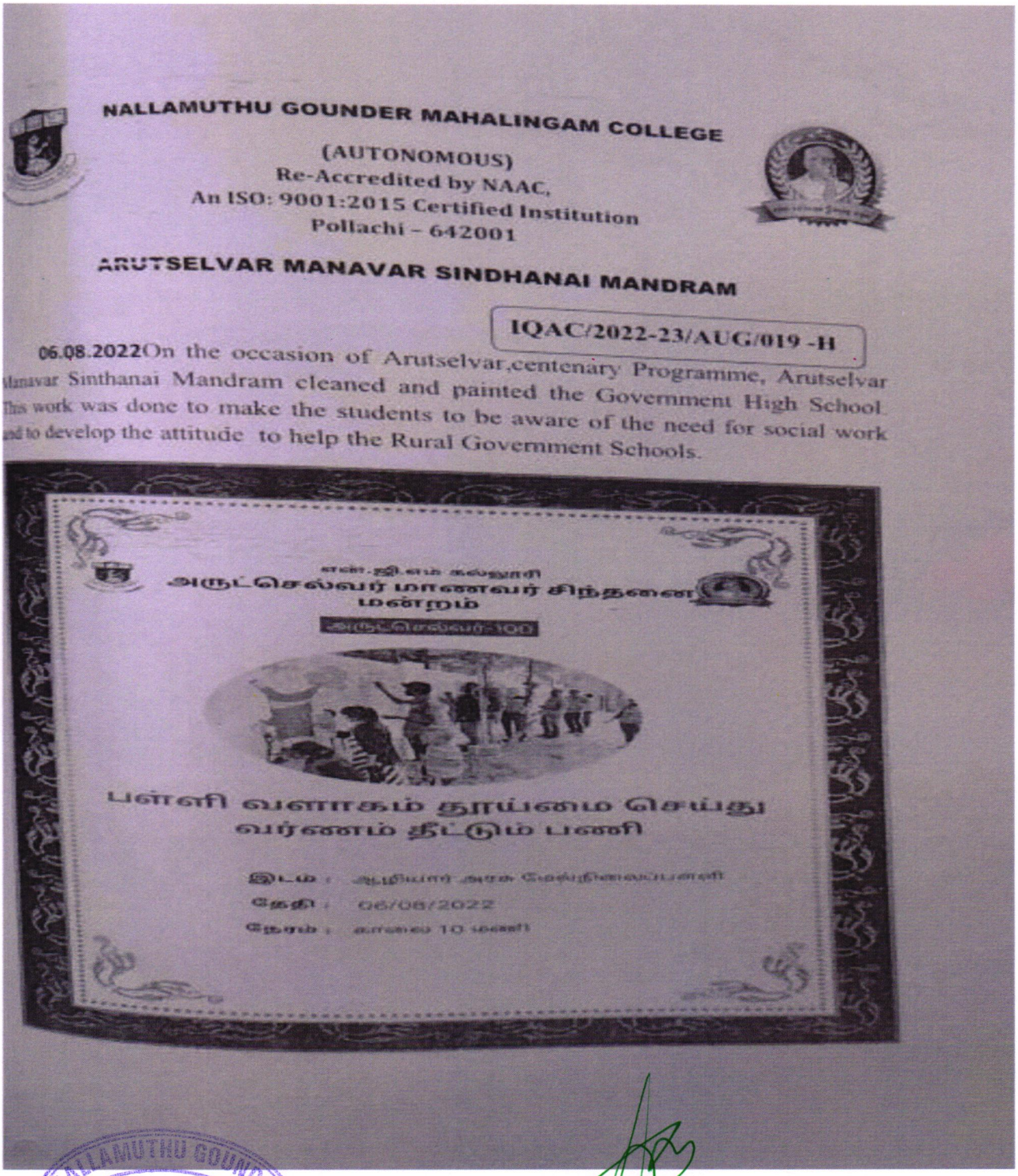
90, Palghat Road, Pollachi - 642001, Coimbatore, Tamil Nadu, India.

95th Rank in NIRF – 2023 among Colleges in India.

8. Cleaning of School Campus – 06.08.2022 - Arutchelvar Manavar Sinthanai Mandram



NALLAMUTHU GOUNDER MAHALINGAM COLLEGE

(AUTONOMOUS)

Re-Accredited by NAAC,

An ISO: 9001:2015 Certified Institution

Pollachi – 642001

ARUTSELVAR MANAVAR SINDHANAI MANDRAM

IQAC/2022-23/AUG/019 -H

06.08.2022On the occasion of Arutselvar,centenary Programme, Arutselvar Manavar Sinthanai Mandram cleaned and painted the Government High School. This work was done to make the students to be aware of the need for social work and to develop the attitude to help the Rural Government Schools.

அருட்செல்வர் மாணவர் சிந்தனை மன்றம்

பள்ளி வளாகம் தூய்மை செய்து வர்ணம் தீட்டும் பணி

இடம் :

தேதி : 06/06/2022

நேரம் :

NALLAMUTHU GOUNDER MAHALINGAM COLLEGE POLLACHI

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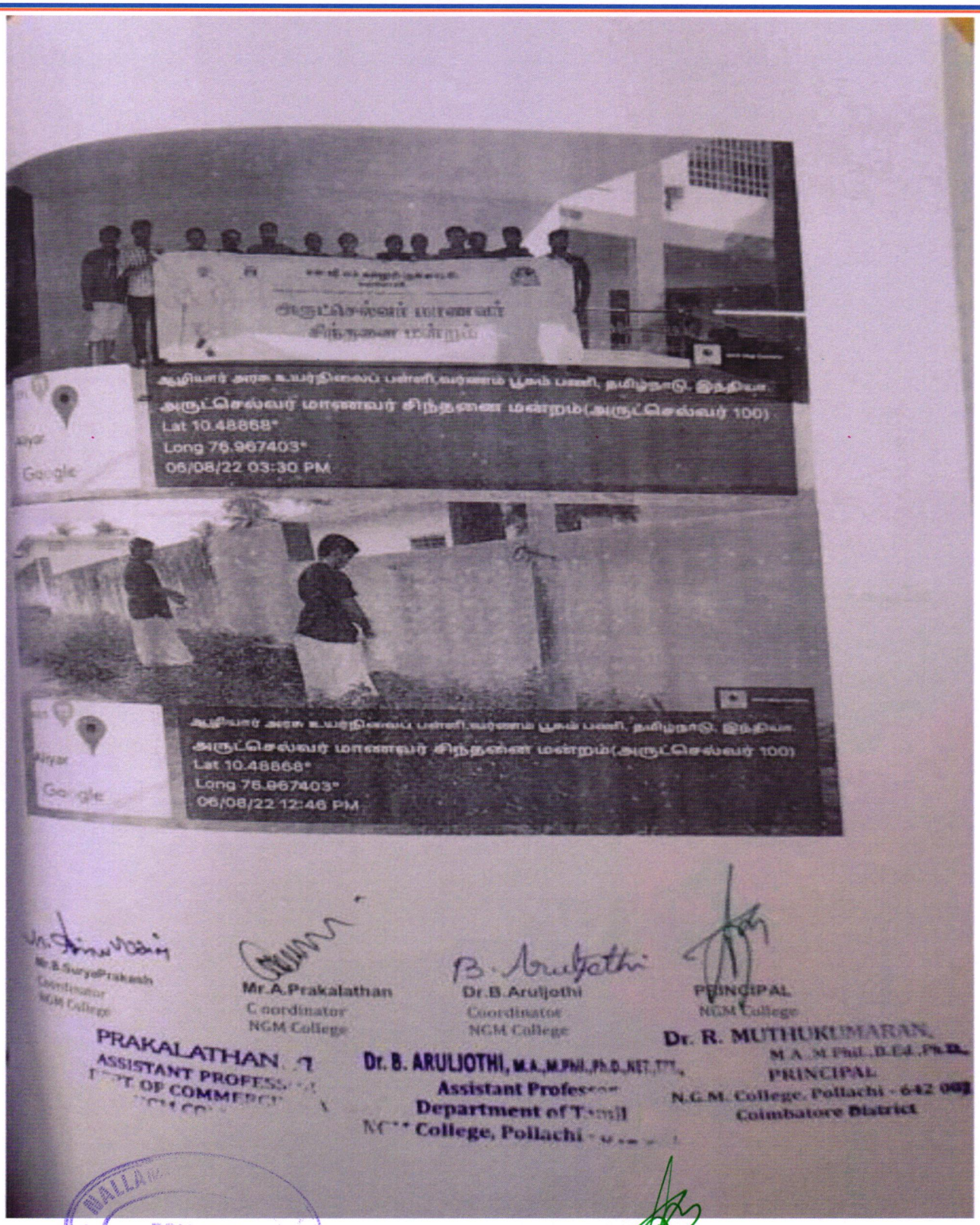

NAME	DEPARTMENT	PHONE NO	SIGN
M.S. Meendosini	B.A Eng Lit	7339581837	[signature]
A. Asma	B.A. Eng. lit	6374784794	Asma A
K. Harini	B.A. Eng. lit	7034621760	K. Harini
S. Jothi Saranya	B.A. Eng. lit	6374539704	S. Jothi
N. Shobana	B.A. Eng lit	9342385729	N. Sh
M.M. Urchavi	B.A. Eng lit	9976750720	M.M. U
E. Yazhini	B.A. Eng lit	9360960457	E. Yazhi
K. Aswath	B.A. Eng lit	9600721074	K. Asw
9 S. Bharathi	"	8428510292	Bharathi
10 R. Poovarasi	"	9944618047	R. P
11 K. Gayathri	B.A Eng lit	9487422371	K. Gay
12 S. Jenifer Juliet	BA Eng Lit	7708649600	S. Jenif.
13 M. Prabashini	B.A Eng Lit	9865409790	M. Prabas
14 S. Sabeetha	B.A Eng Lit	8056305707	S. Sab
15 T. Vaishnavi	B.A. Eng. lit	9597033510	T. Vaishnavi
16 K.M. Selvanandhini	B Sc CS(Aided)	8220235651	K. M. Selvanandhini

NALLAMUTHU GOUNDER MAHALINGAM COLLEGE POLLACHI

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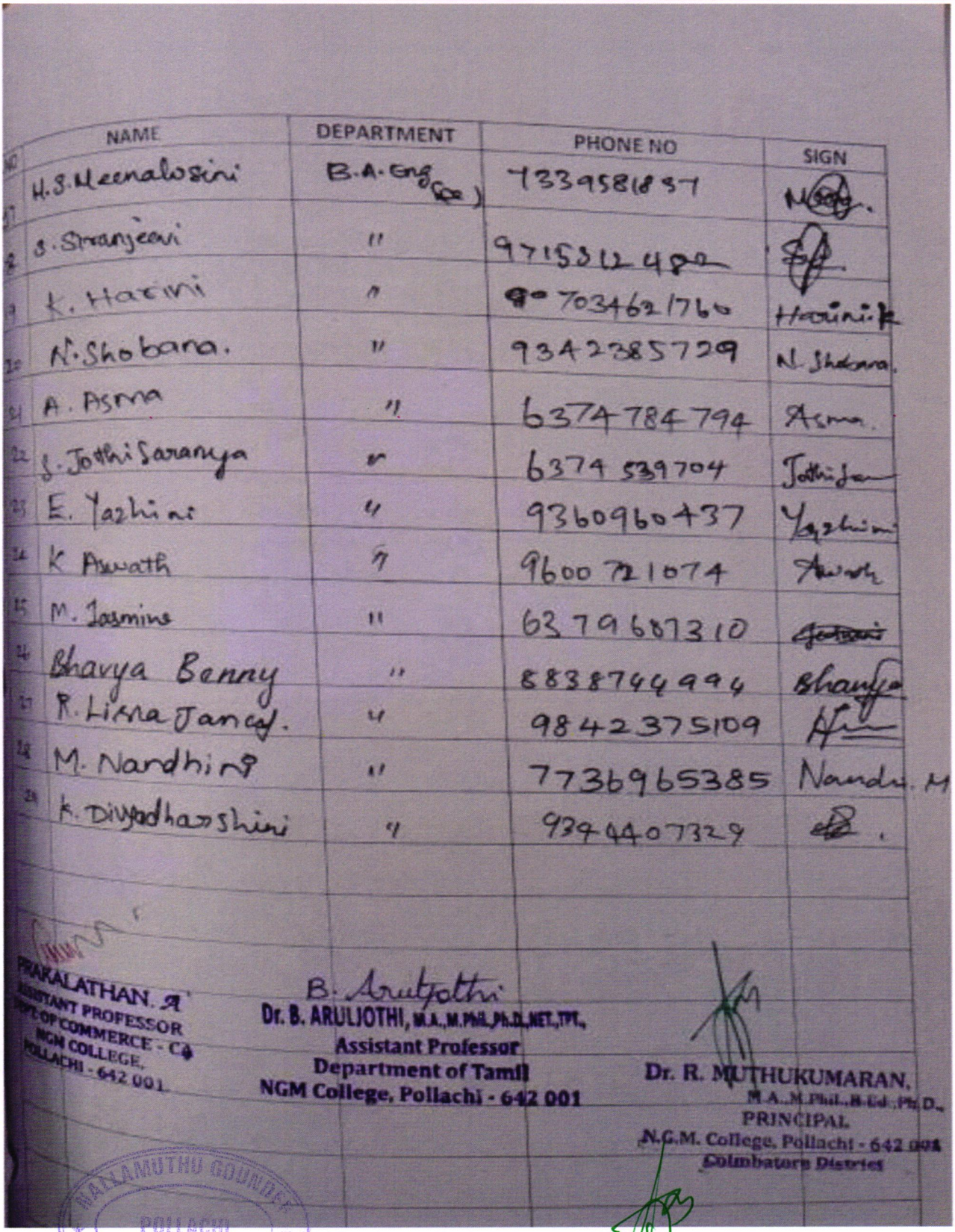
NGMC IQAC



NO	NAME	DEPARTMENT	PHONE NO	SIGN
17	H.S. Meenalosini	B.A. Eng (SE)	7339581837	[signature]
18	S. Sranjeevi	"	9715312482	[signature]
19	K. Harini	"	7034621760	Harini.K
20	N. Shobana.	"	9342385729	N. Shobana.
21	A. Asma	"	6374784794	Asma.
22	S. Jothi Saranya	"	6374539704	Jothi Sa
23	E. Yazhini	"	9360960437	Yazhini
24	K Aswath	"	9600721074	Aswath
25	M. Jasmine	"	6379687310	[signature]
26	Bhavya Benny	"	8838744994	Bhavya
27	R. Lisna Jancy.	"	9842375109	[signature]
28	M. Nandhini	"	7736965385	Nandhini. M
29	K. Divyadharshini	"	9344407329	[signature]

PRAKALATHAN. A
ASSISTANT PROFESSOR
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POLLACHI - 642 001.

B. Arulyothi
Dr. B. ARULJOTHI, M.A., M.Phil., Ph.D., NET., TPT.,
Assistant Professor
Department of Tamil
NGM College, Pollachi - 642 001

Dr. R. MUTHUKUMARAN,
M.A., M.Phil., B.Ed., Ph.D.,
PRINCIPAL
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Coimbatore District

NALLAMUTHU GOUNDER MAHALINGAM COLLEGE POLLACHI

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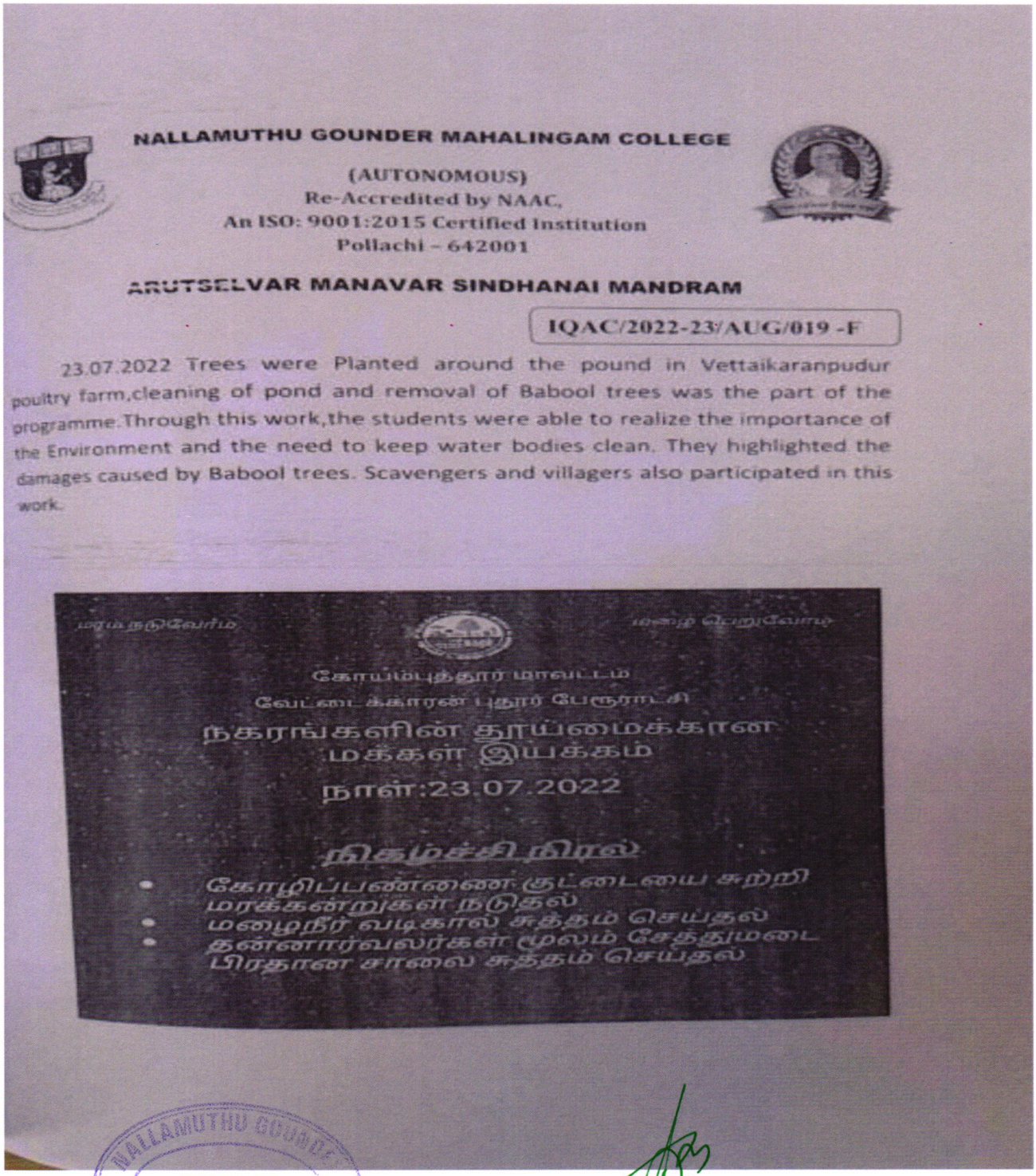
9. Nagarangal Thuimaikkana makkal iyakkam - 23.07.2022 - Arutchelvar Manavar Sinthanai Mandram



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Pollachi – 642001

ARUTSELVAR MANAVAR SINDHANAI MANDRAM

IQAC/2022-23/AUG/019 -F

23.07.2022 Trees were Planted around the pound in Vettaikaranpudur poultry farm,cleaning of pond and removal of Babool trees was the part of the programme.Through this work,the students were able to realize the importance of the Environment and the need to keep water bodies clean. They highlighted the damages caused by Babool trees. Scavengers and villagers also participated in this work.

