

## **ALTERNATIVE SOURCES OF ENERGY**

### **Solar Energy**

Solar energy is the cleanest and most abundant renewable energy source available in the world. Solar power is the conversion of energy from sunlight into electrical energy through photo voltaic (PV) panels or through mirrors that concentrate solar radiation. Solar technologies can harness this energy for a variety of uses, including generating electricity, providing light or a comfortable interior environment, and heating water for domestic, commercial, or industrial use. A 5KVA solar PV power plant has been installed on the roof tops of various buildings in Wavoo Wajeeha Women's College, Kayalpatnam. This Solar power has been utilized for powering the entire administrative building. The details of the 5KVA solar PV modules are provided below.

#### **Details of 5KVA Solar Roof top**

<b>S.No.</b>	<b>Description</b>	<b>Qty</b>
<b>1</b>	<b>LivGuard 5KVA Solar MPPT UPS</b>	<b>1No.</b>
<b>2</b>	<b>LivGuard 400 W Mono perg Solar PV Panel</b>	<b>8 Nos.</b>
<b>3</b>	<b>DB, Structure, DC Cable &amp; Accessories</b>	<b>1 No.</b>
<b>4</b>	<b>Exide 6LMS100L</b>	<b>4 Nos.</b>



# WAVOO WAJEEHA WOMEN'S COLLEGE OF ARTS & SCIENCE - KAYALPATNAM

(Affiliated to Manonmaniam Sundaranar University, Tirunelveli)  
Run by Wavoo SAR Educational Trust  
(Minority Institution)

## Solar Panel



## SOLAR POWER SUPPLY REPORT

 **WAVOO WAJEEHA WOMEN'S COLLEGE  
OF ARTS & SCIENCE - KAYALPATNAM**  
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S.No	Month	Start	End	Total Units
1	December 1, 2021	0	236	236
2	January 1, 2022	237	532	295
3	February 1, 2022	533	829	296
4	March 1, 2022	830	1169	339
5	April 1, 2022	1170	1436	266
6	May 1, 2022	1437	1757	320
7	June 1, 2022	1758	2027	269
8	July 1, 2022	2028	2297	269
9	August 1, 2022	2298	2574	276
10	September 1, 2022	2575	2903	328
11	October 1, 2022	2904	3209	305
12	November 1, 2022	3210	3482	272
13	December 1, 2022	3483	3762	279
14	January 1, 2023	3763	4062	299
15	February 1, 2023	4063	4353	290
16	March 1, 2023	4354	4686	332
17	April 1, 2023	4687	4991	304
18	May 1, 2023	4992	5321	329
19	June 1, 2023	5322	5654	332
20	July 1, 2023	5655	5986	331

*Ramam*  
PRINCIPAL  
WAVOO WAJEEHA WOMEN'S COLLEGE  
OF ARTS AND SCIENCE  
Tiruchendur Road, Kayalpatnam-628 204.  
Thoothukudi Dist., Tamil Nadu.



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## LED (Power Efficient Equipment)

Power crisis is one of the most common problems in India. LED is energy saving lighting technology that has been gaining popularity in recent years. LED stands for light emitting diode, and LED bulbs are an excellent choice for lighting because they are energy efficient, long lasting and cost effective.

The Campus is installed with energy efficient LED lamps which will cover 75% of lightings of the Institution. All the existing traditional incandescent lamps are being replaced with LED lamps at the end of their life cycle. With the help of LED, we can minimize the wastage of electrical power.



Figure: 1 & 2 Management Office Room

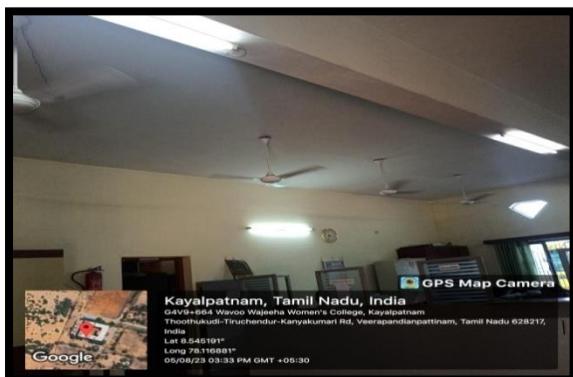


Fig:3 & 4 Main Office Room