

7.1.2 REPORTS OF THE FACILITIES

1 *Alternate sources of energy and energy conservation measures* [CLICK HERE](#)

2 *Management of the various types of degradable and non-degradable waste* [CLICK HERE](#)

3 *Water conservation* [CLICK HERE](#)

4 *Disabled-friendly, barrier free environment* [CLICK HERE](#)

PROVIDENCE WOMEN'S COLLEGE
KOZHIKODE-673009



CRITERION 7.1.2

**ALTERNATE SOURCES OF ENERGY AND ENERGY
CONSERVATION**

REPORT

1. **Solar Energy**

2. **Biogas Plant**

3. **Wheeling to grid**

4. **Use of LED bulbs**

5. **Power efficient equipment**

6. **Sensor-based energy conservation**

7. **Bills of the equipments**

1. Solar Energy



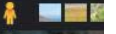
40 KW on grid solar power plants are installed in the campus under CPE fund.



Providence
Women's
College
പ്രൊവിഡൻസ്
വുമെൻസ്
കോളേജ്

Santhimadam  Santhimadam

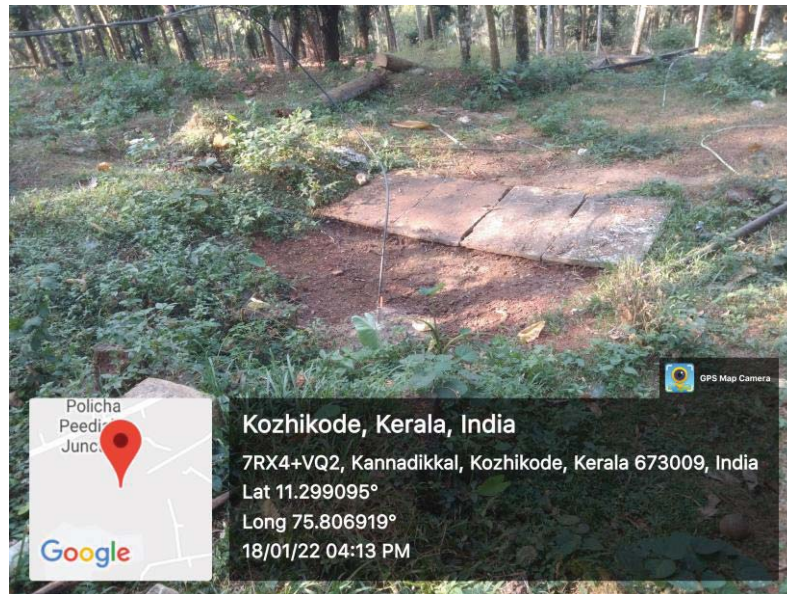
Google



2. Biogas



ECOSAN Biogas plant was installed in the hostel for effective disposal of human excreta. Capacity of the plant is 50m³. One more Biogas plant was installed in the Carmel hill convent in the campus.



4. LED Bulbs



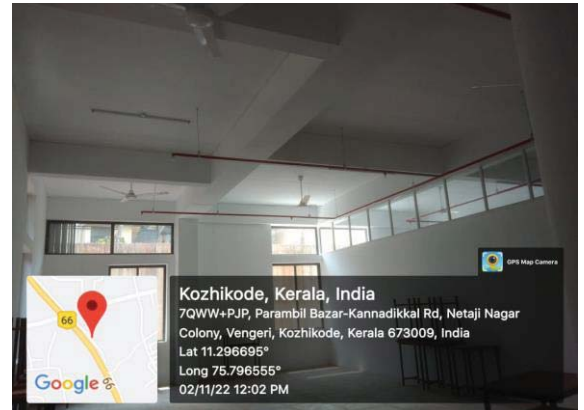
LED bulbs are used in Carmel Hall, Computer labs etc. In tune with the new energy policy all the existing tubes, bulbs, at the time of expiry will be replaced by LED tubes and bulbs.



5. Power efficient equipments

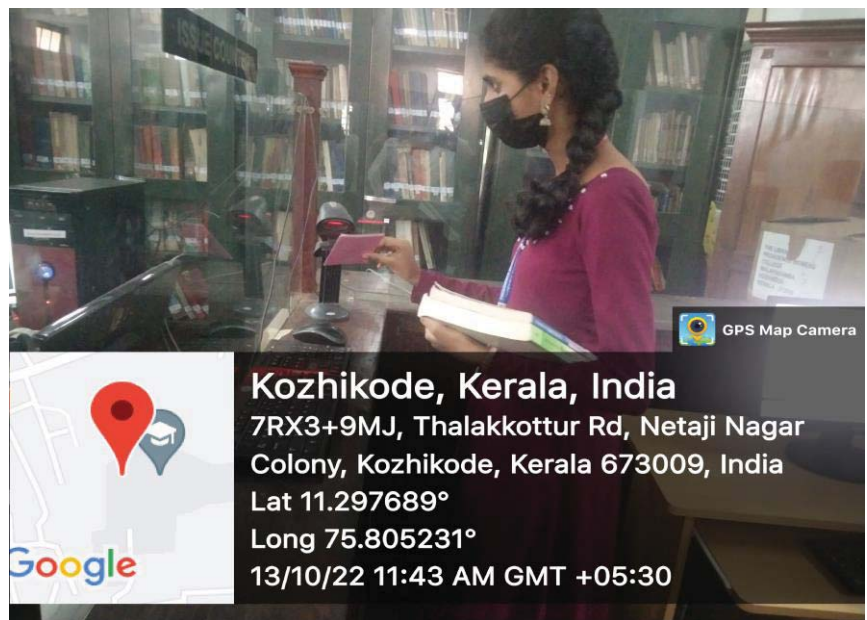


- Energy efficient fans have been installed in Principal's room.
- Five Air Conditioner units of '5-star energy efficiency' have been installed in Carmel Hall.



