

# ENERGY AUDIT REPORT

## PAVANATMA COLLEGE

## MURICKASSERY

Executed by



2023

  
**OTTOTRACTIONS**  
Energy - Engineering - Environment  
DNRA 170, Valiyavila, Thirumala P O, Thiruvananthapuram 695006  
Ph/Fax:0471 3966250,2368747 Helpline: +919447068747, 9447621674,  
email:ottotractions@email.com, otenergy@gmail.com  
www.ottotractions.com

 Accredited Energy Auditor: AEA-33  
Empanelled Accredited Energy Auditor: EmAEA-33  
Bureau of Energy Efficiency,  
Government of India.

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

**ENERGY AUDIT REPORT**  
**PAVANATMA COLLEGE**  
**MURICKASSERY**

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**Energy Audit Report**  
**Pavanatma College, Murickassery**  
**Report No: EA 1066**  
**2023 September**



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. Ottotractions is an ISO 9001-2015, ISO 17020-2012 and ISO 14001-2015 Certified organization, which ensures the quality of its services.

## Acknowledgment

We were privileged to work together with the administration and staff of Pavanatma College, Murickassery. We are grateful to them for the 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.

For OTTOTRACTIONS

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

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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)  
BUREAU OF ENERGY EFFICIENCY  
GOVERNMENT OF INDIA

Executive Summary					
Consolidated Cost Benefit Analysis of Energy Efficiency Improvement Projects					
Pavanatma College Murickassery					
SI No	Projects	Investment	Cost saving	SPB	Energy saved
		(Lakhs Rs)	(Rs)/Yr	Months	kWh/Yr
1	Energy Saving in Lighting by replacing existing 3 No's T8 (40W) Lamps to 18W LED Tube	0.01	0.008	13.90	63
2	Energy Saving in Lighting by replacing existing 3 No's CFL(15W) Lamps to 9W LED Bulb	0.003	0.002	20.39	13
3	Energy Saving by replacing existing 190 No's in-efficient ceiling fans with Energy Efficient Five star fans	5.70	0.438	156.06	3575
4	Installation of 10kWp Solar Power Plant	5.50	1.820	36.26	13688
	<b>Total</b>	<b>11.21</b>	<b>2.27</b>	<b>56.65</b>	<b>17339</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.)					



# 1

## Introduction

A detailed energy audit has been carried out at Pavanatma College, Murickassery by OTTOTRACTIONS in September 2023. During the energy audit energy saving opportunities has been identified to help improving energy efficiency of the facility. OTTOTRACTIONS is an Accredited Energy Auditor of Bureau of Energy Efficiency and Empaneled Energy Auditor of Energy Management Centre, Government of Kerala.

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

Nestled on a hillock, **Pavanatma College**, the beacon of knowledge, evokes mingled feelings of pride and hope in the passers-by. Surrounded by hills and foregrounded by coconut trees, the college affords a picturesque view, beckoning young minds to make intellectual pursuits by utilizing its tranquil ambience..

**NAAC Reaccredited A Grade College**, located at Murickassery, about 15 kms away from Idukki en route to Thopramkudy, in Vathikudy Panchayath, Udumbanchola Taluk, Idukki District. Pavanatma is affiliated to Mahatma Gandhi University, Kottayam. It was established in 1982



The Management was transferred to the Diocese of Idukki in the year 2005 followed by the bifurcation of the Kothamangalam Diocese. At present His Excellency Mar. John Nellikunnel, Bishop of Idukki is the Patron of the College. Under the efficient guidance of the corporate Educational Agency, Idukki, the College marches forward along the path of progress with 9 UG and 5 PG Programmes.

<b>Occupancy Details</b>	
Particulars	2022-23
Total Students	997
Staffs	84
Total Occupancy of the college	1081

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. Jomon J S, Project Engineer
5. Amrutha A M, Data Analyst
6. Anjana B S, Project Assistant

# 2

## Process description

The energy audit has been carried out at Pavanatma College, Murickassery. The following is the baseline data of this building.

BASELINE DATA SHEET FOR GREEN AUDIT							
1	Name of the Organisation	Pavanatma College Murickassery					
2	Address (include telephone, fax & e-mail )	Pavanatma College Murickassery, 685604 Idukki, Kerala , India pavanatmacollegem@gmail.com Ph. No 04868-263-235,04868-263-235					
2	Year of Establishment	1982					
3	Name of building and Total No. of Electrical Connections/building	Pavanatma College (7)					
4	Total Number of Students	Boys	494	Girls	503	Total	997
5	Total Number of Staff	84					
6	Total Occupancy	1081					
7	Total area of green cover	70%					
8	Type of Electrical Connection	HT	0	LT	7		
9	Total Connected Load (kW)	189					
10	Average Maximum Demand (KVA)	-					
11	Total built up area of the building (M <sup>2</sup> )	10357.03					
12	Number of Buildings	6					
13	Average system Power Factor	0.99					
14	Details of capacitors connected	Nil					
15	Transformer Details (Nos., kVA, Voltage ratio)	TR 1					
		0					
15	DG Set Details (kVA, )	DG1	DG2	DG3	DG4	DG5	Remarks
		62.5					
16	Details of motors	Rating		Nos.		Remarks	
		5 to 10					
		10 to 50		3			
		Above 50					

# 3

## Energy and utility system description

### 3.1.1 Electricity

Electricity is purchased from KSEB under Seven LT Connections, the details are given below. A 62.5 kVA Diesel Generator are in operation at this campus

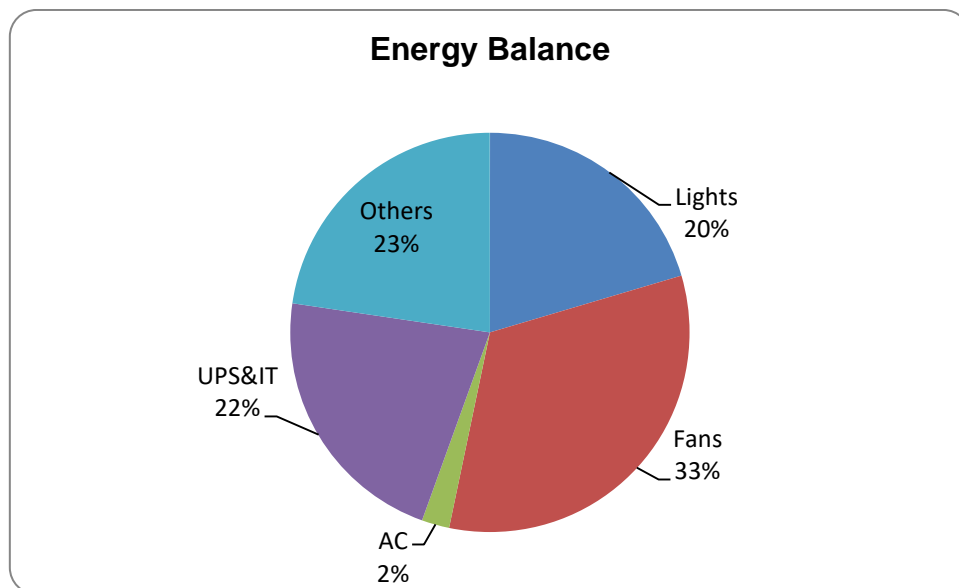
Electricity Connection Details		
Pavanatma College Murickassery		
1	Name of the Consumer	Pavanatma College Murickassery
2	Tariff	LT-6A/Three, LT-7A/Three, LT-6A/Three, LT-6A/Single, LT-6A Ndom, LT-6B/single, LT-6F/Three
3	Consumer Numbers	1157110000001, 1157117010513 1157112015364, 1157110004561, 1166393000082, 1157114004596, 1157119013930
5	Connected Load Total (kW)	189
6	Annual Electricity Consumption (kWh)	36233

### 3.2. Thermal Energy / Transportation

No bus is operated from college for transportation. LPG is used for cooking in the canteen and diesel is used to operate Diesel Generators.

