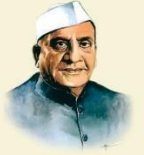




SHRI SHIVAJI EDUCATION SOCIETY, AMRAVATI'S  
**SHRI SHIVAJI SCIENCE COLLEGE, AMRAVATI**



NAAC Accredited by Grade A with CGPA 3.13 (3rd Cycle)  
UGC awarded status of College with Potential for Excellence (2nd Phase)  
ISO 9000:2015 Certified College

Identified by DST , Govt. Of India for FIST & Sant GadgeBaba Amravati University as Lead College



**4<sup>TH</sup> Cycle**

**Assessment & Accreditation by NAAC**

**Criterion-VII**

**INSTITUTIONAL VALUES AND BEST PRACTICES**

**QnM – 7.1.2**

**The Institution has facilities for alternate sources of energy and energy conservation measures**

(Geotagged Photos in any other relevant information link)

## Contents

a. Solar energy	Y
b. Biogas plant	Y
c. Wheeling to the Grid	Y
d. Sensor-based energy conservation	Y
e. Use of LED bulbs/ power efficient equipment	Y

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Accredited by NAAC with 'A' grade with a CGPA of 3.13  
UGC Awarded College with Potential for Excellence ISO 9000:2015 certified College  
Identified by DST for FIST and SGB Amravati University as Lead College

## Shri Shivaji Science College

Shivaji Nagar, Morshi Road, Amravati - 444 603 M.S.

❖ *Founder* : Dr. Panjabrao Alias Bhausaheb Deshmukh  
❖ *President* : Hon. Shri Harshwardhan P. Deshmukh  
❖ *Principal* : Dr. G. V. Korpe

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Ref. No.: SSSC/6471/IQAC/2021

Date: Nov. 22<sup>nd</sup>, 2021

### Declaration

The information, reports, true copies of the supporting documents, numerical data, etc. furnished in this file is verified by IQAC and found correct.

Hence this certificate.