- The upcoming Library Building is being equipped towards Zero emission with installation of 100 BLDC 5 Star rated fans, and Philips Starline pro 22 W LED bulbs in the entire building.

6.Sensor-based energy conservation



- Bar code sensor for book issue, entry & exit in library

7. Bills

ORIGIN ENGINEERS
A CLASS ELECTRICAL CONTRACTORS & ENGINEERS
77/752, Mohan, Near Govt. Mental Hospital
Kottayam P.O., Kottayam, Kerala, Pin - 686108
Phone/Fax 9495 274193 E-mail: origin0495@gmail.com

ORIGIN ENGINEERS
A CLASS ELECTRICAL CONTRACTORS & ENGINEERS
27/752, Mohan, Near Govt. Mental Hospital
Kottayam P.O., Kottayam, Kerala, Pin - 686108
Phone/Fax 9495 274193 E-mail: origin0495@gmail.com

INDO ELECTRIC MART
Indo Square, Indo Market Road,
Mullathurambad, Calicut - 673008
Ph: 0495 270 11 00, 270 11 11
Indo Care - 7564 93 93 93



GSTIN: 32AKP5136322X
State: Kerala State Code: 32
Info@indomart.in
www.indoelectrictmart.com
sales@indomart.in

TAX INVOICE
Original for Recipient
Duplicate for Supplier / Transporter

GSTIN: 32AAD009952A121

Invoice No: V 101
Invoice Date: 30.08.2022
Invoice Time: 12:00
State Code: Kerala

Details of Recipient / Bill To:
Name: Providence Women's College,
Address: Malaparamba P.O.,
Kottayam - 673008.

Details of Consignor / Shipped to:
Name: Providence Women's College,
Address: Malaparamba P.O.,
Kottayam - 673008.

Sl. No.	Description of Goods / Services	HSN Code	Qty	Rate	Taxable Amount	Tax	Rate	Rate	Rate	Rate	Total
1	Work Payment for the electrical modification works for the proposed additional construction work at Providence Women's College, Malaparamba P.O, Kottayam.	995401	1	39000.00	39000.00	7800.00	39000.00	39000.00	7800.00	39000.00	46800.00
Total											46800.00

Total Invoice Amount in Words: Rupees Three Lakh and Fifty Four Thousand Only

Bank Details: State Bank of India, Malaparamba Branch, Kottayam

TAX INVOICE
Original for Recipient
Duplicate for Supplier / Transporter

GSTIN: 32AAD009952A121

Invoice No: V 203
Invoice Date: 30.08.2022
Invoice Time: 12:00
State Code: Kerala

Details of Recipient / Bill To:
Name: Providence Women's College,
Address: Malaparamba P.O.,
Kottayam - 673008.

Details of Consignor / Shipped to:
Name: Providence Women's College,
Address: Malaparamba P.O.,
Kottayam - 673008.

Sl. No.	Description of Goods / Services	HSN Code	Qty	Rate	Taxable Amount	Tax	Rate	Rate	Rate	Rate	Total
1	Wiring, installation, testing and commissioning of 200 mm square lighting fan complete with 3 gear round chord wire, 100 mm diameter, complete, electric and magnetic working on 220 / 240 V single phase, BLC & Star rated. (Crompton, Bogenon neutrals white)	950401	500	320.00	160000.00	32000.00	320.00	320.00	320.00	320.00	163200.00
2	Wiring, installation, testing and commissioning of 22W LED Batten complete with all accessories. (Philips - Starline size 22 W LED Batten GR)	950401	100	460.00	46000.00	9200.00	460.00	460.00	460.00	460.00	55200.00
Total											208400.00

Total Invoice Amount in Words: Rupees Four Lakh Eight Thousand Six Hundred and Thirty Six Only

Bank Details: State Bank of India, Malaparamba Branch, Kottayam

TAX INVOICE - CASH

Invoice No: 88852
Invoice Date: 23-11-2021
PO No & Date: 23-11-2021
LR Details: 23-11-2021
Due Date: 23-11-2021
Salesman: E-way bill No: -

TO: Principal
Providence Women's College

Delivery Address: Providence Women's College

Invoice No: 88852
Invoice Date: 23-11-2021
PO No & Date: 23-11-2021
LR Details: 23-11-2021
Due Date: 23-11-2021
Salesman: E-way bill No: -

Sl. No.	HSN Code	Description of Goods	Quantity	Price	Taxable Value	%	Amount	GST	Total
1	8414	Crompton Energen HS BLDG 5 Star Batten 10' Pan 1200mm	2,000.00	254.00	508.00	18.00	912.24	164.71	666.94
TOTAL									666.94

Total Invoice Amount in Words: Rupees Five Thousand Nine Hundred Eighty Only

Bank Details: State Bank of India, Malaparamba Branch, Kottayam

PROVIDENCE WOMEN'S COLLEGE, CALICUT - 9
College with Potential For Excellence, Re-Accredited with A+ Grade by NAAC

Carnel Hill, Malaparamba (P.O.), Kozhikode - 673 009.

Phone: Principal: +91 4852371897
Office: +91 4852372487
Email: providencecollegecalicut@gmail.com

Date: 20/03/2019

AWARD OF CONTRACT

TENDER REF NO. A1/PWC/GC/PC/11/18/201 dated 11th March, 2019
TENDER ID 2019_PWC_274698_1
TENDER INVITATION FOR 30KW ON-GRID SPV POWER PLANT

Of the Two Accepted Bids, **ROCKY ENGINEERING CO.** quoted the least amount of **Rs. 16,74,471/-** (Rupees Sixteen lakhs Seventy Four thousand Four hundred and Seventy Seven only) and hence accepted for the Award of Contract.

