



## SOLAR PRODUCTS & SERVICES

### 3 kW PROPOSAL

For

## A TYPICAL KERALA HOME

Sample copy: customer name and address removed

End-to-End Rooftop Solar Solutions

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**"Turning Kerala's Sunshine into Reliable, Affordable Power."**

Grid-Connected Rooftop Solar Systems • Tier-1 Components • Design, Supply, Installation & Commissioning

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## About This Brochure

Thank you for your interest in solar energy solutions from **Suryavamshi Solar Projects LLP**. We specialise in end-to-end rooftop solar project development for residential and commercial customers — covering feasibility assessment, engineering, procurement, installation, and grid integration.

This document provides general, non-site-specific information about the components, system specifications, indicative process, and standard terms we work with for a typical grid-connected rooftop solar installation in Kerala. Exact pricing, panel count, and layout are customised for each site after a free assessment.

### Illustrative Reference System — 3 kWp Single Phase

The specification table below illustrates a typical small residential system. It is provided as a reference only; actual capacity is sized to your monthly consumption and available roof area.

| Particulars                   | Typical Value                    |
|-------------------------------|----------------------------------|
| Illustrative Capacity         | 3 kWp, Single Phase              |
| Tilt & Orientation            | 10–12°, South-facing             |
| Type of Solar Power Plant     | Grid-Connected Rooftop           |
| Indicative Roof Area Required | ~300 sq. ft.                     |
| Roof Type Supported           | Flat / Sloped (structure varies) |
| Typical Generation            | 12–15 units/day (site dependent) |

## Standard Components & Specifications

Every system we design uses Tier-1, quality-certified components. The table below summarises the components used, their specification, and typical quantity for the illustrative 3 kWp reference system introduced on the previous page.

| Component                                        | Specification                                                                   | Make                         | Nos.   |
|--------------------------------------------------|---------------------------------------------------------------------------------|------------------------------|--------|
| <b>Solar Panels</b>                              | 550 Wp Mono PERC / Bifacial, DCR                                                | Adani / Waaree / Vikram      | 6      |
| <b>Solar PV Inverter</b>                         | Single/Three Phase On-Grid Inverter with online monitoring                      | Solis / Growatt / Polycab    | 1      |
| <b>DCDB</b>                                      | PV fuses at input, DC isolator, Type-2 DC SPD, IP65 enclosure                   | ABB / Eaton / Mersen         | 1      |
| <b>ACDB</b>                                      | MCB and Type-2 AC SPD, IP54 rated enclosure (PC/ABS/CRCA)                       | ABB / Eaton / Mersen / Citel | 1      |
| <b>DC Cables</b>                                 | UV-rated solar copper cable, cross-linked sheath & insulation                   | Apar / Seichem               | Ls.    |
| <b>AC Cables</b>                                 | PVC/XLPE aluminium or copper, sized to load                                     | Apar / Polycab               | Ls.    |
| <b>Earthing</b>                                  | Maintenance-free chemical earthing, copper-bonded earth rod (14 mm dia / 1.2 m) | Excel Earthing               | 2 Sets |
| <b>Lightning Protection</b>                      | Single spike air termination rod with insulated base & chemical earth kit       | Excel Earthing               | 1 Set  |
| <b>Solar Energy Meter</b>                        | Watt-hour meter for generation monitoring                                       | L&T                          | 1      |
| <b>Roof Mounting Structure</b>                   | Hot-dip galvanised / epoxy-coated GP tubes, engineered for flat or sloped roofs | Apollo                       | 1 Set  |
| <b>Installation, Testing &amp; Commissioning</b> | Complies with Electrical Inspectorate & KSEB standards                          | Suryavamshi Certified Team   | 1 Lot  |

**Indicative Project Cost — 3 kWp Reference System**
**Rs. 2,05,000/-**

Design, supply, installation, testing and commissioning for the 3 kWp reference system above. Final pricing depends on capacity, roof type, and site conditions.

## Statutory / KSEBL Charges (Kerala)

For grid-connected systems in Kerala, the following statutory charges are payable to KSEB Limited (indicative, subject to KSEBL revision):

- Application fee — approx. Rs. 1,000/-
- Solar Plant Registration Fee — approx. Rs. 3,540/- per KW (a portion is typically refunded by KSEBL after commissioning)
- Net Meter (if not provided by KSEBL) — approx. Rs. 5,000/-

### General Terms & Conditions

- Pricing depends on roof type — flat roof, sloped/tiled roof, or elevated structure.
- Load enhancement or three-phase conversion, if required, is quoted separately.
- Our standard offer includes documentation, KSEB testing, and formalities up to commissioning with net metering, including cabling to the KSEBL metering point.
- Subsidy documentation (where applicable) is handled by us; subsidy amounts are credited directly to the customer's bank account subject to MNRE approval.
- The Bi-Directional Energy Meter for net metering is procured from KSEB and billed on a monthly rental basis, unless otherwise agreed.
- KSEB registration fees are charged separately; a portion is typically refunded by KSEB after commissioning.
- Remote monitoring via Wi-Fi data logger is included; internet connectivity at site is to be provided by the customer.

## Standard Payment Structure

- 70% advance with Purchase Order / booking confirmation.
- 20% on delivery and installation of materials at site.
- 10% on successful commissioning of the system.

## Bank Account Details for Payment

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Our bank details are printed on your own quotation, not on this sample.

A formal, site-specific quotation is shared separately once your project scope is finalised.

## Delivery, Installation & Commissioning Schedule

- Supply of materials: within 7 days from advance payment.
- Installation: within 7–15 days from delivery of materials.
- Commissioning: within 10 days of completing installation and obtaining KSEBL approvals.

## Warranty

- System warranty: 5 years from the date of commissioning.
- Solar PV modules: 25-year performance warranty — output not less than 90% at 10 years and 80% at 25 years.
- Inverter warranty: as per manufacturer terms, typically 5–10 years depending on model selected.

## Scope of Work

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### Suryavamshi's Scope

- Engineering: complete system design — civil, structural, electrical and mechanical — with construction drawings and specifications.
- Procurement & Construction: sourcing of equipment and materials, delivery to site, complete installation, and testing of all electrical components per manufacturer specification. Commissioning to full operability.
- KSEB Liaison: obtaining feasibility certificate from the local KSEB section office, system registration, coordinating testing and compliance verification, and replacement of the existing meter with a bi-directional net meter.
- Warranty Support: free inspection visits during the warranty period and maintenance support as required. Panel washing is not included and is to be arranged by the customer.
- Post-Installation: training for the customer's engineer/electrician/staff on operating principles, safety, and maintenance. Daily remote monitoring of the system via internet.

### Customer's Scope

- Storage & Access: provide site access for delivery of equipment and materials, secure storage space, and crew access as needed during implementation.
- Local Consultation: facilitate coordination with the customer's engineer/electrician/staff, share approved electrical schematics/drawings if available, and obtain any statutory clearances required.
- Remote Monitoring: provide a wireless internet connection near the grid-tied inverter to enable remote monitoring.
- Post-Installation: periodic cleaning of solar panels after installation is complete.

### Contact Us

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This is a general information document. Figures shown (capacity, generation, roof area, pricing structure) are indicative and vary by site. For a free, no-obligation site assessment and customised quotation, contact us using the details above.