H. S. Lunge  
IQAC Coordinator  
Shri Shivaji Science College  
Amravati



G. V. Korpe  
Chairman IQAC and Principal  
Shri Shivaji Science College,  
Amravati

## a. Solar energy

### Solar Plant in College



Solar Panels on College Terrace



Solar Plant Connection Unit

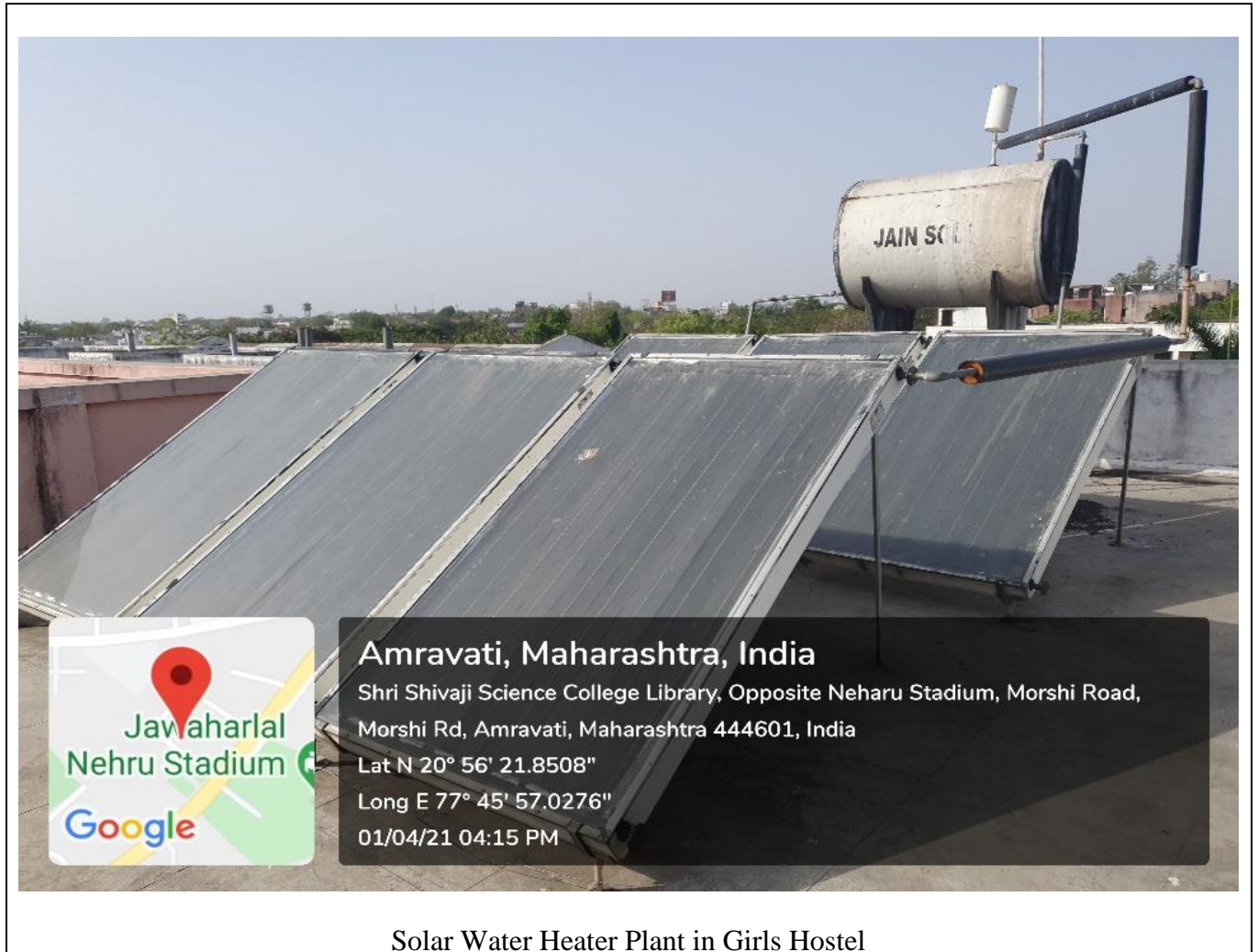
Comparative Tabulation for Difference in Electric bill of College Before and After Solar Plant Installation

Installation of Solar Plant was done in March 2018

Month/Year	Amount of the MSEDCL Bill
Nov. 2017 (Before Installation of the Solar Unit)	43010/-
April- 2018 (After Installation of the Solar Unit)	35050/-

## Solar water heater in the Girls' Hostel

Solar Water Heater is installed in Hostel for fulfilling requirement of Hot water in hostel.



