

## GREEN COVER

### 1. LANDSCAPING

In 2021, a startup company named Grun Agro Ventures Pvt started landscaping work on the Maharaja's College campus as part of the higher education council's green campus initiative. The space has been divided into a fruit orchard, butterfly garden, tropical plant zone, flower garden, tuber spice/fern garden, and beautifying work on the existing trees, in accordance with the DCE-approved proposal submitted by said startup company.

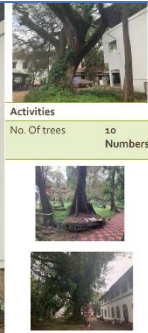
Thrust areas were a) Rejuvenating old trees and other canopy trees that form part of the present ecosystem b) Maintenance of walkways and other civil structures that form part of the garden scape c) Creation of various vegetation zones in and around the campus d) Creating Pathways , Water Features , nesting and breeding areas for creatures e) Setting up distributed composting areas for composting plant debris and organic matter, f) Automatically controlled drip irrigation and fertigation system.



## Revitalizing

### Activities

De weeding , tree trunk and base cleaning	45,000 INR
Tree trunk crochet art work	1,00,000 INR
Bird feeder installations	15,000 INR
Wall graffiti works over existing tree trunk bases	1,50,000 INR
	<b>3,10,000 INR</b>

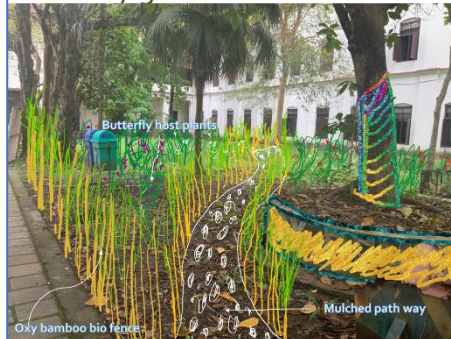


### Activities

No. Of trees	10
Numbers	



## Butter fly garden



### Features

Area	900 sqm
Barrier crop	Oxy bamboo
Irrigation	Drip & sprinkler
Host plant varieties	50

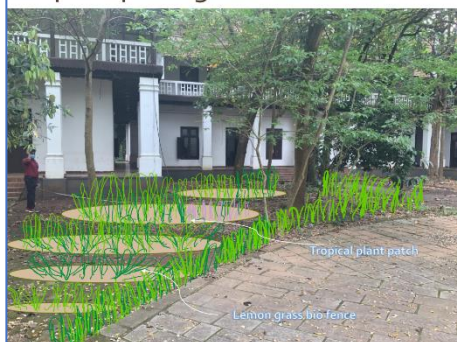
## Orchard



### Features

Area	900 sqm
Barrier crop	Oxy bamboo
Tree count	40
Trees	Native fruit bearing
Irrigation	Drip

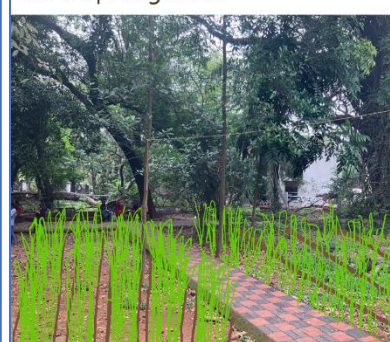
## Tropical plant garden



### Features

Area	910 sqm
Barrier crop	Lemon grass
Plant density	10/sqm
Plant type	Tropical shade loving
Irrigation	Drip & Sprinkler

## Tuber spice garden



### Features

Area	2,000 sqm
Plant type	Turmeric / ginger
Irrigation	Drip & Sprinkler

## Progress of work

Sl. No	Area	Activities	Work completed
1	Fruit Orchard	Barrier plant – Oxy bamboos, tree 40 nos., irrigation drip	Tillage and soil manipulation completed, prepared soil bed for fruit trees; Drip irrigation installed; Planted 25 fruit trees
2	Butterfly garden	Barrier plant – oxy bamboos, drip irrigation & sprinkler, host plants – 50	Tillage and soil manipulation completed; demarcation of BG and host plant soil bed completed, Bamboos planted only on outside boundary with drip irrigation; Sprinkler and irrigation installed; masonry work for defining areas; planted some ornamental plants inside the masonry areas
3	Tropical plant zone	Barrier crop – Lemon grass, tropical shade loving plants – Drip and sprinkler irrigation	Bamboos planted along boundary as barrier plants with drip irrigation; planted some tropical plants
4	Flower garden	Various flowering plants, drip and sprinkler irrigation	Soil tiling and manuring; drip irrigation; planted some flowering plants
5	Tuber spice/fern garden	Planting of tuber spice and tropical ferns; installation of drip irrigation	Soil tilling and creation of mounts for planting tuber crops and ferns; drip irrigation
6	Beautification	De weeding, tree trunk base cleaning, Tree trunk crochet work, bird feeding devices, wall graffiti works over tree trunk	Hanging art pieces such as dream catchers, crochet palisades etc over trees; crochet work/yarn bombing of tree barks