NALLAMUTHU GOUNDER MAHALINGAM COLLEGE POLLACHI

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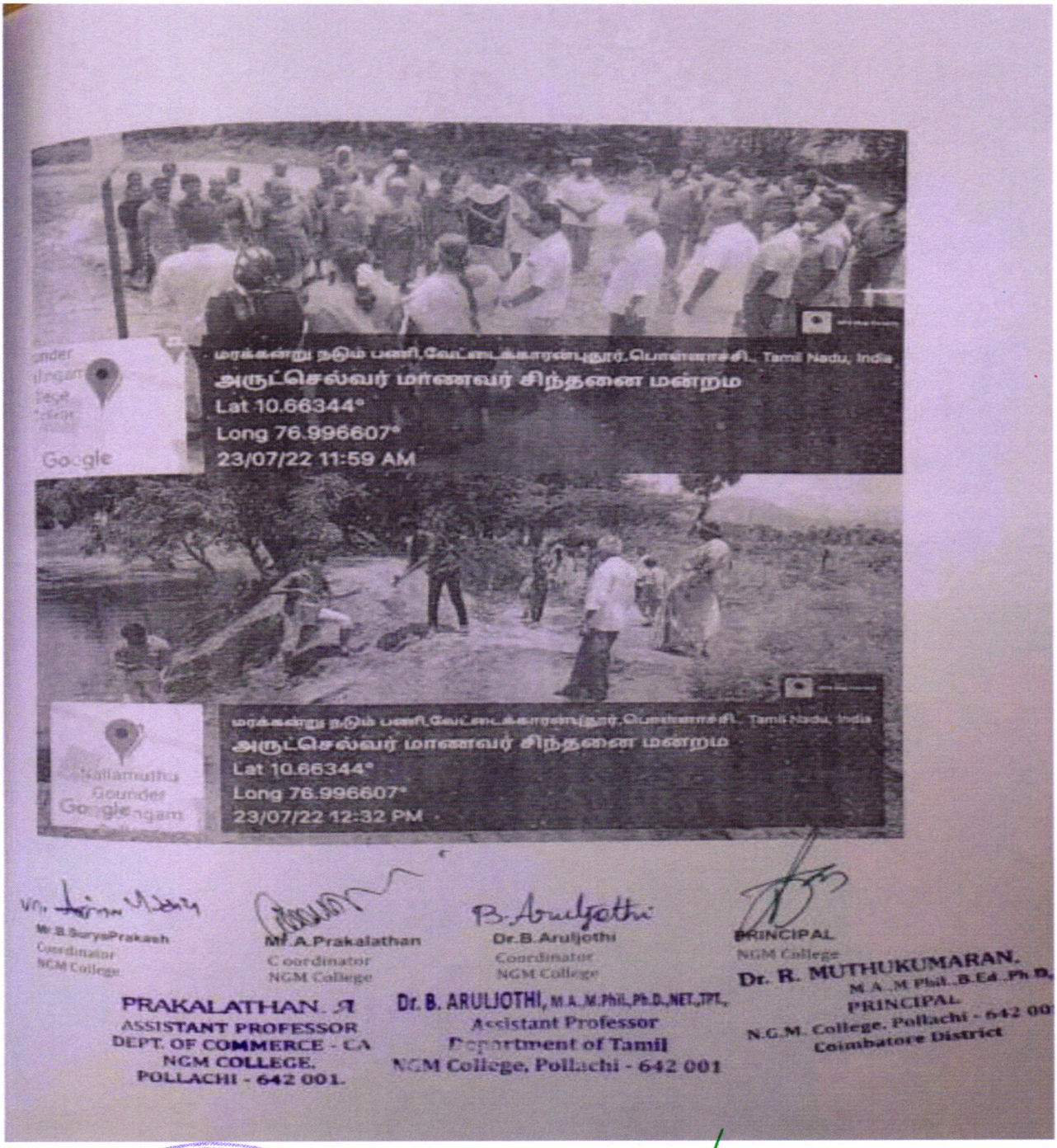

NALLAMUTHU GOUNDER MAHALINGAM COLLEGE POLLACHI

PRINCIPAL
N.G.M COLLEGE, POLLACHI

Criteria: **VII : Institutional Values and Best Practices**

Nallamuthu Gounder Mahalingam College

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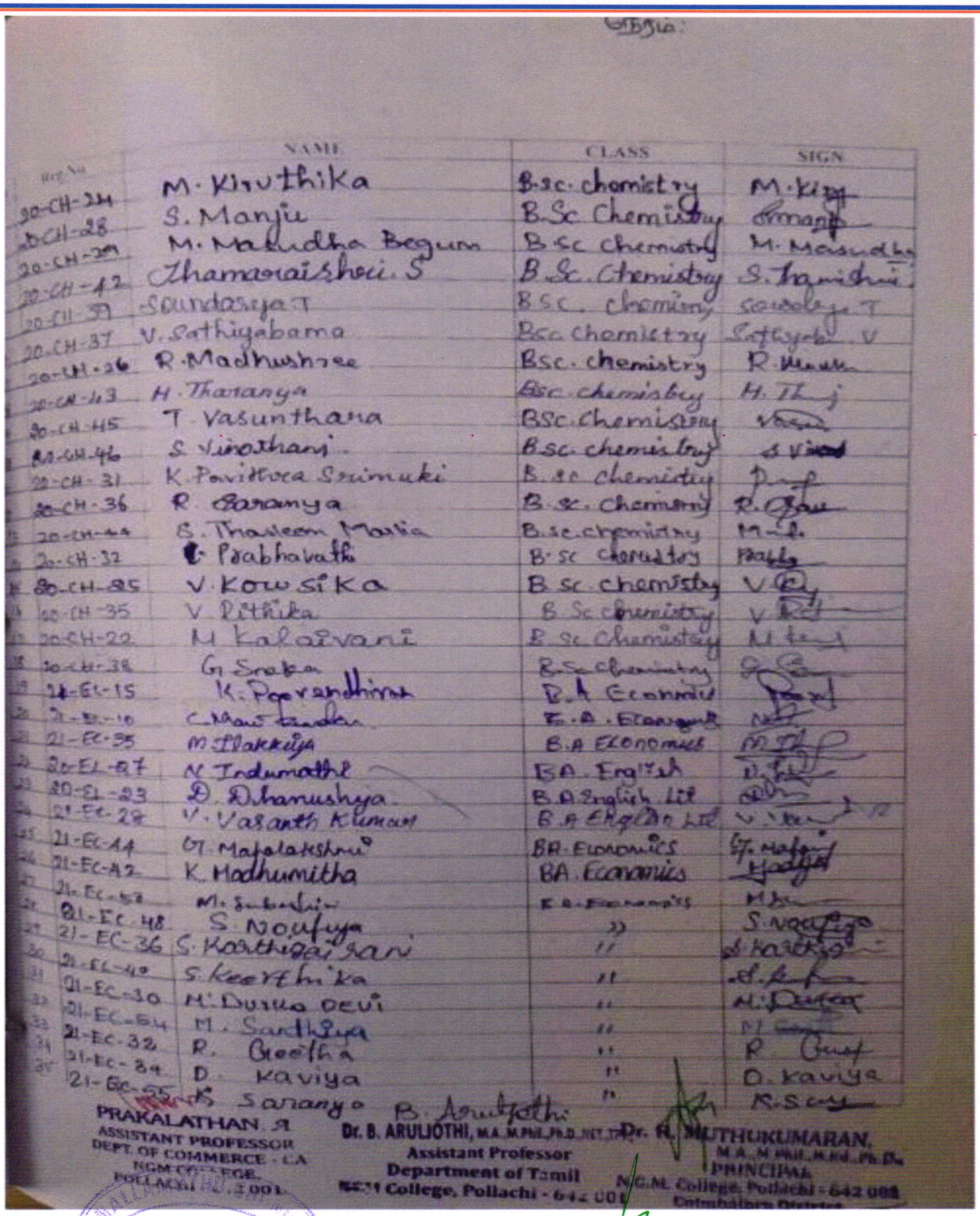

Reg. No	NAME	CLASS	SIGN
20-CH-34	M. Kiruthika	B.Sc. chemistry	M. Kiruthika
20-CH-28	S. Manju	B.Sc Chemistry	Manju
20-CH-39	M. Mahidha Begum	B.Sc Chemistry	M. Mahidha
20-CH-42	Thamaraiselvi. S	B.Sc. Chemistry	S. Thamaraiselvi
20-CH-37	Soundarya T	B.Sc. Chemistry	Soundarya T
20-CH-37	V. Sathigabama	Bsc Chemistry	Sathigabama. V
20-CH-26	R. Madhushree	Bsc. chemistry	R. Madhushree
20-CH-43	H. Tharanya	Bsc. chemistry	H. Tharanya
20-CH-45	T. Vasunthara	BSc. Chemistry	Vasunthara
20-CH-46	S. Vinothani	B.Sc. chemistry	S. Vinothani
20-CH-31	K. Pavithra Srimuki	B.Sc chemistry	Pavithra
20-CH-36	R. Saranya	B.Sc. Chemistry	R. Saranya
20-CH-44	S. Thaseem Maria	B.Sc. Chemistry	S. Thaseem Maria
20-CH-32	Prabhavathi	B.Sc Chemistry	Prabhavathi
20-CH-25	V. Kowsika	B.Sc. chemistry	V. Kowsika
20-CH-35	V. Rithika	B.Sc chemistry	V. Rithika
20-CH-22	M. Kalaivani	B.Sc. Chemistry	M. Kalaivani
20-CH-38	G. Sneka	B.Sc. chemistry	G. Sneka
21-EC-15	K. Poorvanthini	B.A Economics	K. Poorvanthini
21-EC-10	C. Manitandan	B.A. Economics	C. Manitandan
21-EC-35	M. Illakkiya	B.A Economics	M. Illakkiya
20-EL-07	N. Indumathi	B.A. English	N. Indumathi
20-EL-23	D. Dhanushya	B.A English Lit	D. Dhanushya
21-EC-28	V. Vasanth Kumar	B.A English Lit	V. Vasanth Kumar
21-EC-14	G. Mahalakshmi	BA. Economics	G. Mahalakshmi
21-EC-42	K. Madhumitha	BA. Economics	K. Madhumitha
21-EC-53	M. Subashini	B.A. Economics	M. Subashini
21-EC-48	S. Noufiya	"	S. Noufiya
21-EC-36	S. Karthikeyani	"	S. Karthikeyani
21-EC-40	S. Keerthika	"	S. Keerthika
21-EC-30	M. Durga Devi	"	M. Durga Devi
21-EC-54	M. Santhiya	"	M. Santhiya
21-EC-32	R. Geetha	"	R. Geetha
21-EC-34	D. Kaviya	"	D. Kaviya
21-EC-55	S. Saranya	"	S. Saranya

PRAKALATHAN. R
ASSISTANT PROFESSOR
DEPT. OF COMMERCE - CA
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POLLACHI - 642 001

Dr. B. ARULJOTHI, M.A., M.Phil., Ph.D., NET
Assistant Professor
Department of Tamil
College, Pollachi - 642 001

Dr. R. MUTHUKUMARAN, M.A., M.Phil., M.Ed., Ph.D.
PRINCIPAL
N.G.M. College, Pollachi - 642 001

POLLACHI
MAHALINGAM COLLEGE

PRINCIPAL
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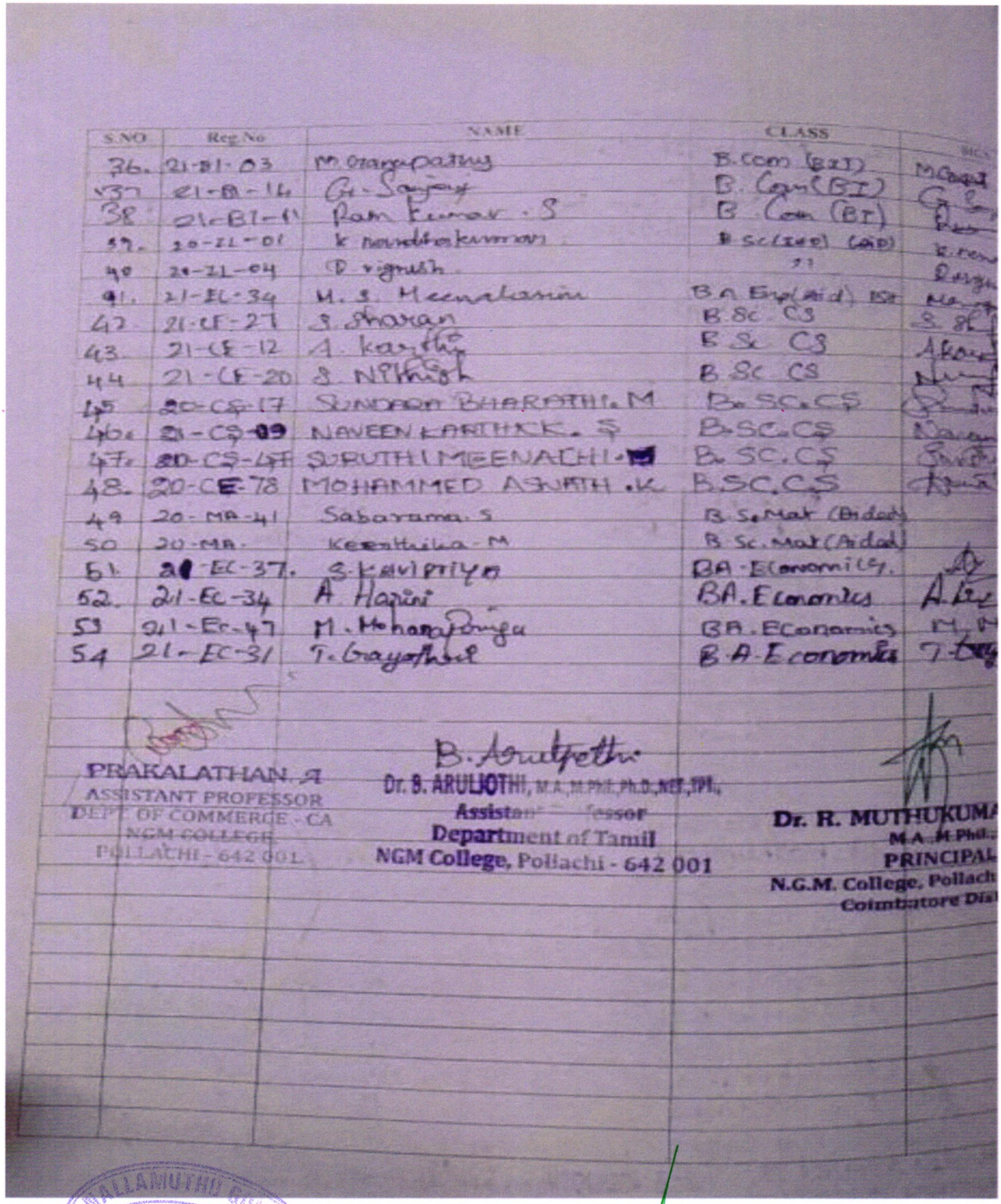

NGMC IQAC

S.NO	Reg No	NAME	CLASS	SIGN
36.	21-BI-03	M. Ganapathy	B.Com (BI)	M.Ganapathy
37	21-BI-14	G. Sanjay	B. Com (BI)	G. Sanjay
38	21-BI-11	Ram Kumar. S	B. Com (BI)	[illegible]
39.	20-IL-01	K. Nandhakumar	B.Sc (IAD) (AID)	K. Nandhakumar
40	21-IL-04	D. Vignesh	"	D. Vignesh
41.	21-EL-34	M. S. Meenakshini	B.A. Eng (Aid) 1st	[illegible]
42	21-CE-27	S. Sharan	B.Sc. CS	S. Sharan
43.	21-CE-12	A. Karthi	B.Sc. CS	A. Karthi
44	21-CE-20	S. Nithish	B.Sc. CS	[illegible]
45	20-CS-17	SUNDARA BHARATHI. M	B.SC.CS	[illegible]
46.	21-CS-09	NAVEEN KARTHICK. S	B.SC.CS	Naveen
47.	20-CS-47	SURUTHI MEENACHI. M	B.SC.CS	[illegible]
48.	20-CE-78	MOHAMMED ASWATH. K	B.SC.CS	[illegible]
49	20-MA-41	Sabarama. S	B.Sc. Mat (Aided)	
50	20-MA-	Keerthika. M	B.Sc. Mat (Aided)	
51.	21-EC-37.	S. Kavipriya	BA. Economics.	[illegible]
52.	21-EC-34	A. Harini	BA. Economics	A. Harini
53	21-EC-47	M. Mohanapriya	BA. Economics	M. M
54	21-EC-31	T. Gayathri	B.A. Economics	T. Gayathri

PRAKALATHAN. A
ASSISTANT PROFESSOR
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B. Arulpethi
Dr. B. ARULJOTHI, M.A., M.Phil., Ph.D., NET., TPL.,
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NGM College, Pollachi - 642 001

Dr. R. MUTHUKUMA
M.A., M.Phil.,
PRINCIPAL
N.G.M. College, Pollachi
Coimbatore Dist

NALLAMUTHU GOUNDER MAHALINGAM COLLEGE POLLACHI

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10. Save Nature - 21.07.2022 Arutchelvar Manavar Sinthanai Mandram

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(AUTONOMOUS)

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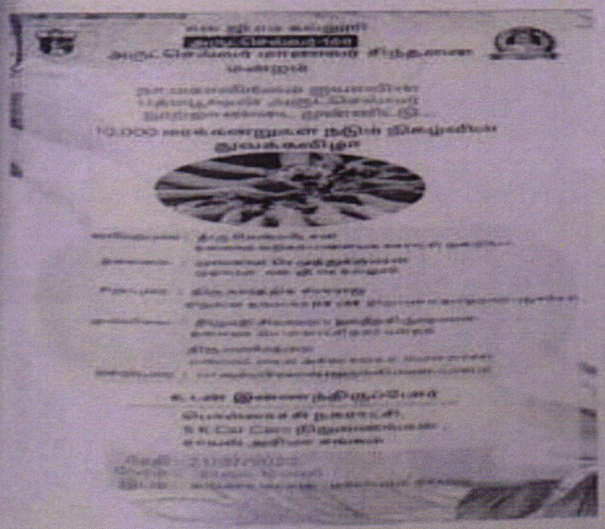
Pollachi – 642001

ARUTSELVAR MANAVAR SINDHANAI MANDRAM

IQAC/2022-23/AUG/019 -E

21.07.2022 Pollachi Municipality Pollachi Royals Lions Club NGM College students and 5K car care Company jointly organized 10,000 tree saplings planting event was held in Vadukapalayam. The event was Inaugurated by the principal of the College and he delivered a special address. Various members of organization also presented various information on social welfare.



