



ST. DOMINIC'S COLLEGE, KANJIRAPALLY

AFFILIATED TO MAHATMA GANDHI UNIVERSITY KOTTAYAM

RE-ACCREDITED WITH A GRADE BY NAAC

ABSORB & RADIATE



Photographs of facilities and measures for Initiatives under NAAC Criterion 7.1.2



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1. Alternate sources of energy and Energy conservation measures

- **Solar plant**

For the purpose of conserving energy, the institution has adopted the solar power system which produces an average solar energy of 5 KW.



- **Sanction under RUSA scheme**

With the view of conserving more energy in the future, a 20 KW solar power system has been sanctioned for installation under the RUSA scheme. The tender process for the same has been initiated.

ST DOMINIC'S COLLEGE KANJIRAPALLY 2019			
3. Installation of 35kWp Solar Power plant			
The current global world needs clean and renewable energy sources as fossil fuels are non-renewable and require finite resources, which are dwindling because of high cost and environmentally damaging retrieval techniques. Renewable energy sources can be extremely practical as alternatives to damaging carbon-intensive fuel. An efficient and more feasible alternative option is solar energy. Solar energy is a more practical type of energy due to its plentiful availability.			
The college decided to reduce its consumption of electricity from grid lines by switching over to solar power. Apart from expressing our social commitment in reducing the use of non renewable energy sources, it helps us economically as well as from unexpected power failures. The detailed estimate is attached as the table below			
No.	Item	Amount	Description of Items
A	Solar Modules	10,50,000.00	Solar Modules, 255Wp to 330Wp
B	Inverter	3,15,000.00	Multi Crystalline kWp 35 Nos. Inverters with data logging and string monitoring; String Inverter - 30kVA
C	Data Logger for Plant	35,000.00	
D	Solar Module Mounting Structure	1,70,000	Module mounting Structure (G.I./MS/Aluminium Extrusion)
E	Supply of Electrical Items - DC Cables, AC cables, Junction Boxes, Panel Board, Earthing & Lightning Arrestors	1,70,000.00	Interconnection between module and SCB: 250Mtr. Interconnection between SCB & Inverter: 50Mtr. Interconnection between Inverter & LT Panel: 15Mtr. Array Junction Box - 1000V DC AC Combiner box with digital energy meter Earthing kit and lightning arrestor
F	Installation & Commissioning	1,20,000.00	
G	Packing, Delivery & Transportation Insurance	44,762.00	
H	GST@5%	95,238.00	
I	Grand Total	20,00,000.00	
Amount in Words : Rupees Twenty Lakhs only			
RUSA - Detailed Project Report			
57			

2. Management of the various types of degradable and non-degradable wastes

As part of going all about a plastic-free eco-friendly campus, the college has made strict rules regarding the disposal of degradable and non- degradable wastes.

- We are not producing any hazards chemical wastes from our laboratories.
- **Reuse of non- degradable waste**

The non-degradable waste products are recycled and used as alternatives of pots in the campus garden.



- **Color coded bin for waste collection**

The color coded bins are used extensively for the collection of dry, wet and plastic wastes separately.



- **Portable Vermi –Compost**

A portable Vermi compost system has been introduced by the institution for the purpose of breaking down organic wastes into high quality fertile manure to be used in our own gardens



- **Oil turbo for burning used oil in cooking**

To recycle waste oil from the kitchen, the institution has implemented an oil burner system.