Asst. Prof. in charge of Principal
PROVIDENCE WOMEN'S COLLEGE
CALICUT - 9

KANNADIKKAL, P.O. VENGERI, KOZHIKODE, PH: 9447776163

No. 597 Date: 21/03/2019

To: Providence Women's College

Qty.	Particulars	Rate	Rs.	Ps.	Amount	Rs.	Ps.	
15	20w LED Tub		24	50	3450	00	00	
20	9w LED bulb		100	00	2000	00	00	
TOTAL							5450	00

E & O.E. For: SOURDRAM TRADERS

UNIVERSAL ELECTRICALS
OPP. LAW COLLEGE, VELLAMADUKUNJI CALICUT
PH: 0495-2732940, 8547600485, 9446641940
ALL TAX ARE COLLECTED AS PER GOODS AND SERVICE ACT 2017

Invoice No: UE008990
Date: 23-Nov-2021
Tax Type: GSTRI B2CS
Place: Kerala - 32
InTime: 9:52: AM

Sl. No.	HSN Code	Description of Goods	Quantity	Price	Taxable Value	%	Amount	GST	Total
1	8536	CHANEL SUN 3/4"	10.00	59.32	593.22	0.00	593.22	9.00	647.22
2	8536	LEGRAND HYBRIDWAY SWITCH	3.00	29.66	88.98	0.00	88.98	9.00	97.98
3	8536	WALL PLUGGE 3000W(BOX)	1.00	50.85	50.85	0.00	50.85	9.00	59.85
4	8536	POLYCAR LED TUBE SET 24W 4FEET (4000K)	1.00	205.36	205.36	0.00	205.36	9.00	214.36
5	8536	TOUCH PLATE 3PH 1W	1.00	41.53	41.53	0.00	41.53	9.00	45.53
6	8536	GANG BOX 3PH	2.00	49.15	98.31	0.00	98.31	9.00	107.31
TOTAL									1163.55

Exam bills LED Tub

ROCKY ENGINEERING CO.
1st Floor, Madhav Tower, Tharamassery, Tharamassery P.O., Kozhikode - 673073
Phone No: 0495 2244378, 9446641940
E-mail: rockyengineering@gmail.com

GSTIN: 32BOP52798L17
Invoice No: 147
Invoice Date: 21-03-2019

Details of Recipient:
Name: Providence Women's College
Address: Malaparamba, Kottayam
State Code: 32

Details of Consignor:
Name: Rocky Engineering Co.
Address: Tharamassery, Kozhikode
State Code: 32

Sl. No.	Description	HSN Code	Unit	Qty	Rate	Amount	
1	30KW ON GRID SOLAR POWER SYSTEM	8536	SA	1	16,74,471.00	16,74,471.00	
TOTAL							16,74,471.00

Grand Total: Rs. 16,74,471.00

Asst. Prof. in charge of Principal
PROVIDENCE WOMEN'S COLLEGE
CALICUT - 9

ROCKY ENGINEERING CO.
ELECTRICAL ENGINEERS & CONTRACTORS

Ph: 0495-2244378, Mob: 9447 073580
First Floor, Madhav Tower, THARAMASSERY, Kozhikode - 673 573

No. 147 RECEIPT

Date: 21/03/19

Received with thanks from Mr. / Mrs / M/s. Providence Women's College

Rupees Nine Lakh only

on account of 30 KVA Solar System

Chq No: 823834 dtd 21-03-2019

Rs. 900,000/-

Asst. Prof. in charge of Principal
PROVIDENCE WOMEN'S COLLEGE
CALICUT - 9

CANCELLED

MARKO ENGINEERING CO. ELECTRICAL ENGINEERS & CONTRACTORS
 Ph: 0495-224378, Mob: 9447 07360
 First Floor, Matha Tower, THAMARASSERY, Kozhikode - 673 573

No. **148** RECEIPT Date: **29/03/19**

Received with thanks from Mr./Mrs./M/s. **Providence Womens College**
 Rupees **Seven Lakh Seven Hundred and Seventy seven only**
 on account of **20kva Solar System**
 cheque No. **823859** dtd **29.03.2019**

Rs **7,74,477/-** Asst. Prof. in charge of Principal Cashier / Manager
CANCELLED PROVIDENCE WOMEN'S COLLEGE Calicut-8 **PAID**

TRUFLO ESTIMATE Date: **29/03/19**

To: **Providence College, Kozhikode**

S.No.	Items / Particulars	Qty.	Rate	Amount
	white condition 2L			200
	2L Switch	5000		200
	2L Switch	2		200
	2L Switch	1		60
				1020
TOTAL				

Estimate / Quotation **ribel**

No. _____ Date: **16/08/17**
 M/S: **Providence College, Kozhikode**
 Address: _____

S. NO.	PARTICULARS	QTY.	RATE	AMOUNT
	white condition 2L			400
Total				400

ribellectricals.com | info@ribellectricals.com

SUBJECT TO CALICUT JURISDICTION Date: **16/08/17**

MARKO SERIES PRODUCTS (P) LTD
 2/2038C, E.K. Complex, Palattuthazham, Wayanad Road,
 Civil Station P.O., Calicut - 673 020, Kerala-India,
 0495-2375764, Mob: 9447075764
 www.markoseries.com info@markoseries.com markoseries@gmail.com

Tax Invoice

Party: The Principal Providence College
 Malappuram, Kerala, Code: 32
 Place of Supply: Kerala