# 4

## Energy Balance



33 % of the total energy consumed in this facility is used to operate Fans. Lighting uses 20% UPS and IT Uses 22%. Others uses 23% and 2% AC.

# 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 **12.26 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.

## Electricity Consumption

<b>Electricity Bill Details (2022-23)</b>						
Name of the Consumer		<b>PAVANATMA COLLEGE,MURICKASSERY</b>				
Connected Load (kW)		<b>46</b>	Consumer no		<b>115711000001</b>	
Tariff		<b>LT-6A/Three</b>		Section	<b>Murikkassery</b>	
Month	kWh	Fixed charge (Rs)	Energy charge (Rs)	Duty (Rs)	Meter rent (Rs)	Total amount to be paid (Rs)
Apr-22	1364	2990	8866	887	15	12760
May-22	989	2990	6429	643	15	10079
Jun-22	781	2990	5077	508	15	8592
Jul-22	1027	3036	6706	671	15	10431
Aug-22	1082	3220	7195	720	15	11153
Sep-22	1123	3220	7468	747	15	11452
Oct-22	1034	3220	6876	688	15	10801
Nov-22	1187	3220	7894	789	15	11921
Dec-22	1268	3220	8432	843	15	12513
Jan-23	1198	3220	7967	797	15	12001
Feb-23	1057	3220	7029	703	15	10973
Mar-23	873	3220	5805	581	15	9702

<b>Electricity Bill Details (2022-23)</b>						
Name of the Consumer		<b>PAVANATMA COLLEGE,MURICKASSERY</b>				
Connected Load (kW)		<b>89</b>	Consumer no		<b>1157117010513</b>	
Tariff		<b>LT-7A/Three</b>		Section	<b>Murikkassery</b>	
Month	kWh	Fixed charge (Rs)	Energy charge (Rs)	Duty (Rs)	Meter rent (Rs)	Total amount to be paid(Rs)
May-22	493	2520	3648	365	30	6568
Jul-22	535	2682	3983	398	30	7099
Sep-22	678	2880	5526	431	30	8994
Nov-22	602	2880	4906	491	30	8312
Jan-23	680	2880	5542	554	30	9012
Mar-23	728	2880	5933	593	30	9500

<b>Electricity Bill Details (2022-23)</b>						
Name of the Consumer		<b>PAVANATMA COLLEGE, MURICKASSERY</b>				
Connected Load (kW)		<b>30</b>	Consumer no		<b>1157112015364</b>	
Tariff		<b>LT-6A/Three</b>		Section	<b>Murikkassery</b>	
Month	kWh	Fixed charge (Rs)	Energy charge (Rs)	Duty (Rs)	Meter rent (Rs)	Total amount to be paid (Rs)
Apr-22			0	0		0
Jun-22			0	0		0
Aug-22			0	0		0
Oct-22			0	0		0
Nov-22	0	261.33	0	0	30	278
Jan-23	217	560	1259	126	30	1980
Mar-23	0	560	0	0	30	595

<b>Electricity Bill Details (2022-23)</b>						
Name of the Consumer		<b>PAVANATMA COLLEGE, MURICKASSERY</b>				
Connected Load (kW)		<b>1</b>	Consumer no		<b>1157110004561</b>	
Tariff		<b>LT-6A/Single</b>		Section	<b>Murikkassery</b>	
Month	kWh	Fixed charge (Rs)	Energy charge (Rs)	Duty (Rs)	Meter rent (Rs)	Total amount to be paid (Rs)
May-22	0	130	0	0	12	144
Jul-22	0	134.5	0	0	12	149
Sep-22	0	140	0	0	12	154
Nov-22	0	140	0	0	12	154
Jan-23	55	140	319	32	12	505
Mar-23	59	140	342	34	12	535



<b>Electricity Bill Details (2022-23)</b>						
Name of the Consumer		<b>PAVANATMA COLLEGE, MURICKASSERY</b>				
Connected Load (kW)		<b>2</b>	Consumer no		<b>1166393000082</b>	
Tariff		<b>LT-6A Ndom</b>		Section	<b>Murikkassery</b>	
Month	kWh	Fixed charge (Rs)	Energy charge (Rs)	Duty (Rs)	Meter rent (Rs)	Total amount to be paid (Rs)
Apr-22	0	120	0	0	17.7	138
Jun-22	1	120	5	1	17.7	143
Aug-22	0	120	0	0	17.7	138
Oct-22	0	120	0	0	17.7	138
Dec-22	0	120	0	0	17.7	138
Feb-23	0	120	0	0	17.7	138

<b>Electricity Bill Details (2022-23)</b>						
Name of the Consumer		<b>PAVANATMA COLLEGE, MURICKASSERY</b>				
Connected Load (kW)		<b>5</b>	Consumer no		<b>1157114004596</b>	
Tariff		<b>LT-6B/Single</b>		Section	<b>Murikkassery</b>	
Month	kWh	Fixed charge (Rs)	Energy charge (Rs)	Duty (Rs)	Meter rent (Rs)	Total amount to be paid (Rs)
May-22	1086	800	7602	760	12	9176
Jul-22	939	845	6000	600	12	7459
Sep-22	1061	900	7586	759	12	9259
Nov-22	1125	900	8044	804	12	9762
Jan-23	1218	900	8709	871	12	10494
Mar-23	1476	900	10553	1055	12	12640

<b>Electricity Bill Details (2022-23)</b>						
Name of the Consumer		<b>PAVANATMA COLLEGE, MURICKASSERY</b>				
Connected Load (kW)		<b>16</b>	Consumer no		<b>1157119013930</b>	
Tariff		<b>LT-6F/Three</b>		Section	<b>Murikkassery</b>	
Month	kWh	Fixed charge (Rs)	Energy charge (Rs)	Duty (Rs)	Meter rent (Rs)	Total amount to be paid (Rs)
Apr-22	1334	2380	12006	1201	15	15604
May-22	1123	2380	10107	1011	15	10107
Jun-22	760	2380	6840	684	15	9922
Jul-22	994	2482	8996	900	15	12395
Aug-22	1016	2890	9398	940	15	13246
Sep-22	1055	2890	9759	976	15	13642
Oct-22	958	2890	8862	886	15	12655
Nov-22	1281	2890	11849	1185	15	15942
Dec-22	1331	2890	12312	1231	15	16451
Jan-23	1890	2890	17483	1748	15	22138
Feb-23	1076	2890	9953	995	15	13859
Mar-23	805	2890	7446	745	15	11171

<b>Annual Electricity Consumption (kWh)</b>		
Consumer No	2022-23	Connected Load (kW)
1157110000001	12983	46
1157117010513	3716	89
1157112015364	72	30
1157110004561	19	1
1166393000082	1	2
1157114004596	5819	5
1157119013930	13623	16
<b>TOTAL</b>	<b>36233</b>	<b>189</b>

## Diesel

The campus has a Diesel Generator. The details of Diesel consumption are given below.

