BEST PRACTICE I

SWAYAMPURNA

Objectives

Best Practices bears the cultural and economic shades of the locality. *Swayampurna* evolved from *Share a Meal* practice, after the COVID-19 pandemic. The inability to continue *Share a Meal* forced the college to adopt *Swayampurna* as a best practice. The aim of the practice is

- To ensure hunger-free campus
- To provide subsidized food to economically backward students
- To inculcate fellow feeling, compassion and empathy among students

The Context

The practice of *Share a Meal* was started in 2014 in collaboration with the NSS units. It came to a stand-still with the spread of COVID 19 in 2020. In the last months of 2019, the District Head Quarters Taluk Hospital had taken precautionary steps to reduce the possible spread of the virus by closing the admittance of inpatients. All external agency assistance in and around the hospital was tentatively blocked. So, the Best Practice Team decided to carry on with the distribution of the food in the campus in a slightly different form, once the campus reopened after the lockdown. The practice was found necessary in the post COVID scenario, as many students belonging to the lower rungs of the middle class were undergoing tangible financial crisis.



Through this programme, the students continue to provide food for patients and relatives admitted in Government hospital of the district. Initially food was served at Taluk Hospital Kottappadi, however since other organizations also started service there, from 2019 August, food is being served at *District Cooperative Hospital in Kunnummal*.

The NSS team is funding for this project through mushroom cultivation and its sale, and contribution from teachers and students. Organic vegetables which are grown in college terrace are being used. Everyday 2 NSS volunteers and 2 other students are in charge of preparing and serving the food at the hospital. Food is served on every working day at 10:30 am and each department are assigned to arrange transportation of the food on their allotted days.









പച്ചക്കഠി കൃഷിചെയ്യുന്നതും കഞ്ഞിയും കഠിയും പാചകം ചെയ്ത് ആശുപത്രിയിൽ വിളമ്പുന്നതുമെല്ലാം വീദ്യാർഥികൾ

🌼 കെ.പി.എം റിയാസ്

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© റിയ് നികർക്കും കുട്ടിക്കുകർ തും കണ്ടത്തും കുട്ടുകൾ തും കണ്ടത്തും കുടുകൾ തും കുടുകൾ തും കുടുകൾ തും കുടുകൾ തും തുറെ വിത്യാർ പിത്യാർ പിത്യ

ചില സ്വന്ദ്രയ സൗത്രവകൾ പല സ്വയങ്ങളിലായി കേല ചല സ്വയങ്ങളിലായി കേല ചല പ്രത്യായ പ്രത്യായ പ്രത്യായ ചല്ലായ പ്രത്യായ പ്രത്യായ സ്വയ്യ സ്വയ്യ പ്രത്യായ പ്രത്യായ കാര്യായ വിയുന്നു. സാധാരണ കാര്യായ പ്രത്യായ പ്രത്യായി കാര്യായ പ്രത്യായ പ്രത്യായ പ്രത്യായി കാര്യായ പ്രത്യായ പ്രത്യ പ്രത്യായ പ്രത്യ പ്രത്യായ പ്രത്യായ പ്രത്യായ പ്രത്യായ പ്രത്യായ പ്രത്യായ പ്രത്യം പ്രത്യായ പ്

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The Practice

After the lockdown, *Swayampurna*, an initiative to turn the campus 'Hunger Free' materialised. The initiative is financially supported by the Alumni Association, Former Teachers' Union (FORT) and the staff. A committee was formed to monitor the programme with a bylaw. The initial aim of hunger free campus has succeeded, and *Swayampurna* has expanded its reach by providing mobility support for the differently abled students from this academic year onwards.

Inauguration and Logo Release: Swayampoorna Project







Results/ Evidence of Impact

Learning lessons from the erstwhile *Share a Meal*, students voluntarily helped the community in times of crisis like the floods; collected essential items like food, clothing and other basic amenities, and donated them; cleaned and chlorinated the flood hit areas; visited different parts of the landslide hit Nilambur and joined hands in the herculean task of cleaning a large region;

and distributed food packets to the victims of flood hit regions on the banks of river Chaliyar. The willingness and readiness to help those in crisis spring from the lessons of the practice.