Sl. No.	Description of Goods	Quantity	Rate	per	Amount
1	HITACHI SPLIT AIR CONDITIONER 2.8TON 65	8 Nos	35,004.00	Nos	1,79,202.00
2	SHALIMAR CUT OFF AC	8 Nos	1,000.00	Nos	8,000.00
3	MULTI PURPOSE CLAMP(ANGLE)				1,54,496.40
	CST				26,500.00
	SST				26,500.00
	Round Off				(-10.12)
Total					16 Nos ₹ 2,47,500.00

Amount Chargeable (in words): **INR Two Lakh Forty Seven Thousand Five Hundred Only**

HSN/SAC	Quantity	Rate	Amount	Tax Rate	Tax Amount	Total
84150100	8	35,004.00	2,80,032.00	12%	33,603.84	3,13,635.84
73201000	8	1,000.00	8,000.00	12%	960.00	8,960.00
Total						₹ 3,22,595.84

Tax Amount (in words): **INR Fifty Three Thousand One Seventy Two paise Only**

Company's Bank Details: State Bank of India A/c No. 28912
 A/c No: 302228912
 Branch & P.O Code: Kanganapuzha & SBN0016660

Declaration: We declare that this invoice shows the actual price of the goods described and that all particulars are true and correct.

This is a Computer Generated Invoice

MARKO SERIES PRODUCTS (P) LIMITED.
 2/2038C, E.K. Complex, Palattuthazham, Wayanad Road,
 Civil Station P.O., Calicut- 673 020, Kerala-India, 0495- 2375764, Mob: 9447075764
 www.markoseries.com info@markoseries.com markoseries@gmail.com

Since 1997

RECEIPT Date: **30/8/17**

No: **08**

Received with thanks from Sri / Smt / M/s. **Providence Womens college**
Malappuram the sum of Rupees **Two Lakh Fourty Seven thousand Five hundred only**
 in cash / DD / Cheque No. _____ dt. _____
 towards **Invoice No - 10 date 16.8.17**

For MARKO SERIES PRODUCTS (P) LTD.
 Authorised: **[Signature]**

₹ 2,47,500/-

Above shows the Sample bills of LED bulbs, tubes & energy efficient fans purchased during 2017- 2022.

PROVIDENCE WOMEN'S COLLEGE
KOZHIKODE-673009



CRITERION 7.1.2

**MANAGEMENT OF THE VARIOUS TYPES OF
DEGRADABLE AND NONDEGRADABLE WASTE**

REPORT

No.	Contents
1.	Solid Waste Management
2.	Liquid Waste Management
3.	E-Waste Management
4.	Waste recycling
5.	Bills

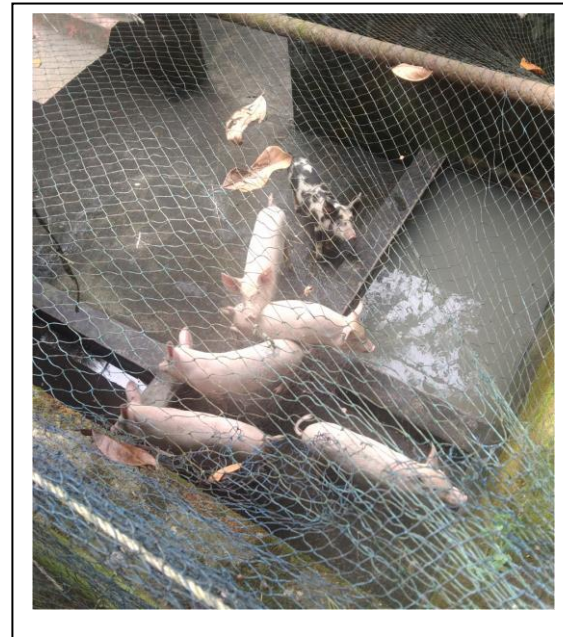
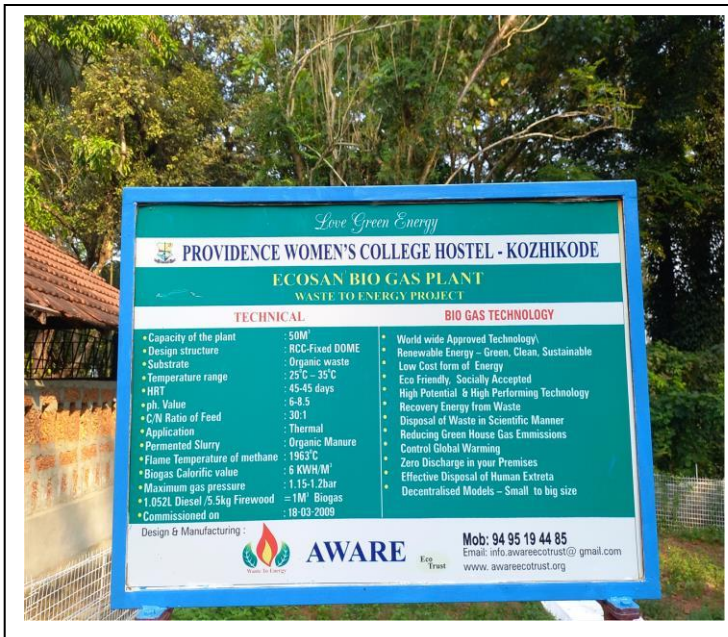
WASTE MANAGEMENT

Solid and Liquid Waste Management has assumed prime importance towards building a clean nation and of Swachh Bharat Mission (SBM), launched with the objective of bringing improvement in cleanliness, hygiene and the general quality of life in different parts of the country. As an educational institution, which has been providing a clean environment, conducive to learning, for decades, Solid and Liquid Waste Management has been practiced routinely.