Diesel Consumption Details				
	Transportation	Generator	Total	cost
	in L	in L	in L	in Rs
22-23	0	63.67	64	6187

Base Line Energy Data		
Pavanatma College Murickassery		
		2022-23
1	Electricity KSEB (kWh)	36233
2	Electricity DG (kWh)	191
3	Electricity Solar , Off grid (kWh)	3833
4	Electricity (KSEB + DG + Off grid) kWh	40257
5	Electricity Grid Tied (kWh)	12775
6	Diesel (L)	63.7
7	LPG (kg)	4104.00
8	Biogas generated/year (kg)	330.00

Energy Consumption Profile		
SI No	Fuel	2022-23 kCal
1	Electricity	34620879
2	Diesel	668511
3	LPG	49248000
4	Biogas	1540000
Total		86077390

## Solar Power Plant

Solar Power Plant	
Capacity (kWp)	2022-23
	Annual generation (kWh)
10	12775
1	1278
1	1278
Total kWh	15330

## Lighting

Sl.No	Building	Location	Lights										
			LED-T	LED-T 2Ft	LED-B	LED-B (20W)	LED-B (5W)	LED-SQ	LED(200W)	LED(300W)	T8	CFL	
1	Rusa Funded Building	Animation And Graphics Design-1	15										
2		Office		1									
3		Corridor	6										
4		Corridor	3				12						
5		Lab	3										
6		Hall-1	12										
7		Toilet	2										
8	Ladies Hostel-1	Office			1								
9		Corridor			8								
10		Kitchen	1		2	1							
11		Dining Hall			10								
12		Room*20			40								
13		Study Hall	3		2								
14		Corridor	2		2								
15	Ladies Hostel-2	Dining Hall	1		4								
16		Kitchen	1		5								
17		Room*7			14								

18	Main Building	Classroom	3										3
19		Guest Room	1										
20		Warden Room	1		2								
21		Teacher's Room	1										
22		Prayer Hall	1										1
23		Bursar				2							
24		Canteen	6										
25		Office	6										
26		Principal											
27		Corridor			8								
28		Mathematics Class-1	1										
29		Mathematics Class-2	1										
30		Mathematics Class-3	1										
31		Maths Department	1		1								
32		Seminar Hall					8						
33		Computer Department	5										
34		Chemistry Lab(U G)	8										
35		Chemistry Lab(P G)	8										
36		Exam Store	4										
37		Economics Class*3	6										
38		Exam Hall	4										
39		Economics Research Dept.	1		1								
40		Commerce Class	2										
41		M Com -1			2								
42		B Com-2			1								
43		B Com-1			1								
44		Department Of English			2								
45		English-1	1										
46		English-2	1										
47		English-3			1								
48		Class	1		1								
49		Malayalam Department			4								
50		Malayalam -1	1										
51		Malayalam -2			1								
52		Malayalam -3			1								
53		Department Of History	3										
54		History-1	1										
55		History-2	1										
56		History-3	1										
57		IQAC											
58		Malayalam-1	2										1
59		M Com-1	1										
60		Ma History			2								
61		B Voc Accountancy 3											
62		Ma History-2			1								
63	Msc Maths-1			2									

64	Ma Malayalam-2			1								
65	Media Room			3								
66	Department Of Bvoc											
67	Bvoc Accounting-1			2								
68	Hall					50						
69	Auditorium	5						12	13			
70	Fitness Centre	4										
71	Quarters*5	5										
72	Library			4		52						
73	Physics Lab	12		1								
74	Physics-1			1								
75	Physics-2										1	
76	Physics-3											
77	Msc Chemistry*3			12								
78	Chemistry-1	2		2								
79	Visitor's Room	2										
	<b>Total</b>	<b>153</b>	<b>1</b>	<b>145</b>	<b>3</b>	<b>62</b>	<b>60</b>	<b>12</b>	<b>13</b>	<b>3</b>	<b>3</b>	

## Lux Measurement

SI.No	Floor	Location	Avg
1	Rusa Funded Building	Office	112
2	Main Building	Lab	123
3		Bursar	123
4		Canteen	80
5		Office	123
6		Principal	80
7		Maths Department	164
8		Seminar Hall	153
9		Computer Department	159
10		Chemistry Lab(U G)	164
11		Chemistry Lab(P G)	99
12		Exam Store	88
13		Exam Hall	123
14		Economics Research Dept.	97
15		Commerce Class	134
16		Department Of English	123
17		Class	125
18		Malayalam Department	133

19		Department Of History	111
20		IQAC	124
21		Ma History	126
22		Media Room	125
23		Department Of Bvoc	123
24		Bvoc Accounting-1	123
25		Hall	125
26		Auditorium	133
27		Fitness Centre	111
28		Library	124
29		Physics Lab	126
30		Visitor's Room	125



# 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		
Pavanatma College Murickassery		
Energy Performance Index (EPI)		
SI No	Particulars	2022-23
1	Total building area (m <sup>2</sup> )	10357.03
2	Annual Energy Consumption (kCal)	86077390
3	Annual Energy Consumption (kWh)	100090
4	Total Energy in Toe	8.61
5	Specific Energy Consumption kWh/m <sup>2</sup>	9.66

The Energy Performance Index (EPI) is

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

The EPI of 2022-23 may be taken as benchmark.