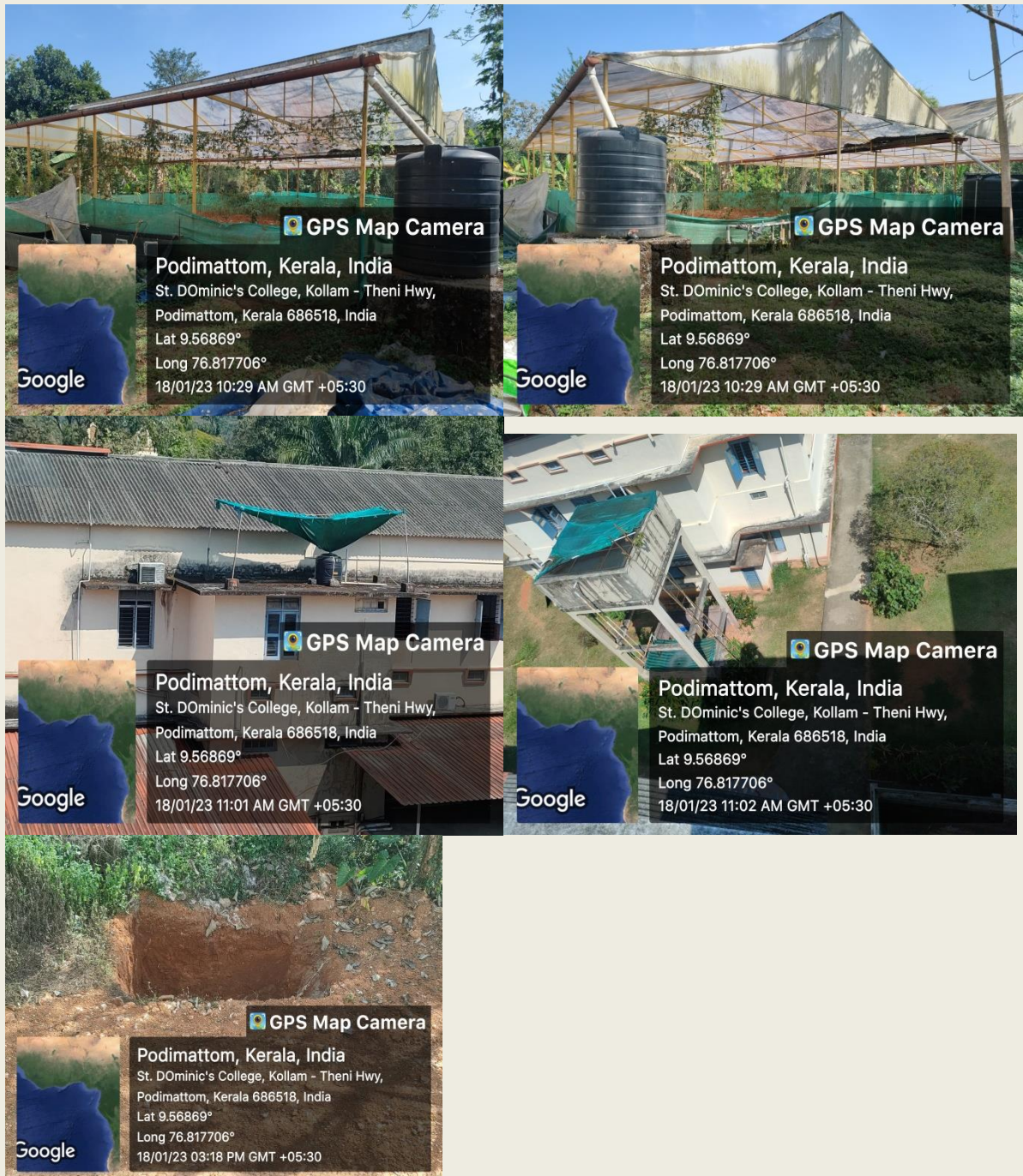


- The e-waste and other non – degradable waste produced in the campus were handed over to authorized local vendors and Haritha Karma Sena, the authorized agency of Government of Kerala for waste management.

3. Water conservation

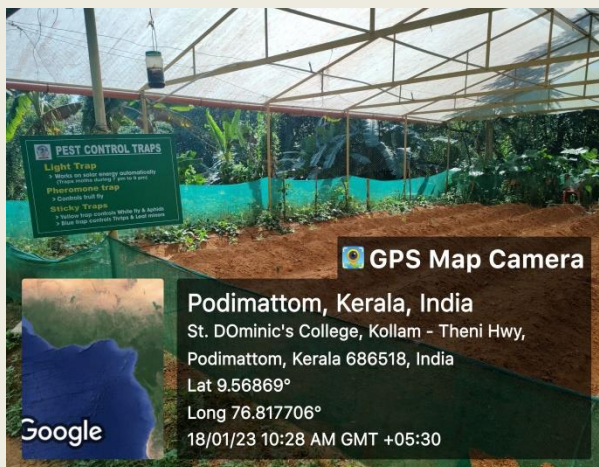
- Rain water harvesting & Ground water recharging

In order to conserve the water and to ensure the sustainable usage of water resources, the institution has adopted techniques like rainwater harvesting system and ground water recharge systems through pits.