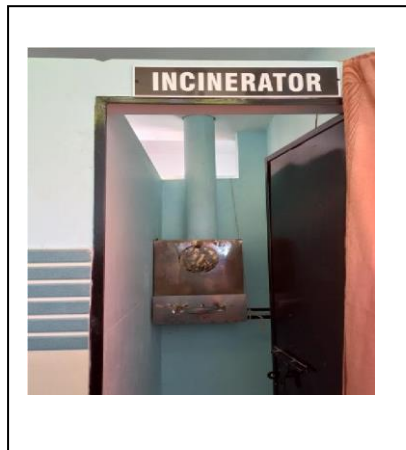
Waste reduction and recycling practices have been practiced, making a significant impact on the quantities of waste to be handled and managed. The choice of technologies should be guided by proven performance track records within or outside India, technical feasibility under local conditions, financial viability or potential for cost recovery and environmental regulations.

1. Solid Waste Management

Vermi-composting and Biogas plant for the proper disposal of the food and toilet waste from the hostels

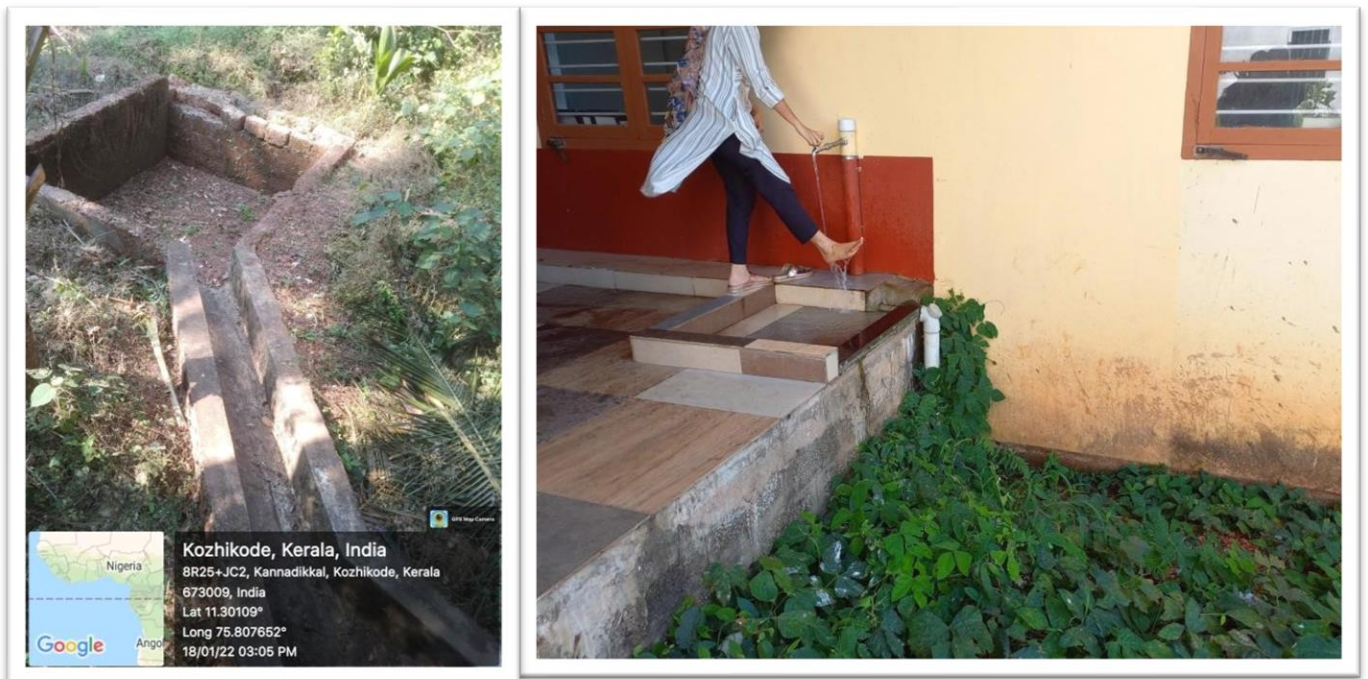


Food waste from the college canteen is used to feed the pigs grown as livestock in the piggery farm in the campus



Incinerators are installed in the common toilets and hostels for the disposal of sanitary napkins. Plastic waste is sent to recycling units

2. Liquid Waste Management



Waste water from the Canteen and other wash areas is collected to a common underground pit that gets filtered naturally and seeps into the ground.

3. E-Waste Management

To enable the ecologically safe disposal of electronic trash, the college collaborates with M/s TERABYTE and KARO SAMBHAV, whereby the purchase of new electronic products is made on the condition of the dealers taking back the old and unused products.



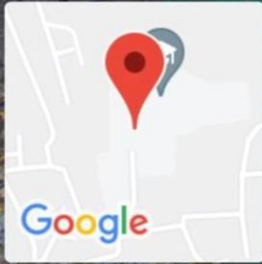
4. Waste Recycling

Organic Manure collected as residue from Vermicompost and Ring compost is used for Organic farming in the campus. A Micro Collection Facility (MCF) was established in association with the NGO Niravu, for waste segregation. The non-biodegradable waste is collected from various departments and sent to the recycling unit of Kozhikode Corporation.





