



TECHNO-COMMERCIAL

SOLAR POWER GENERATION PROJECT



DECEMBER 19, 2022

RV SAURURJA

WWW.RVSAURURJA.COM

SOLAR POWER GENERATION PROJECT

Ref No. :- RVS-B/22-23/310706

19th DEC 2022

PORNIMA AGRO FARMER PRODUCER COMP LTD

Kind Attn.: **To Whom So Ever It May Concern**

Subject : Techno Commercial Offer for **3.5KVA OFF Grid (1 SET) Plant** With Battery Backup at VETNE Location.

Ref:-As per your requirement.

Dear Sir,

Referring your discussion with regard to your **3.5KVA OFFGrid Solar Photovoltaic Power Plant**. Based on the data/information and documents shared during discussion, we are pleased to submit our offer for above mentioned details.

Annexure I	Introduction
Annexure II	Estimate
Annexure III	Technical Specifications & Tentative Bill of Material
Annexure IV	Financial analysis
Annexure V	Price Schedule, Commercial Terms & Conditions

We sincerely trust that you will find the offer in line with your requirement. We will be more than glad to provide any clarification you may require in connection with said offer.

We would therefore sincerely request you to kindly give us an opportunity to work with your esteemed organization and suggest us a suitable date, so that we can make a presentation on the proposed system.

Thanking you and assuring you of our best services.

Yours truly,

For RV Saururja

RAHUL PHADTARE - 9856204040

VIKAS SHINDE - 9130543333

Encl.: As above

Annexure I

Introduction

The INVERTER AND BATTERY setup for your Captive Electricity Consumption would be highly economic and the Power generated by the plant shall be utilized in the facility itself thereby saving on the electricity cost from the transmission line.

Our scope of work would include, Turnkey EPC up to final synchronization with the existing power supply, comprising of design and engineering, supply of all materials, installation, testing, commissioning and Operation

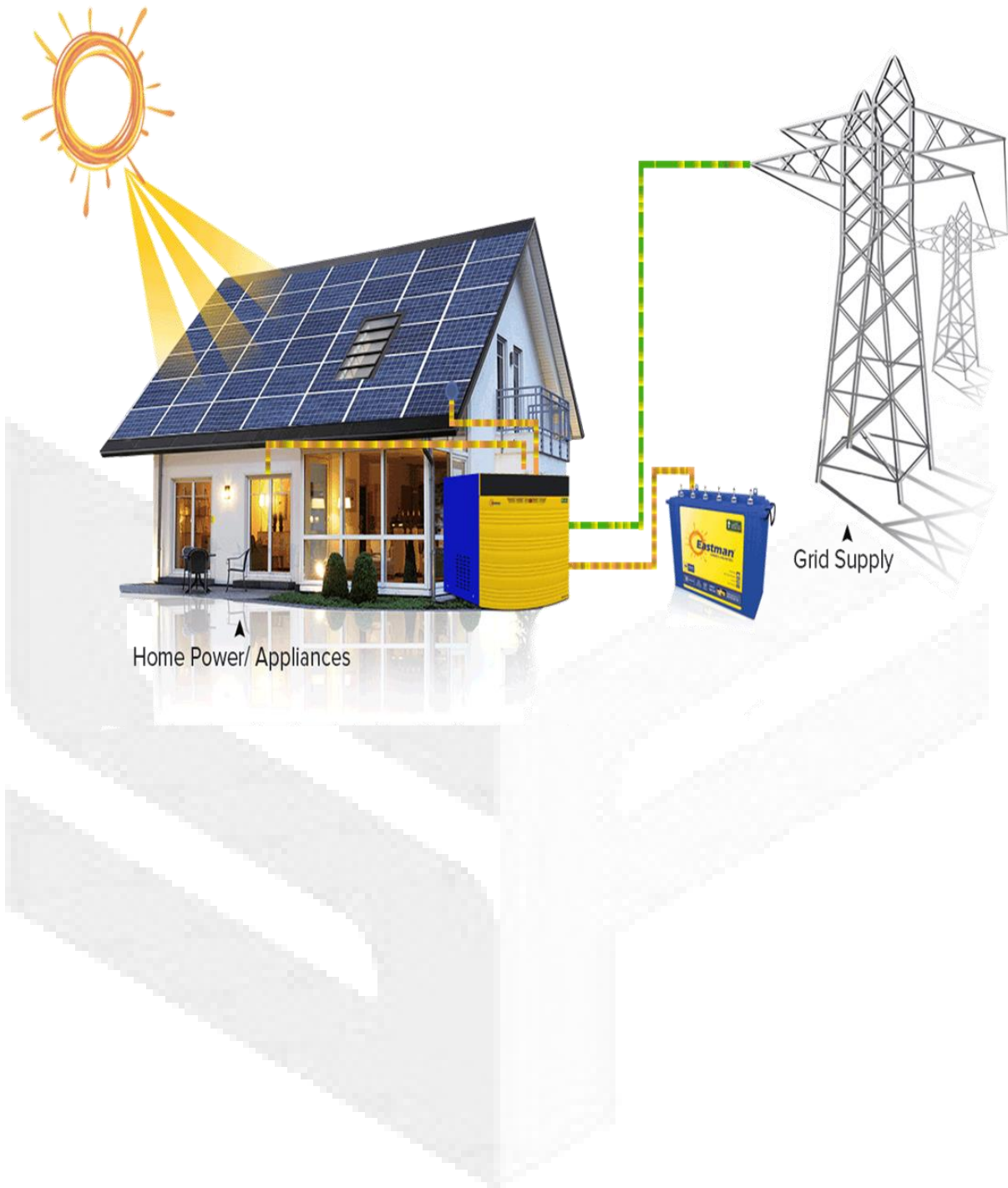
& Maintenance of Power System.

