





CHALAKKODE P.O., KOROM, PAYYANUR, KANNUR-670 307

SOLAR PROJECT





COLLEGE OF

ENGINEERING

OGY, PAYYANU

of Engineering & Technology CHALAKKODE P.O., KOROM, PAYYANUR, KANNUR-670 307

Sree Narayana Guru College

REPORT ON 5 KWP SOLAR PV INSTALLATIONS

Date of Installation: 21st December 2023

Introduction about V SOLAR COMPANY:

VSOLAR, a wholly-owned subsidiary of VIJAYA DISTRIBUTORS, is a reputable player in the solar industry with a strong market position and brand name. The company, empanelled as a vendor of MNRE/KSEB, is responsible for the design, marketing, and sales of solar products and solutions for leading manufacturers in the solar industry.

Team VSOLAR leverages its extensive experience in solar PV products and systems. The solution is based on advanced innovative components, reliable performance, and adherence to best engineering practices.

Project Details:

Customer Name: Sree Narayana Guru College of Engineering & Technology Payyannur

Date of Quotation : 03/10/2023

Quotation Reference Number: QT26/230464

Project Sector: Commercial

Type of Project: ON-GRID Solar Power Plant

Proposed Plant Capacity: 5 KWp (540Wp of 9 solar Modules are installed to yield approximately 5 KWp of solar power)

System Configuration:

- 1. Solar PV Modules: Monocrystalline (PERC) Half Cut by LIVGUARD, with a total capacity of 5 KWp.
- 2. Module Mounting Structure: High-quality Apollo 16g structure requiring an area of 300 sq feet.
- 3. On-Grid Inverter (Grid Tie): LIVFAST/LIVGUARD with a total capacity of 5 KWp.
- 4. Energy Production: Average of 8 units/day.
- 5. Junction Boxes: DC and AC Array Junction Boxes equipped with SPD&MCB and fuses.
- Connectors and Cables: REEO MC4 Connectors, DC Cable (4 Sqr mm), AC Cable (6 Sqr mm).
- 7. Earthing and Lightning Protection: Three sets of earth rods, copper multi-spike lightning arrester.
- 8. Electrical Materials: PVC Pipe, Bend, Elbow, Clamp, etc.
- 9. Isolator and Meter Box: Single-phase 63 A.
- 10. Solar Energy Meter: Single Phase SECURE/L&T.

Students of S3 and S7 EEE where present during installation of Solar PV plant at the top floor of Administrative Block, Representative of V SOLAR Company have explained the process of installation and working in detail to the students

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Kannur, Kerala, India 47R2+G8H, Kerala 670307, India Lat 12.141549° Long 75.249796° 21/12/23 12:46 PM GMT +05:30

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Cost of installation including service charge would come around 3-3.25 lack

At presently the 5KWp solar PV is working efficiently, and yielding average 8 units of electricity per day some of which is consumed by the institution and remaining is supplied to the grid

Report Prepared by:

Arlog

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