



**St. Mary's College, Thrissur, 680020**

## **Certificates From the Auditing Agency**

<b>Energy Audit Compliance Statement</b>		
<b>St. Mary's College, Thrissur, Kerala</b> For the AY 2018 - 19		
<b>Overall Objective</b>	<b>Main Objectives</b>	<b>Compliance Status</b>
Ensure that an effective energy management plan is followed in the campus with high degree of energy efficiency, and increasing rate of utilization of renewable energy, in order to help raise the Climate Change resiliency, which is periodically reviewed and implemented wholeheartedly by the stakeholders.	Ensure that there is a competent Energy Management Expert from an external agency, who will provide guidance on Energy conservation and energy transition initiatives.	NGGFN, headed by a former UN Expert is in active consultation.
	Ensure that the Energy Conservation Strategy is reviewed annually, progress monitored and achievable and measurable targets set for the future.	Ensured. [Vide Ch # 1 & 2 and p 68 of Future Directions of Audit Report for the year]
	Ensure that a Policy on embracing Green energy, energy efficiency, and wastes to energy is evolved, enforced, and reviewed regularly.	Ensured.
	Ensure that every stakeholder in the campus commits to the lowering of emissions from the institution from all facets of energy use.	Commitment ensured. [Chapters beyond 10 of GA Report]
	Ensure that Energy Audit is conducted annually, with involvement of staff and students and action taken on all the viable recommendations of the linked external expert/Consultant.	Energy Audit conducted annually. Implementation in progress.

  
**Prof. V K Damodaran**  
Ex-UNEP Expert  
For NGGFN Audit Team  
03 June 2019



**Nature's Green Guardians Foundation**  
Trivandrum 695 043 India

**Energy Audit Certificate**  
**St. Mary's College Thrissur, Kerala**  
For the AY 2018 - '19

Energy Audit for the period July 2018 to June 2019 has been conducted for St. Mary's College, Thrissur, Kerala, in accordance with the International Standards for ISO 14000 family of standards set by ISO TC 207 and its Sub-committees, Bureau of Energy Efficiency standards, and stipulations under the Energy Conservation Act 2003 of Government of India, and other relevant mandates for maintenance of sustainable and healthy environment for education in the campus.

In our opinion, the Institution has presented true and up-to-date data on the various aspects of working of this education institution before the audit team, and appropriate audit procedures have been completed by the audit team for issuing this Audit Certificate and the Compliance Statement. The recommendations are based on verified data presented before the team as they existed at the time of audit.

In order to meet the objectives of the audit, the methodology did combine physical inspection of the campus on several work days and holidays, with analytical reviews of relevant documents and activities, as well as interviews with the Principal, IQAC team, and selected other members of Staff, as well as Students of the College.

Audit findings indicate that, of the 335.3T CO<sub>2</sub> of carbon footprint of the institution for the year, the contribution from direct use of energy was limited to 159.4T CO<sub>2</sub>. Transportation including public transport use (outside the campus) is at 124.8 T CO<sub>2</sub> - with only 6% of it coming from use of personal vehicles by staff and students.

Introduction of renewable energy returned 95.8T CO<sub>2</sub> (remedial measures). The per capita electricity consumption is at 95 kWh for a college with nearly 2007 students. Only 230 students now stay in the hostel. Awareness and training programs were conducted during the year. Stakeholders are aware of the need for individual efforts.

**Prof. V K Damodaran**

FIE (India), LSM IEEE, Chairman, NGGFs  
Ex-UNIDO Expert, For NGGFs Audit Team  
03 June 2019

*I agree with the recommendations of this report and further express my readiness to implement the recommendations of this audit report after internal review, even if any of them is in excess of the minimum compliance level.*

**Sr. (Dr.) Magle Jose, CMC**

Principal  
St. Mary's College, Thrissur  
Date:



*Magle Jose*  
**Dr. Sr. MAGTEJOSE**  
PRINCIPAL  
ST. MARY'S COLLEGE  
THRISUR-20

Signature & Seal



Nature's Green Guardians Foundation  
Trivandrum 695 043 India

### Environmental Quality - Green Audit Certificate

#### St. Mary's College Thrissur, Kerala

For the AY 2018 - '19

Environment Audit for the period July 2018 to June 2019 has been conducted for St. Mary's College, Thrissur, Kerala, in accordance with the International Standards for ISO 14000 family of standards set by ISO TC 207 and its Sub-committees, Environmental Protection Act 1986 (and its amendments) of Government of India, and other relevant mandates for maintenance of sustainable and healthy environment for education in the campus.

In our opinion, the Institution has presented true and up-to-date data on the various aspects of working of this education institution before the audit team, and appropriate audit procedures have been completed by the audit team for issuing this Audit Certificate and the Compliance Statement. The recommendations are based on data presented before the team as they existed at the audit time.

