

# ENERGY AUDIT REPORT

SREE NARAYANA COLLEGE

CHENGANNUR

Executed by



2023



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Bureau of Energy Efficiency,  
Government of India.



Empanelled Energy Auditor: EMCEEA-0211F,  
EMC (Energy Management Centre-Kerala)

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# ENERGY AUDIT REPORT

## SREE NARAYANA COLLEGE

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CHENGANNUR





Energy Audit Report  
Sree Narayana College, Chengannur  
Report No: EA 986  
2022-December



Empaneled Accredited Energy Auditor, AEA 33  
Bureau of Energy Efficiency  
Government of India



Empaneled Energy Auditor, EMCEEA-0211F,  
Energy Management Centre  
Government of Kerala.



Authorized Energy Auditor, GEDA/ENC/EAC: Autho/2014/8/103/2316,  
Gujarat Energy Development Agency  
Government of Gujarat



Empaneled Energy Auditor, India SME Technology Services Ltd  
A joint Venture of SIDBI, SBI, Indian Bank, Oriental Bank of Commerce  
& Indian Overseas Bank

## 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" for the best performance as an Energy Auditor.

## Acknowledgment

We were privileged to work together with the administration and staff of Sree Narayana College, Chengannur 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 audit team 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  
For OTTOTRACTIONS

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## Contents

	Acknowledgement	
	Certification	
	Executive Summary	
1.	Introduction	1-2
2.	Process and Functional Description	3-3
3.	Energy and Utility system Description	4-4
4.	Detailed Process flow diagram and Energy& Material balance	5-5
5.	Performance evaluation of major equipment and systems	6-9
6.	Energy Efficiency in Utility and Process Systems	10-10
7.	Evaluation of Energy Management System	11-12
8.	Energy Conservation Options & Recommendations	13-16
	<b>Technical Supplements</b>	
9.	Technical Supplement 1, Backup data& Worksheets	17-18
10.	Notes	

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# ***Certification***

## **This is to certify that**

The data collection has been carried out diligently and truthfully;

All data monitoring devices are in good working condition and have been calibrated or certified by approved agencies authorised and no tampering of such devices has occurred;

All reasonable professional skill, care and diligence had been taken in preparing the energy audit report and the contents thereof are a true representation of the facts;

Adequate training provided to personnel involved in daily operations after implementation of recommendations; and

The energy audit has been carried out in accordance with the Bureau of Energy Efficiency (Manner and Intervals of Time for the Conduct of Energy Audit) Regulations, 2010.

SURESH BABU B V  
ACCREDITED ENERGY AUDITOR (AEA 33)

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OTTOTRACTIONS- ENERGY AUDIT						
Sree Narayana College, Chengannur						
Greenhouse Gas Mitigation through Major Energy Efficiency Projects						
SI No	Projects	Energy saved(Yearly)		Sustainability (Years)	First year ton of CO2 mitigated	Expected Tons of CO2 mitigated through out life cycle
		(kWh)	MWh	Years		
1	Energy Saving in Lighting by replacing existing 21 No's T8 (40W) Lamps to 18W LED Tube	297	0.30	10	0.24	2.44
3	Energy Saving by replacing existing 80No's in-efficient ceiling fans with Energy Efficient Five star fans/BLDC Fans	2168	2.17	10	1.78	17.78
Total		<b>2465</b>	<b>2</b>	<b>20</b>	<b>2.02</b>	<b>20</b>

OTTOTRACTIONS- ENERGY AUDIT						
Sree Narayana College, Chengannur						
Greenhouse Gas Mitigation through Renewable Energy Projects						
SI No	Projects	Energy saved(Yearly)		Sustainability (Years)	First year ton of CO2 mitigated	Expected Tons of CO2 mitigated through out life cycle
		(kWh)	MWh	Years		
1	Installation of 20 kWp Solar Power Plant	19163	19.16	25	15.71	392.83
Total		19163	19	25	16	393

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# 1

## Introduction

**A** detailed energy audit has been carried out at Sree Narayana College, Chegannur by OTTOTRACTIONS in December 2022. OTTOTRACTIONS is an Accredited Energy Auditor of Bureau of Energy Efficiency and Empaneled Energy Auditor of Energy Management Centre, Government of Kerala. The energy audit has identified energy conservation opportunities and recommended projects to improve energy efficiency of the facility.