GPS Map Camera



Kozhikode, Kerala, India

Providence women's College, Carmel hills malaparamba

Kozhikode, Kerala 673009, India

Lat 11.297088°

Long 75.805411°

25/01/22 11:13 AM



5. Bills

ORIGINAL FOR RECIPIENT

Green Worms Eco Solutions LLP
3/460 D, PONDOOR
UNNIKULAM PO
KOZHIKODE
Kerala 673574
GSTIN: 32AAOFG6683M1ZLN
CIN: AAC-9120

Tax Invoice

INVOICE TO
Providence Women's College
Malaparamba PO
Calicut
673009

INVOICE NO. 2152
DATE 21/03/2019
DUE DATE 21/03/2019
TERMS Due on receipt

PLACE OF SUPPLY
32 - Kerala

NO	HENSAC	DATE	ACTIVITY	QTY	RATE	AMOUNT	TAX
1	3924	21/03/2019	E WASTE BIN Large	3	3,000.00	9,000.00	18.0% GST
2	3924	21/03/2019	E WASTE BIN Medium	1	2,500.00	2,500.00	18.0% GST

CGST @ 9% on 9745.76 877.12
SGST @ 9% on 9745.76 877.12
TOTAL 11,500.00
BALANCE DUE **₹11,500.00**

Bill passed for Rs. 11,500/-
Paid by cheque No. 823833
Dtd. 21/03/19

Principal

Asst. Prof. in charge of Principal
PROVIDENCE WOMEN'S COLLEGE
Calicut-9

A/c No: 917320028778788, IFSC Code: UI050006130, Branch: Asst Bank Westhill Branch, Kozhikode

RECEIPT

Received with thanks from The Principal, Providence Women's College, Calicut, a sum of Rs. **11,500/- (Rupees Eleven Thousand and Five Hundred Only)** towards Purchase of Electronic Waste Collection Bins in connection with E-Waste Management (Cheque No. 823833 dated: 21/03/2019)

Date: 21/03/19

Signature

Asst. Prof. in charge of Principal
PROVIDENCE WOMEN'S COLLEGE
Calicut-9

PAID

CANCELLED

MOM INDIA Kozhikode

Mob: 9846701276

Date: 03/01/2019

Sl. No.	Description	Amount
1	Fish pond	21,500
2	Grow bed	10,100
3	Bio filter tank	3,500
4	NFT	3,000
5	Water aeration	2,300
6	Plumbing & electrical	2,400
7	Submersible water pump	2,100
8	Fish seeds	1,100
9	Vegetable seeds	800
10	Black soldier fly compost tank	3,200
Total		50,000

(Fifty Thousand Only)

Bill passed for Rs. 50,000/-
Paid by cheque No. 823833
Dtd. 21/03/19

Principal

Asst. Prof. in charge of Principal
PROVIDENCE WOMEN'S COLLEGE
Calicut-9

Estimate / Quotation

ribel

No. : _____ Date: 12/03/19
M/S.: Providence College Hostel
Address: _____

SL NO	PARTICULARS	QTY	RATE	AMOUNT
	White ammonia	2	200	400
				?
Total				<u>400</u>

onbelectricals.com | info@onbelectricals.com



7.1.2

Water Conservation Facilities in Institution

Contents

1. Rain water harvesting
2. Bore well /Open well recharge
3. Construction of tanks and bunds
4. Waste water recycling
5. Maintenance of water bodies and distribution system in the campus

Rain water harvesting



Roof top Rain Water Harvesting in Campus & Hostel

The Rain Water is Captured from the Roof Catchments of the Hostel & Campus and is Stored in Reservoirs



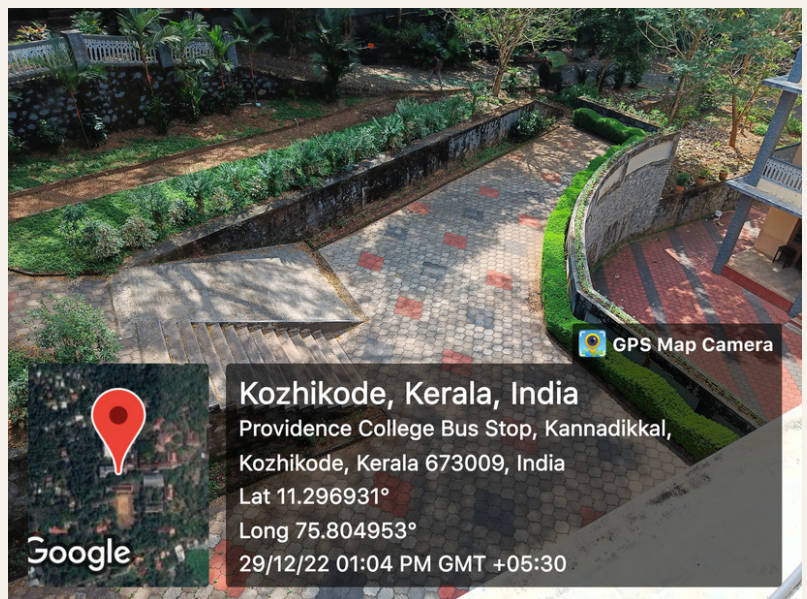
Rain Water Collection & Storage System



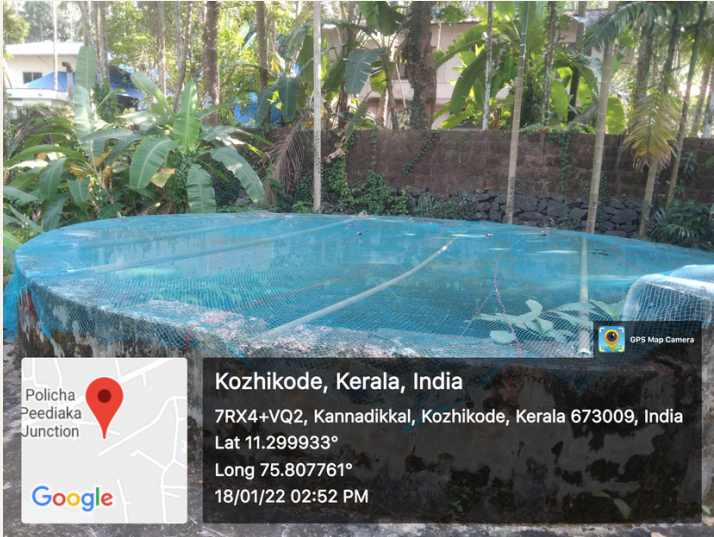
Rain Water harvesting pit
Surface water flows down to the harvesting pit and is restored as the ground water.