NALLAMUTHU GOUNDER MAHALINGAM COLLEGE POLLACHI

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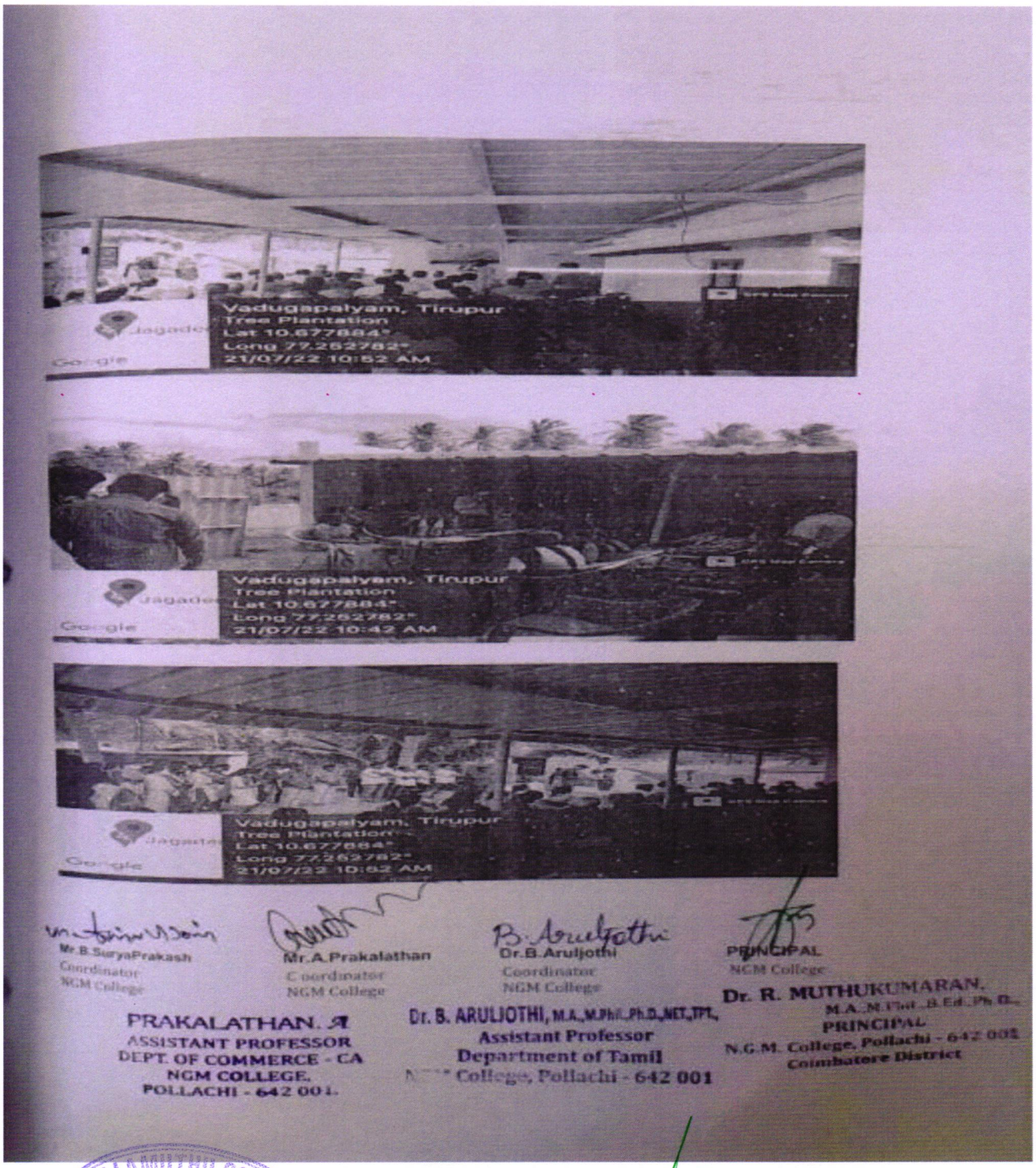

NALLAMUTHU GOUNDER MAHALINGAM COLLEGE POLLACHI

PRINCIPAL
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Criteria: **VII : Institutional Values and Best Practices**

Nallamuthu Gounder Mahalingam College

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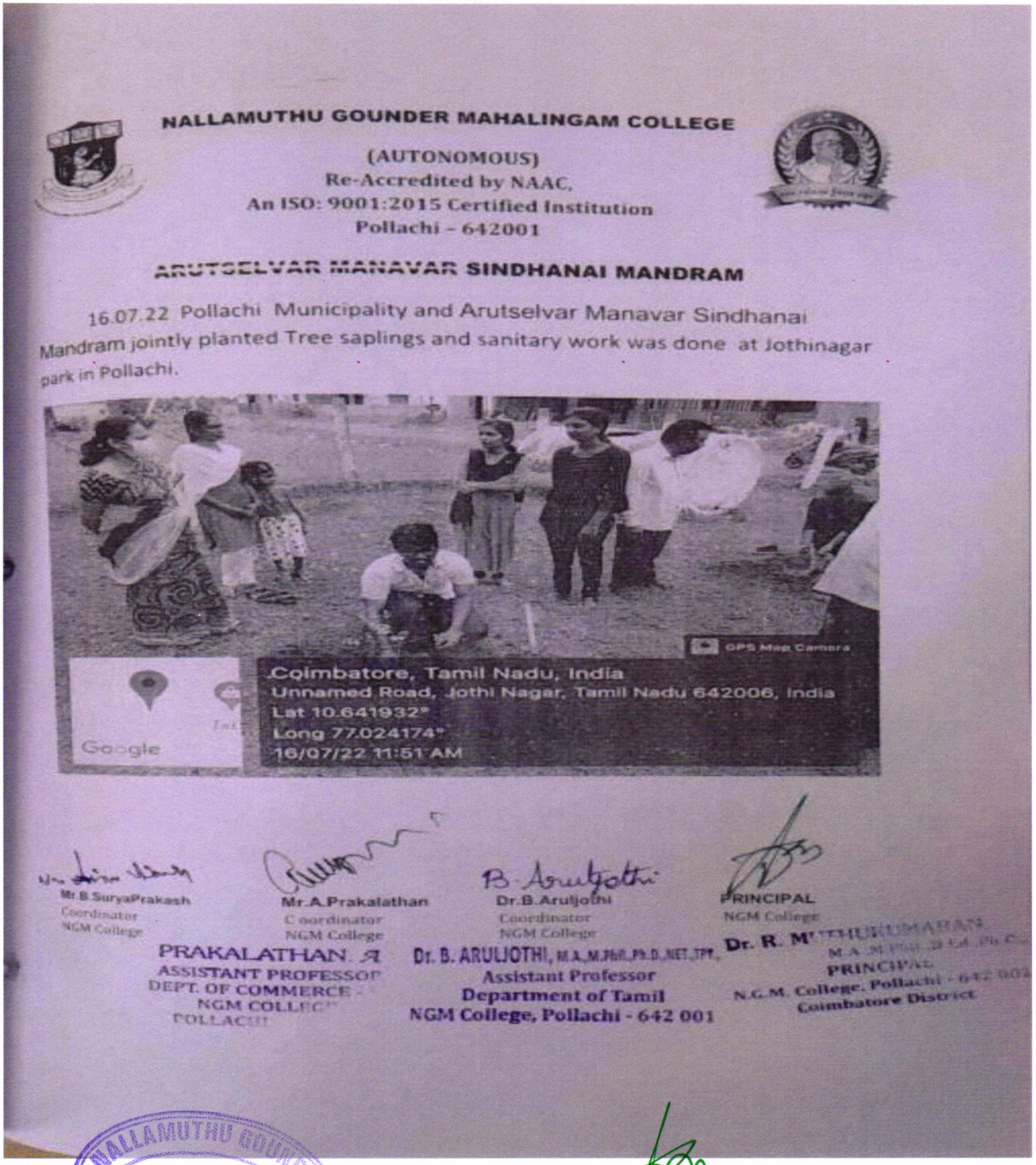
11. Planting of trees - 16.07.2022 - Arutchelvar Manavar Sinthanai Mandram



NALLAMUTHU GOUNDER MAHALINGAM COLLEGE POLLACHI

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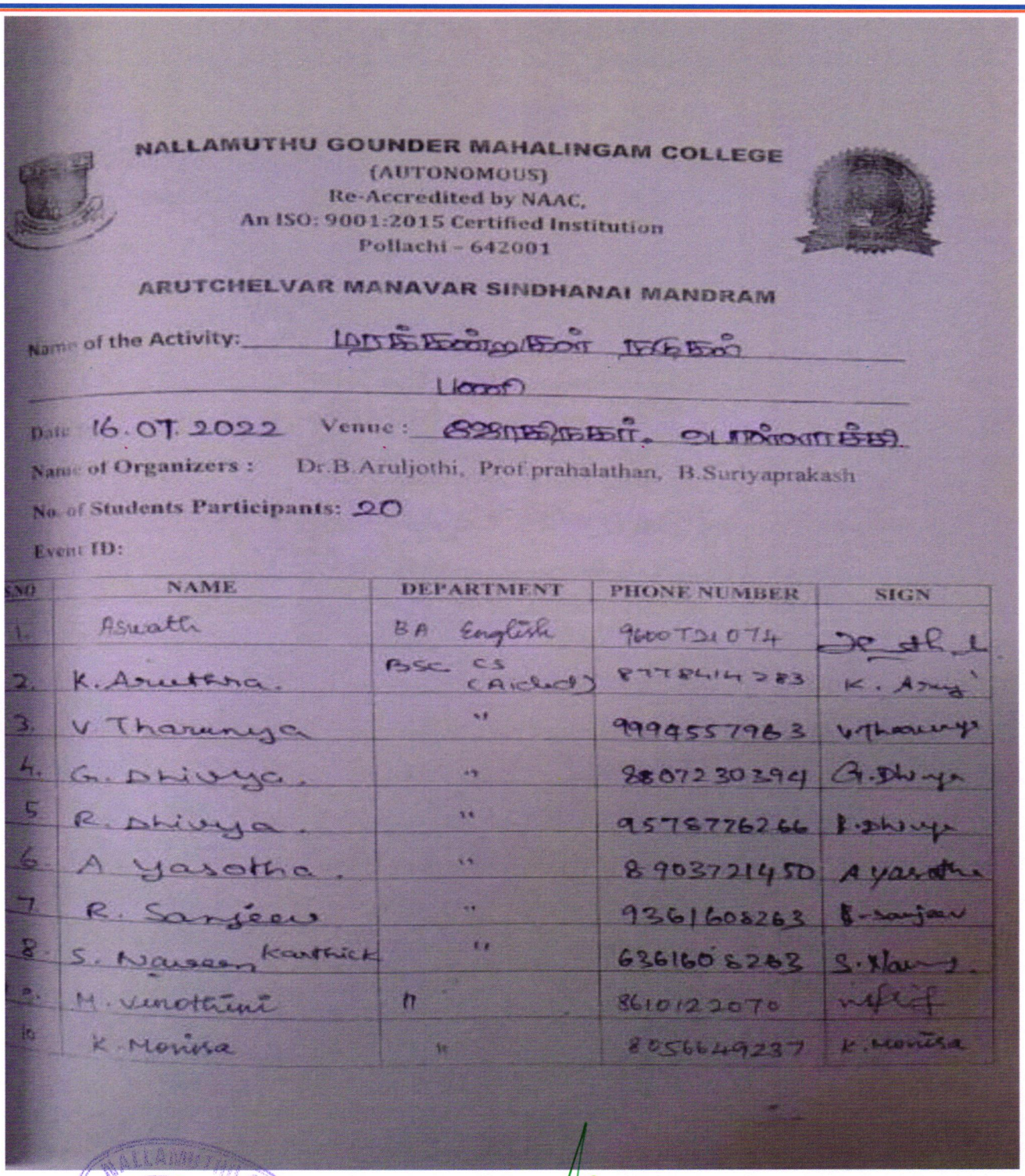

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Pollachi – 642001

ARUTCHELVAR MANAVAR SINDHANAI MANDRAM

Name of the Activity: [illegible]

Date: 16.07.2022 Venue: [illegible]

Name of Organizers : Dr.B.Aruljothi, Prof.prahalathan, B.Suriyaprakash

No. of Students Participants: 20

Event ID:

S.NO	NAME	DEPARTMENT	PHONE NUMBER	SIGN
1.	Aswath	BA English	9600721074	[illegible]
2.	K. Aruthra.	BSC CS (Aided)	8778414283	K. Aruj
3.	V. Tharunya	"	9994557963	V.Tharunya
4.	G. Dhivya.	"	8807230394	G.Dhivya
5	R. Dhivya.	"	9578776266	R.Dhivya
6.	A Yasotha.	"	8903721450	A yasotha
7.	R. Sanjeev	"	9361608263	R-sanjeev
8.	S. Naveen Karthick	"	6361608263	S.Naveen
9.	M. Vinothini	"	8610122070	[illegible]
10	K. Monisa	"	8056649237	K.Monisa

NALLAMUTHU GOUNDER MAHALINGAM COLLEGE POLLACHI

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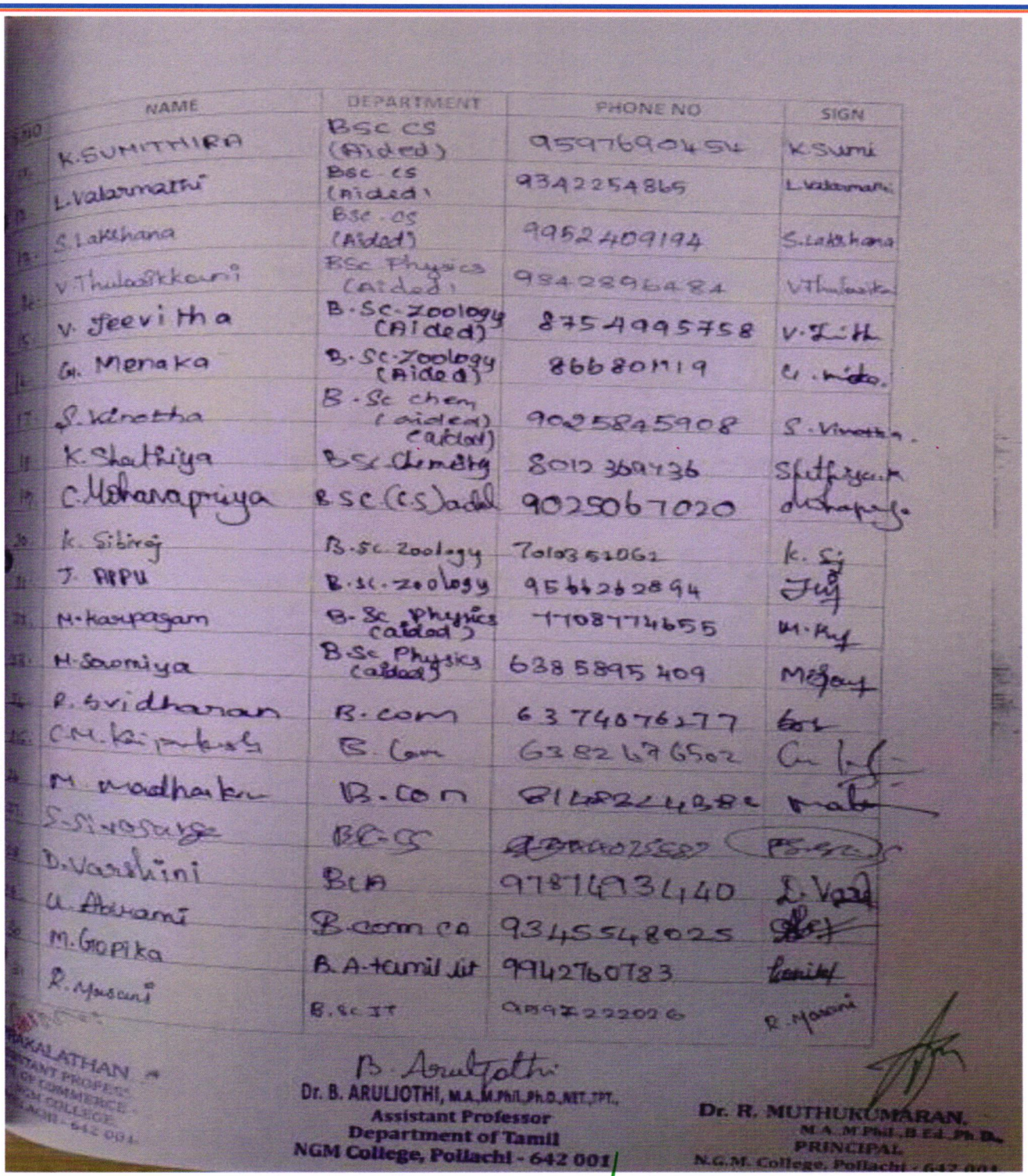