This energy audit report complies with the clauses in *Energy Conservation Act, 2001* on mandatory energy audit (**Form 4** [refer regulation 6(2)] guidelines for preparation of energy audit report) and complies with the G.O (Rt) No.2/2011/PD dated 01.01.2011 issued by Government of Kerala on mandatory energy audit.

### 1.1. General Building details and descriptions

Sree Narayana College, Chengannur is a major centre for higher education offering educational opportunities to the rural community. The College is named after the great saint and social reformer Sree Narayana Gurudev. It stands as a monument that reminds us of the great doctrines of the Guru. The basic objective of the institution is to provide education to the marginalised section of the society. The college started functioning in 1981, and is a young growing college offering five under graduate courses and three post graduate courses. The college is situated in a beautiful place 6kms away from Chengannur. The college endeavours to mould a community of students committed to the pursuit of truth and moral excellence upholding the high

ideals of Sree Narayana Guru, our patron. It was His Holiness Narayana Guru's call to seek "Liberation through Education" which inspired the distinguished citizens of this backward area to start a new college. We aim at building up a humane and socially committed fraternity of young men and women through education. The motto of the college is "Enlightenment through Education". The college stands for academic excellence as well as development of the skill and character of students based on the Holy Guru's perspectives on humanism, secularism and universal brotherhood.

<b>Occupancy Details</b>			
<b>Particulars</b>	<b>2020-21</b>	<b>2021-22</b>	<b>2022-23</b>
<b>Total Students</b>	<b>549</b>	<b>534</b>	<b>326</b>
<b>Staffs</b>	<b>33</b>	<b>31</b>	<b>31</b>
<b>Total Occupancy of the college</b>	<b>582</b>	<b>565</b>	<b>357</b>

For calculating specific energy consumption, the total built-up area is taken into account.

### **Energy audit team**

The Energy Audit team is listed below. Besides this list various domine experts also participated in this project.

1. Suresh Babu B V, Accredited Energy Auditor, AEA 33
2. B. Zachariah, Chief Technical Consultant
3. Abin Baby, Project Engineer
4. Devan J, Project Engineer
5. Jomon J S, Project Engineer

# 2

## Process description

The energy audit has been carried out at Sree Narayana College, Chengannur. The following is the baseline data of this building.

<i>Form-A</i>							
<b>BASELINE DATA SHEET FOR GREEN AUDIT</b>							
1	Name of the Organisation	Sree Narayana College, Chengannur					
2	Address (include telephone, fax & e-mail )	Sree Narayana College Chengannur Neduvaramcode PO, Cheriyanaad, Chengannur- 689508					
3	Year of Establishment	1981					
4	Name of building and Total No. of Electrical Connections/building	Block A, Block B, Block C and Library Block					
5	Total Number of Students	Boys		Girls		Total	
6	Total Number of Staff	31					
7	Total Occupancy	357					
8	Total area of green cover (hectare)	2.20					
9	Type of Electrical Connection	HT	0	LT	3		
10	Total Connected Load (kW)	24					
11	Average Maximum Demand (KVA)	-					
12	Total built up area of the building (M <sup>2</sup> )	2855					
13	Number of Buildings	6					
14	Average system Power Factor	0.95					
15	Details of capacitors connected	0					
16	Transformer Details (Nos., kVA, Voltage ratio)	TR 1	315				
17	DG Set Details (kVA, )	DG1	DG2	DG3	DG4	DG5	Remarks
		0					
18	Details of motors	Rating		Nos.		Remarks	
		5 to 10		0			
		10 to 50					
		Above 50					

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# 3

## Energy and utility system description

### 3.1.1 Electricity

Electricity is purchased from KSEB under LT 6(B) Ndom tariff, the details are given below.