Water & Soil conservation

Interlocking tiles were laid to prevent water and soil from running off the slopy terrain of the college

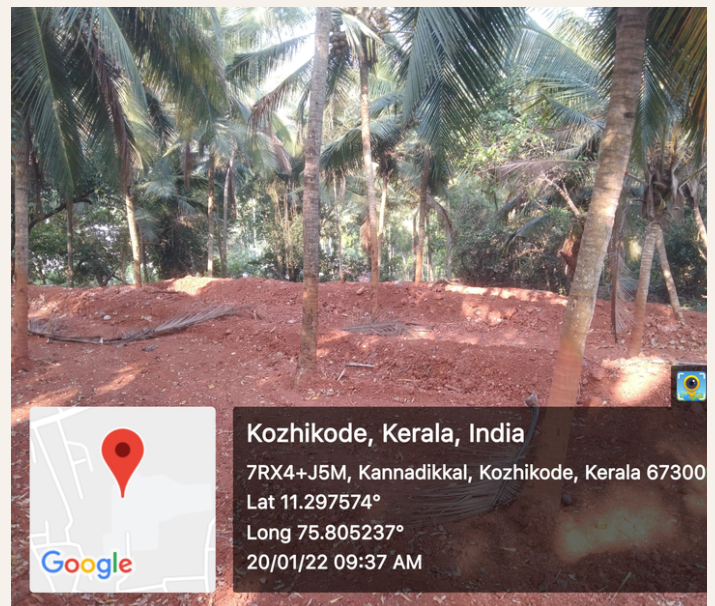


Bore well /Open well recharge



The Rain Harvesting Pit is Placed near to the Open Well to enable the Natural Process of Recharging the Open Well

Construction of tanks and bunds



Bunds and Tanks encourage infiltration and Water Storage

Waste Water Recycling



Waste Water is Treated and Recycled for the Applications such as Watering Plants, Reducing Discharge and Disposal Cost of Waste Water & Save Energy

Maintenance of water bodies and distribution system in the campus



Water Purifiers

The Water is Distributed through well laid Pipe Network. There are Sufficient Water Purifiers in the Campus for Drinking Purpose.



Pipe-Line Network



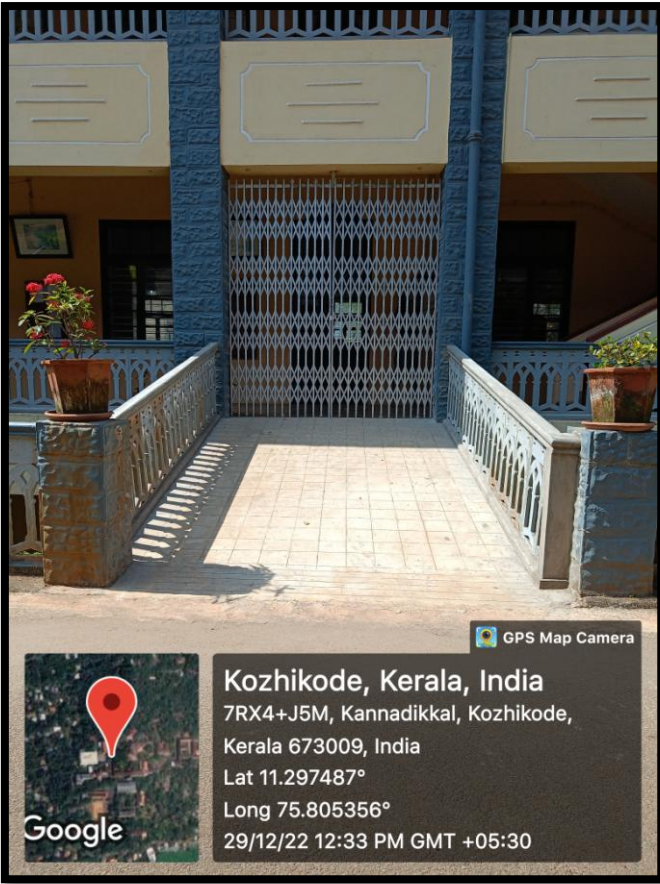
Sprinkler System

REPORT ON DISABLED-FRIENDLY, BARRIER FREE ENVIRONMENT

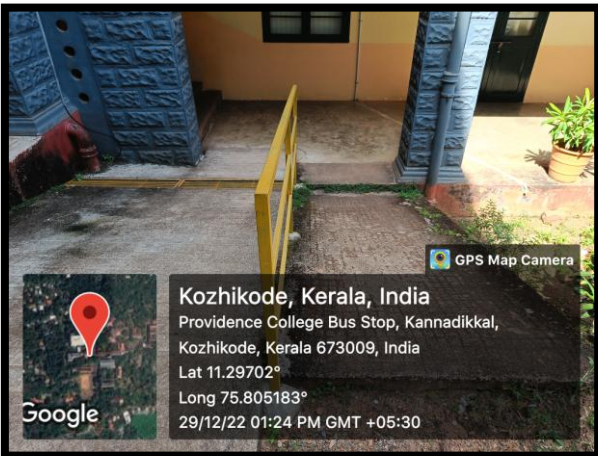
Providence Women's College has upheld an inclusive policy ever since its inception, treating with equal respect and dignity, the staff and students from all faiths and sections of society. The spirit of inclusivity is even more evident in the efforts taken by the institution to make the campus conducive to the special needs of the physically challenged students. The aim is to provide a learning ecosystem that maximises opportunities and minimises barriers in their journey towards knowledge acquisition, employment and self sufficiency. The special initiatives taken to meet this objective are:

1. Providing ramps in each building of the college and the hostel to ensure ease of access to the disabled students
2. Placing signboards in different parts of the campus to guide the students
3. Fixing special attachments in the washrooms to provide safety, security and ease of use
4. Allotting scribes and extra time during internal and external exams
5. Installing special software – NVDA – for the visually impaired
6. Facilitating Storytel Audio software to provide audio books to the visually impaired
7. Launching Podcasts to enable learning from experts

These initiatives run smoothly with the committed involvement of the staff and students, who are sensitised during the Value Education hours and other sessions, to desist from discrimination and to make inclusivity a policy for life.