S.NO	NAME	DEPARTMENT	PHONE NO	SIGN
11	K.SUMITHIRA	BSC CS (Aided)	9597690454	K.Sumi
12	L.Valarmathi	BSC CS (Aided)	9342254865	L.Valarmathi
13	S.Lakshana	BSC CS (Aided)	9952409194	S.Lakshana
14	V.Thulasikkani	BSC Physics (Aided)	9842896484	V.Thulasikkani
15	V. Jeevitha	B.Sc.Zoology (Aided)	8754995758	V.Jeevitha
16	G. Menaka	B.Sc.Zoology (Aided)	866801119	G.Menaka
17	S.Vinotha	B.Sc chem (aided) (aided)	9025845908	S.Vinotha
18	K.Shathiya	BSC Chemistry	8012369436	Shathiya.K
19	C.Mohanapriya	BSC (C.S) aided	9025067020	C.Mohanapriya
20	K. Sibiraj	B.Sc Zoology	7010351062	K.Sibiraj
21	J. APPU	B.Sc.Zoology	9566262894	J.Appu
22	M.Karpagam	B.Sc Physics (aided)	7708774655	M.Karpagam
23	M.Sowmiya	B.Sc Physics (aided)	6385895409	M.Sowmiya
24	R.Svidharan	B.com	6374076277	[illegible]
25	C.M.Kaipankash	B.Com	6382676502	[illegible]
26	M.Madhavan	B.Com	8148224382	[illegible]
27	S.Sivasurya	BSC-CS	[illegible]	[illegible]
28	D.Varshini	BCA	9787493440	D.Varshini
29	U.Abirami	B.com CA	9345548025	[illegible]
30	M.Gopika	B.A.tamil lit	9942760783	[illegible]
31	R.Masani	B.Sc IT	9597222026	R.Masani

B. Aruljothi
Dr. B. ARULJOTHI, M.A.,M.Phil.,Ph.D.,NET,TPT.,
Assistant Professor
Department of Tamil
NGM College, Pollachi - 642 001

Dr. R. MUTHUKUMARAN,
M.A.,M.Phil.,B.Ed.,Ph.D.,
PRINCIPAL
N.G.M. College, Pollachi - 642 001

NALLAMUTHU GO... POLLACHI MAHALI...

PRINCIPAL
N G M COLLEGE . POLLACHI

Nallamuthu Gounder Mahalingam College

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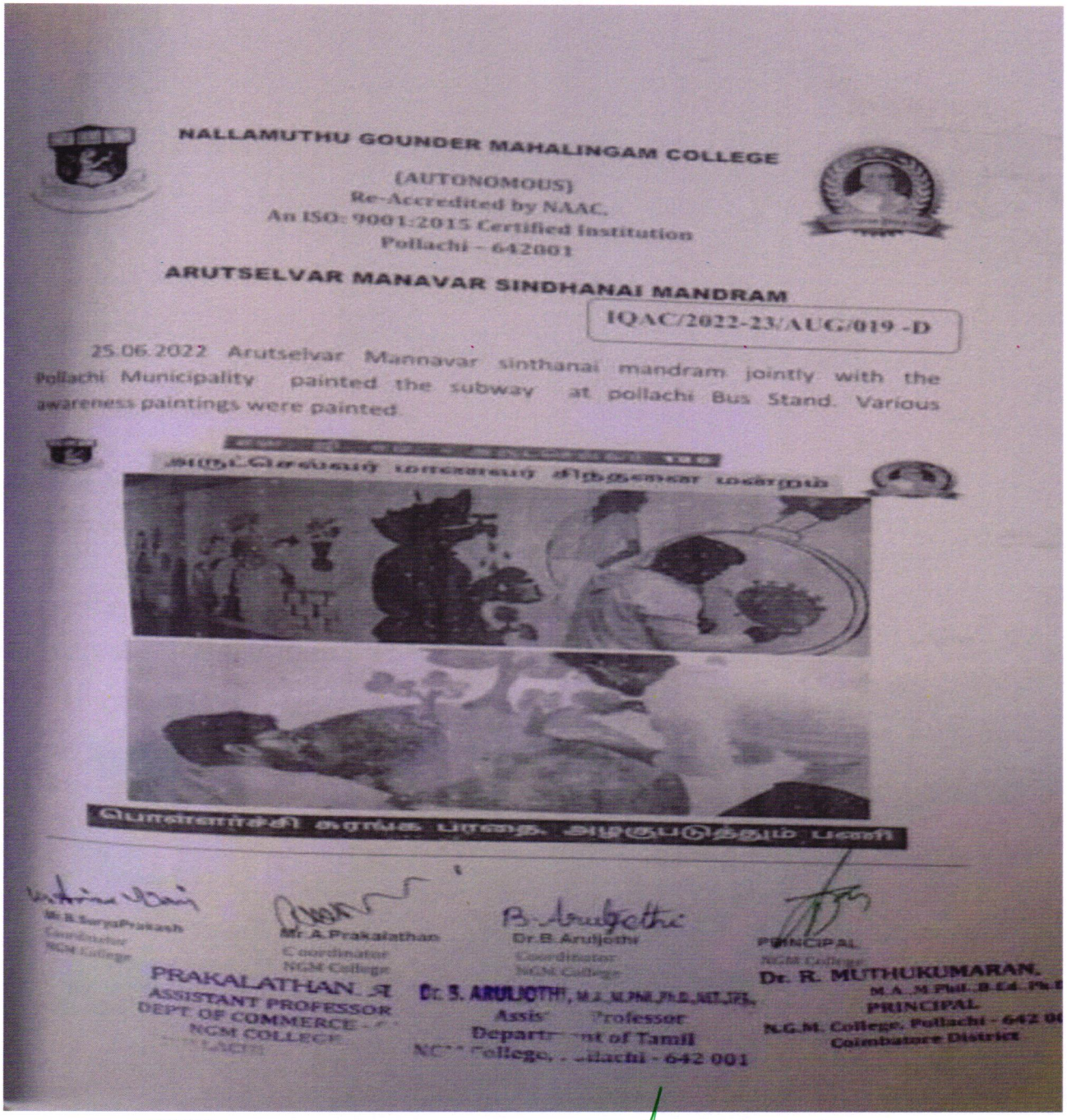
90, Palghat Road, Pollachi - 642001, Coimbatore, Tamil Nadu, India.

95th Rank in NIRF – 2023 among Colleges in India.

12. Painting of subway – 25.06.2022 - Arutchelvar Manavar Sinthanai Mandram



NALLAMUTHU GOUNDER POLLACHI MAHALINGAM COLLEGE

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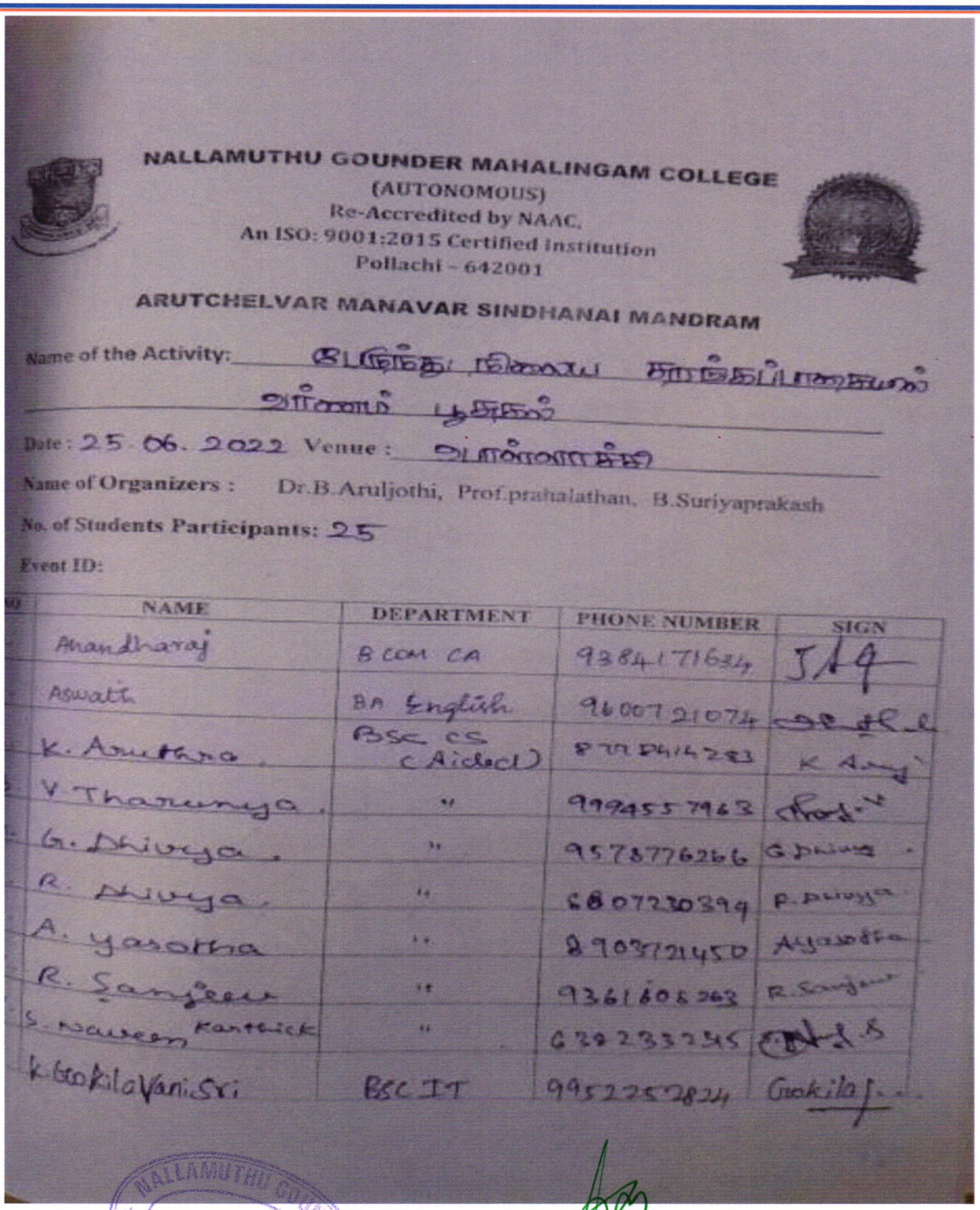
NGMC IQAC



NALLAMUTHU GOUNDER MAHALINGAM COLLEGE
(AUTONOMOUS)
Re-Accredited by NAAC,
An ISO: 9001:2015 Certified Institution
Pollachi – 642001

ARUTCHELVAR MANAVAR SINDHANAI MANDRAM

Name of the Activity: ஒடுக்கு நிலைய தரங்கப்பாகையால் அர்ணம் பூசுகல்

Date: 25.06.2022 Venue: பொள்ளாக்கி

Name of Organizers: Dr.B.Aruljothi, Prof.prahalathan, B.Suriyaprakash

No. of Students Participants: 25

Event ID:

NAME	DEPARTMENT	PHONE NUMBER	SIGN
Anandharaj	B COM CA	9384171634	[signature]
Aswath	BA English	9600721074	[signature]
K. Aruthra	BSC CS (Aided)	8778414283	K Aruj
V. Tharunya	"	9994557963	[signature]
G. Dhivya	"	9578776266	G Dhivya
R. Dhivya	"	6807230399	R. Dhivya
A. Yasotha	"	8903721450	A Yasotha
R. Sanjeev	"	9361608263	R. Sanjeev
S. Naveen Karthick	"	6382332345	[signature]
K. Gokila Vani Sri	BSC IT	9952252824	Gokila

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PRINCIPAL
N.G.M.COLLEGE, POLLACHI

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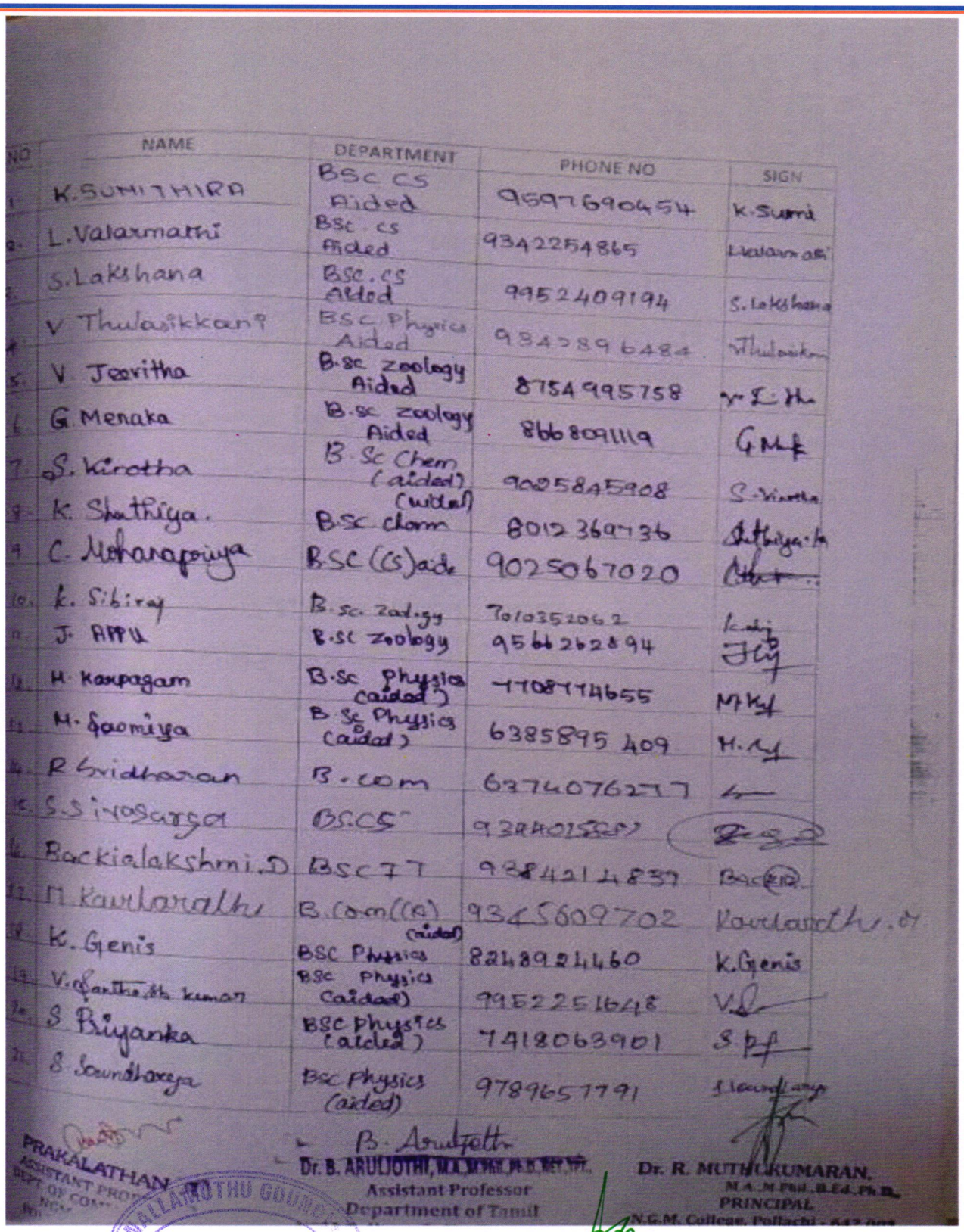

NO	NAME	DEPARTMENT	PHONE NO	SIGN
1.	K.SUMITHIRA	BSc CS Aided	9597690454	K.Sumi
2.	L.Valarmathi	BSc CS Aided	9342254865	L.Valarmathi
3.	S.Lakshana	BSc.CS Aided	9952409194	S.Lakshana
4.	V Thulasikkani	BSc Physics Aided	9345896484	V.Thulasikkani
5.	V Jeevitha	B.Sc Zoology Aided	8754995758	V.Jeevitha
6.	G.Menaka	B.Sc Zoology Aided	8668091119	G.M.K
7.	S. Kirutha	B.Sc Chem (aided)	9025845908	S.Kirutha
8.	K. Shathiya.	B.Sc chem (aided)	8012369736	K.Shathiya
9.	C. Maharajapriya	BSC (CS) aide	9025067020	C.Maharajapriya
10.	K. Sibiraj	B.Sc. Zoology	7010352062	K.Sibiraj
11.	J. APPU	B.Sc Zoology	9566262894	J.Appu
12.	H. Kanagam	B.Sc Physics (aided)	7708774655	H.Kanagam
13.	M. Saamiya	B.Sc Physics (aided)	6385895409	M.Saamiya
14.	R Sridharan	B.com	6374076277	R.Sridharan
15.	S.Srinisarga	BSCCS	9384015567	S.Srinisarga
16.	Backialakshmi.D	BSC IT	9884214837	D.Backialakshmi
17.	M. Kavitharathi	B.Com(CA) (aided)	9345609702	M.Kavitharathi
18.	K. Genis	BSC Physics	8248924460	K.Genis
19.	V. Santhosh kumar	BSc Physics (aided)	9952251648	V.Santhosh kumar
20.	S Priyanka	BSC Physics (aided)	7418063901	S.Priyanka
21.	S Soundharya	BSc Physics (aided)	9789657791	S.Soundharya