Electricity Connection Details		
Sree Narayana College, Chengannur		
1	Name of the Consumer	Sree Narayana College, Chengannur Chenganoor
2	Tariff	LT 6B Ndom
3	Consumer Number	1155331020552, 1155332001350, 1155372011780
5	Connected Load Total (kW)	24
6	Annual Electricity Consumption (kWh)	16257

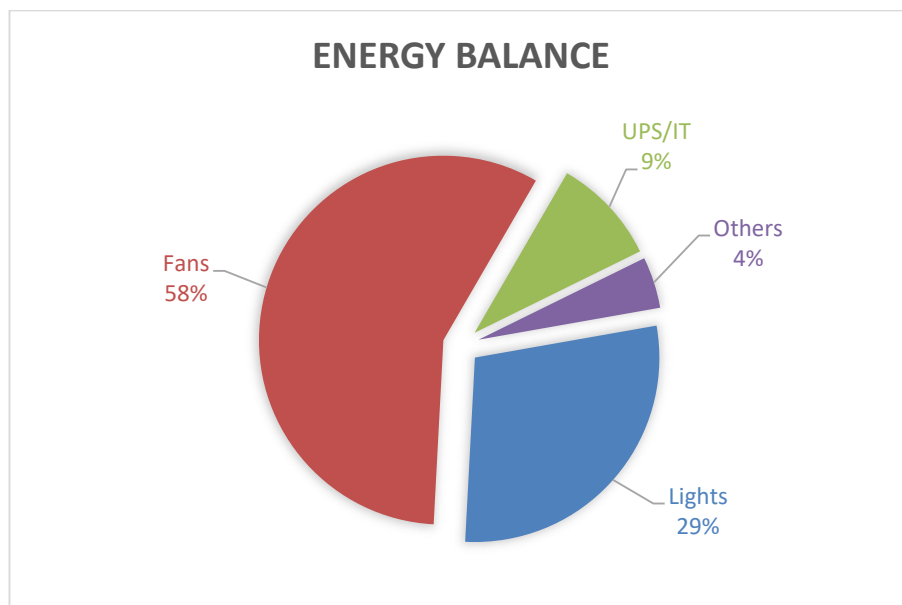
### 3.2. Thermal Energy / Transportation

Biogas Consumption				
	m3	kcal/m3	Daily production	Annual production (kCal)
Biogas plant 1	1	3500	3500	770000
				770000

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# 4

## Energy Balance



58 % of the total energy consumed in this facility is used to operate Fans. Lighting uses 29% IT Equipment uses 9%.Others uses 4%

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# 5

## Performance evaluation of major utilities and process equipment's /systems.

### 5.1. List of equipment and process where performance testing was done.

5.1.1. Electrical System

5.1.2. Lighting & Fans

### 5.2. Results of performance testing

#### 5.2.1. Electrical System

The average unit cost of electricity is **9.00 Rs/kWh**. This is taken as the basis for the financial analysis of electrical energy efficiency projects. The information on average energy consumption is taken from the historical electricity bill analysis. The electricity is fed from 3 different LT Connections.

### Electricity Consumption

1155372011780
---------------

2022-23			2021-22			2020-21		
Month	kWh	Amount	Month	kWh	Amount	Month	kWh	Amount
May-22	941	7495	May-21	518	4844	May-20	900	7319
Jul-22	706	5969	Jul-21	697	5966	Jul-20	839	6857
Sep-22	731	6179	Sep-21	633	5564	Sep-20	466	4518
Nov-22	1492	12526	Nov-21	813	6693	Nov-20	679	5854
Jan-23	917	7566	Jan-22	941	7495	Jan-21	929	7421
Feb-23	964	7866	Feb-22	706	5969	Feb-21	779	6481

1155331020552							
2022-23		2021-22			2020-21		
Date	kWh	Date	kWh	Amount	Date	kWh	Amount
May-22	1197	May-21	250	1467	May-20	184	1469
Jul-22	776	Jul-21	250	2728	Jul-20	183	1467
Sep-22	775	Sep-21	679	1909	Sep-20	139	1108
Nov-22	1466	Nov-21	1075	5701	Nov-20	111	1904
Jan-23	2014	Jan-22	1197	3740	Jan-21	567	4926
Feb-23	1902	Feb-22	776	1909	Feb-21	250	1467

1155332001350							
2022-23		2021-22			2020-21		
Month	kWh	Month	kWh	Amount	Month	kWh	Amount
May-22	554	May-21	111	1968	May-20	165	1771
Jul-22	378	Jul-21	160	2116	Jul-20	90	2079
Sep-22	405	Sep-21	331	1640	Sep-20	120	3151
Nov-22	350	Nov-21	521	1829	Nov-20	153	4342
Jan-23	414	Jan-22	275	2036	Jan-21	323	2800
Feb-23	275	Feb-22	414	3101	Feb-21	112	3671

## Diesel

The campus doesn't have any consumption of diesel.