- **Precision farming**

The B.Voc department of our institution had implemented precision farming which in turn helps in reducing the overuse of water.



4. Green campus initiatives

Several green initiative programs were put into practice in view of maintaining a green campus. The flora and fauna of the campus are enriched with trees, shrubs, herbs, climbers and varied species of butterflies. The institution maintains green landscapes by constructing Vertical garden, Butterfly garden, Herbal garden, Botanical garden and Aquatic garden.

- Clean and Green campus, Tree labeling



- **Herbal and Botanical Garden:**

"Fiddle Heads", the fernery of the institution holds an abundant collection of more than 75 plant species and the community is made aware of these through labelling of trees and plants. The Herbal Garden nurtures a wide variety of medicinal plants and helps the students to gather information about the traditional medicinal practices that are common in the past. The botanical garden is the home to a variety of plant species which not familiar in the area, along with natural plants.

Herbal Graden



Botanical garden



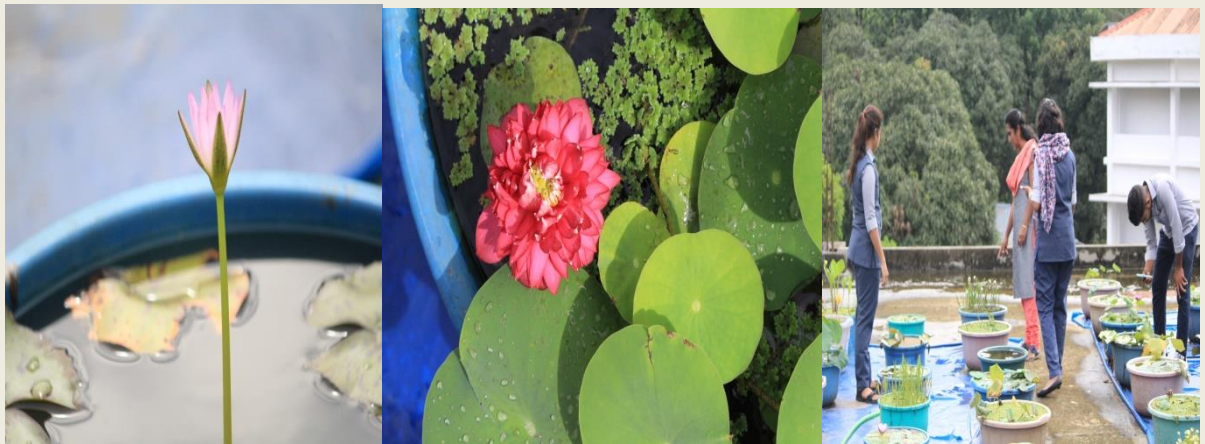
- **Butterfly garden**

The campus also treasures a butterfly garden at its heart which has become a hub for different varieties of butterflies.