# 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.

**PAVANATMA COLLEGE,  
MURICKASSERY**

**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
- Installed Solar Street Lights in the campus and Hostels
- Conducted Energy Conservation Training Programs
- Installed 10kWp Solar power plant in the campus and 2kWp in both Ladies Hostels

# 8

## Energy Conservation Measures and Recommendations

Executive Summary					
Consolidated Cost Benefit Analysis of Energy Efficiency Improvement Projects					
Pavanatma College Murickassery					
SI No	Projects	Investment	Cost saving	SPB	Energy saved
		(Lakhs Rs)	(Rs)/Yr	Months	kWh/Yr
1	Energy Saving in Lighting by replacing existing 3 No's T8 (40W) Lamps to 18W LED Tube	0.01	0.008	13.90	63
2	Energy Saving in Lighting by replacing existing 3 No's CFL(15W) Lamps to 9W LED Bulb	0.003	0.002	20.39	13
3	Energy Saving by replacing existing 190 No's in-efficient ceiling fans with Energy Efficient Five star fans	5.70	0.438	156.06	3575
4	Installation of 10kWp Solar Power Plant	5.50	1.820	36.26	13688
	<b>Total</b>	<b>11.21</b>	<b>2.27</b>	<b>56.65</b>	<b>17339</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	
<b>Energy Saving in Lighting by replacing existing 3 No's T8 (40W) Lamps to 18W LED Tube</b>	
<b>Existing Scenario</b>	
3 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)	2400
No of fittings	3
Total load (kW)	0.12
Annual Energy Consumption (kWh)	115
Expected Annual Energy saving for replacing all fittings (kWh)	63
Cost of Power	12.26
Annual saving in Lakhs Rs (1st year)	0.01
Investment required for complete replacements [@Rs 300 per fittings](Lakhs Rs)	0.01
Simple Pay Back (in Months)	13.90

OTTOTRACTIONS- ENERGY AUDIT	
Energy Saving Proposal 2	
Energy Saving by replacing existing 190 No's in-efficient ceiling fans with Energy Efficient Five star fans	
<b>Existing Scenario</b>	
There are 190 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 30% with higher service value (air delivery/watt).	
<b>Financial Analysis</b>	
Annual working hours (hrs)	2400
Total numbers of ordinary fans	190
Total load (kW)	13.30
Annual Energy Consumption (kWh)	12768
Expected Annual Energy saving, for total replacement(kWh)	3575
Cost of Power (Rs)	12.26
Annual saving in Lakhs Rs (1st year)	0.44
Investment required for a total replacement (Lakhs Rs)[@3000 Rs per Fan with 50W at full speed]	5.70
Simple Pay Back (in Months)	156.06

OTTOTRACTIONS- ENERGY AUDIT	
Energy Saving Proposal 3	
<b>Energy Saving in Lighting by replacing existing 3 No's CFL(15W) Lamps to 9W LED Bulb</b>	
<b>Existing Scenario</b>	
24 numbers of CFL (15W) 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 CFL may be replaced to LED Bulb of 9W in phased manner and the savings will be of 40% (inclusive of improved light output and reduced energy consumption)	
<b>Financial Analysis</b>	
Annual working hours (hr)	2400
No of fittings	3
Total load (kW)	0.05
Annual Energy Consumption (kWh)	32
Expected Annual Energy saving for replacing all fittings (kWh)	13
Cost of Power	12.26
Annual saving in Lakhs Rs (1st year)	0.002
Investment required for complete replacements [@Rs 90 per fittings](Lakhs Rs)	0.003
Simple Pay Back (in Months)	20.39



Energy Saving Proposal	
<b>Installation of 10kWp Solar Power Plant</b>	
<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 have a Solar Power Plant of 10kW at the beginning stage. 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)	10
Total average kWh per day expected (3.5kWh/day average)	37.50
Total annual Generating Capacity (kWh)	13688
Cost of energy generated annually Lakhs Rs	1.82
Investment required (INR lakh)(Approx)	5.50
Simple Pay Back (in Months)	36.26
Life cycle in Yrs	25
Total Saving in Life Cycle (Approx) RS lakh	45.51

## Technical Supplements

Sl. No	Building	Location	Lights									Fans				IT				UPS				A C				Others													
			LED-T	LED-T 2Ft	LED-B	LED-B (20W)	LED-B (5W)	LED-SQ	LED(200W)	LED(300W)	T8	CFL	CF	WF	EF	PF	Printer	Photostat	Projector	PC	4kVA	3kVA	2.5kVA	3.6kVA	1 TR	PA	Water Dispenser	OVEN	TV	Fridge	MIXER	Grinder	Electric Kettle								
1	Rusa Funded Building	Animation And Graphics Design-1	1	5							1	2																							3						
2		Office		1											1			1																							
3		Corridor	6																							1															
4		Corridor	3				1	2																																	
5		Lab	3								3		1																												
6		Hall-1	1								1						1																								
7		Toilet	2																																						
8	Ladies Hostel-1	Office			1						1							1																							
9		Corridor			8																																				
10		Kitchen	1		2	1						2																													
11		Dining Hall			1						8																														
12		Room*20			4						2																														







