



ST JOSEPH'S COLLEGE OF PHARMACY CHERTHALA

2023



OTTOTRACTIONS
Energy - Engineering - Environment

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ENVIRONMENT AUDIT REPORT

ST. JOSEPH'S COLLEGE OF PHARMACY

CHERTHALA





Environment Audit Report

ST. JOSEPH'S COLLEGE OF PHARMACY, CHERTHALA

Report No: EA 985

2023

Environment Audit Team

Ottotractions

1	Er. Suresh Babu B V,	Accredited Energy Auditor, AEA 33
2	Er. B. Zachariah	Director, Ottotractions
3	Er. Abin Baby,	Project Engineer, Ottotractions
4	Er. Devan J	Project Engineer, Ottotractions

About OTTOTRACTIONS

OTTOTRACTIONS established in 2005, is an organization with proven track record and knowledge in the field of energy, engineering, and environmental services. They are the first Accredited Energy Auditor from Kerala for conducting Mandatory Energy Audits in Designated Consumers as per Energy Conservation Act-2001. Government of Kerala recognized and appreciated **OTTOTRACTIONS** by presenting its prestigious “**The Kerala State Energy Conservation Award 2009**” for the best performance as an Energy Auditor.

Acknowledgment

We were privileged to work together with the administration and staff of St. Joseph's College of Pharmacy, Cherthala, for their timely help extended to complete the audit and bringing out this report.

With gratitude, we acknowledge the diligent effort and commitments of all those who have helped to bring out this report.

We also take this opportunity to thank the bona-fide efforts of team OTTOTRACTIONS for unstinted support in carrying out this audit.

We thank our consultants, engineers and backup staff for their dedication to bring this report.

Thank you.

B V Suresh Babu
Accredited Energy Auditor
AEA 33, Bureau of Energy Efficiency

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INTRODUCTION

Ottotractions was asked by the **St. Joseph's College of Pharmacy, Cherthala** to carry out an environment audit of their campus building.

Each section contains recommendations for improvements relating to environmental issues, which are consolidated in the action plan in section 4.

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BACKGROUND

St. Joseph's College of Pharmacy is one of the pioneers in the field of pharmacy education in Kerala. It is a unit of Nirmala Province of the Medical Sisters of St. Joseph (MSJ Dharmagiri), Aluva, Kerala, India. The Medical Sisters of St. Joseph is a Christian Congregation dedicated to St. Joseph, started in the year 1944 by Servant of God Rev. Msgr. Joseph. C. Panjikaran. (Photo) We are called to the Congregation of Medical Sisters of St. Joseph in order to experience the merciful love of the Father, revealed through Jesus Christ and to reciprocate that love through loving service to the poor, the sick and the least of the brethren, to share it in our community and to attain holiness of life. The Founder was a highly qualified person with a divine vision, the vision of the great prophet Isaiah. "The spirit of the Lord is upon me, because he has anointed me to preach good news to the poor. He has sent me to proclaim release to the captives

and recovering of sight to the blind, to set at liberty those who are oppressed to proclaim the acceptable year of the Lord".

Occupancy Details	
Particulars	2022-23
Total Students	439
Staffs	62
Total Occupancy of the college	501

Total student strength of the campus is 501. For calculating per capita carbon emission estimation, the student strength is taken into account.



ENVIRONMENTAL ISSUES

This section is broken down into the following different areas: waste, water, energy, resource and materials use and procurement. A final 'other' section is also included for any additional issues.

1.1. Waste

The way communities generate and manage their waste plays an absolutely key role in their ability to use resources efficiently. All buildings contain bins for both general waste and mixed recyclables (plastic bottles, card, cans and paper). On average each floor in the buildings areas has its own general waste bin and one recycling bin. When

the bins are emptied by the cleaning staff. Bins are marked and kept in different colors for identification, however in some locations throughout the building it was unclear which bins were for which waste streams.

There are four basic ways in which campus can do **plastic** recycling **collection** services for **plastic** bottles and containers – curbside, drop-off, buy-back or deposit/refund programs. The first, and most widely accessible, **collection** method is curbside **collection** of recyclables. The campus is installed bins to collect plastic bottles and single use plastics. College has given a proper awareness on plastic waste problems and they are discouraging the students or teachers to carry plastics to the campus. The ECO club is very active in the campus and do a variety of programs to build awareness on waste management. The reports on different activities of the club is attached as technical supplement of this report.

The major concern of waste management will be focused on the solid waste produced by the campus. Solid wastes produced in the campus are mainly of three types, food waste, paper waste, and plastic waste. Food wastes produced in the campus are mainly by two means. The vegetable wastes produced in the kitchen during the food preparation. The food waste produced by the students and staffs of the campus after the consumption of meals.

Degradable Waste Generation	
St. Joseph's College of Pharmacy	
	2022-23
Total Occupancy	501
Waste generated in kg /day	10.02
Waste generated in kg /Yr	1202.4

Burning plastics shall be strictly restricted inside the campus. **Burning plastic** and other wastes releases dangerous substances such as heavy metals, Persistent Organic Pollutants, and other toxics into the air and ash waste residues. ... Such pollutants contribute to the development of asthma, cancer, endocrine disruption, and the global burden of disease.

Solid non degradable Waste Generation	
St. Joseph's College of Pharmacy	
	2022-23
Total Occupancy	501
Waste paper generated in kg /day	0.1002
Waste plastic generated in kg /day	0.1503
Waste paper generated in kg /Yr	12.024
Waste plastic generated in kg /Yr	18.04

WASTE MINIMIZATION AND RECYCLING

1	Does your institute generate any waste?	Yes, Solid waste Canteen waste, paper, plastic, Waste etc
	If so, what are they?	
2	What is the approximate amount of waste generated per day? (in Kilograms) (approx.)	10.2
3	How is the waste generated in the institute managed? By	Reuse of one side printed Paper for internal communication. Sewage water is discharged to public Sewer. Kitchen waste is used to generate manures. Two types of Waste bins are provided at campus for biodegradable and non-biodegradable waste.
	1 Composting	In-house
	2 Recycling	In-house
	3 Reusing	In-house
	4 Others (specify)	
4	Do you use recycled paper in institute?	Yes
5	Do you use reused paper in institute?	Yes
6	How would you spread the message of recycling to others in the community? Have you taken any initiatives? If yes, Please specify.	Awareness programs, Through ECO Club, Exhibition, NSS
7	Can you achieve zero garbage in your institute? If yes, how?	Yes

