



TECHNO-COMMERCIAL

SOLAR POWER GENERATION PROJECT



DECEMBER 19, 2022

RV SAURURJA SOLAR SYSTEM

WWW.RVSAURURJA.COM

SOLAR POWER GENERATION PROJECT

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

19TH DEC 2022

PORNIMA AGRO FARMER PRODUCER COMP LTD

VETANE KHATAV-415503

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

Subject : Techno Commercial Offer for **10 KWGrid Tied Solar Photovoltaic Power Plant** Without Battery Backup at VETNE Location.

Ref:-As per your requirement.

Dear Sir,

Referring your discussion with regard to your **Grid Tied 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

TECHNICAL ENGINEERS

RAHUL PHADTARE - 9856204040

VIKAS SHINDE - 9130543333

Annexure I

Introduction

The Solar PV Plant 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 PVSolar Power System.

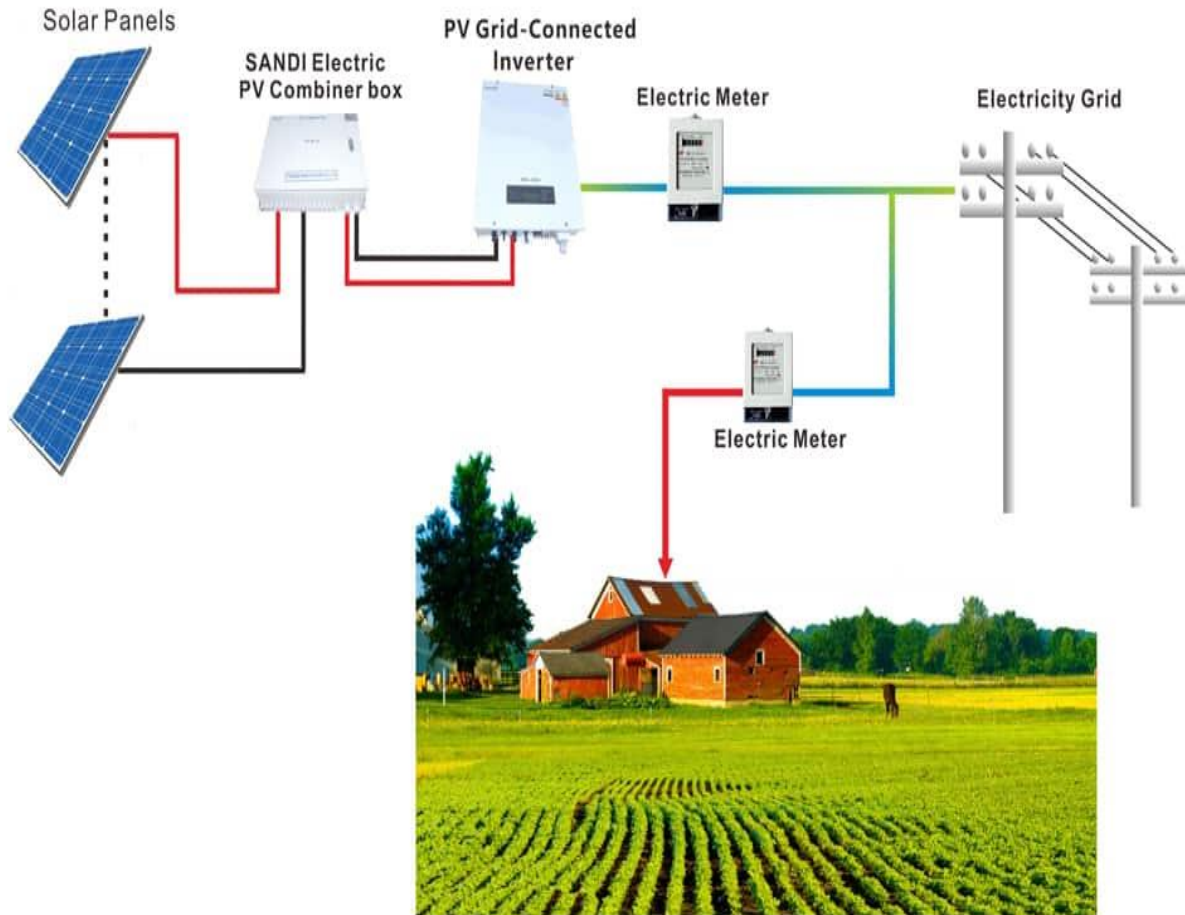
Advantages of Solar PV Project:

1. Cost saved from the electricity usage of Transmission line
2. No recurring cost of fuel and no moving parts, thus a very low O&M cost
3. Accelerated depreciation benefit for tax payers. (Benefits - 80% Accelerated depreciation benefits.)
4. Hedging Inflation in Electricity charges for next 25 years.
5. Only one time investment; after that, power is free for life (At least 25 years)
Greenhouse gas emission free electricity production
6. Excess energy buy back by the Govt* as per the declared Solar Tariff *Conditions Applicable
7. No pollution of air and soil
8. Reliable power supply in all climatic conditions – hot and cold Independent from fossil fuel price increases and fuel shortages Long lifetime of components (up to 25 years).