**KERALA STATE ELECTRICITY BOARD LIMITED**  
**DEMAND CUM DISCONNECTION NOTICE**

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

Section	[5711]-Electrical Section Murikkassery	Phone#	0486-8263820	Customer Care	1912																																																																																																																								
Consumer#	1157110004561	Reg. Mob# 701xxxx107	Regular CC Bill	KSEBL GSTIN: 32AAECK2277NBZ1																																																																																																																									
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FR. VICAR PAVANATHMA CHURCH, MURIKASSERY		<b>South:</b> Chairperson,CGRF(South),KSEBL,Vydyuthi Bhavanam, Kottarakkara-691506, Ph:0474-2451300 <b>Central:</b> Chairperson,CGRF(Central),KSEBL,220KV SubStation,Kalamassery-683503,Ph:0484-2556500 <b>North:</b> Chairperson,CGRF(North),KSEBL,Vydyuthi Bhavanam,Gandhi Rd.,Kozhikode-673011,Ph:0495-2367820 <b>State Electricity Ombudsman,D.H.Rd &amp; Foreshore Rd Jn.,Near GandhiSquare,Ernakulam-682016,Ph:0484-2346488</b>																																																																																																																											
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Contract Demand	(Nil) VA [75% : 0KV, 130% : 0KV]	Connected Load	980 Watts	Security Deposit	Rs.444.00																																																																																																																								
Meter#	L&T10/170071395495	Average consumption(Monthly)																																																																																																																											
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Meter Type/Owner	LCD/KSEB	KWH	9																																																																																																																										
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KWH	Cumulative	Import	1047.00	1106.00	1	59																																																																																																																							
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<b>Fuel Surcharge[FS] @9 Ps./Unit</b> <b>(Vide Order dt. 25-01-2023)</b> <b>Last Paid Amount - Rs.469.00</b> <b>Last Payment Date - 09-08-2023</b> <b>Payable amt.(excluding ACD) as on 2023-03-25 01:38:30:Rs.539/-</b>			<table border="1"> <tr> <td></td> <td></td> <td>[INR] Amount(Rs.)</td> </tr> <tr> <td>a)</td> <td>Fixed Charges</td> <td>Fixed Charge[FC]</td> </tr> <tr> <td></td> <td></td> <td>140.00</td> </tr> <tr> <td></td> <td></td> <td>Sub Total</td> </tr> <tr> <td></td> <td></td> <td>140.00</td> </tr> <tr> <td>b)</td> <td>Energy Charges</td> <td>Energy Charge[EC]</td> </tr> <tr> <td></td> <td></td> <td>342.20</td> </tr> <tr> <td></td> <td></td> <td>Fuel Surcharge[FS]</td> </tr> <tr> <td></td> <td></td> <td>4.69</td> </tr> <tr> <td></td> <td></td> <td>Sub Total</td> </tr> <tr> <td></td> <td></td> <td>346.89</td> </tr> <tr> <td>c)</td> <td>Other Charges</td> <td>Electricity Duty[ED]</td> </tr> <tr> <td></td> <td></td> <td>34.22</td> </tr> <tr> <td></td> <td></td> <td>Meter Rent[MR]</td> </tr> <tr> <td></td> <td></td> <td>12.00</td> </tr> <tr> <td></td> <td></td> <td>Sub Total</td> </tr> <tr> <td></td> <td></td> <td>46.22</td> </tr> <tr> <td>d)</td> <td>GST</td> <td>MR-CGST</td> </tr> <tr> <td></td> <td></td> <td>1.08</td> </tr> <tr> <td></td> <td></td> <td>MR-SGST</td> </tr> <tr> <td></td> <td></td> <td>1.08</td> </tr> <tr> <td></td> <td></td> <td>Sub Total</td> </tr> <tr> <td></td> <td></td> <td>2.16</td> </tr> <tr> <td>e)</td> <td>Round Off</td> <td></td> </tr> <tr> <td></td> <td></td> <td>-0.27</td> </tr> <tr> <td>e)</td> <td><b>Total Amt.(Bill#5711230310039)</b></td> <td><b>(a+b+c+d+e)</b></td> </tr> <tr> <td></td> <td></td> <td><b>535.00</b></td> </tr> <tr> <td>f)</td> <td>Surcharge</td> <td></td> </tr> <tr> <td></td> <td></td> <td>4.00</td> </tr> <tr> <td>g)</td> <td>Reconnection Fee</td> <td></td> </tr> <tr> <td></td> <td></td> <td>0.00</td> </tr> <tr> <td>h)</td> <td>Interim Bills</td> <td></td> </tr> <tr> <td></td> <td></td> <td>0.00</td> </tr> <tr> <td>i)</td> <td>Arrears</td> <td></td> </tr> <tr> <td></td> <td></td> <td>0.00</td> </tr> <tr> <td>j)</td> <td>Less paid/adj.</td> <td></td> </tr> <tr> <td></td> <td></td> <td>-539.00</td> </tr> <tr> <td>k)</td> <td>Less Advance</td> <td></td> </tr> <tr> <td></td> <td></td> <td>-0.00</td> </tr> <tr> <td></td> <td><b>Net Payable(e+f+g+h+i-j-k)</b></td> <td><b>0.00</b></td> </tr> </table>					[INR] Amount(Rs.)	a)	Fixed Charges	Fixed Charge[FC]			140.00			Sub Total			140.00	b)	Energy Charges	Energy Charge[EC]			342.20			Fuel Surcharge[FS]			4.69			Sub Total			346.89	c)	Other Charges	Electricity Duty[ED]			34.22			Meter Rent[MR]			12.00			Sub Total			46.22	d)	GST	MR-CGST			1.08			MR-SGST			1.08			Sub Total			2.16	e)	Round Off				-0.27	e)	<b>Total Amt.(Bill#5711230310039)</b>	<b>(a+b+c+d+e)</b>			<b>535.00</b>	f)	Surcharge				4.00	g)	Reconnection Fee				0.00	h)	Interim Bills				0.00	i)	Arrears				0.00	j)	Less paid/adj.				-539.00	k)	Less Advance				-0.00		<b>Net Payable(e+f+g+h+i-j-k)</b>	<b>0.00</b>
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Demand for 3/2023 is Rupees Five Hundred and Thirty 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	[5711]-Electrical Section Murikkassery	Phone#	0486-8263820	Customer Care	1912	
Consumer#	1157110000001	Reg. Mob# 701xxxx107	Regular CC Bill	KSEBL GSTIN: 32AAECK2277NBZ1		
Name & Mailing Address		<b>For redressing complaints/grievance approach the concerned CGRF</b>				
FR MATHEW THECKAKARA PAVANATHMA COLLEGE, MURICKASSERY, MURICKASSERY		South: Chairperson,CGRF(South),KSEBL,Vydyuthi Bhavanam, Kottarakkara-691506, Ph:0474-2451300				
Y		Central: Chairperson,CGRF(Central),KSEBL,220KV SubStation,Kalamassery-683503,Ph:0484-2556500				
		North: Chairperson,CGRF(North),KSEBL,Vydyuthi Bhavanam,Gandhi Rd.,Kozhikode-673011,Ph:0495-2367820				
		State Electricity Ombudsman,D.H.Rd & Foreshore Rd Jn.,Near GandhiSquare,Ernakulam-682016,Ph:0484-2346488				
Bill#	5711230300043	Bill Area	M01/1	DTR	MURICKASSERY ALPHONSA	
Billing Period	3/2023[Monthly]	Tariff/Phase	LT-6A/Three	Pole#	(TR.4)	
Bill Date	01-03-2023	Due Date	13-03-2023	DC Date	28-03-2023	
Contract Demand	(Nil) VA [75% : 0KV, 130% : 0KV]	Connected Load	45750 Watts	Security Deposit	Rs.46000.00	
Meter#	L&T005180018288972	Average consumption(Monthly)				
Meter Digits	6.2	Power Unit/Zone	CUMULATIVE			
Meter Type/Owner	TOD/KSEB	KWH	1174			
Last Billed Rdg. Date	Prev. Rdg. Date	Prev. Meter Rdg. Status	Prst. Rdg. Date	Prst. Meter Rdg. Status		
01-02-2023	01-02-2023	Working	01-03-2023	Working		
Power Unit	Zone	Trading	Initial Reading(IR)	Final Reading(FR)	OMF	Units*
KWH	Cumulative	Import	63082.00	63955.00	1	873
<b>Remarks :</b>			<b>Bill Details</b>			
Fuel Surcharge[FS] @9 Ps./Unit (Vide Order dt. 25-01-2023)			[INR] Amount(Rs.)			
Last Paid Amount - Rs.9474.00			a) Fixed Charges	Fixed Charge[FC]	3220.00	
Last Payment Date - 07-09-2023				Sub Total	3220.00	
Payable amt.(excluding ACD) as on 2023-03-01 20:01:57:Rs.9702/-			b) Energy Charges	Energy Charge[EC]	5805.45	
				Fuel Surcharge[FS]	78.57	
				Sub Total	5884.02	
			c) Other Charges	Electricity Duty[ED]	580.55	
				Meter Rent[MR]	15.00	
				Sub Total	595.55	
			d) GST	MR-CGST	1.35	
				MR-SGST	1.35	
				Sub Total	2.70	
			e) Round Off		-0.27	
			e) Total Amt.(Bill#5711230300043)	(a+b+c+d+e)	9702.00	
			f) Surcharge		0.00	
			g) Reconnection Fee		0.00	
			h) Interim Bills		0.00	
			i) Arrears		0.00	
			j) Less paid/adj.		-9702.00	
			k) Less Advance		-0.00	
			<b>Net Payable(e+f+g+h+i-j-k)</b>		<b>0.00</b>	
Demand for 3/2023 is Rupees Nine Thousand Seven Hundred and 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