Green Cover Audit

1	Is there a garden in your institute?	Yes, Botanical Garden	
2	Do students spend time in the garden?	Yes	
3	Total number of Plants in Campus	Plant type	Approx. number
		Trees	354
		Botanical Garden	Not Estimated
4	Number of Tree Plantation Drives organized by School per annum. (If Any)	Yes, Through ECO club	
5	Number of Trees Planted in Last FY.	25	
	Survival Rate	60%	

All the activities including energy consumption and waste management have their equivalent carbon emission and they positively contribute to the carbon footprint of the campus. Carbon sequestration is the reverse process, at which the emitted carbon dioxide will get sequestered according to the type of carbon sequestration employed. Even though there are many natural sequestration processes are involved in a campus, the major type of sequestration among them is the carbon sequestration by trees.

Trees sequester carbon dioxide through the biochemical process of photosynthesis and it is stored as carbon in their trunk, branches, leaves and roots. The amount of carbon sequestered by a tree can be calculated by different methods. In this study, the volumetric approach was taken into account, thus the details including CBH (Circumference at Breast Height), height, average age, and total number of the trees, are required. Details of the trees in the campus compound are given in the Table. Detailed table is included in the technical supplement.

Carbon Sequestration	
Particulars	2022-23
Carbon sequestered by trees in the campus (tCO ₂ e)	2.30

Carbon sequestered by a tree can be found out by using different methods. Since this study is employed the volumetric approach, the calculation consists of five processes.

- Determining the total weight of the tree
- Determining the dry weight of the tree
- Determining the weight of carbon in the tree
- Determining the weight of CO₂ sequestered in the tree
- Determining the weight of CO₂ sequestered in the tree per year

Carbon sequestered by each species of trees in the campus compound is given in the Table. Detailed calculation results are listed out in the tables provided in the technical supplements of 'Carbon sequestration'.

3.1.1 ENERGY

a. Electricity

The total emission of the carbon dioxide per student is **65.45** kg per year (2022). Emission reduction plans were prepared to bring the existing per capita carbon footprint to zero or below so as to bring the campus a carbon neutral or carbon negative campus. This can be achieved in many ways but, every alternate plan must be in such a way that, it must fulfill the actual purpose of each activity that is considered.

Here, three major methods are taken in to account as the plans for reducing the carbon emission of the campus.

- Resource optimization
- Energy efficiency
- Renewable energy
- Electricity Consumption

Base Line Energy Data		
St. Joseph's College of Pharmacy		
		2022-23
1	Electricity KSEB (kWh)	27061
2	Electricity Solar Consumption (kWh)	23122
3	Electricity (KSEB + Solar) kWh	50183
4	Electricity Solar Export (kWh)	15203
5	Diesel (L)	6151
6	LPG (kg)	570
7	Biogas (m ³)	28000

Occupancy Details	
Particulars	2022-23
Total Students	439
Staffs	62
Total Occupancy of the college	501

RESOURCE OPTIMISATION

The effective use of resources can limit its unnecessary wastage. Optimal usage of the resources (such as fuels) can save the fuel and can also reduce the carbon emission due to its consumption. This technique can be effectively implemented in the 'transportation' and 'waste' sectors of the campus.

WASTE MINIMISATION

Optimal utilization of paper and plastic stationaries can reduce the frequency of purchase of items. This can reduce the unnecessary wastage of money as well as the excess production of waste. In the case of food, proper food habits and housekeeping practices can optimize its usage.

Currently, they taking an appreciable effort to reduce the unnecessary production of wastes. But the campus still has opportunities to reduce the generation of waste and can improve much more. Resource optimization can be effectively implemented in all type of waste generated in the campus and the campus can expect about 50% reduction the total waste produced.

ENERGY EFFICIENCY

Energy efficiency is the practice of reducing the energy requirements while achieving the required energy output. Energy efficiency can be effectively implemented in all the sectors of the campus.

FUELS FOR COOKING

The campus can install a solar water heater to rise the water temperature to a much higher level, then it has to consume only very less amount of thermal energy for preparing the same amount of food. This can make a positive benefit to the campus by saving money, energy and can reduce the carbon emission of the campus due to thermal energy consumed for cooking.

TRANSPORTATION

Energy efficiency of the transportation sector is mainly depended on the fuel efficiency of the vehicles used. Here mileage of the vehicle (kmpl - Kilometres per Litre) is calculated to assess the fuel efficiency of the vehicle. Percentage of closeness is the ratio of actual mileage of the vehicle to its expected mileage. If the percentage of closeness of mileages of each vehicle is greater than that of its average, then the efficiency status of the vehicle is considered as 'Above average' and else, it is considered as 'Below average'

Renewable Energy

After analyzing the historical and measured data the following projects are proposed to make the campus carbon neutral. The projects are from energy efficiency and renewable energy. The further additions in the green cover increase will also give positive impact in the carbon mitigation.

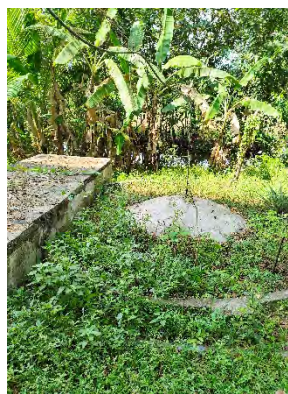
Executive Summary					
Consolidated Cost Benefit Analysis of Energy Efficiency Improvement Projects					
St. Joseph's College of Pharmacy					
Sl No	Projects	Investment	Cost saving	SPB	Energy saved
		(Lakhs Rs)	(Lakhs Rs)/Yr	Months	kWh/Yr
1	Energy Saving in Lighting by replacing existing 300 No's T8 (40W) Lamps to 18W LED Tube	0.75	0.382	23.56	4245
2	Energy Saving by replacing existing 600No's in-efficient ceiling fans with Energy Efficient Five star fans/BLDC Fans	15.00	1.012	177.81	12197
	Total	15.75	1.39	100.68	16442
(The saving are projected as per the assumed operation time observed based in the discussions with the plant officials. The data of saving percentages are taken from BEE guide books and field measurements.)					