In order to meet the objectives of the audit, the methodology did combine physical inspection of the campus on several occasion, with analytical reviews of relevant documents and activities, as well as interviews with the Principal, and other members of Staff and Students of the College.

Audit findings indicate that, of the 335.3T CO<sub>2</sub> of carbon footprint of the institution for the year, the contribution from Transportation and Mobility including public transport use outside the campus is at 124.8T CO<sub>2</sub> - with only 6% of it coming from the use of personal vehicles by staff and students, and that out of Wastes is at 23.3T CO<sub>2</sub>. But, remedial activities brought in a relief of 93.8T CO<sub>2</sub>. Vehicle movements inside the campus is allowable only in emergencies. Awareness programs and outreach programs are stepped up during the year. Environmental Quality in the campus is maintained well and is good.

**Prof. V K Damodaran**

FIE (India), LSM IEEE, Chairman, NGGF

Former UNEP International Consultant

03 June 2019

I agree with the recommendations of this report and further express my readiness to implement the recommendations of this audit report after internal review, even if any of them is in excess of the minimum compliance level.

**Sr. (Dr.) Magle Jose, CMC**

Principal

St. Mary's College, Thrissur

Date:



  
Dr. Sr. MAGLE JOSE  
Signature & Seal  
ST. MARY'S COLLEGE  
THRISSUR-20

## Environmental Quality - Green Audit Compliance Statement

### St. Mary's College Thrissur, Kerala

For the AY 2018 - '19

Overall Objective	Main Objectives	Compliance Status
Ensure that an effective environmental protection plan is followed in the campus with the maintenance of high level of air quality, and 3R policy on waste management - focusing on mitigation, adaptation and capacity building for Climate Change impacts, which is periodically reviewed.	<p>Ensure that there is a competent Environment Expert from an external agency, who will provide guidance on Resource conservation, Waste management and Air and Water quality assurance.</p> <p>Ensure that an Environment Protocol or Policy is adopted and followed by the entire campus community, adherence of which is reviewed, monitored, and targets reset annually.</p> <p>Ensure that frequent training and awareness programs are planned and carried out focusing on climate change resiliency and maintenance of air quality in the campus.</p> <p>Ensure that every student and staff member commit to the lowering of carbon footprint of the institution arising out of energy, transportation and other facets.</p> <p>Ensure that Environment Audit is conducted annually, with participation of staff and students, and that recommendations are followed up.</p>	<p>Ensured continuous guidance from experts of NGGFN having international experience.</p> <p>Ensured. [Vide Page 10 of Green Audit Report for the year]</p> <p>Done. [Vide Chapter # 3, 4, 5 &amp; 6 of Green Audit Report for the year]</p> <p>Commitment Ensured.</p> <p>Environmental Audit conducted annually.</p>



**Prof. V K Damodaran**

*Ex-UNEP Expert*

*For NGGFN Audit Team*

03 June 2019



**Nature's Green Guardians Foundation**  
Trivandrum 695 043 India

**Environment Biodiversity- Green Audit Certificate**

**St. Mary's College Thrissur, Kerala**  
For the AY 2018 - '19

This Green Audit including evaluation of Biodiversity conservation has been conducted for **St. Mary's College**, Thrissur, in accordance with the International Standards for ISO 14000 family of standards set by ISO TC 207 and its sub-committees, Bureau of Energy Efficiency standards, and stipulations under the Energy Conservation Act 2003 of Government of India and other relevant mandates for promotion of sustainable living and education in a healthy environment.

In our opinion, the Institution has presented true and up-to-date data on the various aspects of working of this higher education institution before the audit team, and appropriate audit procedures have been completed by the audit team for preparing this report. The assessments and recommendations are based on data presented before the team as they existed at the time of audit.

In order to meet the objectives of the audit, the methodology did combine physical inspection of the campus on several work days and holidays, with analytical reviews of relevant documents and activities, as well as interviews with the Principal, selected Staff and students of the College.

This audit is conducted to ensure that a Green lifestyle is followed and implemented in the campus across all academic and non-academic departments, as well as the body of students undergoing studies in the College, so as to make all stakeholders aware of the need for individual efforts in perpetuating conservation efforts among the people.

**St. Mary's College** Green Audit 2018-'19 has found that the institution's per capita carbon footprint for the year is only 0.112T CO<sub>2</sub> equivalent, a level well below the current national per capita average, with potential to develop into a carbon neutral campus. All efforts are taken to conserve and protect the existing biodiversity and also to extend the efforts even beyond the college boundary through outreach, and further by adopting a dedicated Green Protocol, and having a commitment to continue its green practices to positively influence the society at large.