**KERALA STATE ELECTRICITY BOARD LIMITED**  
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(As per Regulation 122 & 123 of Kerala Electricity Supply Code 2014)

Section	[5711]-Electrical Section Murikkassery	Phone#	0486-8263820	Customer Care	1912																																																																																				
Consumer#	1157114004596	Reg. Mob# 701xxxx107	Regular CC Bill	KSEBL GSTIN: 32AAECK2277NBZ1																																																																																					
Name & Mailing Address		<b>For redressing complaints/grievance approach the concerned CGRF</b>																																																																																							
THE MANAGER PAVANATHMA COLLEGE, MURICKASSERY		<b>South:</b> Chairperson,CGRF(South),KSEBL,Vydyuthi Bhavanam, Kottarakkara-691506, Ph:0474-2451300 <b>Central:</b> Chairperson,CGRF(Central),KSEBL,220KV SubStation,Kalamassery-683503,Ph:0484-2556500 <b>North:</b> Chairperson,CGRF(North),KSEBL,Vydyuthi Bhavanam,Gandhi Rd.,Kozhikode-673011,Ph:0495-2367820 <b>State Electricity Ombudsman,D.H.Rd &amp; Foreshore Rd Jn.,Near GandhiSquare,Ernakulam-682016,Ph:0484-2346488</b>																																																																																							
Bill#	5711230310056	Bill Area	A04/18	DTR	THIRD BLOCK																																																																																				
Billing Period	3/2023[Bi-Monthly]	Tariff/Phase	LT-6B/Single	Pole#	12																																																																																				
Bill Date	25-03-2023	Due Date	04-04-2023	DC Date	19-04-2023																																																																																				
Contract Demand	(Nil) VA [75% : 0KV, 130% : 0KV]	Connected Load	5000 Watts	Security Deposit	Rs.15279.00																																																																																				
Meter#	L&T5711M0045751429	Average consumption(Monthly)																																																																																							
Meter Digits	5.1	Power Unit/Zone	CUMULATIVE																																																																																						
Meter Type/Owner	Static/KSEB	KWH	567																																																																																						
Last Billed Rdg. Date	Prev. Rdg. Date	Prev. Meter Rdg. Status	Prst. Rdg. Date	Prst. Meter Rdg. Status																																																																																					
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Power Unit	Zone	Trading	Initial Reading(IR)	Final Reading(FR)	OMF	Units*																																																																																			
KWH	Cumulative	Import	34551.00	36027.00	1	1476																																																																																			
<b>Remarks :</b>			<b>Bill Details</b>																																																																																						
<b>Fuel Surcharge[FS] @9 Ps./Unit</b> <b>(Vide Order dt. 25-01-2023)</b> <b>Last Paid Amount - Rs.8584.00</b> <b>Last Payment Date - 05-08-2023</b> <b>Payable amt.(excluding ACD) as on 2023-03-25 01:38:21:Rs.12636/-</b>			<table border="1"> <tr> <td></td> <td></td> <td></td> <td>[INR] Amount(Rs.)</td> </tr> <tr> <td>a)</td> <td>Fixed Charges</td> <td>Fixed Charge[FC]</td> <td>900.00</td> </tr> <tr> <td></td> <td></td> <td>Sub Total</td> <td><b>900.00</b></td> </tr> <tr> <td>b)</td> <td>Energy Charges</td> <td>Energy Charge[EC]</td> <td>10553.40</td> </tr> <tr> <td></td> <td></td> <td>Fuel Surcharge[FS]</td> <td>117.34</td> </tr> <tr> <td></td> <td></td> <td>Sub Total</td> <td><b>10670.74</b></td> </tr> <tr> <td>c)</td> <td>Other Charges</td> <td>Electricity Duty[ED]</td> <td>1055.34</td> </tr> <tr> <td></td> <td></td> <td>Meter Rent[MR]</td> <td>12.00</td> </tr> <tr> <td></td> <td></td> <td>Sub Total</td> <td><b>1067.34</b></td> </tr> <tr> <td>d)</td> <td>GST</td> <td>MR-CGST</td> <td>1.08</td> </tr> <tr> <td></td> <td></td> <td>MR-SGST</td> <td>1.08</td> </tr> <tr> <td></td> <td></td> <td>Sub Total</td> <td><b>2.16</b></td> </tr> <tr> <td>e)</td> <td>Round Off</td> <td></td> <td>-0.24</td> </tr> <tr> <td>e)</td> <td colspan="2"><b>Total Amt.(Bill#5711230310056) (a+b+c+d+e)</b></td> <td><b>12640.00</b></td> </tr> <tr> <td>f)</td> <td>Surcharge</td> <td></td> <td>0.00</td> </tr> <tr> <td>g)</td> <td>Reconnection Fee</td> <td></td> <td>0.00</td> </tr> <tr> <td>h)</td> <td>Interim Bills</td> <td></td> <td>0.00</td> </tr> <tr> <td>i)</td> <td>Arrears</td> <td></td> <td>0.00</td> </tr> <tr> <td>j)</td> <td>Less paid/adj.</td> <td></td> <td>-12640.00</td> </tr> <tr> <td>k)</td> <td>Less Advance</td> <td></td> <td>-0.00</td> </tr> <tr> <td></td> <td colspan="2"><b>Net Payable(e+f+g+h+i-j-k)</b></td> <td><b>0.00</b></td> </tr> </table>						[INR] Amount(Rs.)	a)	Fixed Charges	Fixed Charge[FC]	900.00			Sub Total	<b>900.00</b>	b)	Energy Charges	Energy Charge[EC]	10553.40			Fuel Surcharge[FS]	117.34			Sub Total	<b>10670.74</b>	c)	Other Charges	Electricity Duty[ED]	1055.34			Meter Rent[MR]	12.00			Sub Total	<b>1067.34</b>	d)	GST	MR-CGST	1.08			MR-SGST	1.08			Sub Total	<b>2.16</b>	e)	Round Off		-0.24	e)	<b>Total Amt.(Bill#5711230310056) (a+b+c+d+e)</b>		<b>12640.00</b>	f)	Surcharge		0.00	g)	Reconnection Fee		0.00	h)	Interim Bills		0.00	i)	Arrears		0.00	j)	Less paid/adj.		-12640.00	k)	Less Advance		-0.00		<b>Net Payable(e+f+g+h+i-j-k)</b>		<b>0.00</b>
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Demand for 3/2023 is Rupees Twelve Thousand Six Hundred and Forty 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	[5711]-Electrical Section Muriikkassery	Phone#	0486-8263820	Customer Care	1912	
Consumer#	1157117010513	Reg. Mob# 830xxxx968	Regular CC Bill	KSEBL GSTIN: 32AAECK2277NBZ1		
Name & Mailing Address		<b>For redressing complaints/grievance approach the concerned CGRF</b>				
THE DIRECTOR PAVANATHMA COLLEGE, MURIKASSERY P O, MURIKKA SEERY		<b>South:</b> Chairperson,CGRF(South),KSEBL,Vydyuthi Bhavanam, Kottarakkara-691506, Ph:0474-2451300				
		<b>Central:</b> Chairperson,CGRF(Central),KSEBL,220KV SubStation,Kalamassery-683503,Ph:0484-2556500				
		<b>North:</b> Chairperson,CGRF(North),KSEBL,Vydyuthi Bhavanam,Gandhi Rd.,Kozhikode-673011,Ph:0495-2367820				
		<b>State Electricity Ombudsman,D.H.Rd &amp; Foreshore Rd Jn.,Near GandhiSquare,Ernakulam-682016,Ph:0484-2346488</b>				
Bill#	5711230310055	Bill Area	A04/18	DTR	THIRD BLOCK	
Billing Period	3/2023[Bi-Monthly]	Tariff/Phase	LT-7A/Three	Pole#	12	
Bill Date	25-03-2023	Due Date	04-04-2023	DC Date	19-04-2023	
Contract Demand	(Nil) VA [75% : 0KV, 130% : 0KV]	Connected Load	8975 Watts	Security Deposit	Rs.13131.00	
Meter#	GOE000014227286***	Average consumption(Monthly)				
Meter Digits	6.2	Power Unit/Zone	CUMULATIVE			
Meter Type/Owner	TOD/KSEB	KWH	327			
Last Billed Rdg. Date	Prev. Rdg. Date	Prev. Meter Rdg. Status	Prst. Rdg. Date	Prst. Meter Rdg. Status		
20-01-2023	20-01-2023	Working	25-03-2023	Working		
Power Unit	Zone	Trading	Initial Reading(IR)	Final Reading(FR)	OMF	Units*
KWH	Cumulative	Import	17922.00	18650.00	1	728