Water Conservation Activities

List four uses of water in your institute	Basic use of water in campus:
	1. Drinking – Ground Water
	2. Gardening – Rain water
	3. Kitchen and Toilets – Ground water
	4. Others – Lab
How does your institute store water? Are there any water saving techniques followed in your institute?	Overhead Water Tanks and Sumps installed for storage of water.
	Rain Water Harvesting system in place
If there is water wastage, specify why and How can the wastage be prevented / stopped?	No
Record water use from the institute water meter for six months (record at the same time of each day). At the end of the period, compile a table to show how many liters of water have been used.	No logbooks are available
Does your institute harvest rain water?	Yes
Is there any water recycling system?	No (New STP is under processing)



Rain Water Harvesting



Biogas

General Environmental Awareness Questioner	
Are you aware of any environmental Laws pertaining to different aspects of environmental management?	Yes
Does your institute have any rules to protect the environment? List possible rules you could include.	Yes
Dose Environmental Ambient Air Quality Monitoring conducted by the Institute?	Yes
Dose Environmental Water and Wastewater Quality monitoring conducted by the Institute?	Yes
Dose stack monitoring of DG sets conducted by the Institute?	Yes
Is any warning notice, letter issued by state government bodies?	No
Dose any Hazardous waste generated by the Institute? If yes explain its category and disposal method	No
Are you aware of any environmental Laws pertaining to different aspects of environmental management?	Yes
Does your institute have any rules to protect the environment? List possible rules you could include.	Yes
Does housekeeping schedule in your campus?	Yes
Are students and faculties aware of environmental cleanliness ways? If Yes Explain	Yes
Dose Important Days Like World Environment Day, Earth Day, and Ozone Day etc. eminent in Campus?	Yes
Dose Institute participated in National and Local Environmental Protection Movement?	Yes

Dose Institute has any Recognition/certification for environment friendliness?	Yes
Dose Institute using renewable energy?	Yes
Dose Institution conducts a green/environmental audit of its campus?	Yes
Has the institution been audited / accredited by any other agency such as NABL, NABET, TQPM, NAAC etc.?	Yes, NAAC

Best Practices and Initiatives	
Renewable Energy	Yes
Solar Power Plant	
Energy Audit and Green Audit Conducted	
Biogas Plant installed	
Biodiversity Conservation	Yes
Green Cover	
Tree Plantation Drives	Yes
ECO clubs	
Ground Water Recharge	Yes
Rain Water Harvesting System.	
Pollution Reduction Public Transportation	Yes
E Waste Management	Yes
Connected to authorized recycler	
Solid Waste Management	Yes
Lifting of garbage from campus on alternate day by Municipal Corporation.	
Adoption of Village	Yes
CSR	
Water Conservation	Yes
Energy Conservation	Yes



RECOMMENDATIONS

1. Implement a utility monitoring program.
 - Allocate staff to carry out meter readings for electricity, waste and water on regular basis
 - Add monitoring data to spreadsheet so results can be viewed graphically
 - Compare with the utility bills meter readings in order to ensure accuracy;
2. Consider adopting and implementing a sustainable procurement policy which takes into account the whole life cycle of a product, and make sure environmental issues are written into tenders when contracting out.
3. Consider trialing recycled paper again – many recycled brands today, such as Evolve, are just as good as virgin paper.

4. Trial the use of re-manufactured (i.e. refilled) ink and toner cartridges rather than purchasing new ones.
5. Consider producing some designated 'environmental' pages on the intranet to make it easier for staff to find environmental information. If possible a discussion forum could be set up to allow easy internal communications and staff to make suggestions for environmental improvements.
6. Environmental training could be formalized and carried out for all staff. It does not have to be too long or onerous, providing it covers key points, particularly in relation to waste so all staff are aware of the legal requirements. At the very least, environmental information should be included in the induction pack.
7. It is strongly recommended that environmental information is also given to students and staff during induction. It is particularly important for them to be aware of what waste they can dispose on site and where they can dispose of it, and what waste streams they must take away with them.
8. Consider implementing an environmental management system to incorporate all improvements and monitoring requirements. It does not need to be a complex system certified to any particular standard, merely a way of ensuring that baselines are set and progress is measured. Formation of Environment Policy and communicated to all faculties and other staff.
9. Plan for Zero Waste Campus Project
10. E-waste monthly inventory be maintained at campus as per E waste rules 2016.
11. Water Meter should be installed at institute for monitoring of water consumption per capita.
12. Increase in Environmental promotional activities for spreading awareness at campus.
13. Environment/Green committee formation for regulating eco-friendly initiatives at campus premises and periphery.



CONCLUSION

This audit involved extensive consultation with all the campus team, interactions with key personnel on wide range of issues related to Environmental aspects. The audit has identified several observations for making the campus premise more environmental friendly. The recommendations are also mentioned with observations for the team to initiate actions.

However, there is scope for further improvement, particularly in relation to waste minimization and energy monitoring. By implementing a basic environmental management system, current good practice can be formalized and a framework can be set up for monitoring, implementation of action plans and continual improvement.

The audit team observed that the overall site is maintained well from environmental perspective. There is no major observations but few things are important to initiate urgently are repairing of existing solar power plant and biogas plant, rainwater harvesting recharge; water balance cycle and periodic inspection of buildings; environment policy and initiation of composting at campus.