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 GRID CONNECTED POWER SYSTEM



Location	VETANE in Maharashtra
Radiation	5.33 kWh/m²/day
Wind speed	10km/h
Latitude	18.44
Longitude	73.85

Annexure II

Name	PORNIMA AGRO FARMER PRODUCER COMP LTD	
Consumer Number	-	
Sanction Load Kw	10	
Tariff	LT-RES 3PH	
Monthly Average Unite(Kwhr)	1200 UNIT	
Unit Rate RS	₹ 11.71	HIGH RATE FOR YOUR CONSUPTION
Required System KW	10KW	
System Cost RS	5,95,000/-	
Taxes(Gst 13.80%) RS	82,110/-	
Project Cost Rs	6,77,110/-	TOTAL PROJECT COST
Shadow Free Area Required Sq Ft	1000	
Payback Period Years	3.10	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

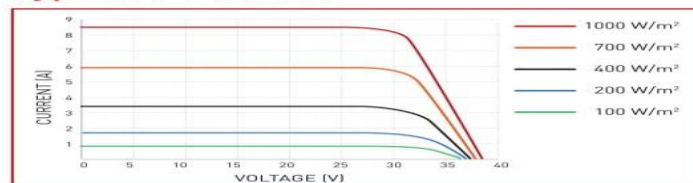


Engineered to provide **EXCELLENT LOW LIGHT RESPONSE**

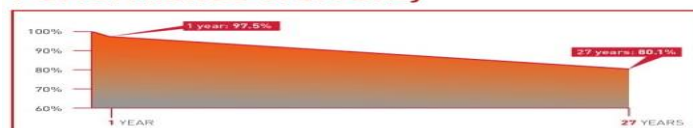


Extremely **NARROW POWER BINNING TOLERANCE** to reduce current mismatch loss in single string

Typical I-V Curves



Performance Warranty



SystemDetails– 14KW/3Ph

S/N	Item	Specifications/Make	Quantity
1	PVPanel	550Wp /24PV GOLDIGREEN MODULE	18 pcs
2	Mounting Structure	Galvanised Structure	1sets
3	ElectricalControls	IncludesJunction unit,DC Distribution,AC Distribution with suitableMCBs&Cables	2set
4	Cables –Toconnect PVPanel–Inverter– Distribution Board	Polycab make4sqmm/6sqmm /16sqmmCu 1coreblack/red, 35/70sqmmAl4CoreArmoured	AS PER REQ.
5	Inverter	GROWATT Make String Inverter – 10Kw/3 Ph	1Set
6	ElectricalAccessories	PVC Pipe,Conduit,Lugs,Gland, Clip,Tie,Wireetc	AS PER REQ.
7	Earthing& Lightning Arrestor	Panel,DB &Common Earthing, Lightening arrestor	1set
8	NetMeter	THREE ph with10-40A rating WC 1.0Saral	1set
9	Installation		1set

Annexure VI

Financial analysis

YEAR	PER YEAR GENERATION ENERGY IN KW	PER YEAR UNIT CHARGE IN RS	PER YEAR SAVING IN RS	PER YEAR MAITENANECE CHARGE IN RS	NEAT SAVING PER YEAR IN RS
1	21168	11.71	247877.3	672	247205.3
2	21041	11.8271	248853.9	705.6	248148.3
3	20914.7	11.94537	249834.4	740.88	249093.5
4	20789.3	12.06482	250818.7	777.924	250040.8
5	20664.5	12.18547	251807	816.8202	250990.2
6	20540.5	12.30733	252799.1	857.6612	251941.4
7	20417.3	12.4304	253795.1	900.5443	252894.6
8	20294.8	12.5547	254795.1	945.5715	253849.5
9	20173	12.68025	255799	992.8501	254806.1
10	20052	12.80705	256806.8	1042.493	255764.3
11	19931.7	12.93513	257818.6	1094.617	256724
12	19812.1	13.06448	258834.4	1149.348	257685.1
13	19693.2	13.19512	259854.2	1206.815	258647.4
14	19575	13.32707	260878.1	1267.156	259610.9
15	19457.6	13.46034	261905.9	1330.514	260575.4
16	19340.9	13.59495	262937.8	1397.04	261540.8
17	19224.8	13.7309	263973.8	1466.892	262506.9
18	19109.5	13.8682	265013.9	1540.236	263473.6
19	18994.8	14.00689	266058	1617.248	264440.8
20	18880.8	14.14696	267106.3	1698.111	265408.2
21	18767.5	14.28843	268158.7	1783.016	266375.7
22	18654.9	14.43131	269215.2	1872.167	267343.1
23	18543	14.57562	270275.9	1965.775	268310.2
24	18431.8	14.72138	271340.8	2064.064	269276.8
25	18321.2	14.86859	272409.9	2167.267	270242.7
TOTAL	492794	15.01728	6498968	32072.61	6466896

RV SAURURJA SOLAR SYSTEM SOME PROJECT SITE







THANKING YOU...