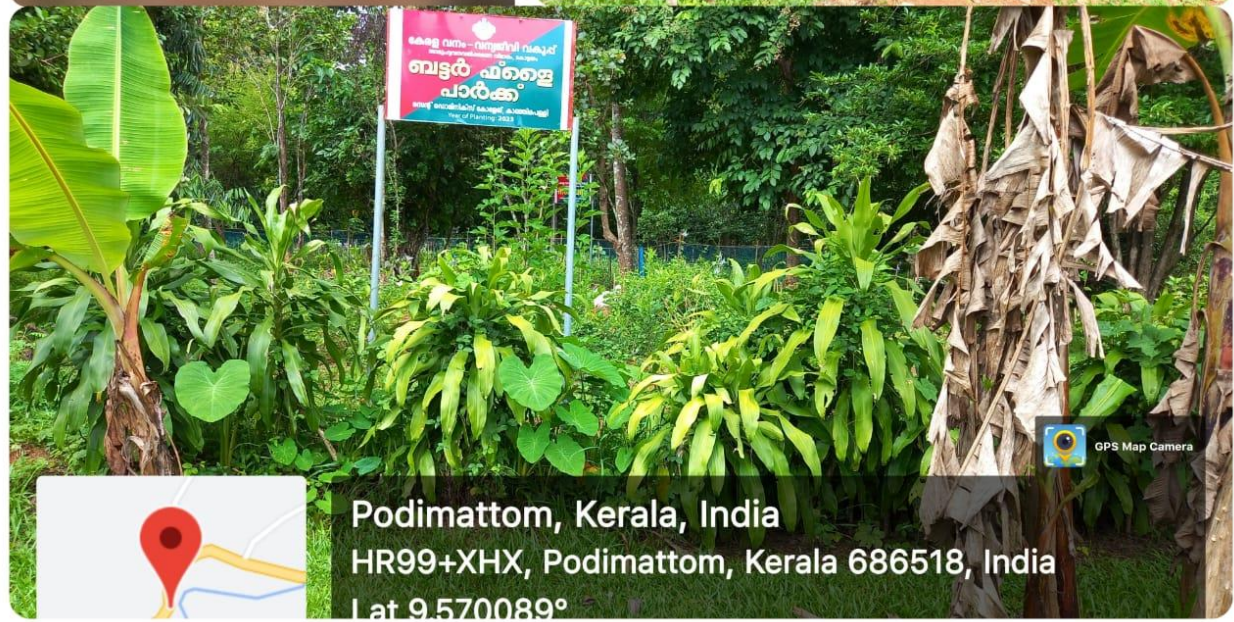
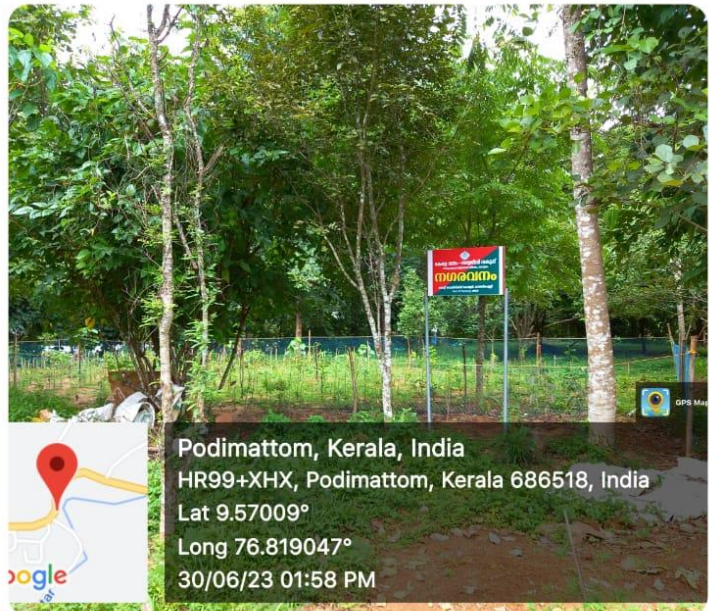
- **Lotus Garden**

The botany department of the institution maintains a beautiful Lotus garden.



- **Social forestry**

The campus adopted the scheme of social forestry, wherein we have raised 'Nagarvanam', a man-made forest for going all green.



- **Overflow of water from water tank used in fish breeding and output used for herbal gardening**

The institution has also introduced aquaponic gardening with the ultimate aim of reducing the wastage of water by 90%. The overflowed water from the tanks is used for fish cultivation and the residual waste from the fish tanks are pumped out and released into the Herbal Garden.



The college also generates interest among its student community about horticulture and apiculture through well maintained gardens and bee hives in the campus.

5. Disabled – friendly and Barrier free environment

The institution provides a barrier-free environment for the differently abled people through the aid of wheel chairs, special restrooms and bathrooms, anti-slippery floors and grabs bars, and a special parking area. The e- repository and the digital library facilities provided by the college helps the disabled students to access the necessary academic resources.

