

GSTIN NO:	19ABBCS5489G1ZV
MSME UAM NO.	WB10D0019241
START UP INDIA	DIPP60018
NSIC GPEC NO.	NSIC/GP/SKO/2020/0044096

SARN Solar Solution Private Limited

CONTACT NUMBER:-9432689034 / 7003792405/ 9331779747 / 7980181480

Whats app No.: 9432689034 / 7980181480

WEBSITE: www.sarnsolar.in

Mail ID: sarnsolar@gmail.com / contact@sarnsolar.in

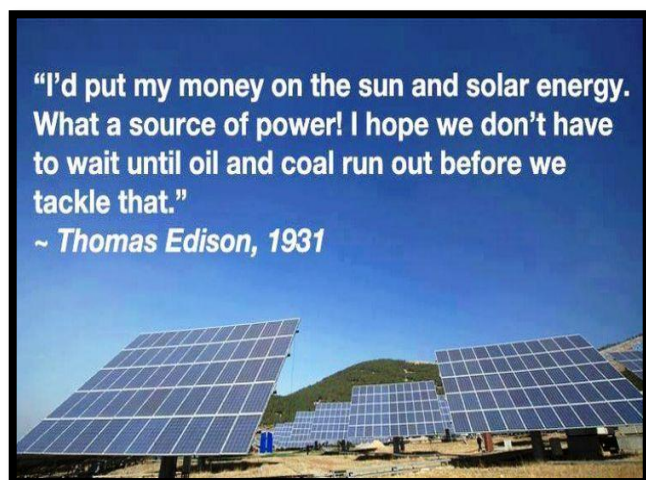


**** [SARN: "Sensitive Awareness through Revolution Network"] ****

Ref. No.: SSSPLPXXXXXX/02

Date: XX/XX/XXXX

PROPOSAL FOR ON GRID SPV ROOF TOP POWER SYSTEM (ON GRID *2* KW SYSTEMS)



Presented by:

Mr. Rakesh Naskar

Director

SARN Solar Solution Private Limited

Presently involve in Research work
School of Energy Studies
Jadavpur University
Ex Assistant professor (11+yrs Experience)

Kind Attention: XXXX

Subject: Offer for *2 KW* on grid Solar PV System

Dear Sir/Madam,

With reference to our discussion and after site visit, we concluded that as per the approximate Lightening load, we will provide suitable system at your premises. Therefore, after accounting the cost effectiveness and studying the average minimum power requirement per hours; the balance of power would automatically be drawn from the existing Electricity Connection without any disruption.

We submit our Proposal of Supply, Installation, Testing and Commissioning of suitable On Grid SPV Power System.

*******After Work Order and Advance Payment We Will Provide SLD, Financial Report, Structure Design, Wind Analysis Report, Delivery Challan, And Project Commissioning Report & all necessary documents as per CESC/WBSEDCL Rules Followed by WBERC per Govt. Rules.**

****OUR ALL ONGRID PROJECT CERTIFIED BY MSME OR STATE UNIVERSITY RENEWABLE ENERGY DEPARTMENT****

Office Address:

"SWAPNA NEER" Apartment, 1st Floor, R.N.C Road; Subhasgram. West Bengal, Kolkata-700147 (Follow GPS)

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ON GRID SOLAR SYSTEM 2 KW SYSTEM QUOTATIONS:

S.N	Item (System Parameters)	Basic Price (Rs. /-)	Applicable GST (Rs. /-)	Total Amount (Rs. /-)
1.	i) Solar Panels: 2 KW (335 WATT *6 NOS.) Supply and Installation of solar PV Modules [Make: Saatvik/Sova/HR/Reputed](All World Top Brands) [Rs.21/- per watt] ii) Solar On-Grid Inverter: MPPT Supply and Installation of Grid –Connected 2 kw corresponding IEC Standard (Make: Power-one /Radius/THEA/Reputed Brand) [Rs.11/- per watt] iii) Balance of System (BOS): Earthing kits, AC& DC cables, Main LT cable, cable trays, conduit pipes, tie, lugs, branch connector, MC4 Connector, ACDB & AJB Box, Lightening Arrestor, Mounting structures & Fastener nut, SS Nut as per requirement. [Rs.7/- per watt]	78,000/- (39/- per watt)	HSN CODE: 85 (GST 12%)	87,340/-
2.	EPC & I&C (Engineering, Procurement & Commissioning): Design, Supply, Installation, Testing and Commissioning of Project Civil and mechanical & Electrical works	10,000/- (5/- per watt)	HSN CODE: 9954 (GST 18%)	11,800/-
Project Cost Exclude GST		88,000/-		
Taxes ; GST Amount			11,140/-	
Transportation Cost on actual basis or at fixed value after final site survey				
Total Project equipments Cost for ON GRID Solar System (Inclusive of taxes, duties (Round of Figure :)			99,140/-	
Total Project equipments Cost for ON GRID Solar System IN WORDS (Inclusive of taxes &, duties)			Ninety Nine Thousand One Hundred and Forty Only.	
Bank A/c Holder Name: SARN SOLAR SOLUTION PRIVATE LIMITED Bank Account: 920020063669568 IFSC: UTIB0001481				

Revenue Generation Process :

3066 kwh*8/- = 24,528 /-* 4.5 years= 1,10,376 /- (Average Savings per month Rs.2,000/-; Guaranteed)

Return on Investment: Within 4.5 Years with Interest

Total Project life: 25 years and beyond this lifetime.