Problems Encountered and Resources Required

The issue of raising funds for *Swayampurna* cropped up initially, which was solved by receiving voluntary contributions from the Alumni and members of the staff during regular intervals. Later, a separate account was opened and more sponsors were identified. The main challenge was to identify the deserving students as many of them were reluctant to register themselves. To resolve this, tutors were entrusted with the charge of identifying eligible students.

BEST PRACTICE 2

PACHAPPU

Pachappu which in English means greenery is an umbrella term for the twin programme; ecofriendly practices within the campus; and the participatory, mass educational programme done outside the campus. It is implemented in collaboration with local self-government. It is tinged with activism involving students, teachers, their families and people of a select locality. It has the following objectives:

Objectives

- To inculcate a vigilant attitude towards Nature and immediate environment in the days of climate crisis.
- To educate the students and their family about the symbiotic existence of the flora and fauna
- To sensitize all on the need to curtail anthropocentric activities

The Context

Climate crisis has affected humanity detrimentally. Several cases of natural calamities, sunburns and heat strokes necessitate the need of an eco-consciousness. That is how the concept of *Pachappu* evolved and was integrated into the campus. It is a two-pronged practice where an attitudinal positivity towards Nature is blended with an activistic readiness of humans.

The Practice

Over a period of time, the college has created "cool spots" at multiple locations in the 5.8-hectare campus. The Herbal Garden; the Butterfly Garden; and *Under the Mango Tree* are some of them. In addition, the students are engaged in planting saplings in the cultivable soil; engaged in Mushroom Farming (2016-19); programme for River Bank protection; and seasonal vegetable farming by the NSS using bio manures. After readying the "cool spots", the college launched a mass environment educational programme in the select wards of Malappuram municipality. *The Green Army*, a joint front of students, teachers and their family was formed to ensure the transaction of these ideas to the larger society. Six teams of fifty participants, including students,

parents and teachers was formed. They were entrusted with the duty of dessiminating messages on the need to protect environment in a chosen locality. They will transact it through multiple media like songs, street plays and grassroots action like protecting the greenery in the area. A College Best Practice Team involving all the participants are monitoring the programme. So far, the college is working in the six wards of the municipality. The College has initiated steps to sign MoU with Malappuram Municipality to strengthen the relationship.

Plastic Free Campus Campaign

An event was held to promote the use of cloth bags instead of plastic bags. Cloth bags were prepared by collaborating with *Kudumbasree units* and then distributed among NSS volunteers and in adopted village Aanakayam. The programme was inaugurated by Principal Dr. KS Maya and presided by NSS programme officers Mr. Moideenkkutty Kallara and Mrs. Hasnath.



Waste classification training programme

As part of the Green Protocol, the waste collected in different parts of the campus were gathered by NSS volunteers and then sorted into different categories such as electronics, plastics, paper, wooden and other degradable wastes under the guidance of *Kudumbasree members*.



Distribution of herbal plants

Herbal plants were distributed to hundred new NSS volunteers as a way to promote knowledge about medicinal herbs among the young generation. More than 35 types of herbal plants were distributed in the function which was followed by taking an oath to protect the environment.



Campus Beautification (Medicianl Garden)

Thirty herbs were planted as part of building a herbal garden in the college campus by the NSS team. The programme was inaugurated by Principal Alavi Bin Muhammed, and NSS program officers Prof. Moideenkkutty Kallara and Prof. Hasnath lead the programme.



ഔഷധ സസ്വ ഗാർഡനൊരുക്കി വിദ്വാർഥികൾ

മലച്ചുറാ : ഗവ. കോളേജ് എൻ.എസ്. എസ് യൂനിറ്റ് ന പ്രൊഫ. ഹസനത്ത് എന്നിവർ സംസാരിച്ചു ടപ്പാക്കി വരുന്ന ത്രെതമാസ പരിസ്ഥി ബോധവൽ വളണ്ടിയർ സെക്രട്ടറി അംന , റുഫാദ, അസ്മ നി ക്കരണ കാാപയിനിന്റെ ഭാഗമായി കോളേജ് കാാപ ഷാന എന്നിവർ നേതൃത്വം നൽകി. സിൽ വിദ്യാർഥികൾ ഔഷധ സസ്യ ഉദ്യാനത്തിന് കാംപയിനിന്റെ ഭാഗമായി തുണി സഞ്ചികളുടെ വി തൈകൾ നട്ടു.