References

- The Environment [Protection] Act – 1986 (Amended 1991) & Rules-1986 (Amended 2010)
- The Petroleum Act: 1934 – The Petroleum Rules: 2002
- The Central Motor Vehicle Act: 1988 (Amended 2011) and The Central Motor Vehicle Rules:1989 (Amended in 2005)
- Energy Conservation Act 2010.
- The Water [Prevention & Control Of Pollution] Act – 1974 (Amended 1988) & the Water (Prevention & Control of Pollution) Rules – 1975
- The Water [Prevention & Control Of Pollution] Cess Act-1977 (Amended 2003) and Rules- 1978
- The Air [Prevention & Control Of Pollution] Act – 1981 (Amended 1987) The Air (Prevention & Control of Pollution) Rules – 1982
- The Gas Cylinders Rules – 2016 (Replaces the Gas Cylinder Rules – 1981)
- E-waste management rules 2016
- Electrical Act 2003 (Amended 2001) / Rules 1956 (Amended 2006)
- The Hazardous Waste (Management and Handling and Trans-boundary Movement) Rules, 2008 (Amended 2016)
- The Noise Pollution Regulation & Control rules, 2000 (Amended 2010)
- The Batteries (Management and Handling) rules, 2001 (Amended 2010)
- Relevant Indian Standard Code practices

TECHNICAL SUPPLEMENTS

LIST OF TREES

Sl No	Name of Trees	No. of Trees
1	COCONUT TREE	95
2	JACK FRUIT TREE	2
3	SPANISH CHERRY (ILANJI)	2
4	MANGO TREE	29
5	TEAK	1
6	MAHOGONY TREE	60
7	PORITA TREE(POOVARASH)	1
8	ACACIA	31
9	INDIAN BAEI (KOOVALAM)	1
10	ASHOKA TREE	1
11	GUVA	30
12	INDIAN GOOSEBERRY	2
13	NEEM	1
14	LEMON	3
15	LARGE GARLIC PEAR (NEERMATHALAM)	1
16	DWARF WHITE ORCHID(MANDHAARAM)	5
17	SPEAR TREE (ETTI)	5
18	GAMHAR (KUMBIL)	3
19	INDIAN ASH TREE (UDHI)	3
20	INDIAN ALMOND (THALLI MARAM)	2
21	BANYAN TREE (AALMARAM)	1
22	YELLOW PALM	37
23	RED PALM	21
24	BAMBOO PALM	10
25	MALABAR IRON WOOD (THAMBAKAM)	2
26	RED SANDALWOOD (RAKTHA CHANDHANAM)	1
27	MALABAR TURMERIND (KUDAMPULI)	2
28	INDIAN COFFEE PLUM (LUBI)	1
29	ARKA (CHERUPUNNA)	1

St Joseph's College of Pharmacy 2022-23

Dharmagiri St Joseph's Hospital Trust
Naipunnaya Road
Cherthala
Alappuzha

Gas and Gas Connection Expense
Ledger Account

1-Apr-2022 to 27-Jan-2023

Page 1

Date	Particulars	Vch Type	Vch No.	Debit	Credit
18-7-2022	Cr Cash Gas for LAB	Payment	960	2,054.00	
17-9-2022	Cr CSB E Fee A/c No. 0084-01360669-190003 For AGP City Gas Pvt Ltd - New Gas connection Reg fee	Payment	1448	885.00	
5-12-2022	Cr Cash Gas	Payment	2107	1,085.00	
9-1-2023	Cr Cash Gas for Lab	Payment	2453	1,800.00	
				5,824.00	
	Dr Closing Balance				5,824.00
				5,824.00	5,824.00

KERALA STATE ELECTRICITY BOARD LIMITED

DEMAND CUM DISCONNECTION NOTICE

(As per Regulation 122 & 123 of Kerala Electricity Supply Code 2014)

Section	[5512]-Electrical Section Cherthala			Phone#	0478-2812504		Customer Care	1912				
Consumer#	1155127001836			Reg. Mob# 996xxxx055		Regular CC Bill	KSEBL GSTIN: 32AAECK2277NBZ1					
Name & Mailing Address				For redressing complaints/grievance approach the concerned CGRF								
THE ADMINISTRATOR				South: Chairperson,CGRF(South),KSEB Ltd, Vidythi Bhavanam,Kottarakkara-691506, Ph:0474-2060220								
ST JOSEPH'S HOSPITAL, DHARMAGIRI, CHERTHALA				Central: Chairperson,CGRF(Central),KSEB Ltd, Power House Building Ernakulam-682018, Ph:0484-2394288								
P O				North: Chairperson,CGRF(North),KSEB Ltd,Gandhi Road,Kozhikode-32, Ph:0495-2367820								
				State Electricity Ombudsman, Pallikkavil Building,Mamangalam, Edappally, Kochi-682024 Ph:0484-2346488								
Bill#	5512220206888			Bill Area	B01/18	DTR	ST JOSEPH					
Billing Period	2/2022[Bi-Monthly]			Tariff/Phase	LT-7A/Single	Pole#	STJ/S/					
Bill Date	19-02-2022			Due Date	02-03-2022	DC Date	17-03-2022					
Contract Demand	(Nil) VA [75% : 0KV, 130% : 0KV]			Connected Load	2200 Watts	Security Deposit	Rs.1800.00					
Meter#	L&T00SCM0093228496			Average consumption(Monthly)								
Meter Digits	5.1			Power Unit/Zone	CUMULATIVE							
Meter Type/Owner	TOD/KSEB			KWH	15							
Last Billed Rdg. Date		Prev. Rdg. Date		Prev. Meter Rdg. Status		Prst. Rdg. Date		Prst. Meter Rdg. Status				
21-12-2021		21-12-2021		Working		19-02-2022		Working				
Power Unit	Zone		Trading	Initial Reading(IR)	Final Reading(FR)		OMF	Units*				
KWH	Cumulative		Import	1237.00	1269.00		1	32				
Remarks :				Bill Details				[INR] Amount(Rs.)				
Last Paid Amount - Rs.1113.00 Last Payment Date - 17-01-2023				a)	Fixed Charges	Fixed Charge[FC]	420.00					
						Sub Total	420.00					
				b)	Energy Charges	Energy Charge[EC]	192.00					
						Sub Total	192.00					
				c)	Other Charges	Electricity Duty[ED]	19.20					
						Meter Rent[MR]	12.00					
						Sub Total	31.20					
				d)	GST	MR-CGST	1.08					
						MR-SGST	1.08					
						Sub Total	2.16					
				e)	Round Off		-0.36					
				e)	Total Amt.(Bill#5512220206888)		(a+b+c+d+e)	645.00				
				f)	Surcharge		0.00					
				g)	Reconnection Fee		0.00					
				h)	Interim Bills		0.00					
				i)	Arrears		0.00					
				j)	Less paid/adj.		-645.00					
				k)	Less Advance		-0.00					
					Net Payable(e+f+g+h+i-j-k)		0.00					
				Demand for 2/2022 is Rupees Six Hundred and Forty Five Only								