Key Differentiators

1. All the components of reputed make
2. RV SAURURJA Quality Assurance – Quality and Timely deliver in the solar industry.
3. Complete Transparency
4. Dedicated Workmanship

RV SAURURJA PV OFF GRID CONNECTED POWER SYSTEM

Location	VETANE in Maharashtra
Radiation	5.18 kWh/m²/day
Wind speed	2km/h
Latitude	17° 41' 29.0436'' N
Longitude	74° 0' 3.3768'' E



Annexure II

Estimate

Name	PORNIMA AGRO FARMER PRODUCER COMP LTD	
SYSTEM CAPACITY	3.5KVA (1SET)	
SYSTEM TYPE	OFF GRID	
LOAD TYPE	AC	
UNIT GENERATION ANNUAL	-	
UNIT RATE	-	
Required System KW	3.5KVA (1 SET)	
System Cost RS	1,35,000/-	
Taxes(Gst 13.80%) Rs	16,200/-	
Project Cost Rs	1,51,200/-	TOTAL PROJECT COST
Shadow Free Area Required Sq Ft	-	
Effective Cost RS	1,51,200/-	ACTUAL PROJECT COST
Payback Period Years	-	GOOD

Annexure III

Technical Specifications & Tentative Bill of Material

1) solar PV module



72 cells
POLYCRYSTALLINE

upto 17.29%
EFFICIENCY

315-335 W
RANGE



HIGHER OUTPUT OF MODULE POWER by reducing cell to module power loss



Designed for very **HIGH AREA EFFICIENCY** ideally suited for roof-top and ground-mounted applications



Up to +2.5 Wp **POSITIVE POWER OUTPUT TOLERANCE GUARANTEED** ensuring better ROI



Extremely **RELIABLE PRODUCT** suiting all environment conditions

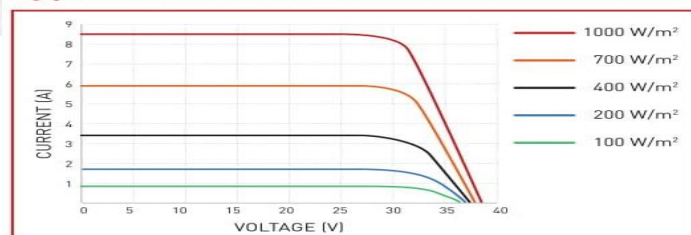


Engineered to provide **EXCELLENT LOW LIGHT RESPONSE**

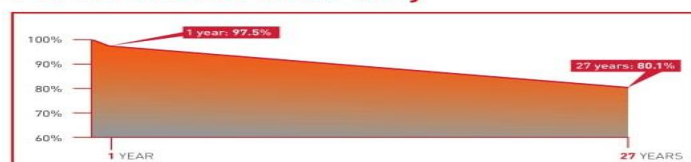


Extremely **NARROW POWER BINNING TOLERANCE** to reduce current mismatch loss in single string

Typical I-V Curves












Performance Warranty



2) MPPT Charge Controller

solar charge controllers are powered by latest generation microprocessor and MPPT Technology. It makes your solar system generate maximum solar power – 30% more than ordinary charge controllers. The micro-processor enabled six stage charging ensures optimum charging of batteries which increases their life by 6 months.