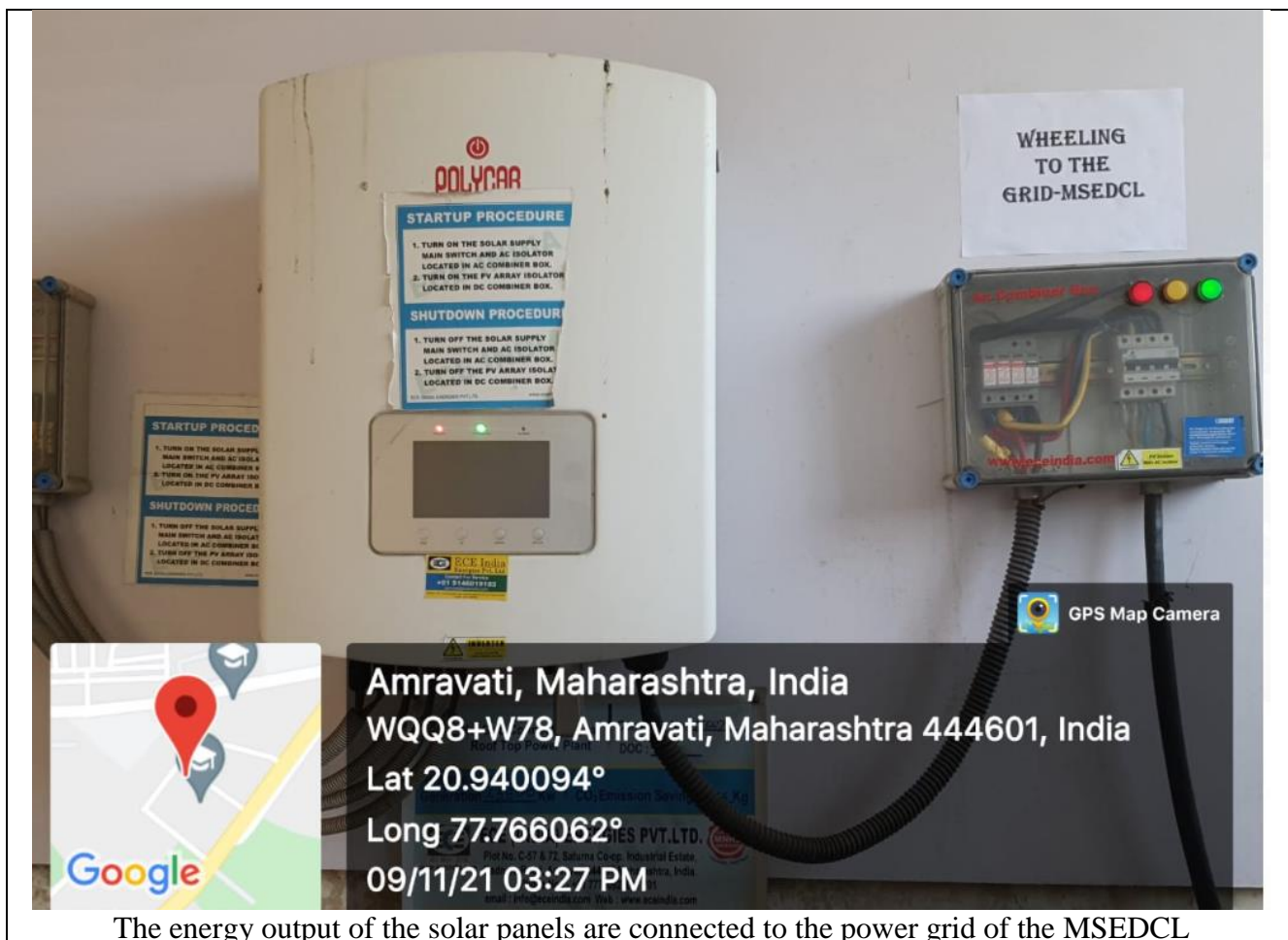
### b. Biogas plant

A Biogas Plant has been installed in the Payoshni Girls' Hostel of the college. It has a capacity of 2000 Ltr. and can produce Methane gas equivalent to 500 gms equivalent of LPG per day. The raw material used for the plant is the waste food from the canteen and the Girls' Hostel Mess. This gas is not explosive as that of LPG, so it is very safe to use. There is no threat of leakage or storage of gas.



### c. Wheeling to the Grid

The energy output of the solar panels are connected to the power grid of the MSEDCL where the power produced by the solar panels are supplied to the grid for which subsidy has been provided by the MSEDCL for the power consumption of the university.