ജാവ തിപ്പലി , ബ്രഹ്മി , ശതാവരി , കുടം പുളി , കരു 💮 രിസ്ഥിതി ബോധവൽക്കരണ തെരുവു നാടകങ്ങളും ന്നെച്ചി, ആടലോടകം, കാട്ടപ്പ, കൂവളം, ദന്തപ്പാല, നടന്നു വരുന്നു. അത്തി, രാമച്ചം , ചിറ്റരത്ത , കുമിഴ് , കറിവേപ്പില് ' അ ശോകം , അയോൽ , തിപ്പലി തുടങ്ങി 35 ഔഷധ സ സൃങ്ങളാണ് വിദ്യാർഥികൾ നട്ടു വളർത്തുന്നത് . പിൻസിപ്പൽ ഡോ. അലവി ബിൻ മുഹമ്മദ് ഉദ്ഘാ പ്രോഗ്രാം ഓഫീസർമാരായ മൊയ്തിൻ കുട്ടി കല്ലറ,

തരണം , പരിസര വീടുകളിൽ അടുക്കള പച്ചക്കറി കുടകപ്പാല , ചിറ്റമുത് , കിരിയാത്ത , മിൻറ്റ് തുളസി , ത്തോട്ട നിർമ്മാണം , ഫല വൃക്ഷത്തെ നടൽ , പ

കോഷൻ ഡെപ്പോസിറ്റ്

മഞ്ചേരി:കാരക്കുന്ന് ഗവ.ഹയർ സെക്കണ്ടറി സ്കൂ ളിൽ 201618, 201719 ബാച്ചുകളിൽ പ്ലസ്ടു കഴിഞ്ഞ കുട്ടികളുടെ കോഷൻ ഡെപ്പോസിറ്റ് തുക ജൂലൈ 1,2, തിയ്യതികളിൽ വിതരണം ചെയ്യുന്നതാണ്.

Distribution of seeds

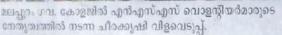


Terrace garden

This was another endeavour launched by NSS volunteers of Malappuram Govt. College. The roof top of college building was used for Terrace farming. 100 grow bags were planted with varities of vegetables as a primary stage. The terrace farming was inaugurated by Prinicipal Alavi Bin Muhammed. Later a pair of volunteers were assigned to look after the cultivation daily. The vegetables grown here were used for preparing food for *Share a Meal* project.









Mushroom cultivation

In order to collect funds for the functioning of 'Share A Meal' project, NSS team came up with the idea of mushroom cultivation. 1st year NSS volunteers collected Rs 50000 and set up a dark room for growing mushrooms and fog pipes for controlling the temperature. 250 mushroom buds were planted and mushrooms were sold in packets of 125g and 250g at the rate of Rs 400 per kg. A mushroom fest was also conducted by preparing variety dishes using mushroom as a means to promote mushroom cultivation.









Preparation of 'Karkkidaka Thenga Marunnu'

Environmentalist Shri. Promod Irumpuzhi led for the preparation of 'Karkkidaka Thenga Marunnu', which boosts our immunity system and prepares our body for the climatic changes that occur in monsoon. Under his guidance NSS volunteers prepared and distributed the *thenga marunnu* among students. This is made from grated coconut and six types of cereals and many other spices.



Signing up for environmental protection



Cleaned up campus, farm and its area

NSS volunteers cleaned up college campus, farm and surrounding area as a part of Gandhi Jayanti weekly celebration



(B) (സ്ലെന്ന്) സ്ക്രിസ് സ്ക്രീം യുത്തു വരുന്നു പ്രത്യാക്കാളേജ് മലപ്പുറം

25 October 2019 OPEN AIR AUDITORIUM









കുണിലും കൈപ്പുണ്യമറിയിച്ച് മഷ്റും ഫുഡ് ഫെസ്റ്റ് • ലേദും വേ കോളലലണ് ക്ഷേത്രയോഗാക്കിയത്



ബിരിയാണി, കട്ലറ്റ്, സമുസ... ഏതുഭവണം?

