



**VIRGIN POWER & ENGINEERING Pvt. Ltd.**  
***A SUN LIGHT OF THE WORLD***

**PROJECT MANUAL**



**VIRGIN POWER & ENGINEERING PVT. LTD.**

Ph. : 7356606656/7356606653/7356606652/7356606651/7356606650

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# COMMERCIAL PROPOSAL

**Virgin Power & Engineering Pvt. Ltd.**

Branch: Shop No. 13/599B, Ground Floor, Chittinappily Building,

Angamali - 683573, Eranakulam, Kerala State, India

**Reg. Office:** RO: Shop No.3, 1st Floor, No.159/34, Sulikunte Village,

Muthanallur Cross, Sarjapura Main Road, Bangalore

KA-562125 IN

Contact(+91): 7356606656, 7356606653, 7356606652

**CIN: U74999KA2019PTC120315**

**GST:32AAGCV7558K1ZU**

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Dear Sir

Greeting from Virgin Power

Thank you very much for your time and it was great pleasure to talk to you, we are looking to have great opportunity with you to provide solar power plants for the subject proposal.

We Virgin Power & Engineering Pvt. Ltd, works to provide the best solar renewable energy for our customers with the intension to reduce the cost of energy or power and to have natural green energy to reduce carbon footprint.

The advantage to have solar power plants in (commercial / Industrial / Residential) becoming a part to generate solar power, becoming a part to reduce carbon footprint, becoming a part to reduce energy cost, becoming a self-standing to manage upcoming demand of electricity for your business.

As we Virgin Power & Engineering Pvt. Ltd, offers to provide the best world class Tier one Solar Power plants by using high efficient MONO PERC MBB Half-cut Cell solar panel of Tier-one solar company in the world. We provide the best solar engineering solution to our customers to manage the right demand of the power requirement and ensure and assure our customers will get their return of investment.

Kindly provide an opportunity to work with you and we assure our best service.

Sincerely

Regards

Sales Director

Virgin Power & Engineering Pvt. Ltd

7356606656



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## PROJECT SUMMARY

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S.I	Particulars	Description
1	<b>Customer Name:</b>	Dr.N.k.PILLAI
2	<b>project Name:</b>	25 Kw On-Grid Roof Top Power Plant
3	<b>Location:</b>	Ambalamedu
4	<b>Category :</b>	On -Grid
5	<b>System:</b>	Poly Crystalline
6	<b>Solar PV Module Technology:</b>	Poly Crystalline
7	<b>Type of PV Module:</b>	Poly Crystalline
8	<b>Total Area Required:</b>	2500 sqft
9	<b>Module Capacity:</b>	335 wp
10	<b>Inverter Capacity:</b>	25 kw



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**Prop. No:9092**

**Date:12/01/2023**

### Buyer Details :

Dr.N.k.PILLAI,

KERALA ENVIRO INFRASTRUCTURE LTD,

TSDF Project, Inside FACT-CD Campus,

Ambalamedu ,kochi,

Kochi, Ernakulam, Kerala

Mob :9846618133

GST:

**Payment Terms :**

Advance

**Inco Terms :**

Exwork

**Quote Validity :**

19-01-2023

Tender Number:

Scope of Work: 25 kw on grid solar power supply and installation

Bill of Material with Price										
S. N.	Product Name	HSN no	Qty	Unit	Unit Price	GST%	SGT%	IGST%	Other Tax%	Total Amount
1	25 kw on grid solar power supply and installation	na	1	1	1410970.00	6.90	6.90	0.00	0.00	1605679.64
Description:-										

### Bills of Material

Description	Qty	UOM
Meter Box 420x400	1	Nos
CT Unidirectional Meter (Tested ) (Three phase)	1	Nos
Main switch 63ax415v	1	Nos
Bare Copper 10 swg	50	meter
On grid inverter (power one 25 kw)	1	Nos
PVC Pipe 25mm	70	Nos
ACDB 1in1 out (Eaton/Elmax-spd/fuse/mcb/connector)	1	Nos
DCDB 3 in 3 out (Eaton/Elmax -spd/fuse/mcb)	1	Nos
PV Module Poly Crystalline 335 wp	75	Nos