## SOLAR

Solar Power Plant	
Particulars	Remarks
Capacity kWp	1
Annual generation (kWh)	1278
Average Demand	31.42
Total kWh Exported	0
Total kWh Consumed	1278

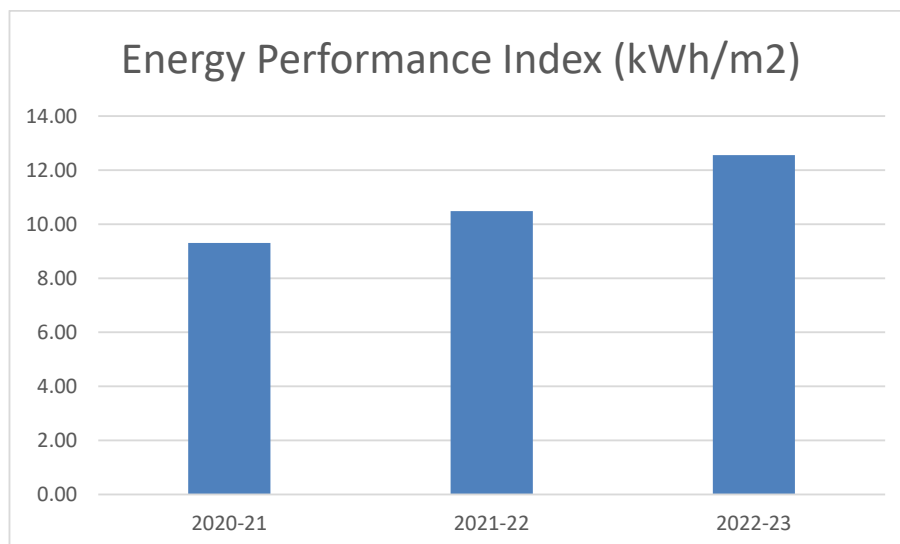
## BIOGAS

Biogas Consumption				
	m3	kcal/m3	Daily production	Annual production (kCal)
Biogas plant 1	1	3500	3500	770000
				770000



Base Line Energy Data				
Sree Narayana College, Chengannur				
		2020-21	2021-22	2022-23
1	Electricity KSEB (kWh)	6988.5	10347	16257
2	Electricity Solar Consumption (kWh)	1278	1278	1278
3	Electricity (KSEB + Solar) kWh	8266	11625	17535
4	Electricity Solar Export (kWh)	0	0	0
5	Diesel (L)	0.00	0.00	0.00
6	LPG (kg)	0	0	0
7	Biogas (m <sup>3</sup> )	3500.00	3500.00	3500.00

Energy Consumption Profile							
Sl No	Fuel	2020-21		2021-22		2022-23	
		kCal	kWh	kCal	kWh	kCal	kWh
1	Electricity	7108760	8266	9997070	11625	15079670	17535
2	Diesel	0	0	0	0	0	0
3	LPG	0	0	0	0	0	0
4	Biogas	15750000	18314	15750000	18314	15750000	18314
Total		22858760	26580	25747070	29938	30829670	35848





# 6

## Energy efficiency in utility and process system

The specific energy consumption is normally taken as the ratio of total energy consumed to the total area of building.

OTTOTRACTIONS- ENERGY AUDIT				
Sree Narayana College, Chengannur				
Energy Performance Index (EPI)				
Sl No	Particulars	2020-21	2021-22	2022-23
1	Total building area (m <sup>2</sup> )	2855	2855	2855
2	Annual Energy Consumption (kCal)	22858760	25747070	30829670
3	Annual Energy Consumption (kWh)	26580	29938	35848
4	Total Energy in Toe	2.29	2.57	3.08
5	Specific Energy Consumption kWh/m <sup>2</sup>	9.31	10.49	12.56

The Energy Performance Index (EPI) is

**12.56 kWh/m<sup>2</sup>**

This may be due to the lesser occupancy during pandemic shut downs, so the benchmark year may be taken as 2022-23.