PRAKALATHAN
ASSISTANT PROF...
DEPT OF COM...
NGM

B. Aruljothi
Dr. B. ARULJOTHI, M.A., M.Phil., B.Ed., Ph.D.
Assistant Professor
Department of Tamil

Dr. R. MUTHUKUMARAN, M.A., M.Phil., B.Ed., Ph.D.
PRINCIPAL
N.G.M. College, Pollachi - 642 001

NALLAMUTHU GOUNDER MAHALINGAM COLLEGE
POLLACHI

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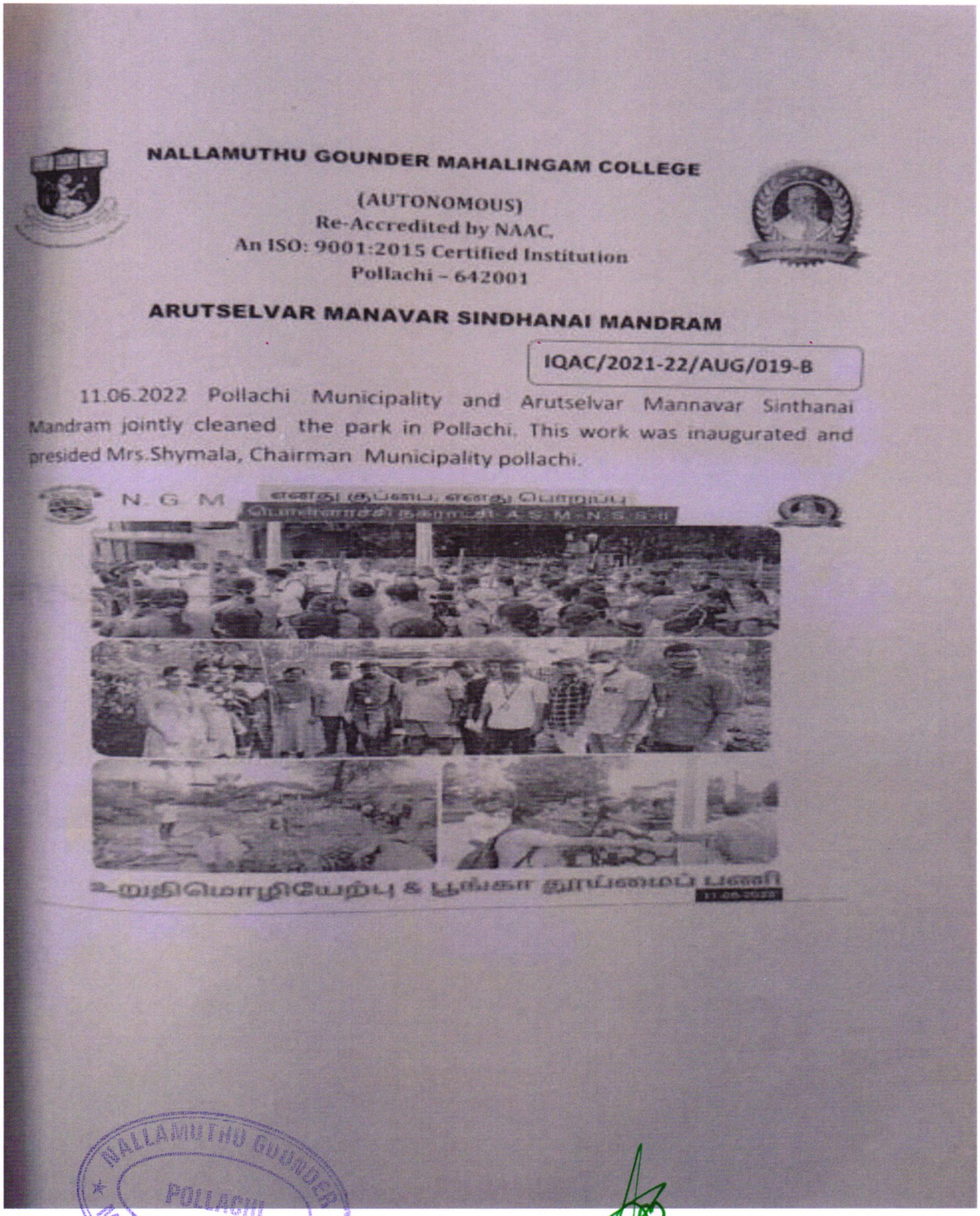
13. Yenathu kuppai Yenathu poruppu (My Wastage My Responsibility) - 11.06.2022 - Arutchelvar Manavar Sinthanai Mandram



NALLAMUTHU GOUNDER MAHALINGAM COLLEGE

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Pollachi – 642001

ARUTSELVAR MANAVAR SINDHANAI MANDRAM

IQAC/2021-22/AUG/019-B

11.06.2022 Pollachi Municipality and Arutselvar Mannavar Sinthanai Mandram jointly cleaned the park in Pollachi. This work was inaugurated and presided Mrs.Shymala, Chairman Municipality pollachi.

N. G. M

NALLAMUTHU GOUNDER MAHALINGAM COLLEGE POLLACHI

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Mr.S.SuryaPrakash
Coordinator
NGM College

Mr.A.Prakalathan
Coordinator
NGM College

B. Aruljothi
Dr.B.Aruljothi
Coordinator
NGM College

PRINCIPAL
NGM College
Dr. R. MUTHUKUMARAN,
M.A., M.Phil., B.Ed., Ph.D.,
PRINCIPAL
N.G.M. College, Pollachi - 642 001
Coimbatore District

PRAKALATHAN. A
ASSISTANT PROFESSOR
DEPT. OF COMMERCE - CA
NGM COLLEGE
POLLACHI - 642 001.

Dr. B. ARULJOTHI, M.A.,M.Phil.,Ph.D.,MET.,PTL.
Assistant Professor
Department of Tamil
NGM College, Pollachi - 642 001

NALLAMUTHU GOUNDER MAHALINGAM COLLEGE
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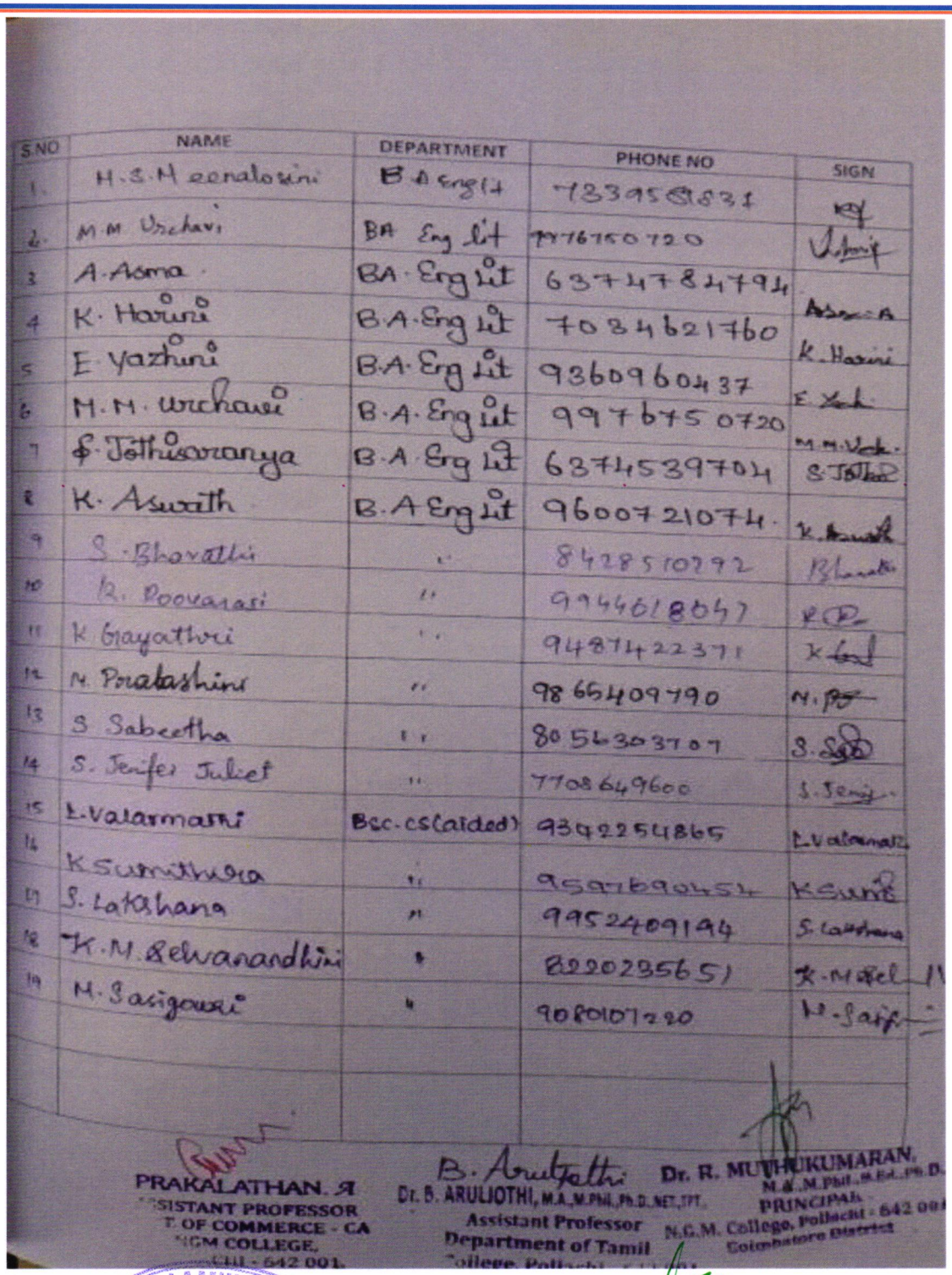

S.NO	NAME	DEPARTMENT	PHONE NO	SIGN
1.	H.S.Heenalosini	B.A English	7339518531	
2.	M.M Urchavi	BA Eng Lit	9176750720	
3	A.Asma	BA Eng Lit	6374784794	
4	K. Harini	B.A.Eng Lit	7034621760	
5	E Yazhini	B.A.Eng Lit	9360960437	
6	M.M. Urchavi	B.A.Eng Lit	9976750720	
7	S. Jothisoorya	B.A Eng Lit	6374539704	
8	K. Aswath	B.A Eng Lit	9600721074	
9	S. Bharathi	"	8428510792	
10	R. Poovarasi	"	9944618047	
11	K Gayathri	"	9487422371	
12	M. Porabashini	"	9865409790	
13	S Sabeetha	"	8056303707	
14	S. Jenifer Juliet	"	7708649600	
15	L.Valarmathi	Bsc.cs(aided)	9342254865	
16	K Sumithra	"	9597690452	
17	S. Lakshana	"	9952409194	
18	K.M.Selvanandhini	"	8220235651	
19	M. Sasigowri	"	9080107220	

PRAKALATHAN. R
ASSISTANT PROFESSOR
DEPT. OF COMMERCE - CA
NGM COLLEGE,
POLLACHI - 642 001.

B. Aruljothi
Dr. B. ARULJOTHI, M.A.,M.Phil.,Ph.D.,NET.,TPT.
Assistant Professor
Department of Tamil
College, Pollachi

Dr. R. MUTHUKUMARAN, M.A.,M.Phil.,M.Ed.,Ph.D.
PRINCIPAL
N.G.M. College, Pollachi - 642 001
Coimbatore District

NALLAMUTHU GOUNDER MAHALINGAM COLLEGE
POLLACHI

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Criteria: **VII : Institutional Values and Best Practices**

Nallamuthu Gounder Mahalingam College
(An Autonomous Institution, Affiliated to Bharathiar University)
90, Palghat Road, Pollachi - 642001, Coimbatore, Tamil Nadu, India.
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14. Solid Waste Management - 11.06.2022 - Arutchelvar Manavar Sinthanai Mandram

NALLAMUTHU GOUNDER MAHALINGAM COLLEGE
(AUTONOMOUS)
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An ISO: 9001:2015 Certified Institution
Pollachi - 642001

ARUTSELVAR MANAVAR SINDHANAI MANDRAM

IQAC/2022-23/AUG/019 -H

11.06.2022 Solid waste management training was conducted at VettaikaranPudur and the Arutchelvar Manavar Sindhanai Mandram students participated in the training and were trained on how to dispose of solid waste and how to make compost and Composting

Mr.B.SuryaPrakash
Coordinator
NGM College

Mr.A.Prakalathan
Coordinator
NGM College

Dr.B.Aruljothi
Coordinator
NGM College

PRINCIPAL
NGM College

PRAKALATHAN. A
ASSISTANT PROFESSOR
DEPT. OF COMMERCE
NGM COLLEGE

Dr. B. ARULJOTHI, M.A.,M.Phil.,Ph.D.,SET.,TPT.,
Assistant Professor
Department of Tamil
NGM College, Pollachi - 642 001

Dr. R. MUTHUKUMARAN.
M.A.,M.Phil.,B.Ed.,Ph.D.,
PRINCIPAL
N.G.M. College, Pollachi - 642 001
Coimbatore District

NALLAMUTHU GOUNDER MAHALINGAM COLLEGE
POLLACHI

PRINCIPAL
N G M COLLEGE, POLLACHI

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Nallamuthu Gounder Mahalingam College

(Autonomous)

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Affiliated to Bharathiar University, Coimbatore

Pollachi – 642 001

Name of the Activity : பொள்ளாச்சி நகராட்சியும் அருட்செல்வர் மாணவர் சிந்தனை மன்றமும் இணைந்து பொள்ளாச்சி பூங்காவை தூய்மை செய்தல்

Date : From – 11.06.2022 | No. of Days : 1 | Venue : பொள்ளாச்சி பூங்கா

Department : அருட்செல்வர் மாணவர் சிந்தனை மன்றம்

Name of Organizers : முனைவர்.பா.அருள்ஜோதி, பேரா.பிரகலாதன், பா.சூர்யபிரகாஷ்

No. of Staff Participants: Nil

No. of Students Participants: 25

Collaboration with Industry/Community/NGOs/Others (Organizing Unit/ Agency/ Collaborating Agency) :

Name of the Scheme:

Event ID: IQAC/2021-22/AUG/019 -C

NO	REG.NO	NAME	DEPARTMENT	SIGN
1	22PT04	M. Hemalatha	MA Tamil	
2	22-PT-13	T. Ramya	MA. Tamil	
3	21-PT-06	M. Avarthika	M.A. Tamil	
4	21-PT-02	M. GOPALAKRISHNAN	"	
5	21-PT-03	B MANI BHARATHI	"	
6	20-TM-53	D Saranya	B.A Tamil	
7	21-TM-47	M. Prabha	"	
8	21-TM-48	Maharapriya P	"	
9	22-TM-29	LAVANYA G.J.	"	

NALLAMUTHU GOUNDER MAHALINGAM COLLEGE POLLACHI

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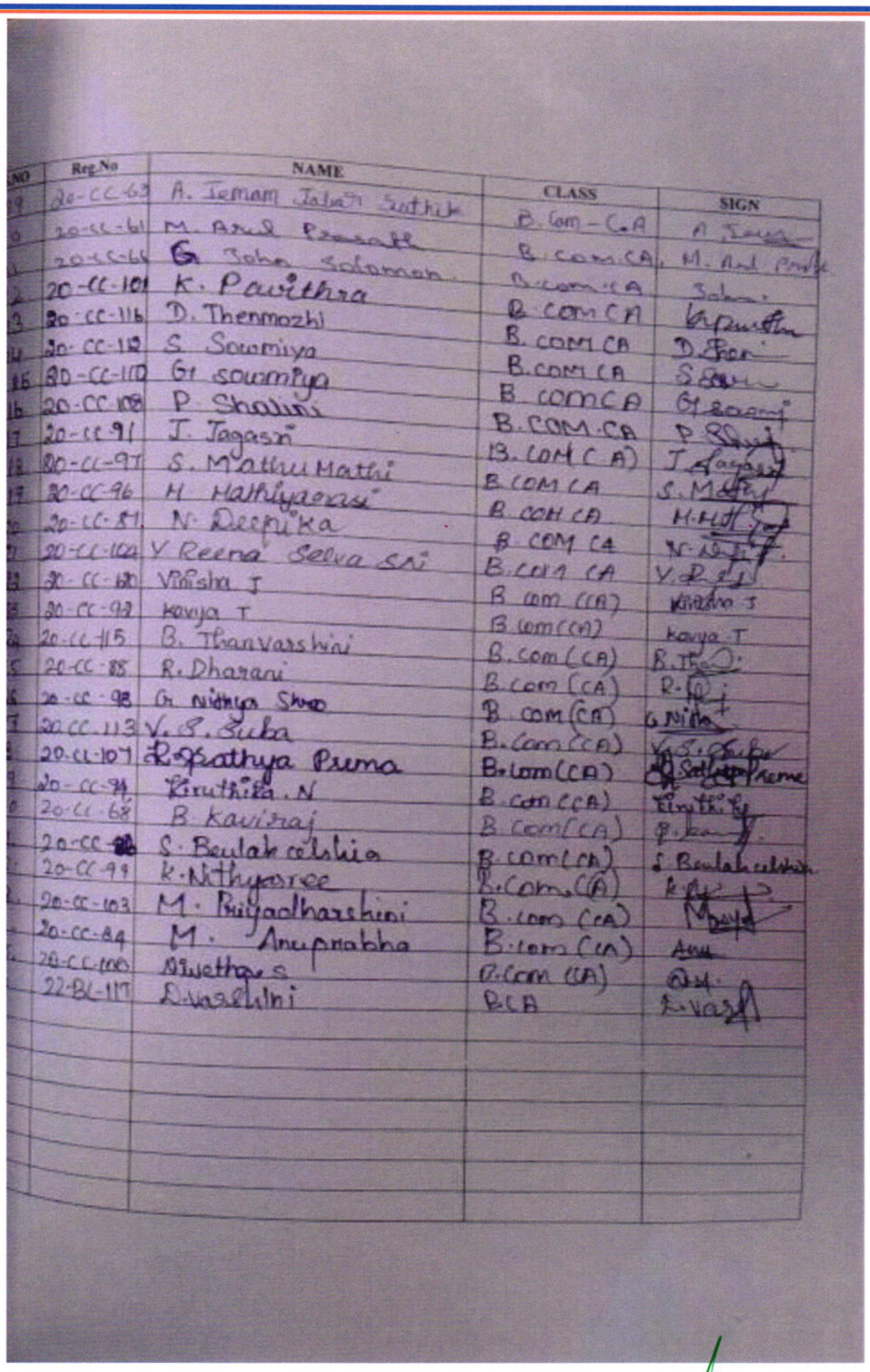
NGMC IQAC