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Lighting Arrestor (multi spike Excel)	2	Nos
Earthing Rods 1200mmx 250m	5	Nos
DC Cable	100	meter
MC4 connector (1000v 30a)	37	Nos
Earthing Chamber 18x18	5	Nos
Cable Tie 300MM	70	Nos
AC Cable	30	meter
CT Bidirectional Meter (Tested) (Three phase)	1	Nos
Earthing Compound (bag 5 kg)	5	Nos
AC Ard Cable 35 sq mm	125	meter

**Discount : 0**

**GST :97357.00**

**SGST :97357.00**

**IGST :0.00**

**Other Tax : 0.00**

**Shipping Charge : 0.00**

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**Subtotal : 1605680.00**

**BANK ACCOUNT DETAILS**

**Account Number :** 074205001157

**Account Name :** Virgin Power and Engineering Pvt Ltd

**Bank:** ICICI Bank

**Branch :** Pathanamthitta

**IFSC Code :** ICIC0000216

**Revision Note:**



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## RETURN OF INVESTMENT

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S.I	Particulars	UOM	Description
1	<b>Project Cost:</b>	Rs	1605679.64
2	<b>Plant Capacity:</b>	Kw	25 kw
3	<b>Module Capacity :</b>	Watts	335 wp
4	<b>Average Production per day :</b>	KWH	100
5	<b>Average Production per year:</b>	KWH	36000
6	<b>Electricity Bill per month:</b>	Rs	27000
7	<b>Electricity Charge per year:</b>	Rs	324000
9	<b>Return of Investment Period:</b>	Years	4.9



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## NOTES

1. PV Module Poly Crystalline 335 wp , Power one grid Inverter 25 Kw.
2. In case if there is additional work of structural like Walkway, Ladder, shelter, handrail, safety gate- its cost will be additional.
3. In case if any modification in electrical side it will be the scope of customer

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**1. Scope of Work**

Solar Power Plant Engineering - Design, Procurement, Installation & Commissioning

**2. Product Warranty / Manufacturing Defect Warranty**

1. Solar modules: 25Years. 10 Year Product Warranty against the manufacturing defect and poor workmanship. Performance Warranty: 90% Rated Power Output at end of 10th years and 80% Power at end of 25th year, as mentioned product data sheet of the OEM.
2. Inverter on-grid: Make: PowerOne 5 Years, Sofar 8 Years, growatt 7 years, Goodwe 5 Years, Abb 5 Years as per the manufacturer and OEM. Applicable the case of Grid-connected Solar Power Plants.
3. Inverter Off-grid 3 years - Applicable the case of off-grid Solar Power Plant
4. Hybrid - 5 years - Applicable the case of Hybrid Solar Power Plant
5. Other BOS: As per Original Equipment manufacture warranty terms
6. Solar battery C10 & Lithium Ferro phosphate (LIFEPO4): 5 Years

**3. Inclusion**

1. Materials, transportation, and installation scope covered.
2. Product warrantee as per the manufacturer covered.
3. Preventive maintenance scope covered for a period of one year

**4. The Costs includes the following:**

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- KSEB application and Registration, Solar Meter and Net Meter including testing activities if required, Harmonics test(by KSEB) and its co-ordination and all the activities required for the Solar Power Plant.
  - Design, supply & installation
  - Inspectorate charges - Drawing submission of Solar and existing load signed by electrical contractor, registration and liasoning charges for testing and approval.

**5. Output / Production**

Average generation in a calendar year per day 4 Units per KW

**6. Exclusion**

1. Government Application & Inspection fees of KSEB mentioned in estimate for the solar plant is a part. But any pending dues or other legal clearance fees for solar power plant will be the scope of customer for On-grid Projects.
2. Building structure fabrication or other modification cost excluded.
3. Existing Electrical wiring modification, its drawings, up-gradation excluded

**7. Following are not included in the above price:**

- In case of HT connections or connections with DG installed, charges will vary (replacement of CT-PT unit, installation of Reverse power relay for DG, etc.). CT-PT unit, reverse power relay, etc. needs to be purchased by the customer as applicable.
- All inspectorate charges for any changes suggested existing electrical system (if suggested by inspectorate). This can be done at additional cost or it shall be under the scope of customer. Existing approved electrical drawing should be provided by client.
- Charges for increasing the connection load (if any) including the KSEB fees for the same, will be charged at actuals.
- The existing electrical approved drawing shall be provided by the owner if the case arise or demand by the inspectorate / the respective DISCOM during the inspection wherever the situation demands. For the commercial and industrial buildings above

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10kw solar power plant the existing approved drawing shall provide for the approval process.