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# 7

## Evaluation of energy management system

### Energy management policy

There is no written energy policy available, but environment policy is available which includes energy conservation also. A draft energy management policy is given below. The management may constitute an energy management policy and display the same in the plant to motivate the staff.

#### SREE NARAYANA COLLEGE, CHENGANNUR

##### ENERGY POLICY

*(Draft)*

*We are committed to optimally utilize various forms of energy in a cost effective manner to effect conservation of energy resources. We are committed to conserve the energy which is a scarce resource with the requisite consistency in the efficiency, effectiveness in the cost involved in the operations and ensuring that production quality and quantity, environment, safety, health of people are maintained. We are also committed to increase the renewable energy share of the total energy we use.*

*We are also committed to monitor continuously the saving achieved and reduce its specific energy consumption by minimum of 2% every year.*

Date -----

Head of the Institution

### 7.1. Energy management monitoring system

- **Energy Management Cell** has to be constituted with an objective to revise action plan for energy conservation thereby reducing the production cost.
- Energy conservation tips/ posters are displayed in crucial points.
- Use of renewable energy has to be encouraged.

### 7.2. Training to staff responsible for operational and Documentation.

- The staff and students need to be made more aware of the importance of energy saving and management.
- Log books shall be maintained to record Electricity Consumption and Diesel consumption.
- Meter reading shall be taken and compared with KSEB regularly.
- Better operating practices regarding appliances and fixtures should be taught to the staff.

### 7.3. Best Practices

- Have solid waste management program
- Conducted Green Audit.
- Have different social and environmental clubs
- Installed LED bulbs
- Conducted Energy Conservation Training Programs

# 8

## Energy Conservation Measures and Recommendations

Executive Summary					
Consolidated Cost Benefit Analysis of Energy Efficiency Improvement Projects					
Sree Narayana College, Chengannur					
SI No	Projects	Investment	Cost saving	SPB	Energy saved
		(Lakhs Rs)	(Lakhs Rs)/Yr	Months	kWh/Yr
1	Energy Saving in Lighting by replacing existing 21 No's T8 (40W) Lamps to 18W LED Tube	0.05	0.027	23.56	297
2	Energy Saving by replacing existing 80No's in-efficient ceiling fans with Energy Efficient Five star fans/BLDC Fans	2.00	0.180	133.36	2168
<b>Total</b>		<b>2.05</b>	<b>0.21</b>	<b>78.46</b>	<b>2465</b>
(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.)					

OTTOTRACTIONS- ENERGY AUDIT	
Energy Saving Proposal Code 1	
Energy Saving in Lighting by replacing existing 21 No's T8 (40W) Lamps to 18W LED Tube	
<b>Existing Scenario</b>	
29 numbers of T8(40 W) lamps were identified during the energy audit field survey in the facility. During discussion with officers it is observed that the average utility of these fittings are of 30%.	
<b>Proposed System</b>	
The existing T8 may be replaced to LED Tube of 18W in phased manner and the savings will be of 55% (inclusive of improved light output and reduced energy consumption)	
<b>Financial Analysis</b>	
Annual working hours (hr)	1760
No of fittings	21
Total load (kW)	0.84
Annual Energy Consumption (kWh)	444
Expected Annual Energy saving for replacing all fittings (kWh)	297
Cost of Power	9.00
Annual saving in Lakhs Rs (1st year)	0.03
Investment required for complete replacements [@Rs 250 per fittings](Lakhs Rs)	0.05
Simple Pay Back (in Months)	23.56

OTTOTRACTIONS- ENERGY AUDIT	
Energy Saving Proposal Code 2	
Energy Saving by replacing existing 80No's in-efficient ceiling fans with Energy Efficient Five star fans/BLDC Fans	
<b>Existing Scenario</b>	
There are 80 numbers of ceiling fans installed in the facility with minimum 8 hrs a day operation. All are conventional type and most of them are very old.	
<b>Proposed System</b>	
There is an energy saving opportunity in replace the existing fans with new five star labelled fans. The five star labelled fans give a savings up to 55% with higher service value (air delivery/watt). The operating factor is taken as 50%	
<b>Financial Analysis</b>	
Annual working hours (hrs)	1760
Total numbers of ordinary fans	80
Total load (kW)	5.60
Annual Energy Consumption (kWh)	3942
Expected Annual Energy saving, for total replacement(kWh)	2168
Cost of Power (Rs)	8.30
Annual saving in Lakhs Rs (1st year)	0.18
Investment required for a total replacement (Lakhs Rs)[@2500 Rs per Fan with 30W at full speed]	2.00
Simple Pay Back (in Months)	133.36