E&OE **Payment Options:** Cash,Cheque,DD,MO. **Online:** www.kseb.in (Debit/Credit Cards,Net Banking). Other Platforms: BBPS,Friends,Akshaya,CSC,NACH

KERALA STATE ELECTRICITY BOARD LIMITED

DEMAND CUM DISCONNECTION NOTICE

(As per Regulation 122 & 123 of Kerala Electricity Supply Code 2014)

Section	[5512]-Electrical Section Cherthala				Phone#	0478-2812504		Customer Care	1912					
Consumer#	1155127020395				Reg. Mob# 996xxxx055		Regular CC Bill		KSEBL GSTIN: 32AAECK2277NBZ1					
Name & Mailing Address					For redressing complaints/grievance approach the concerned CGRF									
MOTHER SUPERIOR					South: Chairperson,CGRF(South),KSEB Ltd, Vidythi Bhavanam,Kottarakkara-691506, Ph:0474-2060220									
ST JOSEPH PHARMACY COLLEGE, CMC 2, NORTH WEST					Central: Chairperson,CGRF(Central),KSEB Ltd, Power House Building Ernakulam-682018, Ph:0484-2394288									
OF ERUVELI BRIDGE/ /NRC NO CW 4626, CHERTHAL					North: Chairperson,CGRF(North),KSEB Ltd,Gandhi Road,Kozhikode-32, Ph:0495-2367820									
A NORTH					State Electricity Ombudsman, Pallikkavil Building,Mamangalam, Edappally, Kochi-682024 Ph:0484-2346488									
Bill#	5512220200149				Bill Area	M02/4		DTR	ST JOSEPH					
Billing Period	2/2022[Monthly]				Tariff/Phase	LT-6F/Three		Pole#	STJ/S/					
Bill Date	01-02-2022				Due Date	11-02-2022		DC Date	26-02-2022					
Contract Demand	(Nil) VA [75% : 0KV, 130% : 0KV]				Connected Load	37860 Watts		Security Deposit	Rs.45900.00					
Meter#	SCM020180000819403				Average consumption(Monthly)									
Meter Digits	6.1				Power Unit/Zone	CUMULATIVE								
Meter Type/Owner	NET Meter/Customer				KWH	1186								
Last Billed Rdg. Date		Prev. Rdg. Date		Prev. Meter Rdg. Status			Prst. Rdg. Date		Prst. Meter Rdg. Status					
01-01-2022		01-01-2022		Working			01-02-2022		Working					
Power Unit	Zone		Trading	Initial Reading(IR)		Final Reading(FR)		OMF	Units*					
KWH	Cumulative		Import	30452.00		31233.00		1	781					
KWH	Cumulative		Export	7532.00		7559.00		1	27					
Remarks :					Bill Details						[INR] Amount(Rs.)			
Arrears(Disputed) : Rs.146894/- Last Paid Amount - Rs.12385.00 Last Payment Date - 17-01-2023					a)	Fixed Charges		Fixed Charge[FC]		5320.00				
								Sub Total		5320.00				
					b)	Energy Charges		Energy Charge[EC]		6786.00				
								Sub Total		6786.00				
					c)	Other Charges		Electricity Duty[ED]		678.60				
								Sub Total		678.60				
								Sub Total		0.00				
					e)	Round Off				0.40				
					f)	Total Amt.(Bill#5512220200149)				(a+b+c+e)		12785.00		
					g)	Surcharge				0.00				
					h)	Reconnection Fee				0.00				
					i)	Interim Bills				0.00				
					j)	Arrears				0.00				
					k)	Less paid/adj.				-12785.00				
					l)	Less Advance				-0.00				
										Net Payable(f+g+h+i+j-k-l)				0.00
					Demand for 2/2022 is Rupees Twelve Thousand Seven Hundred and Eighty Five Only									

E&OE Payment Options: Cash,Cheque,DD,MO. Online: www.kseb.in (Debit/Credit Cards,Net Banking). Other Platforms: BBPS,Friends,Akshaya,CSC,NACH

Senior Superintendent

Solar OnGrid Consumer (Generator)

Consumer No.	1155127020395	Consumer Name	MOTHER SUPERIOR
SPIN	551200002	Plant Capacity	10 KW
Grid Connected On	14-11-2018		

Bank Statement for 202202 (Generator)

Units Imported	781 kWh	Units Exported	27 kWh
Bank Opening	1	Billed Consumption	0 kWh
Bank Closing	0		

Consumption Adjustment Report

Bill Month	Consumer #	Zone Code	Import	Export	Export + Bank	Solar Energy (Bank Energy X Factor)	Adjusted from bank	Billed Cons.	Banked Balance
202202	20395	A	781	0	1	754	754	0	0

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FACTOR : 0-Reading Not Accepted/Door Lock 0.9415-Applying Wheeling Charges 1/0.9415-Resetting Wheeling Charges

KERALA STATE ELECTRICITY BOARD LIMITED

DEMAND CUM DISCONNECTION NOTICE

(As per Regulation 122 & 123 of Kerala Electricity Supply Code 2014)