**Prof. V K Damodaran**

*Ex- UNEP Expert; For NGGFn Audit Team*

03 June 2019

*I agree with the data presented in this report, as true, and further express my willingness to implement the recommendations of this audit report after internal review, even if any or many of them are in excess of the relevant mandates.*

**Sr. (Dr.) Magle Jose, CMC**

*Principal*

*St. Mary's College, Thrissur*

Date:



*Magle Jose*  
**Dr. Sr. MAGLE JOSE**  
Signature & Seal  
ST. MARY'S COLLEGE  
THRISSUR-22

## Environment (Biodiversity) - Green Audit

### Compliance Statement St. Mary's College Thrissur, Kerala

For the AY 2018 - '19

Overall Objective	Main Objectives	Compliance Status
Ensure that an effective biodiversity protection plan is followed in the campus with the maintenance of all plants animals living in and around the campus, and expanding the same even to communities outside the campus in addition to working for capacity building to withstand Climate Change impacts.	Ensure that there is a competent Biodiversity Expert from an external agency, who will provide guidance on Biodiversity and Resource conservation, and improve the ecology.	Ensured continuous guidance from experts with CED and NGGFn.
	Ensure that an Environment Protocol is adopted and followed by the entire campus community, adherence of which is reviewed, monitored, and targets reset annually.	Ensured. [Vide Page 10 of Green Audit Report for the year Done.
	Ensure that frequent training and awareness programs are planned and carried out focusing on climate change resiliency and maintenance of air quality in the campus.	[Vide Ch # 4 (pages 30-35) of Green Audit Report]
	Ensure that every student and staff member commit to the lowering of carbon footprint of the institution arising out of energy, transportation and other facets.	Commitment Ensured.
	Ensure that Green (Biodiversity) Audit is conducted annually, with participation of staff and students, and that recommendations are followed up.	Environment Audit conducted annually.



  
**Prof. V K Damodaran**

*Ex-UNEP Expert*

*For NGGFn Audit Team*

03 June 2019

## Green Audit Certificate

Green Audit for the period July 2018 to June 2019 has been conducted for St. Mary's College, Thrissur, Kerala, in accordance with the International Standards for ISO 14000 family of standards set by ISO TC 207 and its Sub-committees, Bureau of Energy Efficiency Standards, and stipulations under the Energy Conservation Act 2003 of Government of India, and other relevant mandates for promotion of sustainable living and education in a healthy environment.

In our opinion, the Institution has presented true and up-to-date data on the various aspects of working of this education institution before the audit team, and appropriate audit procedures have been completed by the audit team for preparing this report. The assessments and recommendations are based on verified data presented before the team on the situation as they existed at the time of audit.

In order to meet the objectives of the audit, the methodology did combine physical inspection of the campus on several work days and holidays, with analytical reviews of relevant documents and activities, as well as interviews with the Principal, selected Staff and students of the College.

This audit is conducted to ensure that a Green Policy is followed and implemented in the campus across all academic and non-academic departments and the body of students undergoing studies in the College, so as to make all stakeholders aware of the need for individual efforts in perpetuating green living habits among the people of our country.

St. Mary's College, Thrissur Green Audit 2018-'19 has found that the institution's per capita carbon footprint for the year is only 0.112 ton of CO<sub>2</sub> equivalent, a level only one-fifteenth of the 2018 national per capita average (1.7 T), with potential to develop into a carbon neutral campus by adopting a dedicated Green Policy and having a commitment to continue its green practices with approved remediation practices in position.

**Prof. V K Damodaran**, For NGGFN Audit Team, Dated 30 June 2019

*I agree with the data presented in this report as true, and further express my willingness to implement the recommendations of this audit report after internal review, even if any or many of them are in excess of the relevant mandates.*

**Rev. Sr. (Dr.) Magie Jose, CMC**  
Principal  
Date:





  
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PRINCIPAL  
ST.MARY'S COLLEGE,  
THRISSUR-20.

## Green Audit Compliance Statement

Overall Objective	Main Objectives	Compliance Status
<p>Ensure that a Green Policy is formulated, enforced and reviewed</p>	<p>1. Ensure that there is a competent Green Officer from an external agency, who will provide guidance on Environmental Impact Studies</p>	<p>Included</p>
	<p>2. Ensure that the Green Policy is reviewed annually, progress monitored and achievable and measurable targets set for the future course</p>	<p>Ensured</p>
	<p>3. Ensure that the Green Policy is enforced, regardless of whether it exceeds mandates of the law</p>	<p>Enforced</p>
	<p>4. Ensure that every member of staff and student community commits to the greening of the institution</p>	<p>Commitment ensured</p>
	<p>5. Ensure that Green Audit is conducted annually, and action taken on the basis of the report and recommendations given under them</p>	<p>Green Audit conducted and actions initiated on its recommendations</p>

**Prof. V K Damodaran**  
 For NGGFn Audit Team  
 30 June 2019