Energy Saving Proposal Code 3	
Installation of 20 kWp Solar Power Plant	
<b>Existing Scenario</b>	
There is a good potential of solar power electricity generation. The availability of sunlight is very high. There are some canopies available in the proposed site, but by having proper trimming of trees this may be avoided. If the SPVs are placed on the roof top it will help in improving RTTV (Roof Thermal Transmittance Value) of the building.	
<b>Proposed System</b>	
It is proposed to install a 20kWp Solar Power Plant in addition to the existing one. The state and central government is pushing and giving good assistance to the installation. It can be installed as an internal grid connected system which is much cheaper than off grid system. Now days the technology provides trouble free grid interactive and connected system. The installation will provide 25yrs trouble free generation with only 20% efficiency loss at the 25th year.	
<b>Financial Analysis</b>	
Proposed Solar installed Capacity (kW)	15
Total average kWh per day expected (3.5kWh/day average)	52.50
Annual generation kWh	19163
Cost of energy generated annually Lakhs Rs	1.59
Investment required (INR lakh)(Approx)	8.25
Simple Pay Back (in Months)	62.25
Life cycle in Yrs	25
Total Saving in Life Cycle (Approx) RS lakh	39.76



## Technical Supplements

Sree Narayana College, Chengannur													
Sl.No	Block	Location	T8	T12	CFL	LED B	LED T	CF	EF	Printer	Projector	PC	AC (1.5TR)
1	Block A	Class rooms*3					6	6					
2		Lab *2					4	4					
3		Physics Lab	4	1			2	7					
4		Physics Dept					1	1					
5		Principal	1			2		2					
6		Office					4	5		2			4
7		Chemistry Dept.	1					2					
8		B Sc Chemistry Lab-1	1		2			1					
9		M Sc Chemistry Lab	3		1								
10		Chemistry Lab -2	4					2	1				
11	Library	Library	4	2				2					
12		Reading room					1	2					
13		Class rooms*2						4	4				
14		Class room-1						4	6				
15	Block B	Class room*2					4	4					
16	Block C	Class room*3					6	12					
17	Block D	Maths Dept.	2				2	2					
18		Economics Dept.	1				2	2					
19		Auditorium						2	6				
20	Hostel	Rooms *11					22	11					
<b>TOTAL</b>			<b>21</b>	<b>3</b>	<b>3</b>	<b>2</b>	<b>66</b>	<b>80</b>	<b>0</b>	<b>2</b>	<b>0</b>	<b>4</b>	<b>0</b>