WEIGHT:

Weight of Modules: 23 kg X 6 = 138 kg

Weight of Structures & Foundations: 30 kg per KW i.e. 30 X 2 = 60 kg

Total Load on Roof: 198 kg.

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Technical Specifications for 2 KWp Rooftop power plant

Sr No	Item	Specifications	Make
1.	Modules- Poly-crystalline	335 Wp including module interconnection MC4 Connectors (Indian Make with RFID TAG)	Saatvik/Sova/HR
2.	Grid-tie Inverter	Grid-tie On-line Solar String Inverters	THEA/Power One
3.	BOS Components	04 Sq. MM TUV approved Type 1, Solar Cable for DC side	Polycab
	Multi-strand Cable for AC Side		Polycab/Havells/Mescab
		MC4 Connectors suitable for 4 sq.mm Cable (Male & Female)	Multi-Contact
		Solar LT panels with generation meter and MCCB for isolation	Siemens/L&T
4.	Module mounting Structures	Module Mounting Structure on RCC rooftops – Hot Dip Galvanized (85 Micron)	Reputed
5.	Grounding And Security System	Treated Earth Pits 50mm dia *30 m Cu Bonded Earth Rods with back fill compound.	Micro sense / Innove
		Lightning Arrestor-ESE or Conventional type with Earth Pit	Micro sense / Innove
		GI Strip (25 x 3 mm) for Plant Earthling	Reputed / SIGMA
6.	Cable Trays and Accessories	Cable Tray of required sizes	MNRE Approved
		Cable glands, lugs, ferruls etc	Reputed
		HDPE/ PVC pipes	Reputed
7.	Fire Fighting System	Danger Board	Reputed
		Fire Extinguishers Equipments	Reputed

Confirm to that our system as per latest condition of IEC equivalent BIS standard as specified below-

BOS Item Component	Standard of Description	Standard Number
Power Condition	Efficiency Measurements	IED 61683
Inverters	Environment Testing	IEC 60068 2 (6,21,27,30,75,78)
Charge Controller	Design Qualification	IEC 62093
MPPT units	Environment Testing	IEC 60068 2 (6,21,27,30,75,78)
Cables	Central Test and Measuring Method PVC Insulation cables for Working Voltage up to and Including 1100 v UV resistant for outdoor insulation	IEC 60189 IS 694/IS 1554 IS/IEC 69947
Switches /Circuit	General Requirements Connector safety	IS/IEC 60947 Part I,II,III
Breakers/Connectors		EN 50521
Junction Box/Enclosures	General	IP 65 (for Outdoor) IP 21 (For indoor) IEC 62208
SPV system	Design PV stand –alone System design	IEC 62124
	Verification	
Installation Practice	Electrical Installation of building requirement	IEC 60364 7-7 12

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General Terms & Conditions:

1. Warranty Terms:

Solar Panel: Performance output warranty – 25yrs. (10 yrs manufacturing Warranty)

Solar Inverter: Warranty for any manufacturing defect - 5 **years**.

System Installation: Workmanship Warranty - 3 **years**

Other Balance of material: Warranty as by manufacturer and as per approved guidelines.

2. Other Terms and conditions: Quotation validity: 30 days

Prices are for SITC (Supply, Installation, Testing and Commissioning).

3. Payment Schedule: A

30% Advance with Work Order for the Supply of Complete BOS Item. (Delivery: within 7 days) [Non-Refundable in case work order Cancelled]

50% Before Solar Panel, Solar Inverter Delivery at site (Delivery: within 15 days)

20% After Completion (Maximum within a week) of all works.

Our Offer Includes:

- Design, Engineering, Procurement, supply, commissioning & testing of complete system.
- Supply and Installation of 335 Watt modules.
- Hot dipped galvanized MS angle with fixed mounting structure with clamps. NA BUT UNDER OUR RESPONSIBILITY
- Inverter (*2*KW based suitable system MPPT Base as per IEC Standards).
- Cables. All DC cables will be UV from string to CB and then XLPE Al armored.
- Earthing kits lightning protection device –copper plate with neutral earthing, CI pipe for body earthing, array grid earthing.

The foundation and structures considered in our offer at present are based on certain generic assumptions

- technical parameters like wind speed and seismic zone.
- Mandatory electrical equipment spares are considered. (no module spares, but inverters spares considered)

Client's Scope

- 1. Provision of permission to work on site for I&C.
- 2. Provision of one living room with basic amenities at the factory premises for efficient flow of work and timely execution
- 3. Guidance/ arrangement of food facilities for Engineer & Labours during the erection stage
- (Food expenses paid by State University COLABORATED certified COMPANY SARN Solar)
- 4. Clear shadow free rooftop area for the installation of PV panels
- 5. Space for the installation and commissioning of electrical panels
- 6. Provision of NOC for installation and other paperwork for application
- 7. Facilities to be arranged by Buyer:
 - a) Electricity - Power shall be arranged by the Owner at its own cost i.e. Required at the time of Project Installation.
 - b) Water - Water arrangements will be done by the Owner with suitable storage arrangement if auto clean integrated at extra cost..

