

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

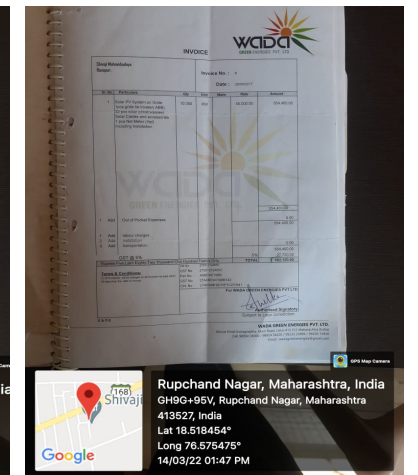
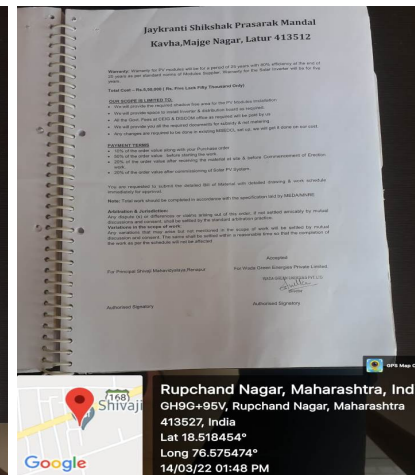
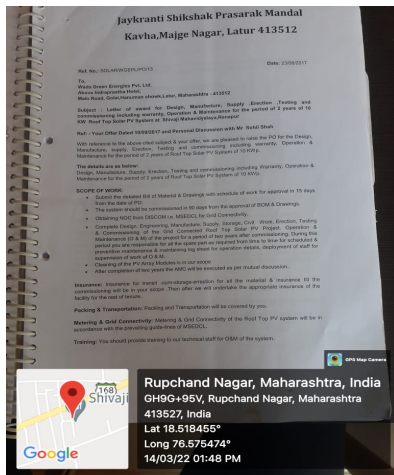
1. **Solar Energy:-**Institute has installed Total 10 KWP Rooftop Solar Power Plants to harness the solarenergy since 2017. Building installed solar plants details along with geotagged photographs.

### **SALIENT DETAILS OF PLANT**

- CAPITAL EXPENDITURE MADE BY THEINSTITUTE : NIL
- MODE OF EXECUTION : Solar PV Module
- PROJECT COST : 5, 82,120/-
- TOTAL ROOFTOP SOLAR AREA : 1000 Sq. Ft (APPROX.)
- INSTALLED CAPACITY : 10 KWP
- NO OF ROOFS USED : 01 ROOFS
- SOLAR MODULES : 2300 (MAKE – ADANI)
- INVERTERS : 01 (MAKE – DELTA)
- DESIGNED NOMINAL GENERATION : 40 UNITS / DAY (APPROX.)
- SUBSIDY FROM SECI : N.A.
- DESIGNED ANNUAL GENERATION : 14,400 KWH
- DEPRECIATION RATE OF GENERATION : 1.0% EVERY YEAR
- PROJECT COST RECOVERY PERIOD INCLUDING O&M: 25 YEARS

**Actual site photographs**

# Shivaji Mahavidyalaya, Renapur Dist. Latur



**2. Wheeling to the Grid:** Our Institute situated solar Panels, having excess solar energy generated by rooftop solar panels are exported to the grid of electricity distribution utility via net metering and direct saving in electricity bills are available from electricity distribution utility on regularly .

**3. Sensor-Based Energy Conservation:-** Timer based control of street light feeder pillars and high masts are performed for optimizing energy usages.



## Actual site photographs



**5. Use of LED Bulbs/ Power Efficient Equipment:** Institute adopted energy efficient lighting Including L.E.D. based Streetlights, Bulbs and Tube lights etc. to promote energy efficiency.