<b>Remarks :</b>  Fuel Surcharge[FS] @9 Ps./Unit (Vide Order dt. 25-01-2023)  Last Paid Amount - Rs.9377.00 Last Payment Date - 16-08-2023 Payable amt.(excluding ACD) as on 2023-03-25 01:38:22:Rs.9500/-			<b>Bill Details</b>		<b>[INR] Amount(Rs.)</b>	
			a)	Fixed Charges	Fixed Charge[FC]	2880.00
					Sub Total	<b>2880.00</b>
			b)	Energy Charges	Energy Charge[EC]	5933.20
					Fuel Surcharge[FS]	57.88
					Sub Total	<b>5991.08</b>
			c)	Other Charges	Electricity Duty[ED]	593.32
					Meter Rent[MR]	30.00
					Sub Total	<b>623.32</b>
			d)	GST	MR-CGST	2.70
					MR-SGST	2.70
					Sub Total	<b>5.40</b>
			e)	Round Off		0.20
			f)	<b>Total Amt.(Bill#5711230310055) (a+b+c+d+e)</b>		<b>9500.00</b>
g)	Surcharge		0.00			
h)	Reconnection Fee		0.00			
i)	Interim Bills		0.00			
j)	Arrears		0.00			
k)	Less paid/adj.		-9500.00			
l)	Less Advance		-0.00			
	<b>Net Payable(f+g+h+i+j-k-l)</b>		<b>0.00</b>			
<b>Demand for 3/2023 is Rupees Nine Thousand Four Hundred and Ninety Nine 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	[5711]-Electrical Section Murikkassery	Phone#	0486-8263820	Customer Care	1912																																																																																																				
Consumer#	1157119013930	Reg. Mob# 701xxxx107	Regular CC Bill	KSEBL GSTIN: 32AAECK2277NBZ1																																																																																																					
Name & Mailing Address		<b>For redressing complaints/grievance approach the concerned CGRF</b>																																																																																																							
DIRECTOR PAVANATMA COLLEGE, 3RD BLOCK, MURICKASSERY.P. O		<b>South:</b> Chairperson,CGRF(South),KSEBL,Vydyuthi Bhavanam, Kottarakkara-691506, Ph:0474-2451300 <b>Central:</b> Chairperson,CGRF(Central),KSEBL,220KV SubStation,Kalamassery-683503,Ph:0484-2556500 <b>North:</b> Chairperson,CGRF(North),KSEBL,Vydyuthi Bhavanam,Gandhi Rd.,Kozhikode-673011,Ph:0495-2367820 <b>State Electricity Ombudsman,D.H.Rd &amp; Foreshore Rd Jn.,Near GandhiSquare,Ernakulam-682016,Ph:0484-2346488</b>																																																																																																							
Bill#	5711230300042	Bill Area	M01/1	DTR	THIRD BLOCK																																																																																																				
Billing Period	3/2023[Monthly]	Tariff/Phase	LT-6F/Three	Pole#	12																																																																																																				
Bill Date	01-03-2023	Due Date	13-03-2023	DC Date	28-03-2023																																																																																																				
Contract Demand	(Nil) VA [75% : 0KV, 130% : 0KV]	Connected Load	16100 Watts	Security Deposit	Rs.28770.00																																																																																																				
Meter#	L&T005180018288966	Average consumption(Monthly)																																																																																																							
Meter Digits	6.2	Power Unit/Zone	CUMULATIVE																																																																																																						
Meter Type/Owner	TOD/KSEB	KWH	1432																																																																																																						
Last Billed Rdg. Date	Prev. Rdg. Date	Prev. Meter Rdg. Status	Prst. Rdg. Date	Prst. Meter Rdg. Status																																																																																																					
01-02-2023	01-02-2023	Working	01-03-2023	Working																																																																																																					
Power Unit	Zone	Trading	Initial Reading(IR)	Final Reading(FR)	OMF	Units*																																																																																																			
KWH	Cumulative	Import	45621.00	46426.00	1	805																																																																																																			
<b>Remarks :</b>			<b>Bill Details</b>																																																																																																						
<b>Fuel Surcharge[FS] @9 Ps./Unit</b> <b>(Vide Order dt. 25-01-2023)</b> <b>Last Paid Amount - Rs.9230.00</b> <b>Last Payment Date - 07-09-2023</b> <b>Payable amt.(excluding ACD) as on 2023-03-01 20:01:58:Rs.11171/-</b>			<table border="1"> <tr> <td>a)</td> <td>Fixed Charges</td> <td>Fixed Charge[FC]</td> <td colspan="2">2890.00</td> </tr> <tr> <td></td> <td></td> <td>Sub Total</td> <td colspan="2"><b>2890.00</b></td> </tr> <tr> <td>b)</td> <td>Energy Charges</td> <td>Energy Charge[EC]</td> <td colspan="2">7446.25</td> </tr> <tr> <td></td> <td></td> <td>Fuel Surcharge[FS]</td> <td colspan="2">72.45</td> </tr> <tr> <td></td> <td></td> <td>Sub Total</td> <td colspan="2"><b>7518.70</b></td> </tr> <tr> <td>c)</td> <td>Other Charges</td> <td>Electricity Duty[ED]</td> <td colspan="2">744.63</td> </tr> <tr> <td></td> <td></td> <td>Meter Rent[MR]</td> <td colspan="2">15.00</td> </tr> <tr> <td></td> <td></td> <td>Sub Total</td> <td colspan="2"><b>759.63</b></td> </tr> <tr> <td>d)</td> <td>GST</td> <td>MR-CGST</td> <td colspan="2">1.35</td> </tr> <tr> <td></td> <td></td> <td>MR-SGST</td> <td colspan="2">1.35</td> </tr> <tr> <td></td> <td></td> <td>Sub Total</td> <td colspan="2"><b>2.70</b></td> </tr> <tr> <td>e)</td> <td>Round Off</td> <td></td> <td colspan="2">-0.03</td> </tr> <tr> <td>e)</td> <td colspan="2">Total Amt.(Bill#5711230300042) (a+b+c+d+e)</td> <td colspan="2"><b>11171.00</b></td> </tr> <tr> <td>f)</td> <td>Surcharge</td> <td></td> <td colspan="2">0.00</td> </tr> <tr> <td>g)</td> <td>Reconnection Fee</td> <td></td> <td colspan="2">0.00</td> </tr> <tr> <td>h)</td> <td>Interim Bills</td> <td></td> <td colspan="2">0.00</td> </tr> <tr> <td>i)</td> <td>Arrears</td> <td></td> <td colspan="2">0.00</td> </tr> <tr> <td>j)</td> <td>Less paid/adj.</td> <td></td> <td colspan="2">-11171.00</td> </tr> <tr> <td>k)</td> <td>Less Advance</td> <td></td> <td colspan="2">-0.00</td> </tr> <tr> <td></td> <td colspan="2"><b>Net Payable(e+f+g+h+i-j-k)</b></td> <td colspan="2"><b>0.00</b></td> </tr> </table>			a)	Fixed Charges	Fixed Charge[FC]	2890.00				Sub Total	<b>2890.00</b>		b)	Energy Charges	Energy Charge[EC]	7446.25				Fuel Surcharge[FS]	72.45				Sub Total	<b>7518.70</b>		c)	Other Charges	Electricity Duty[ED]	744.63				Meter Rent[MR]	15.00				Sub Total	<b>759.63</b>		d)	GST	MR-CGST	1.35				MR-SGST	1.35				Sub Total	<b>2.70</b>		e)	Round Off		-0.03		e)	Total Amt.(Bill#5711230300042) (a+b+c+d+e)		<b>11171.00</b>		f)	Surcharge		0.00		g)	Reconnection Fee		0.00		h)	Interim Bills		0.00		i)	Arrears		0.00		j)	Less paid/adj.		-11171.00		k)	Less Advance		-0.00			<b>Net Payable(e+f+g+h+i-j-k)</b>		<b>0.00</b>	
a)	Fixed Charges	Fixed Charge[FC]	2890.00																																																																																																						
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**KERALA STATE ELECTRICITY BOARD LIMITED**  
**DEMAND CUM DISCONNECTION NOTICE**