കൂൺ രൂചിയറിഞ്ഞ് ഭക്ഷത്രേള

ങ്ങളുടെം കൂണിന്റെ വ്യത്യയ്യ രൂചി യറിഞ്ഞ് ചലപ്പുറം ഗവ. കോളേജ് വി മ്രാർലീകരം. എൻ എസ്.എസ്. യൂണിറ്റിന്റെ

എൻ എസ് എസ് യൂണിറ്റിൻെ ടൂൺ ഉഷിയുടെ വിളവെടുപ്പിനോട റൂബസിപ്പാണ് കുൺ ക്ഷേട്രമേള കാ വസിൽ നടത്തിയത്. ബിരിയാണി, രാളുഡ് തോണ്ട്. പ്രായനം, കുട്യോ സമുസ് ആച്ചാർ എന്നിവയായിലുന്നു മുഖ്യ ആകർഷണം. ഇതോടൊപ്പം വിദ്യാർഥികാം വിദ്യ

കളിൽ തയ്യാറാക്കിയ മറ്റുവിവേണ്ടും പേരിനതോടെ മേറ്റ സമ്പന്തായി വുടക്കാ കൂണ്ട് ഗ്രാമം പാധാതി ആസുരൂക സറീന മുഹതാലെ മുപ്പോ തിലിയായി പാൽ കുണ്ട്, കിപ്പിക്കുന്ന് ഈൺ കുൺ എന്നിവയുടെ ഗ്രാർഗ നവും വിൽപ്പനയും ഉണ്ടായിരുന്നു.

നം ജീവകാരുണു പ്രവർത്തനങ്ങടാം ഒര് വരുത്തിലുമെന്ന് വിദ്യാർഗ്രീകാം പാരത്തു ജില്ലാ പഞ്ചായത്ത് വൈസ് പ്രസി

പ്രിര്സിച്ചത് വേഗ കെ.കെ. ര മോദരൻ അധ്യക്ഷനായി. അവദ ബിൻ മുറഞ്ഞർ, പരിമം ശീരാ സവുഗ രാഹസ്, അങ്ങം, മമേർ, മൊയ്യിർ കുടി കല്ലർ, പ്രോഹ ഹസനത്ത് ബു ബിയവർ പടക്കുത്തു.



Nature's Green Guardians Foundation

Green Audit - Biodiversity Audit

Compliance Statement for AY 2020 - '21 Government College, Malappuram, 676 509, Kerala

Overall Objective	Main Objectives	Compliance Status
Ensure that an	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 of experts from NGGPn
effective biodiversity protection plan is followed in the campus with the maintenance of all plants and	 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 2020-21 Green Audit Report for the Green Protocol]
animals living in and around the campus, and expanding the same even to the communities	 Ensure that frequent training and awareness programs are planned and carried out focusing on climate change resiliency. 	Done. Two during the Audit year. Committed to Continue.
autside the campus in addition to working for capacity building to withstand Climate Change impacts.	Ensure that every student and staff member commit to the lowering of carbon Sootprint of the institution through sustained greening measures.	Commitment Ensured.
	 Ensure that Environment Audit is conducted annually, with participation of staff and atudents, and that recommendations are followed up. 	Annual Green Audit commitment ensured.

Prof. V.K Damodaran

For MICE And Texas, dated 04 November 2003



Nature's Green Guardians Foundation Green Audit - Energy Audit

Compliance Statement for AY 2020 - '21 Government College, Malappuram, 676 509, Kerala

Overall Objective	Main Objectives	Compliance Status	
Ensure that an effective energy management plan is followed in the campus with high degree of energy efficiency and increasing rate of utilization of enewable energy, as also help raise the Climate Change resiliency, which is periodically reviewed and implemented incressantly.	1. Ensure that there is a competent Energy Management Expert from an external agency, who will provide guidance on linergy conservation and energy transition initiatives. 2. Ensure that the Energy Conservation Strategy is reviewed annually, progress monitored and achievable and measurable targets set for the future course. 3. Ensure that a Policy on embracing Green energy, energy efficiency, and wastes to energy is evolved, enforced, and reviewed regardless of it exceeding legal mandates. 4. Ensure that every student and member of staff commits to the lowering of carbon footprint of the institution from all facets of energy use. 5. 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 energy agency.	Ensured continuous support and guidance from NGGFn headed by an International Energy Expert and with multidisciplinary expertise. [Ensured. Vide Section on Energy Efficiency and on Renewable Energy Use in the Green Audit Report for 2020-21.] Ensured. Vide Green Protocol in Green Audit Report of 20-21. Ensured. 2 Training programs organised. Energy Audit conducted and actions for 2022-23 in planning stage.	