S.NO	Reg.No	NAME	CLASS	SIGN
9	20-CC-63	A. Jemam Jabar Sathik	B.Com - C.A	A. Jemam
0	20-CC-61	M. Arul Prasath	B.Com.CA	M. Arul Prasath
1	20-CC-66	G. John Solomon	B.Com.CA	John
2	20-CC-101	K. Pavithra	B.COM CA	K. Pavithra
3	20-CC-116	D. Thenmozhi	B.COM CA	D. Thenmozhi
4	20-CC-112	S. Sowmiya	B.COM CA	S. Sowmiya
15	20-CC-110	G. Sowmiya	B.COM CA	G. Sowmiya
16	20-CC-108	P. Shalini	B.COM CA	P. Shalini
17	20-CC-91	J. Jagasri	B.COM.CA	J. Jagasri
18	20-CC-97	S. Mathu Mathi	B.COM (CA)	S. Mathu
19	20-CC-96	M. Mathiyarasi	B.COM CA	M. Mathiyarasi
20	20-CC-87	N. Deepika	B.COM CA	N. Deepika
21	20-CC-104	Y. Reena Selva Sri	B.COM CA	Y. Reena
22	20-CC-120	Vinisha J	B.Com (CA)	Vinisha J
23	20-CC-92	Kavya T	B.Com (CA)	Kavya T
24	20-CC-115	B. Thanvarshini	B.Com (CA)	B. Thanvarshini
25	20-CC-88	R. Dharani	B.Com (CA)	R. Dharani
26	20-CC-98	G. Nithya Shree	B.Com (CA)	G. Nithya
27	20-CC-113	V. S. Suba	B.Com (CA)	V. S. Suba
28	20-CC-107	R. Sathya Prema	B.Com (CA)	R. Sathya Prema
29	20-CC-94	Kiruthika. N	B.Com (CA)	Kiruthika
30	20-CC-68	B. Kaviraj	B.Com (CA)	B. Kaviraj
31	20-CC-86	S. Beulah celshia	B.Com (CA)	S. Beulah celshia
32	20-CC-99	K. Nithyasree	B.Com (CA)	K. Nithyasree
33	20-CC-103	M. Priyadharshini	B.Com (CA)	M. Priyadharshini
34	20-CC-84	M. Anuprabha	B.Com (CA)	Anu
35	20-CC-100	Nivetha S	B.Com (CA)	Nivetha
36	22-BC-117	D. Varshini	B.CA	D. Varshini

NALLAMUTHU GOUNDER MAHALINGAM COLLEGE POLLACHI

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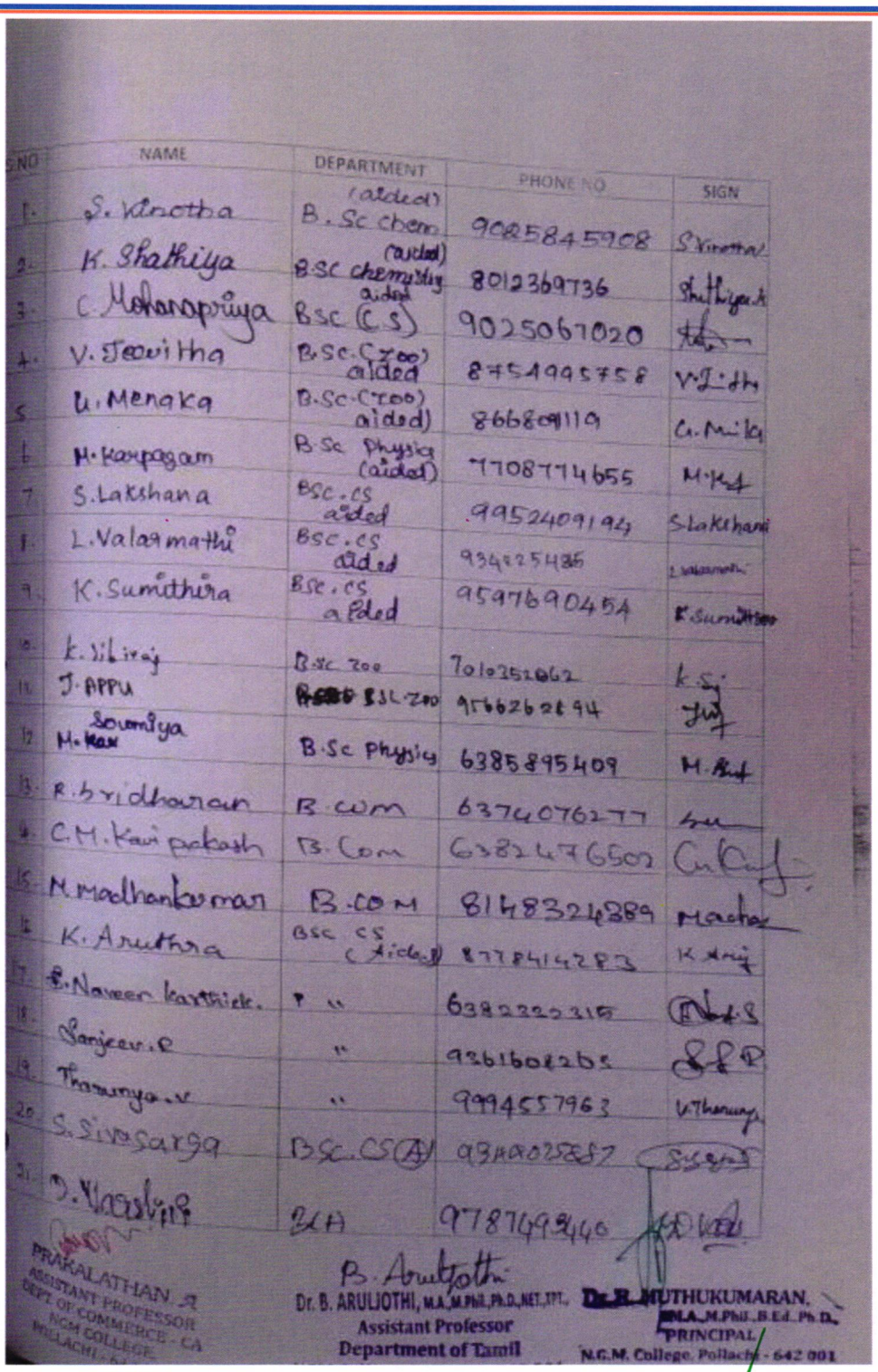

S.NO	NAME	DEPARTMENT	PHONE NO	SIGN
1.	S. Vinotha	B.Sc chem (aided)	9025845908	S.Vinotha
2.	K. Shathiya	B.Sc chemistry (aided)	8012369736	Shathiya.K
3.	C. Mohanapriya	BSc (C.S) aided	9025067020	[illegible]
4.	V. Jeevitha	B.Sc.(Zoo) aided	8754995758	V.Jeevitha
5.	G. Menaka	B.Sc.(Zoo) aided)	8668091119	G.Menaka
6.	M. Karpagam	B.Sc Physics (aided)	7708774655	M.Karpagam
7.	S. Lakshana	BSc.CS aided	9952409194	S.Lakshana
8.	L. Valarmathi	BSc.CS aided	9342254385	L.Valarmathi
9.	K. Sumithira	BSc.CS aided	9597690454	K.Sumithira
10.	K. Sibiraj	B.Sc Zoo	7010352062	K.Sibiraj
11.	J. APPU	BSc.Zoo	9566262894	[illegible]
12.	M. Sowmiya	B.Sc Physics	6385895409	M.Sowmiya
13.	R. Sridharan	B.Com	6374076277	[illegible]
14.	C.M. Kavi prakash	B.Com	6382476502	[illegible]
15.	M. Madhankumar	B.COM	8148324389	Madhan
16.	K. Aruthra	BSc CS (Aided)	8778414283	K.Aruthra
17.	S. Naveen karthick.	"	6382222315	[illegible]
18.	Sanjeev.R	"	9361608265	[illegible]
19.	Tharunya.V	"	9994557963	V.Tharunya
20.	S. Sivasarga	BSc.CS(A)	9344025887	[illegible]
21.	D. Varshini	BCA	9787493440	[illegible]

PRAKALATHAN
ASSISTANT PROFESSOR
DEPT. OF COMMERCE - CA
NGM COLLEGE
POLLACHI

B. Aruljothi
Dr. B. ARULJOTHI, M.A., M.Phil., Ph.D., NET., TPT.,
Assistant Professor
Department of Tamil

Dr. R. MUTHUKUMARAN,
M.A., M.Phil., B.Ed., Ph.D.,
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15. Tree Plantation Drive – 12.05.2022 - National Service Scheme

N.G.M. COLLEGE (AUTONOMOUS)
Re-accredited by NAAC & ISO 9001:2015 Certified
Affiliated to Bharathiar University, Coimbatore
Pollachi-624616

NSS UNIT-1

CLEANING PROGRAM AND TREE PLANTATION

NALLAMUTHU GOUNDER MAHALINGAM COLLEGE POLLACHI

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95th Rank in NIRF – 2023 among Colleges in India.

On May 12 2022, the NSS coordinator and volunteers organized a one day program, to clean the Hospital Premises and to Plant the Trees at NALLUR village. At 1.00PM the NSS coordinator guided the NSS students to clean the Hospital Premises and asked to make it clean and green.

Students removed 5 bags of unwanted waste from the Hospital Premises. After the cleaning process, NSS coordinator and students planted 8 saplings around the Hospital and in the road sides of Nallur Village. This program was addressed by **Dr.A.L.Gopi, Gopi Clinics, Nallur**. The program was concluded by NSS coordinator at 2.00PM.

PRINCIPAL

NALLAMUTHU GOUNDER MAHALINGAM COLLEGE POLLACHI

PRINCIPAL
N G M COLLEGE, POLLACHI

Nallamuthu Gounder Mahalingam College

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90, Palghat Road, Pollachi - 642001, Coimbatore, Tamil Nadu, India.

95th Rank in NIRF – 2023 among Colleges in India.

16. Cleaning of Police Station - 16.04.2022 - Arutchelvar Manavar Sinthanai Mandram

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N.G.M.COLLEGE, POLLACHI

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NALLAMUTHU GOUNDER MAHALINGAM COLLEGE

(AUTONOMOUS)

Re-Accredited by NAAC,

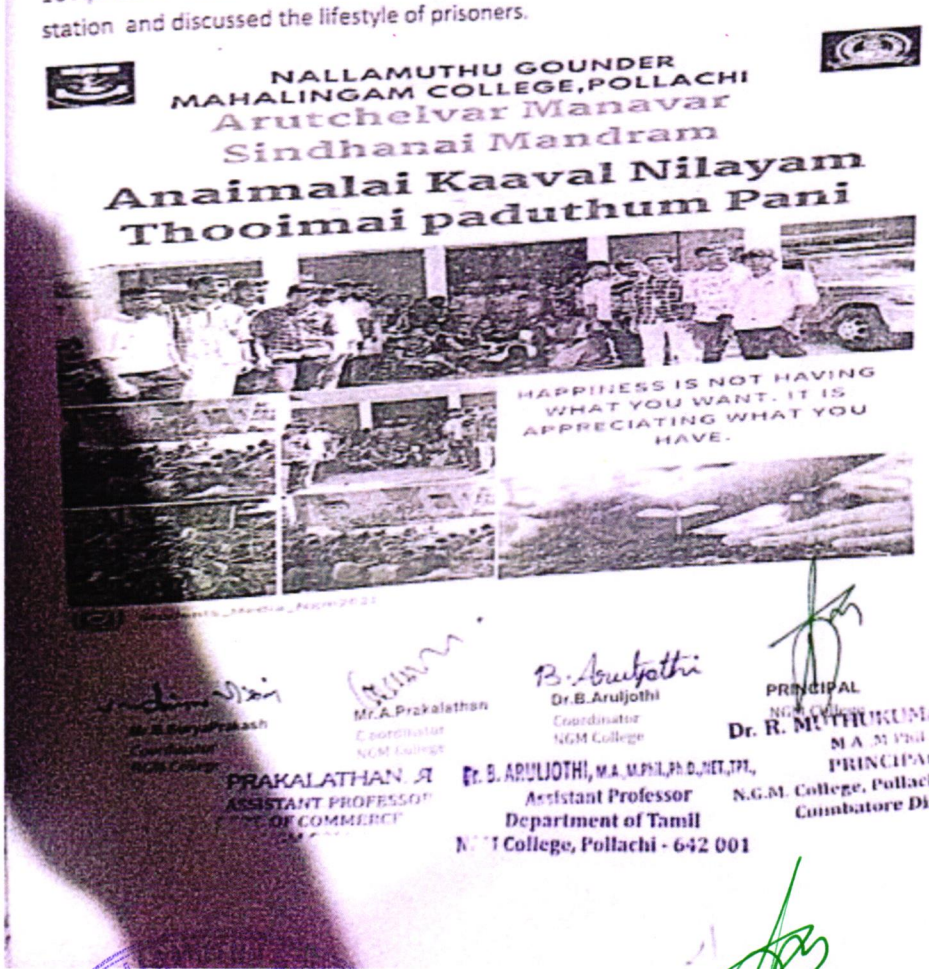
An ISO: 9001:2015 Certified Institution

Pollachi - 642001

ARUTSELVAR MANAVAR SINDHANAI MANDRAM

IQAC/2021-22/JUL/019

16 Apr 2022 - Students jointly with Pollachi Police cleaned the Anaimalai Police station and discussed the lifestyle of prisoners.



Mr.A.Prakalathan
Coordinator
NGM College

Dr.B.Aruljothi
Coordinator
NGM College

PRINCIPAL
Dr. R. MUTHUKUMARAN
M.A.,M.Phil.,B.Ed.,Ph.D
PRINCIPAL
N.G.M. College, Pollachi - 642 001
Coimbatore District

PRAKALATHAN. R
ASSISTANT PROFESSOR
DEPT. OF COMMERCE

Dr. B. ARULJOTHI, M.A., M.Phil., B.Ed., Ph.D., NET., TPL.,
Assistant Professor
Department of Tamil
N.G.M. College, Pollachi - 642 001

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N.G.M COLLEGE . POLLACHI

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Pollachi - 642001

ARUTCHELVAR MANAVAR SINDHANAI MANDRAM

Name of the Activity: தாய்மை மற்றும் மரம் நடுதல் பணி

Date : 16.04.2022 Venue : காலைக் கிசயகிப்பு, ஆனைமலை.

Name of Organizers : Dr.B.Aruljothi, Prof.prahalathan, B.Suriyaprakash

No. of Students Participants: 35

Event ID:

S.NO	NAME	DEPARTMENT	PHONE NUMBER	SIGN
1.	Aruthi. k	Dr Eng	9600721074	[illegible]
2	Naveen karthick. R	Dr CS (Aid)	6382332315	[illegible]
3.	Sanjeev. R	"	9361608263	[illegible]
4.	Dhivya. G	"	8807230394	Dhivya. G
5.	Dhivya. R	"	9578776266	Dhivya R
6.	Yesotha. A	"	8903721450	[illegible]
7.	Thoranya. V	"	4999455796 3	Thoranya V
8.	Aruthra. k	"	8778414283	K. Aruj
9.	Vinothini. M	"	8610122070	[illegible]
10	Monisa. K	"	8056649237	K. Monisa

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S.NO	NAME	DEPARTMENT	PHONE NO	SIGN
11.	S. Kinotha	B.Sc (chem) (aided)	9025845908	S. Kinotha
12.	K. Shathiya	B.Sc chem (aided)	8012369736	Shathiya K
13.	C. Mohanapriya	B.SC.(CS)	9025067020	[illegible]
14.	V. Jeevitha	B.SC (Zoo) Aided	8754995758	V. J. K
15.	G. Menaka	B.SC (Zoo) Aided	8668091119	G. Menaka
16.	L. Valarmathi	B.Sc (CS) Aided	9342254865	L. Valarmathi
17.	S. Lakshana	B.Sc.(CS) aided	9952409194	S. Lakshana
18.	K. SUMITHIRA	B.Sc (CS) (Aided)	9597690454	K. Sumithira
19.	K. Sibiraj	B.Sc zoology	7010352062	K. Sj
20.	J. APPU	B.Sc. zoology	9566262894	[illegible]
21.	M. Karpagam	B.Sc Phy	7708774655	M. Kr
22.	M. Sowmiya	B.Sc Phy	6385895409	M. Sy
23.	MUTHULAKSHMIN	B.Sc.IT	9080938581	N. M
24.	G. Rudhra	B.Com (CA)	7306141120	Rudhra C
25.	M. Selva Priya	B.Com (CA)	7418818373	Selva Priya M
26.	S. Sivasurya	BSC CS	9345075882	[illegible]
27.	M. Gopika	B.A tamil lit	9942760783	[illegible]
28.	G. Priya Dharshini	B.A Tamil	9384920631	Priya
29.	N. Meenakshi	BSC IT	6382255256	N. Meenakshi
30.	R. Masani	B.Sc.IT	9597222026	R. Masani
31.	D. Varuhini	B.A	9787493440	D. Varuhini

[illegible]KALATHAN, M.A.
ASSISTANT PROFESSOR
[illegible] COMMERCE - CA
NGM COLLEGE,
[illegible] 642001.