# KERALA STATE ELECTRICITY BOARD LIMITED

## DEMAND CUM DISCONNECTION NOTICE

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

Section	[5533]-Electrical Section Chenganoor	Phone#	0479-2452223	Customer Care	1912	
Consumer#	1155331020552	Reg. Mob# 949xxxx517	Regular CC Bill	KSEBL GSTIN: 32AAECK2277NBZ1		
Name & Mailing Address		<b>For redressing complaints/grievance approach the concerned CGRF</b>				
<b>PRINCIPAL</b> SREE NARAYANA COLLEGE, NEDUVARAMKODU.P.O, CHE NGANNUR		<b>South:</b> Chairperson,CGRF(South),KSEB Ltd, Vidythi Bhavanam,Kottarakkara-691506, Ph:0474-2060220				
		<b>Central:</b> Chairperson,CGRF(Central),KSEB Ltd, Power House Building Ernakulam-682018, Ph:0484-2394288				
		<b>North:</b> 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#	5533230108090	Bill Area	A01/12	DTR	NEDUVARAMCODU FEDERAL BAN	
Billing Period	1/2023[Bi-Monthly]	Tariff/Phase	LT-6B/Three	Pole#	PN/112/16	
Bill Date	12-01-2023	Due Date	23-01-2023	DC Date	07-02-2023	
Contract Demand	(Nil) VA [75% : 0KV, 130% : 0KV]	Connected Load	5040 Watts	Security Deposit	Rs.15684.00	
Meter#	GIL0000S0004510092	Average consumption(Monthly)				
Meter Digits	6.2	Power Unit/Zone	CUMULATIVE			
Meter Type/Owner	TOD/KSEB	KWH	709			
Last Billed Rdg. Date	Prev. Rdg. Date	Prev. Meter Rdg. Status	Prst. Rdg. Date	Prst. Meter Rdg. Status		
12-11-2022	12-11-2022	Working	12-01-2023	Working		
Power Unit	Zone	Trading	Initial Reading(IR)	Final Reading(FR)	OMF	Units*
KWH	Cumulative	Import	9410.00	11312.00	1	1902
<b>Remarks :</b>  Last Paid Amount - Rs.16159.00 Last Payment Date - 07-02-2023			<b>Bill Details</b>		<b>[INR] Amount(Rs.)</b>	
			a)	Fixed Charges	Fixed Charge[FC]	1080.00
					Sub Total	<b>1080.00</b>
			b)	Energy Charges	Energy Charge[EC]	13599.30
					Sub Total	<b>13599.30</b>
			c)	Other Charges	Electricity Duty[ED]	1359.93
					Meter Rent[MR]	30.00
					Sub Total	<b>1389.93</b>
			d)	GST	MR-CGST	2.70
					MR-SGST	2.70
					Sub Total	<b>5.40</b>
			e)	Round Off		0.37
			f)	<b>Total Amt.(Bill#5533230108090) (a+b+c+d+e)</b>		<b>16075.00</b>
			g)	Surcharge		84.00
			h)	Reconnection Fee		0.00
i)	Interim Bills		0.00			
j)	Arrears		0.00			
k)	Less paid/adj.		-16159.00			
l)	Less Advance		-0.00			
	<b>Net Payable(f+g+h+i+j-k-l)</b>		<b>0.00</b>			
<i>Demand for 1/2023 is Rupees Sixteen Thousand and Seventy Five Only</i>						

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	[5533]-Electrical Section Chenganoor	Phone#	0479-2452223	Customer Care	1912	
Consumer#	1155332001350	Reg. Mob# 944xxxx311	Regular CC Bill	KSEBL GSTIN: 32AAECK2277NBZ1		
Name & Mailing Address		<b>For redressing complaints/grievance approach the concerned CGRF</b>				
PRINCIPAL S N COLLEGE, ALA, CHENGANNUR		<b>South:</b> Chairperson,CGRF(South),KSEB Ltd, Vidythi Bhavanam,Kottarakkara-691506, Ph:0474-2060220				
		<b>Central:</b> Chairperson,CGRF(Central),KSEB Ltd, Power House Building Ernakulam-682018, Ph:0484-2394288				
		<b>North:</b> 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#	5533230108085	Bill Area	A01/12	DTR	NEDUVARAMCODU FEDERAL BAN	
Billing Period	1/2023[Bi-Monthly]	Tariff/Phase	LT-6A/Three	Pole#	PN/112/14	
Bill Date	12-01-2023	Due Date	23-01-2023	DC Date	07-02-2023	
Contract Demand	(Nil) VA [75% : 0KV, 130% : 0KV]	Connected Load	7500 Watts	Security Deposit	Rs.4248.00	
Meter#	UEI5533M0000013668	Average consumption(Monthly)				
Meter Digits	5.1	Power Unit/Zone	CUMULATIVE			
Meter Type/Owner	Static/KSEB	KWH	189			
Last Billed Rdg. Date	Prev. Rdg. Date	Prev. Meter Rdg. Status	Prst. Rdg. Date	Prst. Meter Rdg. Status		
12-11-2022	12-11-2022	Working	12-01-2023	Working		
Power Unit	Zone	Trading	Initial Reading(IR)	Final Reading(FR)	OMF	Units*
KWH	Cumulative	Import	30353.00	30907.00	1	554
<b>Remarks :</b>  Last Paid Amount - Rs.4690.00 Last Payment Date - 13-01-2023			<b>Bill Details</b>		[INR] Amount(Rs.)	
			a)	Fixed Charges	Fixed Charge[FC]	1120.00
					Sub Total	<b>1120.00</b>
			b)	Energy Charges	Energy Charge[EC]	3213.20
					Sub Total	<b>3213.20</b>
			c)	Other Charges	Electricity Duty[ED]	321.32
					Meter Rent[MR]	30.00
					Sub Total	<b>351.32</b>
			d)	GST	MR-CGST	2.70
					MR-SGST	2.70
					Sub Total	<b>5.40</b>
			e)	Round Off		0.08
			f)	Total Amt.(Bill#5533230108085) (a+b+c+d+e)		<b>4690.00</b>
			g)	Surcharge		0.00
			h)	Reconnection Fee		0.00
i)	Interim Bills		0.00			
j)	Arrears		0.00			
k)	Less paid/adj.		-4690.00			
l)	Less Advance		-0.00			
	<b>Net Payable(f+g+h+i+j-k-l)</b>		<b>0.00</b>			
<b>Demand for 1/2023 is Rupees Four Thousand Six Hundred and Ninety Only</b>						