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

Section	[5711]-Electrical Section Murikkassery	Phone#	0486-8263820	Customer Care	1912	
Consumer#	1157112015364	Reg. Mob# 701xxxx107	Regular CC Bill	KSEBL GSTIN: 32AAECK2277NBZ1		
Name & Mailing Address		<b>For redressing complaints/grievance approach the concerned CGRF</b>				
BURSAR PAVANATMA COLLEGE, MURIKASSERY		<b>South:</b> Chairperson,CGRF(South),KSEBL,Vydyuthi Bhavanam, Kottarakkara-691506, Ph:0474-2451300				
		<b>Central:</b> Chairperson,CGRF(Central),KSEBL,220KV SubStation,Kalamassery-683503,Ph:0484-2556500				
		<b>North:</b> Chairperson,CGRF(North),KSEBL,Vydyuthi Bhavanam,Gandhi Rd.,Kozhikode-673011,Ph:0495-2367820				
		<b>State Electricity Ombudsman,D.H.Rd &amp; Foreshore Rd Jn.,Near GandhiSquare,Ernakulam-682016,Ph:0484-2346488</b>				
Bill#	5711230309855	Bill Area	A04/18	DTR	THIRD BLOCK	
Billing Period	3/2023[Bi-Monthly]	Tariff/Phase	LT-6A/Three	Pole#	12	
Bill Date	25-03-2023	Due Date	04-04-2023	DC Date	19-04-2023	
Contract Demand	(Nil) VA [75% : 0KV, 130% : 0KV]	Connected Load	3010 Watts	Security Deposit	Rs.4000.00	
Meter#	SEI084090021331552	Average consumption(Monthly)				
Meter Digits	6.2	Power Unit/Zone	CUMULATIVE			
Meter Type/Owner	TOD/KSEB	KWH	54			
Last Billed Rdg. Date	Prev. Rdg. Date	Prev. Meter Rdg. Status	Prst. Rdg. Date	Prst. Meter Rdg. Status		
20-01-2023	20-01-2023	Working	25-03-2023	Working		
Power Unit	Zone	Trading	Initial Reading(IR)	Final Reading(FR)	OMF	Units*
KWH	Cumulative	Import	217.00	217.00	1	0
<b>Remarks :</b>  Fuel Surcharge[FS] @9 Ps./Unit (Vide Order dt. 25-01-2023)  Last Paid Amount - Rs.1369.00 Last Payment Date - 05-08-2023 Payable amt.(excluding ACD) as on 2023-03-25 01:40:44:Rs.595/-			<b>Bill Details</b>		<b>[INR] Amount(Rs.)</b>	
			a)	Fixed Charges	Fixed Charge[FC]	560.00
					Sub Total	<b>560.00</b>
					Sub Total	<b>0.00</b>
			c)	Other Charges	Meter Rent[MR]	30.00
					Sub Total	<b>30.00</b>
			d)	GST	MR-CGST	2.70
					MR-SGST	2.70
					Sub Total	<b>5.40</b>
			e)	Round Off		-0.40
			e)	<b>Total Amt.(Bill#5711230309855) (a+c+d+e)</b>		<b>595.00</b>
			f)	Surcharge		0.00
			g)	Reconnection Fee		0.00
			h)	Interim Bills		0.00
i)	Arrears		0.00			
j)	Less paid/adj.		-595.00			
k)	Less Advance		-0.00			
	<b>Net Payable(e+f+g+h+i-j-k)</b>		<b>0.00</b>			
<b>Demand for 3/2023 is Rupees Five Hundred and Ninety Five 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