

## Dr. Babasaheb Ambedkar Marathwada University Aurangabad

### 7.1.3 Alternate energy initiative :

Sr. NO.	Location	Capacity of the Installations	Units of Energy used from Renewable source per annum
1	CSIT solar Generation	20 kWp	23206
2	Library building Solar Generation	20 kWp	27920
3	Solar Distillation units	80 LPD	1937
4	Solar water heaters	51,000 Liters/Day	400291
5	Solar Street light 11W	11 W x 143 no.s	5710
			<b>459064</b>

Power supply type	per annum	per month	per day
3 ph Ip annual consumption	1144273.6	95356.13333	3134.996164
3 ph Regular annual consumption	567146	1553.824658	47262.16667
1 ph annual consumption	29943	2495.25	82.03561644
Total consumption per annum	<b>1741362.6</b>	<b>145113.55</b>	<b>4770.856438</b>

$$\% \text{ of renewable energy used} = \frac{459064}{1741363} = 26.36232207$$

  
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Months	CSIT generation	Library bldg generation
17-Jun	1526.5	2207.4
17-Jul	1329.14	1548.3
17-Aug	1395.32	1857.4
17-Sep	1537.55	2273.3
17-Oct	1513.16	2601
17-Nov	1639.54	2470
17-Dec	1617.01	2149
18-Jan	2109.11	2437.4
18-Feb	2192.7	2288
18-Mar	2670.75	2583.3
18-Apr	2885.11	2718
18-May	2789.73	2787
<b>Total</b>	<b>23205.62</b>	<b>27920.1</b>


  
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**Solar Water Heater Installed within campus**

Sr. No.	Location /Identification	SWHS capacity	Total capacity (Ltr.)	Date of installation
1	Boys Hostel No. 1	2000 ltr. - 2 Nos.	4000	March 2002
2	Boys Hostel No. 2	1500 ltr- 2 Nos. 500 ltr. 1 No.	3500	September 2002
3	Boys Hostel No. 3	1500 ltr. - 1 Nos.	1500	March 2002
4	Boys Hostel No. 4	1500 ltr. - 2 Nos.	3000	September 2002
5	Boys Hostel No. 5	2000 ltr. - 1 Nos.	2000	March 2010
6	Student Rest House	2000 ltr. - 1 Nos.	2000	October 2004
7	Ladies Hostel No. 1	1000 ltr. - 2 Nos.	2000	March 2002
8	Ladies Hostel No. 2	1800 ltr. - 2 Nos.	3600	March 2002
9	Ladies Hostel No. 3	2000 ltr. - 2 Nos.	4000	March 2010
10	Priyadarshani Ladies Hostel No. 1	1500 ltr. - 2 Nos.	3000	September 2002
11	Guest House	1200 ltr. - 1 Nos.	1200	September 2002
12	Vice Chancellor lodge	250 ltr. - 1 Nos.	250	May 2005
13	Registrar quarter	250 ltr. - 1 Nos.	250	May 2005
14	Faculty House	1500 ltr. - 1 Nos.	1500	October 2004
15	Teachers Rest House	1500 ltr. - 1 Nos.	1500	October 2004
16	Guest House	2000 ltr. - 1 Nos.	2000	March 2010
17	Minority Girls Hostel	1000 ltr. -7 Nos.	7000	October - 2014
18	Guest House	1000 ltr. -1 Nos.	1000	October - 2014
19	Yashwantrao chawan Girls Hostel	7500 ltr- 1 Nos	7500	April -2016
		<b>Total Installed capacity</b>	<b>50800</b>	

  
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