## Orchard



## Butterfly Garden







**Oxy bamboo along border with drip irrigation**






**Planted 239 oxy bamboos along borders**

## **2. BOOK PUBLICATION**

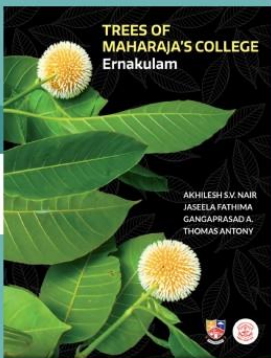
**Book Published: TREES OF MAHARAJA'S, Ernakulam**



### IQAC & DEPARTMENT OF BOTANY

#### MAHARAJA'S COLLEGE, ERNAKULAM

*Cordially invites you to join us for the*



## BOOK LAUNCH

### Trees of Maharaja's College Ernakulam

A collaborative venture of Maharaja's College (Ernakulam) & Centre for Biodiversity Conservation (University of Kerala) as part of the Digital Garden Project

*Book release*

**Prof. (Dr.) Oommen V Oommen**  
Emeritus Professor, Dept. of Computational Biology & Bioinformatics, (University of Kerala) & Former Chairman of Kerala State Biodiversity Board.

*Introductory Remarks*

**Dr. N Ramakanthan**  
Chairman, Governing Council

*Presidential Address*


**Dr. Pooja P Balasundaram**  
Principal

*Special Address*

**Dr. A Gangaprasad**  
Director, Centre for Biodiversity Conservation

**25.02.2022**  
**Friday**

**10.30 AM**



<https://meet.google.com/zdb-fjzb-mny>

Venue: VTP Lounge

*Felicitations*

**Dr. Shajila Beevi S**  
Syndicate Member

**Dr. KV Jayamol**  
Vice Principal

**Dr. MS Murali**  
PTA Secretary

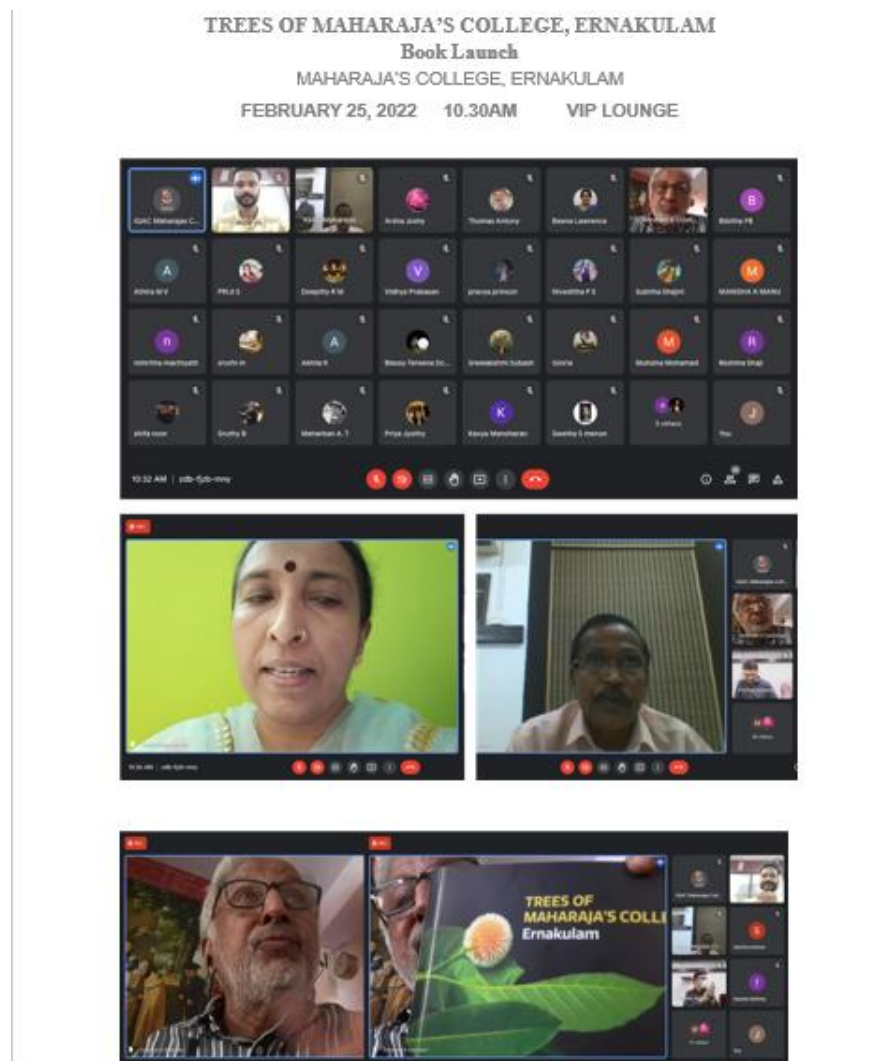
**Sri. Santhosh T Varghese**  
Former IQAC Coordinator