Prof. V K Damodaran Ex-UNIOO Rhemational America Committee For NGGPs Audit Toom, sheed 64 Yourshier 2022



Nature's Green Guardians Foundation

Trivandrum 695 043 India

Green Audit - Environment Quality Certificate Government College, Malappuram, Kerala for AY 2020-21

Environment Audit for the academic year 2020 - '21 has been conducted for Government College, Malappuram, Kerala, in accordance with the International Standards for ISO 14000 family of standards set by ISO TC 207 and its Subcummittees, Biological Diversity Act 2002, Environmental Protection Act 1986 (and amendments) of Government of India, and other relevant mandates for maintaining 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, and appropriate audit procedures have been completed by the audit team for issuing this Audit Certificate and Compliance Statement. The recommendations are based on verified data presented on the situation as they existed at the time of audit.

The audit methodology did combine physical inspection of the campus on several occasions, with analytical reviews of relevant documents and activities, as well as interviews with the Principal, selected Staff members and Students of the College.

Audit findings indicate that, of the 359.4 T CO₂ of carbon footprint of the institution for the year, the contribution from Transportation and mobility including public transport use is at 276.7 T CO₂ - with 80.2 T coming from the use of personal vehicles by staff and students, and that out of Wastes is at 15.3 T CO₂. But, remedial activities contributed a relief of only 27.2 T CO₂ The campus is maintained litter free, clean, and green.

Prof. V K Damodaran

Ec-LWIDO International Energy Expert

For NGGFs Audit Team, dated 04 November 2022

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

Dr. K K Damodaran, Principal

Government College, Malappuram, Kerula

Date: 04 November 2022

Signature & Seal



Green Audit - Environment Quality Audit

Compliance Statement for AY 2020 - '21 Government College, Malappuram, 676 509, Kerala

Overall Objective	Main Objectives	Compliance Status
Ensure that an effective environmental protection plan is followed in the compus with the maintenance of highest level of air quality, and 3 R policy on waste management - focusing on mitigation, adaptation and capacity building for Climate Change impacts resiliency, which is periodically reviewed and got implemented by all stakeholders.	1. 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. 2. Ensure that an Environment Protocol is adopted and followed by the campus community, asherence of which is reviewed annually. 3. Ensure that frequent training and awareness programs are chalked out and implemented, focusing on climate change resiliency, maintenance of air quality in the compus and students' living environment. 4. Ensure that every student and member of staff commits to the lowering of carbon footprint of the institution from all facets of energy use, including for transportation and mobility needs. 5. Ensure that Environment Audit is conducted annually, necessarily with involvement of staff and students, and action taken on all recommendations arising out of it.	Ensured guidance from NGGFn and CED - having International environment, transportation, and energy management experts Ensured. Green Protocol included in the Green Audit Report for the year. Ensured. Training given. Regular work experience also ensured. Commitment Ensured. [Elaborate infrastructure for environment quality assurance to be installed]. Ensured. Ensured.

Prof. V. N Damodaran

"En UNSP Expert For NOOPs Audit Tream, dotted Of Neurober 2022

Nature's Green Guardians Foundation

Trivandrum 695 043 India

Energy Audit Certificate

Government College, Malappuram, Kerala for AY 2020-21

Energy Audit for the period of academic year 2020-21 has been conducted for Government College, Malappuram, Kerala, in accordance with the International Standards for ISO 14000 family of standards set by ISO TC 207 and its Subcommittees, Bureau of Energy Efficiency Standards, and stipulations under the Energy Conservation Act 2021 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 relevant activities to the audit team, and appropriate audit procedures have been completed for issuing this Audit Certificate and the Compliance Statement. The recommendations are based on verified data presented as they existed at the time of audit.

The inspection methodology did combine physical inspection of the campus, with analytical reviews of relevant documents and activities, as well as interviews with the Principal, and selected members of Staff and Students of the College.

Audit findings indicate that, of the 359.4 T CO₂ of carbon footprint of the institution for the year, the contribution from direct use of electricity and firewood was limited to 39.7 T CO₂. Transportation including public transport use journide the campus) is at 276.7 T CO₂ for 70% of the total). Wastes contributed 15.3 T CO₂ only, but wastes to energy thro' blogas returned 4.5 T CO₂ fremedial measures). Effective awareness and training programs were conducted during the year and are planned for the future as well, to make all stakeholders aware of the need for individual efforts.