Section	[5512]-Electrical Section Cherthala			Phone#	0478-2812504		Customer Care	1912						
Consumer#	1155127024177			Reg. Mob# 944xxxx570		Regular CC Bill		KSEBL GSTIN: 32AAECK2277NBZ1						
Name & Mailing Address				For redressing complaints/grievance approach the concerned CGRF										
ADMINISTATOR				South: Chairperson,CGRF(South),KSEB Ltd, Vidythi Bhavanam,Kottarakkara-691506, Ph:0474-2060220										
ST.JOSEPH COLLEGE DHARMAGIRI, CMC 30, NORTH O				Central: Chairperson,CGRF(Central),KSEB Ltd, Power House Building Ernakulam-682018, Ph:0484-2394288										
F IRUVELY BRIDGE, CHERTHALA				North: Chairperson,CGRF(North),KSEB Ltd,Gandhi Road,Kozhikode-32, Ph:0495-2367820										
				State Electricity Ombudsman, Pallikkavil Building,Mamangalam, Edappally, Kochi-682024 Ph:0484-2346488										
Bill#	5512220300148			Bill Area	M02/4	DTR		ST JOSEPH						
Billing Period	3/2022[Monthly]			Tariff/Phase	LT-6F/Three	Pole#		STJ/S/1						
Bill Date	02-03-2022			Due Date	14-03-2022	DC Date		29-03-2022						
Contract Demand	(Nil) VA [75% : 0KV, 130% : 0KV]			Connected Load	16519 Watts	Security Deposit		Rs.22437.00						
Meter#	GPIOCUST00A4535320			Average consumption(Monthly)										
Meter Digits	6.2			Power Unit/Zone	CUMULATIVE									
Meter Type/Owner	NET Meter/Customer			KWH	1300									
Last Billed Rdg. Date		Prev. Rdg. Date		Prev. Meter Rdg. Status		Prst. Rdg. Date		Prst. Meter Rdg. Status						
01-02-2022		01-02-2022		Working		02-03-2022		Working						
Power Unit	Zone		Trading	Initial Reading(IR)	Final Reading(FR)		OMF	Units*						
KWH	Cumulative		Import	4430.00	5496.00		1	1066						
KWH	Cumulative		Export	6378.00	7763.00		1	1385						
Remarks :					Bill Details					[INR] Amount(Rs.)				
Last Paid Amount - Rs.2913.00 Last Payment Date - 17-01-2023					a)	Fixed Charges	Fixed Charge[FC]	2380.00						
							Sub Total	2380.00						
							Sub Total	0.00						
							Sub Total	0.00						
							Sub Total	0.00						
					e)	Total Amt.(Bill#5512220300148)			(a)	2380.00				
					f)	Surcharge			6.00					
					g)	Reconnection Fee			0.00					
					h)	Interim Bills			0.00					
					i)	Arrears			0.00					
					j)	Less paid/adj.			-2386.00					
					k)	Less Advance			-0.00					
								Net Payable(e+f+g+h+i-j-k)			0.00			
					Demand for 3/2022 is Rupees Two Thousand Three Hundred and Eighty Only									

E&OE Payment Options: Cash,Cheque,DD,MO. Online: www.kseb.in (Debit/Credit Cards,Net Banking). Other Platforms: BBPS,Friends,Akshaya,CSC,NACH

Senior Superintendent

Solar OnGrid Consumer (Generator)

Consumer No.	1155127024177	Consumer Name	ADMINISTATOR
SPIN	551200017	Plant Capacity	15 KW
Grid Connected On	01-09-2021		

Bank Statement for 202203 (Generator)

Units Imported	1066 kWh	Units Exported	1385 kWh
Bank Opening	1	Billed Consumption	2267 kWh
Bank Closing	2267		

Consumption Adjustment Report

Bill Month	Consumer #	Zone Code	Import	Export	Export + Bank	Solar Energy (Bank Energy X Factor)	Adjusted from bank	Billed Cons.	Banked Balance
202203	24177	A	1066	0	1	0	0	2267	0

Page 1
FACTOR : 0-Reading Not Accepted/Door Lock 0.9415-Applying Wheeling Charges
1/0.9415-Resetting Wheeling Charges

KERALA STATE ELECTRICITY BOARD LIMITED

DEMAND CUM DISCONNECTION NOTICE

(As per Regulation 122 & 123 of Kerala Electricity Supply Code 2014)

Section	[5512]-Electrical Section Cherthala							Phone#	0478-2812504		Customer Care	1912						
Consumer#	1155121023494							Reg. Mob# 808xxxx470		Regular CC Bill		KSEBL GSTIN: 32AAECK2277NBZ1						
Name & Mailing Address SR.JOVANA ADMNISTRATOR,ST.JOSEPH COLLEGE OF PHARMACY, C MC-2/28G, NEW BLOCK, NEAR NAIPUNYA COLLEGE								For redressing complaints/grievance approach the concerned CGRF										
								South: Chairperson,CGRF(South),KSEB Ltd, Vidythi Bhavanam,Kottarakkara-691506, Ph:0474-2060220										
								Central: Chairperson,CGRF(Central),KSEB Ltd, Power House Building Ernakulam-682018, Ph:0484-2394288										
								North: Chairperson,CGRF(North),KSEB Ltd,Gandhi Road,Kozhikode-32, Ph:0495-2367820										
								State Electricity Ombudsman, Pallikkavil Building,Mamangalam, Edappally, Kochi-682024 Ph:0484-2346488										
Bill#	5512220500135							Bill Area	M02/2	DTR	ST JOSEPH							
Billing Period	5/2022[Monthly]							Tariff/Phase	LT-7A/Three	Pole#	STJ/S/							
Bill Date	03-05-2022							Due Date	13-05-2022	DC Date	28-05-2022							
Contract Demand	(Nil) VA [75% : 0KV, 130% : 0KV]							Connected Load	14700 Watts	Security Deposit	Rs.9038.00							
Meter#	L&T00SCM0018438385							Average consumption(Monthly)										
Meter Digits	6.1							Power Unit/Zone	CUMULATIVE									
Meter Type/Owner	TOD/KSEB							KWH	235									
Last Billed Rdg. Date		Prev. Rdg. Date			Prev. Meter Rdg. Status				Prst. Rdg. Date		Prst. Meter Rdg. Status							
01-04-2022		27-04-2022			Door Lock				03-05-2022		Working							
Power Unit		Zone		Trading		Initial Reading(IR)		Final Reading(FR)		OMF		Units*						
KWH		Cumulative		Import		8524.00		8856.00		1		66						
Remarks : Last Paid Amount - Rs.4174.00 Last Payment Date - 17-01-2023 Changes effected between 01-04-2022 and 27-04-2022								Bill Details				[INR] Amount(Rs.)						
								a)	Fixed Charges		Fixed Charge[FC]			2100.00				
											Sub Total			2100.00				
								b)	Energy Charges		Energy Charge[EC]			2656.00				
											Sub Total			2656.00				
								c)	Other Charges		Electricity Duty[ED]			265.60				
											Meter Rent[MR]			15.00				
											Sub Total			280.60				
								d)	GST		MR-CGST			1.35				
											MR-SGST			1.35				
											Sub Total			2.70				
								e)	Round Off					-0.30				
								e)	Total Amt.(Bill#5512220500135) (a+b+c+d+e)							5039.00		
								f)	Surcharge					26.00				
								g)	Reconnection Fee					30.00				
								h)	Interim Bills					0.00				
								i)	Arrears					0.00				
								j)	Less paid/adj.					-5095.00				
								k)	Less Advance					-0.00				
									Net Payable(e+f+g+h+i-j-k)							0.00		
Demand for 5/2022 is Rupees Five Thousand and Thirty Nine Only																		