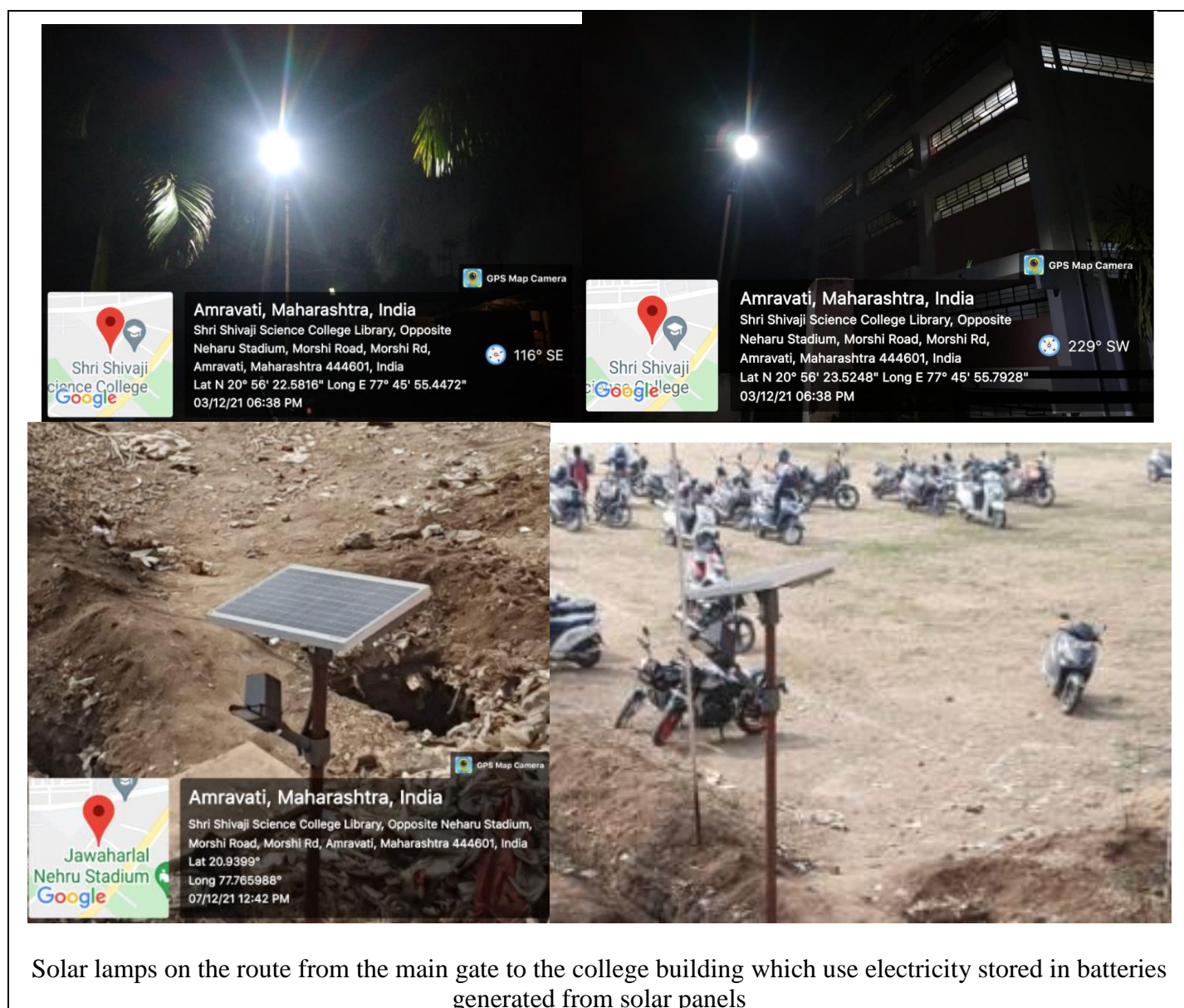
The energy output of the solar panels are connected to the power grid of the MSEDCL



## d) Sensor-based energy conservation

### Solar lamps on the route from the main gate to the college building: -

To minimise the use of electricity consumption and make the maximum utilization of the available resources, the college has installed Solar Photovoltaic Device with 20Wp PV module, 12Ah SMF battery, PWM Charge Controller, PV current sensing system for Dusk to Dawn fully automatic ON/OFF switching of street lights. Sensor-based solar Street lights with individual solar panels are installed from college entrance to entry gate pathway. Total 19 sensor based solar lights are installed at college campus.