B. Arulyothi
Dr. B. ARULJOTHI, M.A., M.Phil., Ph.D., NET, TPL,
Assistant Professor
Department of Tamil
NGM College, Pollachi

Dr. R. MUTHUKUMARAN,
M.A., M.Phil., B.Ed., Ph.D.,
PRINCIPAL
N.G.M. College, Pollachi - 642 001
Coimbatore District

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17. Cleaning of Temple - 26.03.2022 - Arutchelvar Manavar Sinthanai Mandram

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Pollachi - 642001

ARUTSELVAR MANAVAR SINDHANAI MANDRAM

26 Mar 2022 - Students cleaned the environment of R.Ponnapuram temple and planted saplings around it.

அருட்செல்வர் -100

விநாயகர் கோயில்
புதுக்காலணி. பொன்னாபுரம் ரோடு.
பொள்ளாச்சி.

காலை 9.30 மணி 26 - 03 - 2022

அருட்செல்வர் மாணவர் சிந்தனை மன்றம்
என். ஜி. எம். கல்லூரி, பொள்ளாச்சி.

POLLACHI MAHALINGAM COLLEGE

PRINCIPAL
N G M COLLEGE POLLACHI

Nallamuthu Gounder Mahalingam College

(An Autonomous Institution, Affiliated to Bharathiar University)

90, Palghat Road, Pollachi - 642001, Coimbatore, Tamil Nadu, India.

95th Rank in NIRF – 2023 among Colleges in India.

Mr.B.SuryaPrakash
Coordinator
NGM College

Mr.A.Prakalathan
C oordinator
NGM College

Dr.B.Aruljothi
Coordinator
NGM College

PRINCIPAL
NGM College

PRAKALATHAN
ASSISTANT PROFES
DEPT. OF COMMERCE
NGM COLLEGE,
POLLACHI - 642 00

Dr. B. ARULJOTHI, M.A.,M.Phil.,Ph.D.,NET.,TPT.,
Assistant Professor
Department of Tamil
NGM College, Pollachi - 642 001

Dr. R. MUTHUKUMARAN,
M.A.,M.Phil.,B.E
PRINCIPAL
N.G.M. College, Pollachi - 642 00
Coimbatore District

NALLAMUTHU GOUNDER MAHALINGAM COLLEGE
POLLACHI

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Pollachi - 642001

ARUTCHELVAR MANAVAR SINDHANAI MANDRAM

Name of the Activity: ஆலய உழவாரப் பணி

Date : 26.03.2022 Venue : பாண்டையாம், வடுகபாளையம்

Name of Organizers : Dr.B.Aruljothi, Prof.prahalathan, B.Suriyaprakash

No. of Students Participants:

Event ID:

NAME	DEPARTMENT	PHONE NUMBER	SIGN
S.Mohammed Sanufar	B.Sc. Mathematics	9087564175	[signature]
J.B. Gokul naath	B.Sc. Mathematics	6381741708	[signature]
S. Varatharaj	B.Sc. Mathematics	9345429779	[signature]
K. Priya Dharshini	B.Sc. Mathematics	8638105038	[signature]
S. Swathi	B.Sc. Mathematics	8342150950	[signature]
M. Harsha	B.Sc. Mathematics	8754776160	[signature]
P. Annadevi	B.Sc Mathematics	7010158145	[signature]
A. Kaleeswari	B.Sc. Mathematics	9385483955	[signature]
M. Karpagaa Chithadevi	B.Sc. Mathematics	9344953696	[signature]
Kaviya L	B.Sc Mathematics	7708609672	[signature]

NALLAMUTHU GOUNDER MAHALINGAM COLLEGE POLLACHI

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S.NO	NAME	DEPARTMENT	PHONE NO	SIGN
11	S. Vinotha	B.Sc Chem(aided)	9025845908	S. Vinotha
12	K. Shathiya	B.Sc chemistry (aided)	8012369736	Shathiya.K
13	C. Mohanapriya	B.Sc. (CS) aided	9025067020	[illegible]
14	K. SUMITHIRA	B.Sc. CS (Aided)	9597690454	K. Sumithira
15	L. Valarmathi	B.Sc. CS (Aided)	9342254865	L. Valarmathi
16	S. Lakshana	BSc. CS (Aided)	9952409194	S. Lakshana
17	V. Thulasikkani	BSc Physics (aided)	9342896484	V. Thulasi
18	G. Meraka	B.Sc Zoology	8668091149	G. [illegible]
19	V. Jeevitha	B.Sc Zoology	8754495758	V. [illegible]
20	K. Sibiraj	B.Sc Zoology	7010352062	K. Sij
21	J. Arru	B.Sc. Zoology	9566262894	[illegible]
22	M. Karpagam	B.Sc Phy	7708774655	M. K[illegible]
23	M. Sowmiya	B.Sc Phy	6385895409	[illegible]
24	S. Mahanavarshini	B.Com(CA)	8807910617	S. Mahi
25	G. Rudhra	B.Com (CA)	7306141120	Rudhra G
26	M. Selva Priya	B.Com(CA)	7418818373	Selva Priya
27	MUTHULAKSHMIN	B.Sc.IT	9080938581	[illegible]
28	S. Sivasurya	BSc CS	9344078887	[illegible]
29	D. Varshini	BCA	9787493440	D. [illegible]
30	U. Abirami	B.Com CA	9345548025	[illegible]
31	M. Kavilarathi	B.Com(CA)	9345609702	[illegible]

PRAKALATHAN. A
ASSISTANT PROFESSOR
DEPT. OF COMMERCE
NGM COLLEGE
POLLACHI - [illegible]

B. Arulyothi
Dr. B. ARULJOTHI, M.A., M.Phil., Ph.D., NET, TPT.,
Assistant Professor
Department of Tamil
NGM College, Pollachi - 642 001

Dr. R. MUTHUKUMARAN,
M.A., M.Phil., B.Ed., Ph.D.,
PRINCIPAL
N.G.M. College, Pollachi - 642 001

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18. Eradication of Plastic Wastages – 08.01.2022- National Service Scheme

N.G.M. COLLEGE (AUTONOMOUS)
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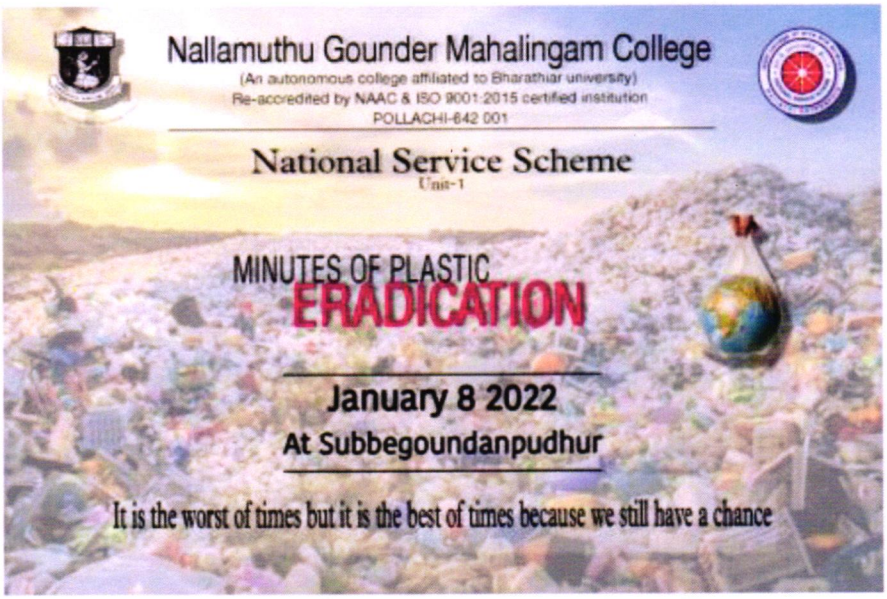
Affiliated to Bharathiar University, Coimbatore
Pollachi-624616

NSS UNIT-1

MINUTES OF PLASTIC ERADICATION



NALLAMUTHU GOUNDER MAHALINGAM COLLEGE POLLACHI

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N G M COLLEGE POLLACHI

Nallamuthu Gounder Mahalingam College

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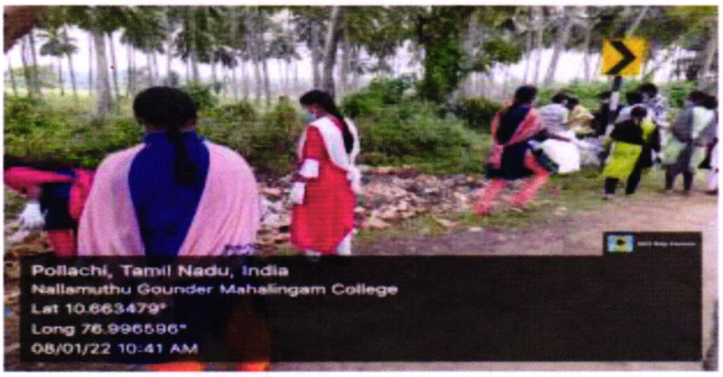

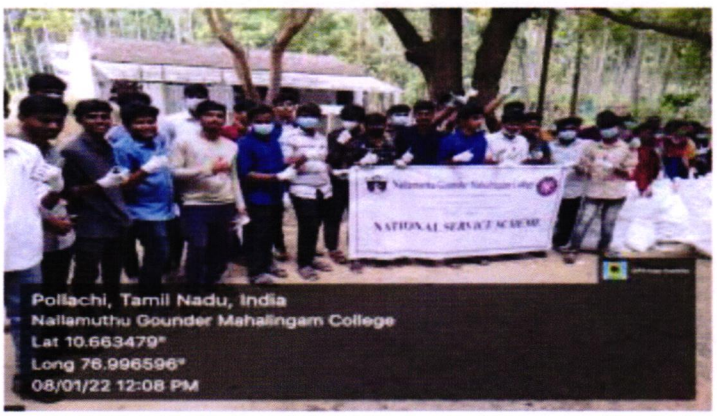

NALLAMUTHU GOUNDER MAHALINGAM COLLEGE POLLACHI

PRINCIPAL
N G M COLLEGE POLLACHI

Criteria: **VII : Institutional Values and Best Practices**

Nallamuthu Gounder Mahalingam College

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On January 8 2022 at 10.00AM, we National Service Scheme volunteers have gathered in collaboration with THULIMAI organization to eradicate plastic wastes which were lying around on the surroundings. We managed to eradicate plastics from SUBBEGOUNDANPUDHUR to THATHUR junction. Around 65 volunteers have participated in the event and worked for the betterment of the Environment. Lunch and Refreshments were provided.

Our honorable Principal Dr.R.MUTHUKUMARAN and the officials of THULIMAI Organization have presided over the event.

The welcome address was given by our beloved Program officers and the event concluded at 4.00PM with a vote of thanks and appreciation for the volunteers.

NALLAMUTHU GOUNDER POLLACHI

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NGM COLLEGE POLLACHI

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19. Swachh Bharat Abhiyan - 25.12.2021 - National Service Scheme

Event ID:

	Nallamuthu Gounder Mahalingam College (Autonomous) Re-Accredited by NAAC and ISO 9001:2015 Certified Institution Affiliated to Bharathiar University, Coimbatore Pollachi – 642 001
Name of the Activity :NSS- Clean India	
Date : From 25.12.2021 | **No. of Days :2** | **Venue : G.Kaliyapuram**	
Department : NSS – National Service Scheme	
Name of Organizers : S.Vigneshkumar – NSS Programming Officer	
No. of Staff Participants: 3	
No. of Students Participants: 12	
Name of the Scheme:	

White wash - Clean India Campaign – Selvan.Sugumar, B. Com (SF)

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On the academic year 2021 to 2022 under the leadership of Sukumar NSS student secretary department of Commerce undertaking clean India activity at G kaliyapuram village.

Cleaning compound walls of ration shop ,temple and gram Seva Centre help of 12 NSS volunteers of our Nallamuthu Gounder Mahalingam College, Pollachi. the white cement , food , refreshment and accommodation provided by the village people with the help of Bharat Ratna C Subramaniam trust, G.Kaliyapuram .

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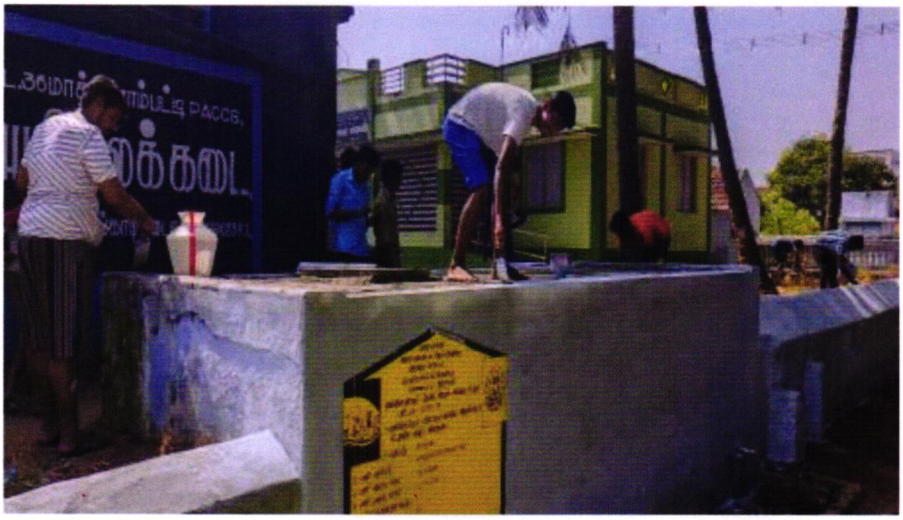

G. Kaliyapuram NSS volunteers completed the works of cleaning walls and whitewash for two days

Finally after the completion of work village peoples appreciated the team for done the better social service and they are invited by the village people for the upcoming festivals and traditional programs in that village.

NALLAMUTHU GOUNDER MAHALINGAM COLLEGE POLLACHI

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20. Swachha Bharath and Planting of Trees - 14.10.2021 - Arutchelvar Manavar Sinthanai Mandram

NALLAMUTHU GOUNDER MAHALINGAM COLLEGE

(AUTONOMOUS)

Re-Accredited by NAAC,

An ISO: 9001:2015 Certified Institution

Pollachi - 642001

ARUTCHELVAR MANAVAR SINDHANAI MANDRAM

14.10.2021 Swachha Bharath and Planting of Trees – Along with NSS and Nehru Yuva Kendra at Kaaliyapuram

NALLAMUTHU GOUNDER MAHALINGAM COLLEGE POLLACHI

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21.Plastic free Topslip Campaign - 18.03.2021 - Department of Zoology

Nallamuthu Gounder Mahalingam College, Pollachi

Department of Zoology

Plastic free Topslip Campaign – 18.03.2021

On 18/03/2021 Extension activity conducted on "Plastic free Topslip Campaign" to topslip hill, Mr. E. Prasanth, IFS Officer gave a special talk about topslip hills and its biodiverstity and also motivate to prepare IFS examinations and government examinations. He encouraged students to conserve forest and conserve biodiversity. He talked about Biodiversity conservation is the protection and management of biodiversity to obtain resources for sustainable development. Biodiversity conservation has three main objectives: To preserve the diversity of species. Sustainable utilization of species and ecosystem. Field biologist Mr. Peter Prem Chakravarthy, explained lots of information about topslip hills and flora, fauna in the topslip. II and III B.Sc., Students are eagerly involved to clean the forest ecosystem of anaimalai to remove plastic papers. About 55 students were participate in this extension service, Zoology department staff members Dr.S.Mariselvi, Dr.S.Christobher and Lab Assistant, Mr.M.Marimuthu accompany the students.

Dr. R. MUTHUKUMARAN, M.A.,M.Phil.,B.Ed.,Ph.D.,
PRINCIPAL
N.G.M. College, Pollachi - 642 001
Coimbatore District

Dr. S. SOMASUNDARAM M.Sc.,Ph.D.,
Assistant Professor and Head
Department of Zoology
Nallamuthu Gounder Mahalingam...
Pollachi - 642 001.