SALIENT FEATURES OF MPPT TECHNOLOGY

 <p>BATTERY HIGH VOLTAGE PROTECTION</p>	 <p>ATC Technology Increase Battery life upto 30%</p>	 <p>6-STAGE BATTERY CHARGING PROCESS</p>
<p>MICRO CONTROLLER AND DIGITAL SIGNALING PROCESSING TECHNOLOGY IN MPPT SAVES BATTERY DURING HIGH VOLTAGE CONDITION.</p>	<p>THE IN-BUILT SENSOR IN MPPT SENSES THE OUTSIDE TEMPERATURE AND REGULATES BATTERY CHARGING I.E. OVER-CHARGING OR UNDER-CHARGING BY CONTROLLING THE BOOST VOLTAGE OF THE BATTERY.</p>	<p>MPPT USES DT-6S SIX STAGE CHARGING TECHNOLOGY FOR EFFICIENT CHARGING AND LONGER BATTERY LIFE.</p>
 <p>AUTOMATIC BATTERY SWITCHING</p>	 <p>EQUALISATION</p>	 <p>4th GENERATION Microprocessor</p>
<p>THE MPPT CHARGE CONTROLLER ENABLES THE CUSTOMER TO AUTOMATICALLY SWITCH FROM ONE BATTERY SYSTEM TO A DOUBLE BATTERY SYSTEM WITHOUT CHANGING THE CHARGE CONTROLLER.</p>	<p>THE ADVANCED SOLAR CHARGING TECHNOLOGY IN MPPT SMARTLY GENERATES VOLTAGE TO SHAKE THE BATTERY ELECTROLYTE TO ENSURE EFFICIENT CHARGING.</p>	<p>THE INTELLIGENT MICRO PROCESSOR IN MPPT CONTROLS ALL THE INTERNAL PROCESSES SMOOTHLY.</p>
 <p>PV HIGH CURRENT PROTECTION</p>	 <p>OUTPUT OVERLOAD/ SHORT CIRCUIT PROTECTION</p>	 <p>REVERSE BATTERY CURRENT FLOW PROTECTION AT NIGHT</p>
<p>THE SOLAR CHARGE CONTROLLING DEVICE IN MPPT REGULATES BATTERY CURRENT AND PROVIDES POWER VOLTAGE HIGH CURRENT PROTECTION.</p>	<p>THE MICRO CONTROLLER AND DIGITAL SIGNALING PROCESSING IN MPPT CHARGE CONTROLLER PROVIDES OVERLOAD AND SHORT CIRCUIT PROTECTIONS.</p>	<p>MPPT SOLAR CHARGE CONTROLLER PROTECTS THE REVERSE BATTERY CURRENT FLOW FROM THE BATTERY TO SOLAR ARRAY AT NIGHT.</p>

SystemDetails– 1Kva

S/N	Item	Specifications/Make	Quantity
1	PVPanel	-----	-----
2	Mounting Structure	-----	-----
3	ElectricalControls	-----	-----
4	Cables –Toconnect PVPanel–Inverter– Distribution Board	-----	-----
5	Inverter	3.5 KVA 48 VOLT NVERTER LIVFAST	1Set
6	ElectricalAccessories	-----	-----
7	Battery	LIVFAST 160 ah/12 volt	4 nos

Annexure v
Price Schedule, Commercial Terms & Conditions
Terms for Supply of Solar Rooftop Power Generation Unit

S/N	Topic	Terms
1	Project Set up	The off grid Power Generating Unit will be setup by RV SAURURJA
2	Installation and Commissioning panel or	RVS will, design, procure, install and commission the grid tie solar Rooftop power plant in mutually agreed period and connects it to LT Distribution Board which ever is nearer.
3	After Sales Services	RVS will provide free services for the period of one year from installation date. From 2 nd Year onwards, UES will provide services on AMC basis.
4	Space for Installation	Buyer will provide space for the solar power project installation and keep it shadow free for period of 25 years.
5	Civil work	Buyer will carry out all required civil work including grouting of PV Panel Array and the suitable changes to the premises required for setting up solar power plant
6	Compliance	Buyer will ensure compliance to norms specified by the Government once the plant is commissioned
7	Power & Water for Installation	Buyer will provide power & water required during the installation of solar power plant
8	Water for of power plant during its	Buyer will provide water required for cleaning Servicing at no cost
9	Government Taxes And Charges	Any future taxes and charges will be to the account of buyer
10	Payment	Purchase Order 70% order confirm
	20% Against the Delivery of Material	10% After Commissioning
11	Validity	This offer is valid for 30 days from date of offer.

For any query, please call us. Thanking you for giving us opportunity to quote you

Yours faithfully,
For RV SAURURJA