E&OE Payment Options: Cash,Cheque,DD,MO. Online: www.kseb.in (Debit/Credit Cards,Net Banking). Other Platforms: BBPS,Friends,Akshaya,CSC,NACH

Senior Superintendent

KERALA STATE ELECTRICITY BOARD LIMITED

DEMAND CUM DISCONNECTION NOTICE

(As per Regulation 122 & 123 of Kerala Electricity Supply Code 2014)

Section	[5512]-Electrical Section Cherthala			Phone#	0478-2812504		Customer Care	1912				
Consumer#	1155127001759			Reg. Mob# 808xxxx470		Regular CC Bill		KSEBL GSTIN: 32AAECK2277NBZ1				
Name & Mailing Address				For redressing complaints/grievance approach the concerned CGRF								
ADMINISTRATER				South: Chairperson,CGRF(South),KSEB Ltd, Vidythi Bhavanam,Kottarakkara-691506, Ph:0474-2060220								
ST JOSEPH HOSPITAL TRUST, CMC 2, CHERTHALA				Central: Chairperson,CGRF(Central),KSEB Ltd, Power House Building Ernakulam-682018, Ph:0484-2394288								
				North: Chairperson,CGRF(North),KSEB Ltd,Gandhi Road,Kozhikode-32, Ph:0495-2367820								
				State Electricity Ombudsman, Pallikkavil Building,Mamangalam, Edappally, Kochi-682024 Ph:0484-2346488								
Bill#	5512220206889			Bill Area	B01/18		DTR		ST JOSEPH			
Billing Period	2/2022[Bi-Monthly]			Tariff/Phase	LT-7A/Single		Pole#		STJ/S/			
Bill Date	19-02-2022			Due Date	02-03-2022		DC Date		17-03-2022			
Contract Demand	(Nil) VA [75% : 0KV, 130% : 0KV]			Connected Load	3514 Watts		Security Deposit		Rs.7332.00			
Meter#	L&T0B9730099499454			Average consumption(Monthly)								
Meter Digits	6.2			Power Unit/Zone	CUMULATIVE							
Meter Type/Owner	LCD/KSEB			KWH	62							
Last Billed Rdg. Date		Prev. Rdg. Date		Prev. Meter Rdg. Status		Prst. Rdg. Date		Prst. Meter Rdg. Status				
21-12-2021		21-12-2021		Working		19-02-2022		Working				
Power Unit	Zone		Trading	Initial Reading(IR)		Final Reading(FR)		OMF	Units*			
KWH	Cumulative		Import	123.00		268.00		1	145			
Remarks :				Bill Details					[INR] Amount(Rs.)			
Last Paid Amount - Rs.4581.00 Last Payment Date - 17-01-2023				a)	Fixed Charges		Fixed Charge[FC]		560.00			
							Sub Total		560.00			
				b)	Energy Charges		Energy Charge[EC]		870.00			
							Sub Total		870.00			
				c)	Other Charges		Electricity Duty[ED]		87.00			
							Meter Rent[MR]		12.00			
							Sub Total		99.00			
				d)	GST		MR-CGST		1.08			
							MR-SGST		1.08			
							Sub Total		2.16			
				e)	Round Off				-0.16			
				e)	Total Amt.(Bill#5512220206889)		(a+b+c+d+e)		1531.00			
				f)	Surcharge				0.00			
				g)	Reconnection Fee				0.00			
				h)	Interim Bills				0.00			
				i)	Arrears				-0.00			
				j)	Less paid/adj.				-1531.00			
				k)	Less Advance				-0.00			
								Net Payable(e+f+g+h+i-j-k)				0.00
				Demand for 2/2022 is Rupees One Thousand Five Hundred and Thirty One Only								

E&OE Payment Options: Cash,Cheque,DD,MO. Online: www.kseb.in (Debit/Credit Cards,Net Banking). Other Platforms: BBPS,Friends,Akshaya,CSC,NACH

KERALA STATE ELECTRICITY BOARD LIMITED

DEMAND CUM DISCONNECTION NOTICE

(As per Regulation 122 & 123 of Kerala Electricity Supply Code 2014)