NALLAMUTHU GOUNDER MAHALINGAM COLLEGE POLLACHI

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N.G.M COLLEGE, POLLACHI

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22. Cleaning and Awareness on Plastic - 01.03.2020 -Arutchelvar Manavar Sinthanai Mandram

23. Planting of trees - 14.09.2019 – 21.09.2019 - Arutchelvar Manavar Sinthanai Mandram

POLLACHI

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N.G.M COLLEGE, POLLACHI

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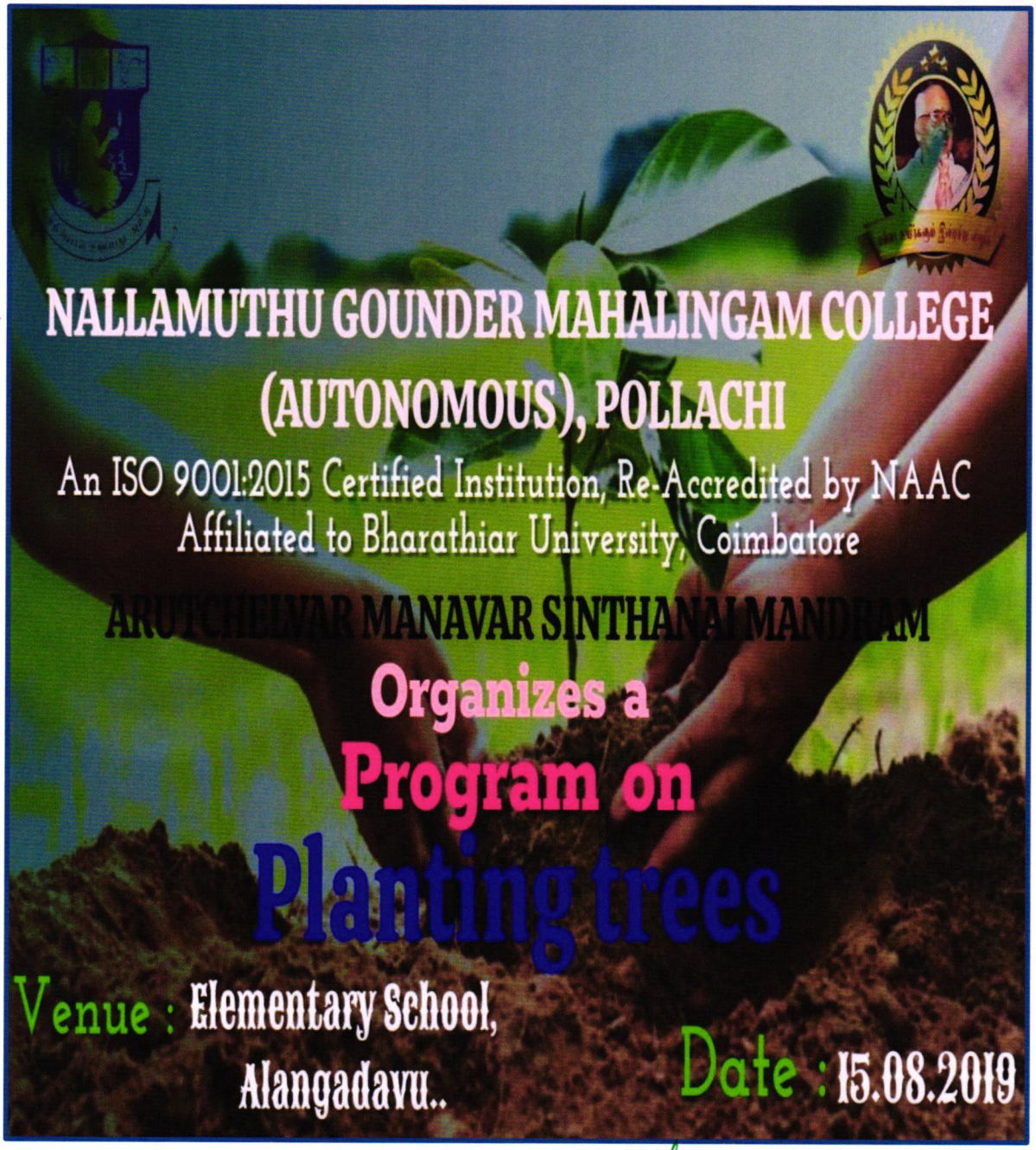
24. Planting of trees - 15.08.2019 - Arutchelvar Manavar Sinthanai Mandram



NALLAMUTHU GOUNDER MAHALINGAM COLLEGE POLLACHI

PRINCIPAL
N G M COLLEGE POLLACHI

Criteria: **VII : Institutional Values and Best Practices**

Nallamuthu Gounder Mahalingam College

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25. Target Zero – Cleaning of Plastic Wastages - 22.07.2019 - Arutchelvar Manavar Sinthanai Mandram

NALLAMUTHU GOUNDER POLLACHI M COLLEGE

PRINCIPAL
NGM COLLEGE, POLLACHI

Nallamuthu Gounder Mahalingam College

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90, Palghat Road, Pollachi - 642001, Coimbatore, Tamil Nadu, India.

95th Rank in NIRF – 2023 among Colleges in India.

26.Helmet Awareness Rally – 10.01.2019 – National Service Scheme

NALLAMUTHU GOUNDER MAHALINGAM COLLEGE POLLACHI

PRINCIPAL
N G M COLLEGE, POLLACHI

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90, Palghat Road, Pollachi - 642001, Coimbatore, Tamil Nadu, India.

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27. Swachht Ki Sewa - 02.10.2018 - National Cadet Corps

28.Kerala Flood Relief – 05.09.2018 - National Service Scheme

PRINCIPAL
NGM COLLEGE POLLACHI

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Kerala Flood Relief has been collected from the college students and from public on 05-09-18. The collected things had been sent to Kerala through Bharathiar University represented vehicle. Rice, Bedsheet, Medicines, Candles, Dress Materials, Carpet are given.

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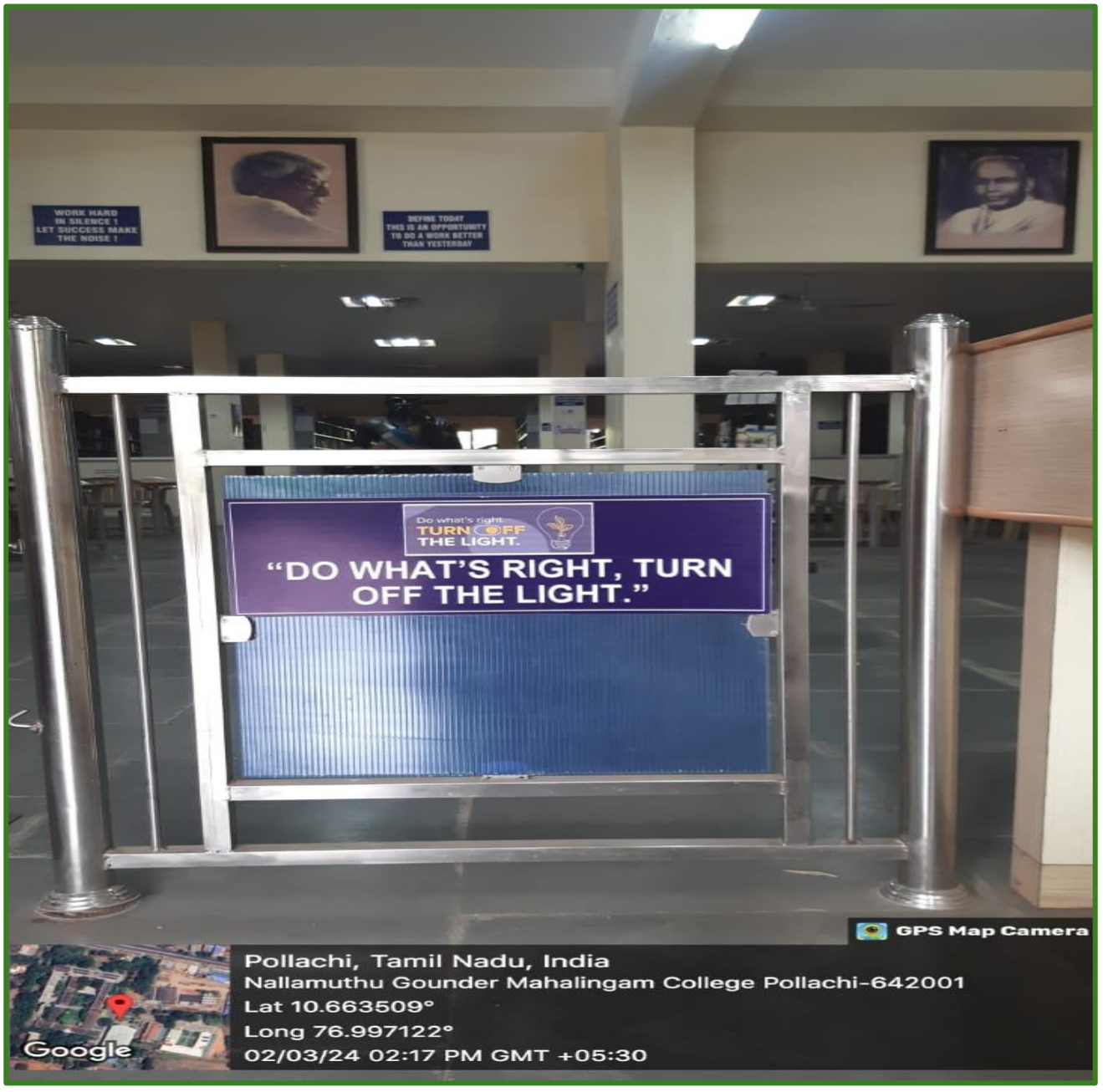
7.1.6 Quality audits on environment and energy are regularly undertaken by the institution

DISPLAY BOARDS ON ENERGY SAVING AND WATER SAVING

1. Library Entrance



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2. Near Office

3. In Power Room

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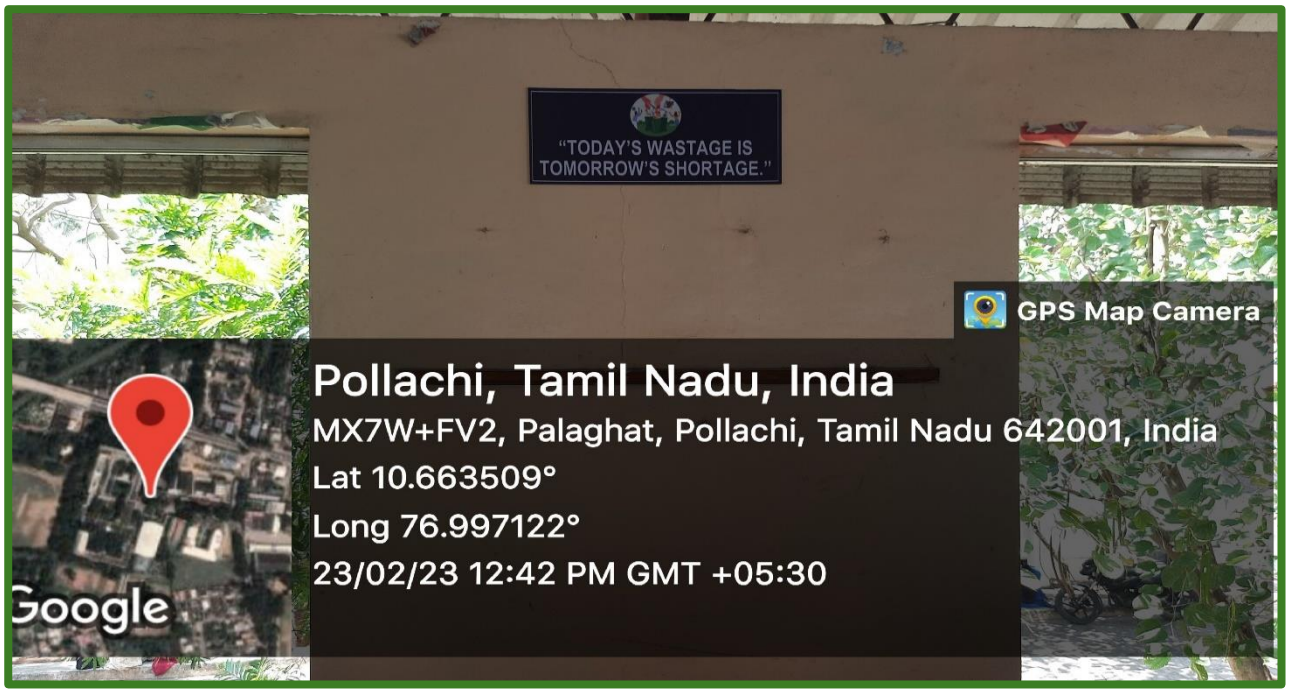
Canteen



Computer Lab

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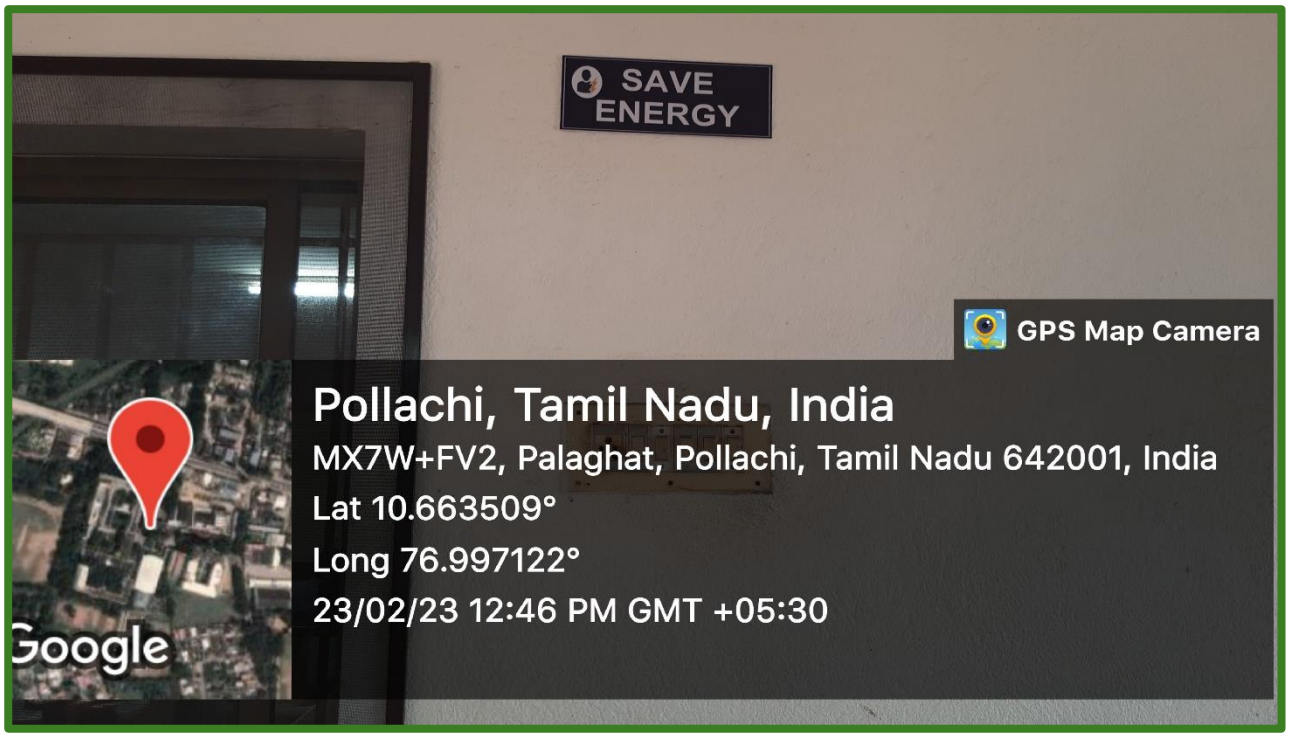
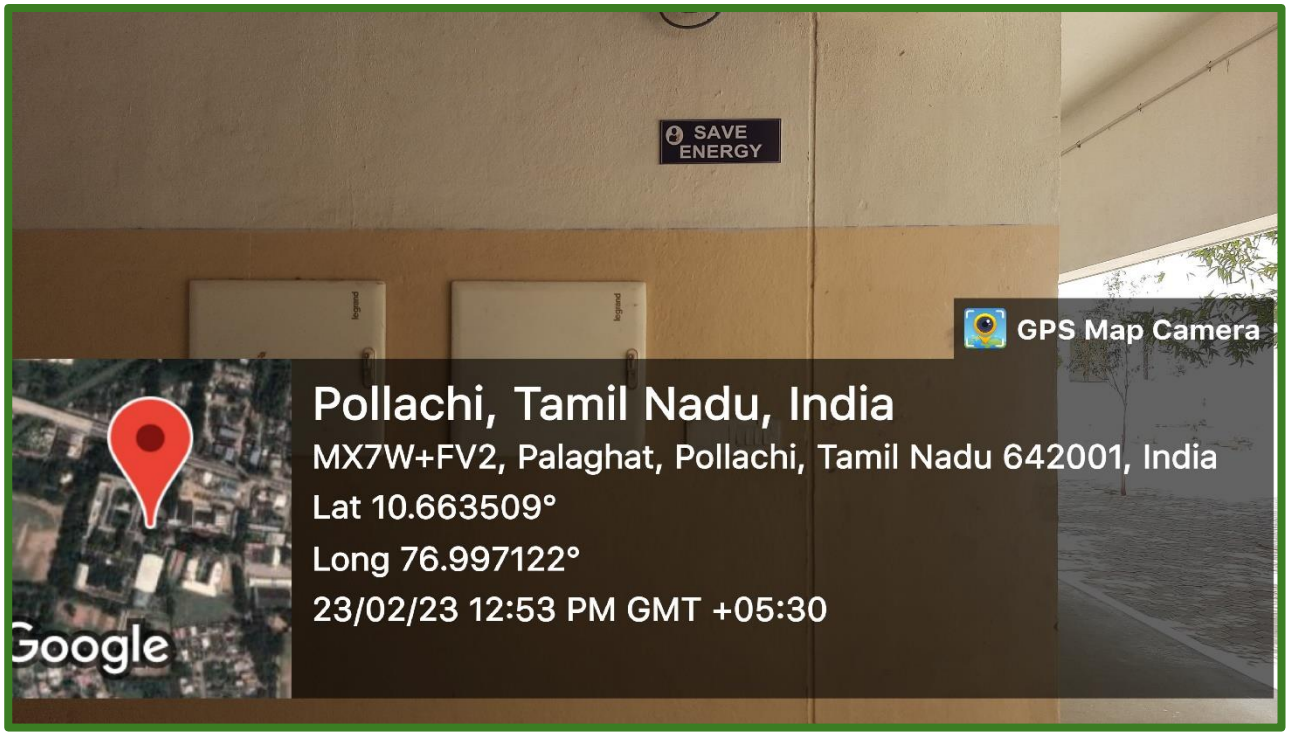
In Campus





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Criteria: **VII : Institutional Values and Best Practices**

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