Prof. V K Damodaran

Ex-UNIDO International Energy Expert For NOOFn Audit, dated 04 November 2022

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.

Dr. K K Damodaran, Principal

Gouvrement College, Malappurore, Kerala.

Date: 04 November 2022

Signature & Seal

Nature's Green Guardians Foundation

Trivandrum 695 043 India

Biodiversity - Green Audit Certificate Government College, Malappuram, Kerala for AY 2020-21

This Green Audit including evaluation of Biodiversity conservation has been conducted for Government College, Malappuram, Kerala, in accordance with the International Standards for ISO 14000 family of standards set by ISO TC 207 and its sub-committees, and Biological Diversity Act, 2002 [Act No. 18 of 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 for preparing this report. The assessments and recommendations are based on data presented before the team at the time of audit.

The audit 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 designated 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.

Green Audit 2020-'21 of Government College, Malappurum has found that the institution's per capita carbon footprint for the year is only 0.179 ton of CO₂-equivalent, a level well below the current national per capita average of 1.84 t CO₂(2021 level), with **potential to develop into a carbon neutral campus.** All efforts are taken to conserve, protect, and enrich the existing biodisersity and also to extend efforts even beyond the college boundary through outreach, and further by implementing the Green Protocol, and having a commitment to continue its green practices to positively impact the society at large.

Prof. V K Damodaran

Re-UNEP Expert

For MOOFn Audit, dated 04 November 2022

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

Dr. K K Damodaran, Principal

Government College, Mislappurore, Kerisla

Date: 04 November 2022

Signature & Seul

GREEN AUDIT OF GOVERNMENT COLLEGE, MALAPPURAM Munduperamba PO, Malappuram, 676 509, Keralia

Carbon Footprint Analysis and Evaluation for 2020-'21

The actual per capita carbon footprint for Government College, Malappuram, Kerala is 194 kg i0.194 Ten) of CO₂ equivalent [359.4 Ten/(1821 + 29 visitors), and an offset of 27.2 TCO₂ through cemedial actions is obtained. The net carbon footprint during 2020-21 is thus [359.4 - 27.2 = 332.2 T CO₂ eq.].

The effective CF is 332/1850 or 0.179 T or 179 kg CO2 per capits [2020-21]

According to the Economic Survey of Govt. of India, the per capita emission for an Indian is 1.84 Ton $CO_{1.00}$ per area on 2021. It is projected to reach 3.0 - 3.5 T of CO_{2} by 2030 as per evaluation in 2010, india's effect for greating is luckely bringing in a radiation from the espected CF level by at least S^{*} 6.

For the year 2020-21, for Government College, Malappearan, Korsis, the Corbon Footprint per capits at 0.179 T CO₂ equivalent, is very modest. This is achieved due to the minimal use of resources equivalent to a rural setting and the sample life style of the students

The campes can be treated as a 'low carbon footprint' institution.

The remediation gap between the assensed footprist and the available remediation is 332.2 Ton CO; eq. On a closer look, the major contributors are:

- L. Transportation (276.7 T of COst
- 2. Use of Purchased Electricity (28 4 T of COg)
- 3. Events, and Postivals (25.7 T of COs), and
- 4. Use of Firewood (LLJ T of COs).
- Food waste contributes 12.9 T of COs only, and it is converted to energy in a biogas plant built in the campus.

The College may consider assural remediation options, in spite of its very low CF status. Being a college with moderate use of personal vehicles like the use of scooters/bises, and cars, the present 70% share of cerban footprint of Transportation is largely due to large number of students daily commuting by two from distant places. Government policy on admission – single window – does not allow students to choose the neighbourhood college for study, and this result in the need for longer daily commutation.

The campus grammy content is worth improving. College is to plot alread for continuous apprading the greening efforts, and introduction of roof top Solar PV installation to wipe aff the carbon footprint completely.