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	[5537]-Electrical Section Kollakadavu	Phone#	0479-2357251	Customer Care	1912	
Consumer#	1155372011780	Reg. Mob# 944xxxx412	Regular CC Bill	KSEBL GSTIN: 32AAECK2277NBZ1		
Name & Mailing Address		<b>For redressing complaints/grievance approach the concerned CGRF</b>				
PRASANNA M S S N COLLEGE, CHERIYANADU		<b>South:</b> Chairperson,CGRF(South),KSEB Ltd, Vidythi Bhavanam,Kottarakkara-691506, Ph:0474-2060220				
		<b>Central:</b> Chairperson,CGRF(Central),KSEB Ltd, Power House Building Ernakulam-682018, Ph:0484-2394288				
		<b>North:</b> 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#	5537230204056	Bill Area	B01/7	DTR	AMBEDKAR COLONY	
Billing Period	2/2023[Bi-Monthly]	Tariff/Phase	LT-6A/Three	Pole#	Unknown_55378	
Bill Date	07-02-2023	Due Date	17-02-2023	DC Date	06-03-2023	
Contract Demand	(Nil) VA [75% : 0KV, 130% : 0KV]	Connected Load	11275 Watts	Security Deposit	Rs.14724.00	
Meter#	L&T020160015587913	Average consumption(Monthly)				
Meter Digits	6.2	Power Unit/Zone	CUMULATIVE			
Meter Type/Owner	TOD/KSEB	KWH	562			
Last Billed Rdg. Date		Prev. Rdg. Date		Prev. Meter Rdg. Status		
07-12-2022		07-12-2022		Working		
Prst. Rdg. Date		Prst. Meter Rdg. Status				
07-02-2023		Working				
Power Unit	Zone	Trading	Initial Reading(IR)	Final Reading(FR)	OMF	
KWH	Cumulative	Import	45131.00	46167.00	1	
Units*			1036			
<b>Remarks :</b>			<b>Bill Details</b>			
Last Paid Amount - Rs.9360.00 Last Payment Date - 10-02-2023					[INR] Amount(Rs.)	
			a)	Fixed Charges	Fixed Charge[FC]	1680.00
					Sub Total	<b>1680.00</b>
			b)	Energy Charges	Energy Charge[EC]	6889.40
					Fuel Surcharge[FS]	10.88
					Sub Total	<b>6900.28</b>
			c)	Other Charges	Electricity Duty[ED]	688.94
					Meter Rent[MR]	30.00
					Sub Total	<b>718.94</b>
			d)	GST	MR-CGST	2.70
					MR-SGST	2.70
					Sub Total	<b>5.40</b>
			e)	Round Off		0.38
			f)	<b>Total Amt.(Bill#5537230204056) (a+b+c+d+e)</b>		<b>9305.00</b>
g)	Surcharge		47.00			
h)	Reconnection Fee		0.00			
i)	Interim Bills		0.00			
j)	Arrears		0.00			
k)	Less paid/adj.		-9352.00			
l)	Less Advance		-8.00			
	<b>Net Payable(f+g+h+i+j-k-l)</b>		<b>0.00</b>			
<i>Demand for 2/2023 is Rupees Nine Thousand Three Hundred and Five Only</i>						

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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