**8. Payment Terms**

Sr. No	Stages	Payment Schedule
1	Upon the material ready for dispatch	85% of project cost
2	Installation Completion	15% of project cost

**9. General Terms & Conditions Note:** from the date of order confirmation advance payment has to complete within 15days as per the payment schedule, thereafter price variations of product / tax variation may applicable.

1. Customer should provide shadow free area for mounting the solar Panels.
2. A space properly ventilated and protected from rain should provided to install the inverter, switch board etc by customer.
3. AC side wiring under Customer scope. If any additional wiring required on AC side will be charged extra
4. Required clearance and approvals from KSEB / State Electricity Authority, Electrical Inspectorate, Panchayat, Municipality, Other Govt. Authorities are customer's scope wherever the situation arises for any compliance.
5. Earthing standard length estimated is 5 meter dimension from the point of Inverter and in case if the floor is concrete / tiled / either customer may provide alternate clear wet land or customer may allow to remove concrete / tiled surface with the actual labor cost or if the ground condition found it is rock / hard stone customer in such case will notify to customer and will submit its actual labor cost.
6. Products covered under the manufacturer warranty, the same warranty will be covering to the products by default against the Invoice.

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7. This quote is non-transferable

8. Force Majeure, In the event of war, civil unrest, rioting, fire, other disasters and other circumstances beyond our control irrespective of whether or not this occurs on this premises or those of these suppliers or in the event of any change circumstances of such a nature that we cannot reasonably be required to fulfill our obligations, we shall be entitled to withdraw our quotations suspend deliveries or terminate any relevant Contract without judicial intervention, and it shall not be required to provide any compensation. Failure by us or our suppliers to meet our/ their delivery obligations or to meet them correctly or in full shall be deemed to be a case of force majeure.

**10. About US**

We Virgin power & Engineering Pvt. Ltd. a leading Renewable Energy Company, provide service to develop, engineering, procurement, installation & commissioning & operation & maintenance for the power plants. We are an empanelled company of KSEB, ANERT & MNRE for solar power plant installation & commissioning

**11. Project & Customers**

SRCustomer	Capacity	Region
1 SRG Apparels Pvt. Ltd. Tripur, TN	1000	kwSR
2 Wadhwa Group - BKC	100	KwWR
3 Mondelez India (Cadbury)	150	KwWR
4 Reliance Retail (Multiple Location)	500	KwNR
5 Maharashtra Seamless Limited Nagothane, MH	3500	KwWR
6 Reliance Metro - Mumbai (Mumbai Metro One Pvt. Ltd)	2300	KwWR
7 BAPS Temples - Multiple Site	2900	KwWR
8 Piramal Glass Limited	1700	KwWR
9 Mondelez India (Cadbury) Malanpur MP	400	KwWR
10 Orbit Bearing India Pvt. Ltd Rajkot, GJ	450	KwWR
11 Mondelez India (Cadbury) Sricity, AP	2000	kwWR

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12 Ramakkalmedu - Iduki

500 Kw KL

## 12. Quality Management System

We operate in compliance of ISO 9001:2015 Quality Management System, ISO 14001:2015 Environmental Management System, ISO 50001:2011 Energy Management System.



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## **PRODUCTS & SERVICES**

- 1. Solar Power On-Grid Power Plant Material Supply**
  - Solar PV Module / Panel, Inverter – on-grid, DCDB, ACDB, MC Connector, DC Cable, Energy Meter, Net Meter, Structural
- 2. Solar Power Off-grid Power Plant Material Supply**
  - Solar PV Module / Panel, Off-grid Inverter, Solar Battery, DC Cable, SCB, MC Connector, Structural
- 3. Bank Loan Facility for Solar On-grid & Off-grid Power Projects**
  - Bank Loan Facility – Residential Projects
  - Bank Loan Facility – Commercial Projects
- 4. Solar Engineering, Procurement, Construction, Installation & Commissioning Services**
  - EPC for - Solar Roof-top Power Projects
  - EPC for - Solar Ground mounted Projects
  - Solar Engineering Consultancy Services
- 5. Operation & Maintenance Services**
  - O&M Service for Solar Roof-top Power Projects
  - O&M Service for Solar Ground mounted projects

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