



TECHNO COMMERCIAL PROPOSAL FOR 4KW ON-GRID SOLAR POWER PLANT



SUBMITTED TO
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AGRA

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DATE: 01 Dec 2023

Proposal for 4 KWp On-Grid Solar Rooftop Power Plant

Dear Sir,

We take this opportunity to introduce ourselves as 'Maas Global Enterprises'. The company is backed by a very strong technical team and is competent to execute contracts by providing high quality products & services for system integration starting from Design, Consultancy, Supply, Installation, Construction, Commissioning, Operation & Maintenance of all types of On-Grid Solar Power Projects.

Renewable Energy has been a buzzword for at least the entire last decade in India. Governments both at center and the state have tried to ease solar policy and offer lucrative tax options as well as power purchase agreements for investors. In the last one year, India has raised the solar production target from 40 GW to 100 GW out of which 60 GW would be ground-mounted projects and 40 GW will be roof top projects. The roof top market has become attractive with clear net-metering policies announced recently, which helps commercial and industrial consumers move to solar with costs at par with traditional electricity.



The solar plant unleashes following benefits:

- Ø Easy Integration to your utilities.
- Ø Convert unused roof space into a valuable energy resource.
- Ø Huge Tax benefits AD benefit 1year 40%, 2nd year 40% and 3rd year 20%.
- Ø Return on investment within 5 years.
- Ø Sell extra energy to government through net metering.
- Ø Save environment from carbon pollution.
- Ø Long Life of 25 Years.
- Ø Low Operation & Maintenance.
- Ø Green, clean, Quiet and Visually Unobtrusive.
- Ø Long term energy security.

We are pleased to place an offer for setting a **4 KWp, On-Grid Solar Rooftop Power Plant**. Pursuant to the issue of work order against this offer, **MAAS GLOBAL ENTERPRISES** shall perform the services in adherence with the details and 'Scope of Work' mentioned hereto.

The timeline for engineering, procurement, construction and project commissioning shall be **1-2 months** from the date of clearance of the first advance cheque after receiving the NOC from the Distribution Company.



Technical Specification for SPV Systems

S. No.	Item Description	Details	Make
1.	PV Modules	Cell type: + 535 Wp DCR Mono Bifacial Crystalline Silicon Only positive tolerance modules will be used	MICROTEK
2.	Inverter	Type: String Inverters, Single Phase Size: 4KW	MICROTEK
3.	Module Mounting Structures	Hot dip galvanized (80 Microns) All structures are designed for local wind and warrantee for (150Km/Hr. maximum speed) and weather conditions.	STANDARD DESIGNED BY THE MAAS GLOBAL
4.	DC Cables	Type: Electron beam cross linked cable, XLPO Size: 4 sqmm Conductor: Copper	Microtek/ Polycab or equivalent
5.	Connectors / Y - Connectors	Multi Contact (MC4)	STANDARD



6.	Earthing	Type: As per IS Earthing Material: 3 GI EARTHING All wires used for earthing will be copper.	STANDARD
7.	LT Cables	Type: 2 core Cable Conductor: Copper	MICROTEK/POLYCA B/ HAVELLS
8.	Cable Trays	Type: Perforated Hop dip galvanized	STANDARD
9.	LT Panels	Breaker Type: MCB/MCCB	STANDARD
10.	Lightning Arrestor	Lightning for Protection Units	COPPER BOUNDED

NOTE:

1. Above Items may change subjected to the Site Conditions/ Availability/ Requirements.
2. All the specification and items are subjected to the standard south facing Tin Shed/RCC without any shading.
3. Generally 100 Sq. ft. (Shadow-Free) area is required for 1 KW system.



Price Quotation

Dear Sir,

We thankfully acknowledge the enquiry of Design, Engineering, Supply, Installation, Testing, Commissioning and Warranty of 4kWp Solar Power Plant. We are pleased to submit our price quotation as under.

S.NO	DESCRIPTION	COST TO CUSTOMER
A.	Supply, Installation & Commissioning for 4KWp On-Grid Solar Rooftop Power Plant	2,10,896/-INR
B.	GST	29,104/-INR
	NET PAYABLE COST	2,40,000/-INR
	Less Central Subsidy	51,058/-INR
	Less State Subsidy	30,000/-INR
	NET EFFECTIVE COST	1,58,942/-INR ONE LAKH FIFTY EIGHT THOUSAND NINE HUNDRED FORTY TWO ONLY .

***Note - Both subsidy will be credit in your bank account .**

•Note - Net Metering Charges Extra .

We hope you will find our offer very competitive and all the above in line with your requirements . If you require any further information/documents please feel free to contact us. We would be pleased to submit same on hearing from you, at the earliest.



Terms and Condition

1.	GST	13.8%
2.	Payment Terms	<p>1) 30% Advance against Release of Order.</p> <p>2) 50% After the release of TFR before the time of delivery of material.</p> <p>3) 20% at the time of installation.</p>
3.	Scope of Work	<ul style="list-style-type: none"> • Feasibility Analysis and preparation of DPR. • Complete Design and Engineering of the project. • Supply of Material for Rooftop Solar Power Project. • Complete Erection and Installation of Rooftop Solar Power Project. • Commissioning under State Net Metering Scheme. • Comprehensive Annual Maintenance contract. • Supply of equipments for Net Metering arrangement.
4.	Warranty	<p>PV Modules - 30 Years performance based & 10 Years manufacturing defect warranty</p> <p>Inverters – 10 Years warranty</p> <p>BOS – 5 Years warranty</p>



5.	AMC	<p>We will provide 5 Years Warranty for complete Solar powerplant and cover under following work:</p> <ol style="list-style-type: none"> 1. Under the Warranty services, we will provide periodically and breakdown maintenance of the solar powerplant and their arrangements. 2. In case of any breakdown, remote support from our service engineer will be provided and service engineer shall visit within 2 days after official intimation. 3. In Warranty Period, we will cover replacement of all parts for manufacturing defects. <p>NOTE:</p> <ol style="list-style-type: none"> 1) In Force Majeure condition, Maas Global will not cover replacement of any equipment. 2) Cleaning of Solar PV Panel will be in customers scope.
6.	Validity of Offer	15 Days from the date of offer. After this period, a confirmation has to be taken.



7.	Client Scope	<ul style="list-style-type: none"> ☞ Cleaning of modules to be done atleast once a week using water jet pump.. ☞ Roof Access to be arranged and provided by the client ☞ Electricity & Water shall be provided by client during the construction ☞ Internet connection and basic PC availability required for remote monitoring of the SolarPV system.
8.	Force Majeure	<p>If at any stage during the period of the contract, the performance of any obligations under the contract is prevented or delayed wholly or partly be reasons of war, hostility, fire, floods, lightning, epidemics, sabotages, quarantine restrictions or other acts of God, Government or Law (herein after referred to as eventuates) then a notice of the happening of any such eventuality will be given within 7 days from the date of occurrence. In such case neither party shall, by reasons of such eventuality, be entitled to terminate this contract the order in respect of such non-performance or delay and the performance and deliveries of the contract will be resumed as soon as practicable after such eventuality has come to an end or ceased to exist.</p>
9.	Net Metering Connection	<p>All government related fees/securities and equipments for Net Metering arrangement will be in client's scope.</p>