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Warranty does not cover

- 1. Damage, deterioration or malfunction resulting from:
 - 1.1. Accident, misuse, neglect, fire, water, lightning, or other acts of nature, unauthorized product modification, or failure to follow instructions supplied with the product.
 - 1.2. Damage resulting from faulty planning and / or installation of the entire system.
 - 1.3. Repair or attempted repair by anyone not authorized by producer.
 - 1.4. Damage to or loss of any programs, data or removable storage media.
 - 1.5. Software or data loss occurring during repair or replacement.
 - 1.6. Any damage of the product due to shipment.
 - 1.7. Removal or installation of the product.
 - 1.8. Causes external to the product, such as electric power fluctuations or failure or insufficient ventilation
 - 1.9. Use of supplies or parts not meeting producer's specifications.
 - 1.10. Normal wear and tear.
 - 1.11. Any other cause which does not relate to a product defect.
 - 1.12. Damage caused by static (non-moving) images displayed for lengthy periods of time (also referred to as "burn-in").
 - 1.13. Damage to, or abuse of, the coating on the surface of the display.
- 2. Removal, installation, and set-up service charges.
- 3.1. Damage to other property caused by any defects in the product, damages based upon inconvenience, loss of use of the product, loss of time, loss of profits, loss of business opportunity, loss of goodwill, interference with business relationships, or other commercial loss, even if advised of the possibility of such damages.
- 3.2. Any other damages, whether incidental, consequential or otherwise.
- 3.3. Any claim against the customer by any other party or by natural hazards never entertains by SARN Solar.

Required Space for Solar Plant

- Required for Solar Plant would be shadow free 80 sq.ft.PER KW SYSTEM

Duration of the work

- *** Days from the firm work order and conformity to payment terms(which later) (DEPENDS ON SYSTEM)

Payment Schedule :

Terms	Sequence of Payment in %	Amount in Rs.
Advance along with the issuing of work order for Supply of BOS	30 %	29,742.00/-
Before Solar Panel and Solar Inverter Delivery at site.	50%	49,570.00/-
After completion of installation and commissioning (Within 7 days)	20 %	19,828.00/-
	TOTAL	99,140.00/-

Other Terms and Conditions:

- Bank / Other charges: All bank / other charges outside Kolkata will be on the account of the buyers.
- This quotation will be valid till **2 Weeks**. Place of Loading: Kolkata, West Bengal, India.
- Delivery: - Ex-Stock.
- Insurance: - No insurance will be paid by the seller. If buyer wants to make the transit insurance then buyer can make it on his own by using original invoice before dispatch of the material.
- Freight charges from the warehouse of the supplier to the buyer's site shall be paid by the buyer on actual.
- Net meter/Net Billing liasoning as per Govt. rule at Client's scope but assist with SARN solar.

Schedule: Completion within 30 days from the date of Purchase order or Advance Payment whichever later.

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➤ Few Sample Projects of SARN Solar Solution Pvt. Ltd. :



Q. Why Client's first preference will be SARN Solar Solution Pvt. Ltd., no other company?

1. We are doing project in collaboration with West Bengal State University Renewable Energy Department. University Professor will visit so many times up to commissioning then that project will certify at university letter head as project Certified by concerned state university.
2. Four highly experienced Professors are advisor, director and governing body member of this company to make awareness program for sustainable future and also through execution by project to reduce carbon emissions & global warming.
3. All associate software we are applying to provide best optimized system which highly need academic background.
4. No headache from client's dimension after work order till the project execution. Total responsibility up to net metering of SARN Solar
5. Three years free maintenance support

So,

Just trust us....

SARN Solar can assure u,

Gain better than your expectations...

From Company's documentation end...

Company start up India registered

•ISO Certified..

••MSME registered...

•••Trade LICENCE

••••Valid GST, current Account, IEC registered..

•••••PF ESI registered company

3 yrs cleared PTax updated.

GEM NSIC, MSME smart hub registered

WB tender online registered Company

MCA portal updated all ROC documents till date

These are company profile point of view

Company has completed Jadavpur university tender works.

Company has completed more than 150 kw On-Grid Solar Projects so far and 2 Projects of 300 Kw are in pipeline.

So again just trust us.

Again,

Just think for next generation.. Just try to reduce carbon emissions, try to do for society then

SARN Solar always with you....

We request you to trust us that we have proposed you with the best of the best products at the best possible cost. Our vision is to spread this awareness about the benefits of clean & green energy. Please feel free to contact us in case of any further clarification/ query.

Thanking You

Yours Truly,

From,

Mr. Ayan Ghosh

(Mob: 9831289698)

Executive Engineer

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