RAMPS & LIFT





SIGN BOARD & DISPLAY BOARD

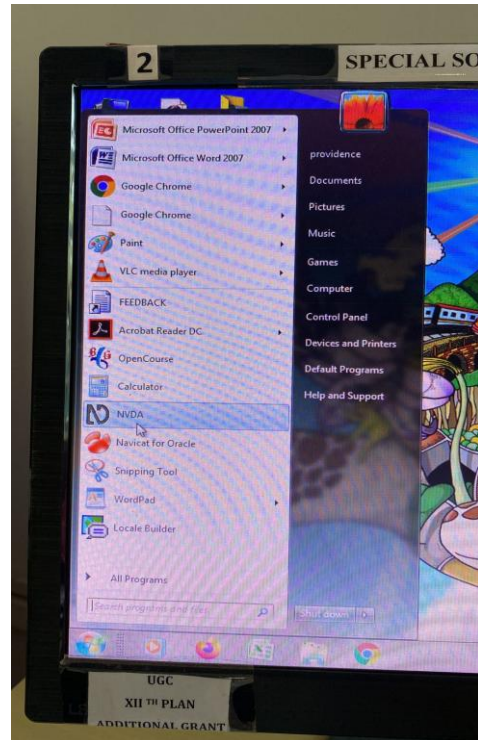
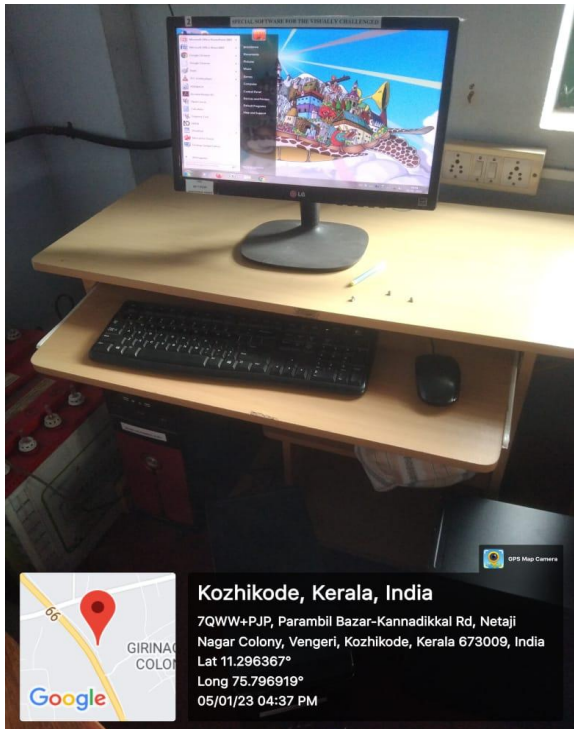




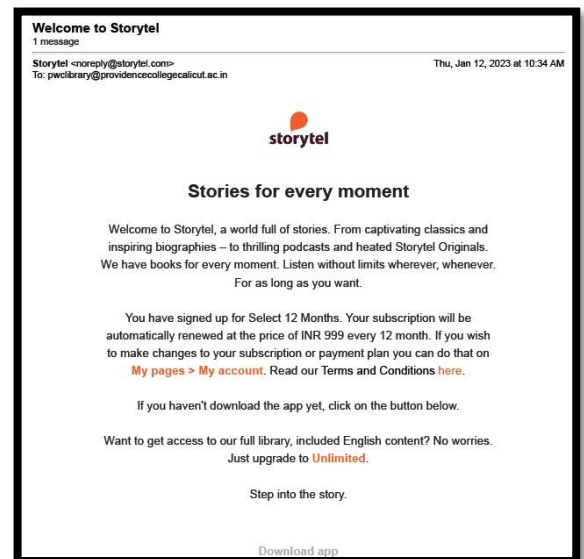
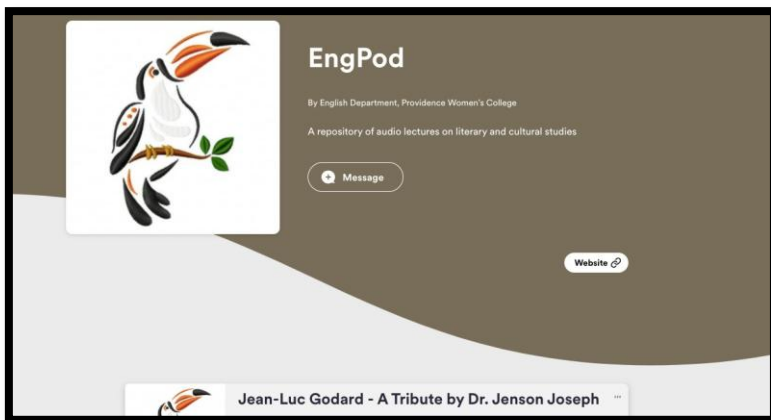
DISABLE FRIENDLY TOILET



SPECIAL SOFTWARE – NVDA



PODCASTS AND STORYTEL



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