

## Technical Proposal



Thank you for giving SolarFlare the opportunity to promote clean energy and a safer environment for our future generation. It's a noble thing to care for nature and offset the adverse effects on our environment by our carbon emissions.

The cost of electricity from NEPRA is rising every day, and the importance of maintaining a healthy environment grows every day. Installing a solar energy system is a cost-effective, green, and clean way to reduce your environmental footprint. This comes with an added advantage of decreasing or even eliminating your monthly energy expenditure.

SolarFlare promotes solar energy as it is inexpensive, simple, clean, eco-friendly and the smartest choice of energy. Your rooftop will be harnessing the energy of the abundant nature's gift to man – Sun. Solar energy is non-polluting and renewable. The average life of a solar system installed by SolarFlare will be 25 years, your new system will offset your carbon footprint by more than 25 tonnes of carbon dioxide which is equal to planting 45 Acres of trees. We want to save electricity bills and manage your energy resources so you always have the highest availability of energy at the lowest possible cost.

Our Integrated Monitoring System for the inverters will be available to you 24/7 for monitoring and reporting of the solar system installed at your premises. In the event of any technical problem, SolarFlare can monitor your systems remotely and diagnose the problem and send a member of our technical team to help you fix any issue you can face with your solar energy system.

We hope to help you get more energy independence by providing a good investment for the coming years and helping you make a more positive impact on the environment.

Regards,  
SolarFlare Team

System Details	
System Watts	Approximately {SystemKiloWatts} Kilo Watts
Panels	Tier-1 Panels Longi/Jinko/JA/Trina– 25 Years Workmanship Warranty
Inverter	New Inverter Value
Structure	New Structure Name
Roof Angle	-SystemAngle
System Type	-SystemType
Meter Phase:	3-Phase Meter Required   Sanctioned Load > -SystemKiloWatts/1.5 Required

## **Technical Details**

Monthly Calculation	
January	1700
Febraury	{75*SystemKiloWatts}
March	{75*SystemKiloWatts}
April	{75*SystemKiloWatts}
May	{75*SystemKiloWatts}
June	{75*SystemKiloWatts}
July	{75*SystemKiloWatts}

### **Electricity Units Generation per Month – Estimated with Optimal Conditions**

The proposed system will produce the following energy according to SolarFlare estimates based on optimal conditions.

Energy Details	
Annual Production	{SumOfMonthlyUnits} Units
Average Monthly	{SumOfMonthlyUnits /12} Units
Yearly Savings	Rs. {SumOfMonthlyUnits*50}
NOTE: This calculation uses optimal conditions for the solar generations and the price of electricity is calculated to be 50 Rs/kWh.	

## Equipment Details

Item	Description
Solar Panels	{SolarPanelsQuantity} x {SolarPanelName}
Inverter	{InverterQuantity} x {goodwe}
Equipment	All Imported/Genuine Equipment {DcBreakersQuantity} x Breakers [CLBE/CNC/Tomzn/Suntree/ABB] {DcSpdQuantity} x DC SPDs [CLBE/CNC/Tomzn/Suntree/Schneider/ABB] {AcSpdQuantity} x AC SPD [Tomzn/Suntree/Schneider/ABB] {AcBreakerQuantity} x AC Breaker [Tomzn/Suntree/Schneider/ABB] External Disconnect Switch – 4Pole [CLBE/CNC/Suntree] MC4 Connectors Imported Internal DB Box of High Quality External DB Box with Canopy Lightning Arrestor DC Cable For Installation – [LAPP Germany, Fast, Pakistan Cables] AC Cable For Installation – Minimum 6mm/16mm/25mm [Fast Cables] UPVC Pipes, Lugs, Channels, Conduits, Ducts – Only Top Quality All All Pure Copper Equipment for Ground Bores
Structure	{StructureQuantity} x {StructureName}
Batteries	{BatteryQuantity} x {BatteryName}
Misc.	System Design and Simulations Structure Installation Electrical Installation 3 <sup>rd</sup> Party Quality Inspection Transportation of Equipment AC and DC NEPRA Approvable Bores Labour Charges



## **SolarFlare VS Others**

Item	SolarFlare	Other Installers
Solar Panels	Mono PERC Technology—Tier 1 Panels – Jinko/Longi/JA/Trina-25 Years International Warranty 580 Watts	Poly/Mono – Tier 1 – 400+ Watts
Inverter	Only Tier 1 Inverters —5 Years Warranty	All Inverters
Equipment	Imported and Genuine Equipment. No Lot Purchased Or Copy 3ft Pure Copper Lightning Arrestor	Lot Purchased and Counterfeit Products. Some use original. 1ft Lightning Arrestor of lesser purity.
Structure	Aluminum Alloy Structure GI Structure 14 Gauge With Civil Work	GI Structure no Gauge Warranty. No Civil Work. Reluctance to install Aluminum Structure.
Cables	DC Dual PVC or XLPE Low Smoke >= <b>4mm</b> Genuine Cables Only. LAPP/Fast/Nafees DC Cable for Solar System Connections Shama DC >= <b>6mm</b> For Earthing Fast Cables AC >= <b>6mm</b>	4mm Genuine DC Cables 4mm AC Cables 6mm AC Cable for Earthing
Earthing	Two Bores with NEPRA Approvable Depth Bores both for AC and DC. Pure Copper Rope Wire Pure Copper Strip	One Bore of 15ft Depth 16mm Copper Wire Copper Strip
Net Metering	Net Metering Application Complete Process.	Only Net-Metering Process
Values	Professional Installation Absolutely no Compromise on Quality Neat, Symmetrical, and Tidy Workmanship Quality Civil Work Included without any charges. Generation Reports Technical Analysis for PV Output and Structural Integrity before Installation.	Professional Installation Civil Work Charged Separately Generation Reports are shared rarely

## **Payment Details**

<b>Commercial Details</b>	
System Price	Rs. {TotalSystemCost+Margin}
Initial Payment	Rs. {TotalSystemCost}
After Installation	Rs. {Margin}
System Price contains <b>ALL</b> expense related to Solar System Installation	

### **Payment Plan:**

The payment plan of the complete system is as follows:

Advance Payment – ~90% - After confirmation of the Client Installation.

After Installation – ~10% - After complete installation and commissioning of the system.

## **Terms and Conditions**

- **Quotation is valid for 3 days only.**
- Net-Metering is LESCO and NEPRA dependent, normal installation time for bi-directional energy meter is 2-3 working months.
- We will try our best to expedite the Net-Metering process from each and every resource available.
- All charges mentioned are inclusive of all taxes.
- Complete System Design and Simulation reports will be shared after confirmation and initial payment from client.
- This offer is subject to standard force majeure conditions.
- Delivery and installation time is 14 Working Days after initial payment.
- The cable wire prices may vary depending on AC/DC Wiring Length.
- Our scope of work does not include load balancing and inter meter connections.
- Sanctioned Load Increase is at customer's end.