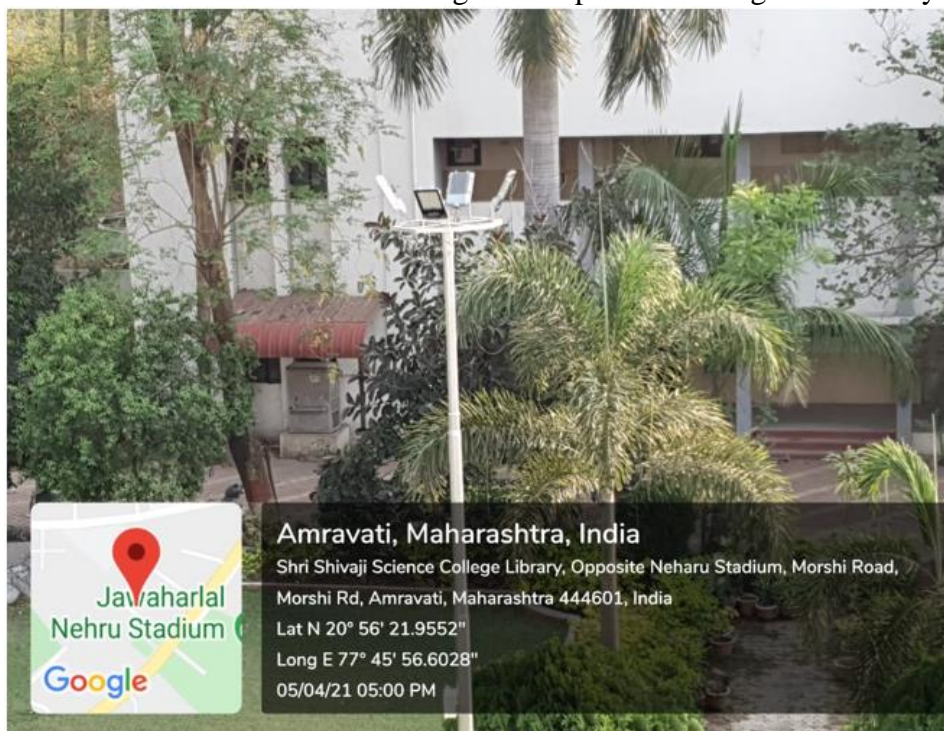


### e) Use of LED bulbs/ power efficient equipments

More than 90% electric lights of college are LED Lights and college is moving towards 100% LED lights.



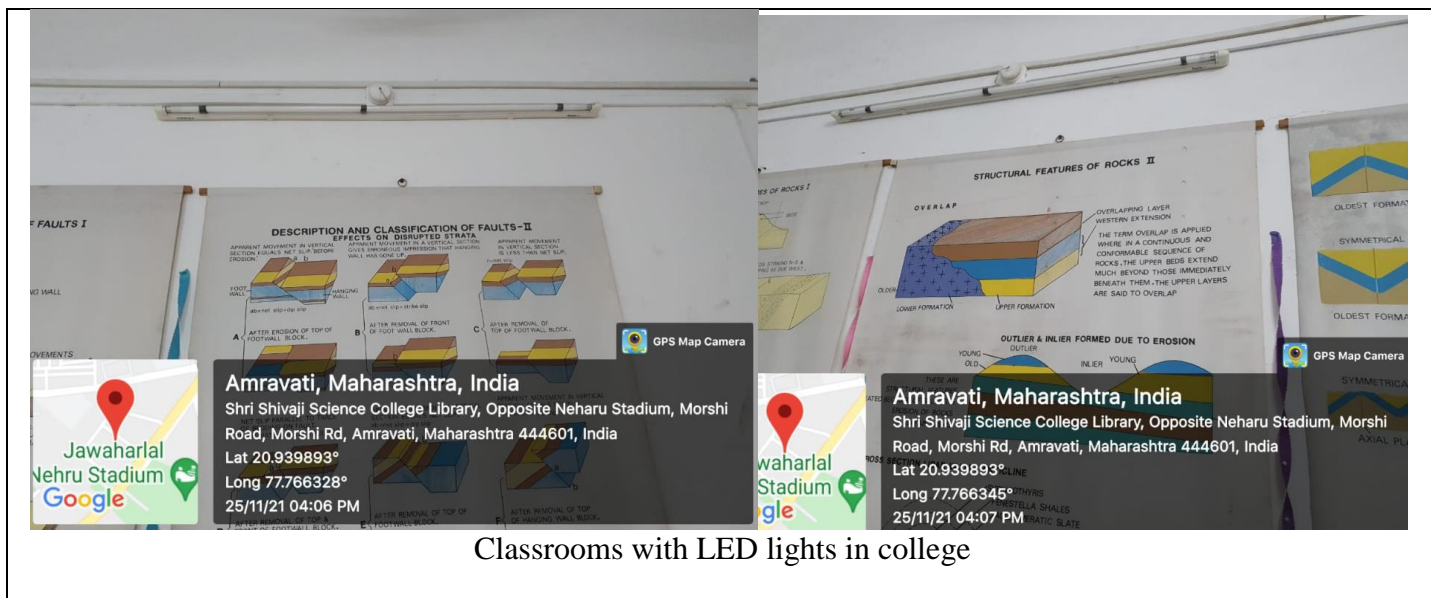
Use of LED Monitors and LED lights for optimum saving of efficiency



LED Light in College Premises



LED Light in College Premises



Classrooms with LED lights in college



All the staff cabins have LED lights