Section	[5512]-Electrical Section Cherthala			Phone#	0478-2812504		Customer Care	1912					
Consumer#	1155120024402			Reg. Mob# 974xxxx668		Regular CC Bill		KSEBL GSTIN: 32AAECK2277NBZ1					
Name & Mailing Address				For redressing complaints/grievance approach the concerned CGRF									
ADMINISTRATOR				South: Chairperson,CGRF(South),KSEB Ltd, Vidythi Bhavanam,Kottarakkara-691506, Ph:0474-2060220									
ST.JOSEPHS COLLEGE OF FHARMACY, DHARMAGIRI				Central: Chairperson,CGRF(Central),KSEB Ltd, Power House Building Ernakulam-682018, Ph:0484-2394288									
COLLEGE, CHERTHALA PO, NAIPUNNIYA COLLEG				North: Chairperson,CGRF(North),KSEB Ltd,Gandhi Road,Kozhikode-32, Ph:0495-2367820									
E NEAR				State Electricity Ombudsman, Pallikkavil Building,Mamangalam, Edappally, Kochi-682024 Ph:0484-2346488									
Bill#	5512220206890			Bill Area	B01/18		DTR		ST JOSEPH				
Billing Period	2/2022[Bi-Monthly]			Tariff/Phase	LT-6F/Three		Pole#		STJ/S/1				
Bill Date	19-02-2022			Due Date	02-03-2022		DC Date		17-03-2022				
Contract Demand	(Nil) VA [75% : 0KV, 130% : 0KV]			Connected Load	7346 Watts		Security Deposit		Rs.12087.00				
Meter#	L+G020190004912720			Average consumption(Monthly)									
Meter Digits	5.1			Power Unit/Zone	CUMULATIVE								
Meter Type/Owner	TOD/KSEB			KWH	367								
Last Billed Rdg. Date		Prev. Rdg. Date		Prev. Meter Rdg. Status		Prst. Rdg. Date		Prst. Meter Rdg. Status					
21-12-2021		21-12-2021		Working		19-02-2022		Working					
Power Unit	Zone		Trading	Initial Reading(IR)		Final Reading(FR)		OMF	Units*				
KWH	Cumulative		Import	8431.00		8532.00		1	101				
Remarks :				Bill Details					[INR] Amount(Rs.)				
Last Paid Amount - Rs.3125.00 Last Payment Date - 17-01-2023				a)	Fixed Charges		Fixed Charge[FC]		2240.00				
							Sub Total		2240.00				
				b)	Energy Charges		Energy Charge[EC]				585.80		
							Sub Total				585.80		
				c)	Other Charges		Electricity Duty[ED]				58.58		
							Meter Rent[MR]				30.00		
							Sub Total				88.58		
				d)	GST		MR-CGST				2.70		
							MR-SGST				2.70		
							Sub Total				5.40		
				e)	Round Off						0.22		
				f)	Total Amt.(Bill#5512220206890)		(a+b+c+d+e)				2920.00		
				g)	Surcharge						0.00		
				h)	Reconnection Fee						0.00		
				i)	Interim Bills						0.00		
				j)	Arrears						0.00		
				k)	Less paid/adj.						-2920.00		
				l)	Less Advance						-0.00		
								Net Payable(f+g+h+i+j-k-l)				0.00	
				Demand for 2/2022 is Rupees Two Thousand Nine Hundred and Twenty Only									

E&OE Payment Options: Cash,Cheque,DD,MO. Online: www.kseb.in (Debit/Credit Cards,Net Banking). Other Platforms: BBPS,Friends,Akshaya,CSC,NACH

KERALA STATE ELECTRICITY BOARD LIMITED

DEMAND CUM DISCONNECTION NOTICE

(As per Regulation 122 & 123 of Kerala Electricity Supply Code 2014)

Section	[5512]-Electrical Section Cherthala	Phone#	0478-2812504	Customer Care	1912	
Consumer#	1155126023569	Reg. Mob# 996xxxx055	Regular CC Bill	KSEBL GSTIN: 32AAECK2277NBZ1		
Name & Mailing Address		For redressing complaints/grievance approach the concerned CGRF				
ADMINISTRATOR ST\''' JOSEPH PHARMACY COLLEGE, C M C.-2., CHE RTHALA P.O, CHERTHALA		South: Chairperson,CGRF(South),KSEB Ltd, Vidythi Bhavanam,Kottarakkara-691506, Ph:0474-2060220				
		Central: Chairperson,CGRF(Central),KSEB Ltd, Power House Building Ernakulam-682018, Ph:0484-2394288				
		North: Chairperson,CGRF(North),KSEB Ltd,Gandhi Road,Kozhikode-32, Ph:0495-2367820				
		State Electricity Ombudsman, Pallikkavil Building,Mamangalam, Edappally, Kochi-682024 Ph:0484-2346488				
Bill#	5512220206887	Bill Area	B01/18	DTR	ST JOSEPH	
Billing Period	2/2022[Bi-Monthly]	Tariff/Phase	LT-7A/Single	Pole#	STJ/S/	
Bill Date	19-02-2022	Due Date	02-03-2022	DC Date	17-03-2022	
Contract Demand	(Nil) VA [75% : 0KV, 130% : 0KV]	Connected Load	860 Watts	Security Deposit	Rs.549.00	
Meter#	L&T001010055349370	Average consumption(Monthly)				
Meter Digits	6.0	Power Unit/Zone	CUMULATIVE			
Meter Type/Owner	TOD/KSEB	KWH	7			
Last Billed Rdg. Date		Prev. Rdg. Date		Prev. Meter Rdg. Status		
21-12-2021		21-12-2021		Working		
Prst. Rdg. Date		Prst. Meter Rdg. Status				
19-02-2022		Working				
Power Unit	Zone	Trading	Initial Reading(IR)	Final Reading(FR)	OMF	
KWH	Cumulative	Import	874.00	886.00	1	
			12			
Remarks :			Bill Details			
Last Paid Amount - Rs.394.00 Last Payment Date - 17-01-2023					[INR] Amount(Rs.)	
			a)	Fixed Charges	Fixed Charge[FC]	140.00
					Sub Total	140.00
			b)	Energy Charges	Energy Charge[EC]	72.00
					Sub Total	72.00
			c)	Other Charges	Electricity Duty[ED]	7.20
					Meter Rent[MR]	12.00
					Sub Total	19.20
			d)	GST	MR-CGST	1.08
					MR-SGST	1.08
					Sub Total	2.16
			e)	Round Off		-0.36
			e)	Total Amt.(Bill#5512220206887) (a+b+c+d+e)		233.00
			f)	Surcharge		0.00
			g)	Reconnection Fee		0.00
			h)	Interim Bills		0.00
			i)	Arrears		0.00
			j)	Less paid/adj.		-233.00
			k)	Less Advance		-0.00
				Net Payable(e+f+g+h+i-j-k)		0.00
Demand for 2/2022 is Rupees Two Hundred and Thirty Two Only						

E&OE Payment Options: Cash,Cheque,DD,MO. Online: www.kseb.in (Debit/Credit Cards,Net Banking). Other Platforms: BBPS,Friends,Akshaya,CSC,NACH

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