*Published by* **Centre for Biodiversity Conservation** University of Kerala Kariavattom, Thiruvananthapuram 695 581

*Design & Printing* **Godfrey Das**

*Photo Credits:* Akhilesh S.V. Nair, Jaseela Fathima, Gangaprasad A., Mathulakshmi Suresh, Abinav Pulickal Mohandas

First Published: June 2021    ISBN: 978-81-951181-1-3



### **Book Launch**

The book- “Trees of Maharaja’s College, Ernakulam”- published as a sequel to the Digital Garden project aimed at documenting the Floristic Diversity of Maharaja’s College was released by Prof. (Dr.) Oommen V Oommen (Former Chairman, Kerala State Biodiversity Board & Emeritus Professor, Department of Computational Biology and Bioinformatics, University of Kerala on February 25, 2022. The project was a collaborative venture of Maharaja’s College, Ernakulam and Centre for Biodiversity Conservation, University of Kerala. Dr. Jaya S (IQAC Co-ordinator) welcomed the gathering. The book launch ceremony was presided over by the Principal Dr. Pooja P Balasundharam. The book was introduced by Dr. Jaseela Fathima (Assistant Professor of Botany). Dr. Zeenath (Head, Department of Physics) received the first copy of the book on behalf



of the Principal, Dr. Pooja P Balasundharam. A glance through the book was jointly presented by the authors, Mr. Akhilesh SV Nair (Research Scholar, Department of Botany, University of Kerala) and Dr. Jaseela. Prof. (Dr.) A Gangaprasad (Hon. Director, Centre for Biodiversity Conservation, University of Kerala) addressed the gathering.

### 3. BOTANICAL GARDEN



The Department of Botany maintains very old and rich Botanical Garden and it preserves rare species of plants labelled with scientific names. The department also keeps a biodiversity register to record new varieties of plants.

### 4. MULCHING UNITS

Four mulching units were set up in various locations to compost the leaves debris and organic matter.



**Mulching units for composting**



## 5. ROLE OF STUDENT FUNCTIONARIES

The student functionaries such National Service Scheme, NCC, Science Forum, Nature Club engage in caring these trees and plants. They clean the surroundings every week and engage in activities promoting conservation of natural resources inside and outside the campus. They champion the cause of sustainable development by conducting awareness programmes and competitions among the students on environment day, ozone day and earth day.

## 6. SYLLABUS WITH GREEN COVER

Environmental education helps the students to understand environmental issues and how to keep environment healthy for a sustainable future.

Our undergraduate syllabus has selected environmental science/education as one of the core course. the college offers three year undergraduate programme in in Environment Chemistry.

## 7. GREEN CAMPUS INITIATIVES

The college office and departments have considerably reduced the use of paper for official purpose. Teachers seldom use paper notes for teaching purpose.

Botany Alumni Association, Maharaja's College had contributed 100 steel glasses to the department. These glasses are being used for functions for serving tea/coffee/water/juices instead of paper /plastic glasses.

[illegible]

### Purchase of tea glass