[PTO]

Bry V. H. Danielman

Carbon Footprint Calculation of Government College, Malappuram, 676 509 Kersin, for 2020-21

Mc.	Seatte	Paci	Quantity a Dayleynee	Total Quantity	Armad Sprt. COr
La	Elementy and	USD NICOLINES Each in 2018		34 A MWs	28.47(0)
22	Freed fight san	2.66 kgCDeq/kg 2.36kgCO-eq/kg	18% (18%) 0 kg + 28 kt + 3 kg	0.894 T	20713
Le	Personal	1.RhgCOveq19g	200 x 25 kg	B.TT	TLUT CO.
24	Food waster	1.8 kgCOvey/kg	21,4160	6.87	12.9 T CD:
26	Paper waste	1.728 ligCOyen by	3 kg x 250	877	LETCO
20	Water waste	C.F98agCComphil.	4 SL + 750	6.5 M	0.0 T ETI-
2.6	Florer, Ottore	8 MagCO eq. Hg.	80g s 290	0.2 kg	1.2 T CO.
3.0	Dua/Trato finderes	3 aix legicitive_ring	EY708A258 (9064	YETH	189.9 7 006
33	Shadent weekly trips	2.68 hgCOpes/L	330346303		- 0.0 T.CO.
315	Care, Texto	2.30 kg/Styru/L	39841090,10	36.336.	90.5 T CO.
3.4	Auto rickshame	3.68 kgCOpeg L	149(258) 30	13.80	3,27 00:
3.4	Two wheelers	3.36 lgCOong/L	1T306250/50	67 M	15.9 T (33)
4	Every, Feetivals	Appron	1000x8x1.2	9.6 T	28.7 T.OQ
3	Construction	Lump with		- six	EATON
	Total			-	369.4 T CO

*No, of setting days in 2020-21-250 days

Table 4.1: Calculation of Carbon Footprint Bource-wise

Remediation for Carbon Footprist of Government College, Malappuram, 676 509 Kerala, for 2020-21

10. Par.	Terror	Sar	Growing a Days was	Total Quantity	Aparoxi Equi. Reneli COs
1	Lis. Solar PV electricity Lis. Solar Hot Water	0.83gC0;/Whi 1.34	Set IN (Been Light)	Ches.	8.27 CO ₂
	1 it Was energy 1 it Dogw	23 sgctiv/st.	I ram/day	200.034	43700
100	Le. More Hydra Person, ether	-	Note:	-	ESTOS
2	2 a. Replacing old tube lights 2 b. Replacing folio & CPLs 2 c. Replacing Ficis, Motors	130	Perer .	-	88100
	2.4. UPS Upgrading 2.e. Reduce Premium had		New New		-
2	1.4. Water Reduction 3.5. Properling 3.6. Waste to Rivery	6.36kg001/kL	6 M./ day Lindovit File other:	1,500 %	Larco
	4.a Sharing of reductor 4.b Low Contyriol options 4.c Strategy Subsy relation		1,4	3	0.0100
1	S.a. Conveying Sense returned S.b. Tree planting, Blodwerstr S.e. Gardens, Lawre, Trees, etc.	2384/97 2384/97 2308 64/929	Fee asser/se.	0.15 acre	181700 181700
	5 Nalleng & buyele ton	2.66 kg/s Areded	80x1x350;70x1	roons	1.6.7.00
-	7. Ocensels activities	32 14/31	250 area.	580%	3.07.00
-	Total	TO DO STORY	vice and the black	-	27.17.00

Table 4.2: Remediation for Carbon Fortprints available/created

The International Organization for Standardsonon (ISI) also provides some general standards for a Greenhouse pas pressures at Organization basel (ISO 14064 - 1) and

Greenhouse gas enumerous of project level \$50 (4064 - 2)
 Specifications to solidate and verify referent assumings are documented in \$50 (4064 - 3)

[Full Report of Green Audit of SMC Puthanungadi is issued separately]

Rg. V. K. Damidon A HESTE CA | H . Zetz

Results/ Evidence of Impact

The greenery maintained in the campus along with an environmentally friendly attitude highlight this. The proper maintenance of Herbal Garden, Butterfly Garden and Under the Mango Tree, prove the eco sensitivity instilled in the students. As the girls learned to critique the impact of anthropocentric activities through the field work, an attitudinal change is visible in the understanding of the symbiotic existence of the flora and fauna in every family.

Problems Encountered and Resources Required

The college faced the initial problem of making the campus free of plastic. It was made possible through a sustained campaign along with the extra counselling given to all involved. The preparation of a module for transacting at the grass root level posed challenges. Similarly, converting these messages into songs, street plays and musical performance also took some time. There was no monetary expense as the work was carried out by *The Green Army*. The saplings are provided to us free of cost by the involvement of the Alumni.