SUSTAINABLE®

SOLAR MODULE MOUNTING STRUCTURES

RISING
TO A MORE
SUSTAINABLE
FUTURE

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ROOF MOUNTING STRUCTURES | GROUND MOUNTING STRUCTURES | CUSTOMIZED STRUCTURES
1. Solar represented 2.5 per cent of the net installed capacity in India, up from 1.4 per cent a year ago, and was the fastest growing new energy source in the country.
2. Solar accounted for 17.4 per cent of all renewable energy generation target of adding 12,000 MW of capacity in 2016-17 and 15,000 MW of capacity in 2017-18.
3. India's total installed solar power capacity stands at around 6,998 MW as on April 30th 2016.
4. India's target for solar power has been upgraded by five times from 20,000 MW to 100,000 MW (100GW) by 2022.
5. The Indian solar energy sector is expected to grow at CAGR 25% YOY over the next few years.

**SOLAR FACTS**
- 25% CAGR
- 100GW CAPACITY BY 2022
- 15,000MW CAPACITY BY 2017
- 7GW ACTIVATED BY APR. 2016
- 25% CAGR

**FROM DESIGN TO INSTALLATION**

**PREMIER GROUP** - A well diversified 20 Yr old Conglomerate with an Annual turnover of Rs 1500 Crore whose operations range from Manufacturing of Reinforcement Steel (TMT BARS, Billets, PVC & steel pipes) & Precast Concrete and recently forayed into Real Estate construction.

Our works are situated in an area of more than 15 Acres (60703sq.mtr) at Bindki Road, Fatehpur(U.P.) has an installed Annual capacity of Rolling/Forming of 1,20,000 MT of various components of Steel Structures required for fabrication of ‘Module Mounting Structures’ & other Engineering Structures. Our State of the Art Cold Forming Mill for the manufacture of Special Sections & profiles like various ‘C & LIP Sections’ is capable of meeting all types of requirements for Solar Panel installations.

Our In-House Galvanising Plant is capable of Galvanising 3000MT Material per month. We can provide excellent quality of Galvanising from 80-120 Microns as per customer’s requirement. We procure our basic raw material i.e. HR Coils from SAIL, TATA, ESSAR & JSW, we have MOU’s for regular supply of Material with them.

We have a Power Back up of 860 kVA, 500 kVA, 125 kVA & few small DG Sets to meet the stand by requirement of Power.
PRODUCT PORTFOLIO

PREMIER offers complete solution from design to manufacturing/supply of various types of:

1. GROUND BASED MODULE MOUNTING STRUCTURES (MMS)
2. MODULE MOUNTING STRUCTURES ROOF TOP
3. CUSTOMIZED MODULE MOUNTING STRUCTURES
PREMIER offers end-to-end solutions for ground-based module mounting structures for solar installations, from design and fabrication to galvanization and installation. Our ground-based module mounting structures can be quickly delivered and are easy to install. These durable structures are an ideal solution for rural properties as they can be used to mount Photovoltaic panels on mountainous and rough terrain. Based on the project locations, our products are hot dip galvanized to a thickness of 80 to 120 microns. Following solutions are available as per project requirements:

- Seasonal Tilt Controlled Module Mounting Structures
- Single Axis Daily Tracking Structures
Seasonal tilt is a ground mount structure solution that is designed to accommodate various tilt angles. Optimum generation output can be achieved by changing the structural tilt angle at least twice during the year.

On the basis of the design and operative components, it can be classified into:

A) CURVED SLOT

B) HINGE MECHANISM

- Design wind speeds: 120-200 kmph
- Orientation: Portrait / Landscape
- Tilt Angle: Optimal tilt angles determined via PVSyst.
- Ground Clearance: 500-800 mm
- PV Modules: Crystalline / Thin film
- Approximate Mass of structure excluding the module weight: 5-8 kg/m² (Typical)
- Concrete consumption: 80-100 m³/MWp (Typical)

SINGLE AXIS TRACKING STRUCTURES

Automated tracking of daily (E-W) movement of sun from the angle -45 degree to 45 degree. The pole made from hot-dipped galvanized steel, and other structural elements from anodized aluminium.
Roof mounted solar structures are ideal for urban environments and large industrial estates where ground space is premium.

PREMIER provides excellent design that are economical, easy to install and also very light so that the roof structure is not damaged. The structure designs are standardized and their modular nature ensures easy installation and maximum utilization of roof spaces. All structures are designed to ensure minimum drilling on the roof and also to avoid any water leakage. PREMIER supplies module mounting structures for both flat roofs and sloped roofs.

**BALLASTED ROOFPOT STRUCTURE:**
Non penetrating rooftop solution suitable for small KW systems (250W-2KW) on flat rooftops with plenty of roof space and parapet walls.

**PENETRATING ROOFTOP STRUCTURE:**
Low cost compact structure suitable for flat roofs and small to mid sized installations (1KW-100KW).
Our design and engineering team provides specific solutions for the requirements of our valued customers, based on the soil conditions, wind velocity, latitude and longitude.

Other than these, U-Solar offers customised mounting structures for its installation with a complete study on load bearing capacity of the building while also considering the aesthetics and functional aspects of access to roof area.

Our customised offer for module mounting structures include:

1. Customize carport structures
2. Elevated module mounting structures (upto any height)
3. Grout less and grouted structures
4. Special structures for industrial rooftops, sloped roof etc
5. Light weight and rust proof structures
6. Robust structures to withstand high wind speeds
7. Parking canopy structures (Car parks as mounts for Solar PV systems)
PREMIER brings together global technology expertise and local understanding to provide solar solutions best suited for the region.

- Our solutions combine low-impact, pre-fabricated form factor with advanced optics and software engineering.
- Our solutions are cost-effective and competitive irrespective of scale due to indigenization of the components and equipment so as to bring down the cost per MW.
- Capability to handle large/multiple solar installations, with speed of deployment.

FABRICATED STRUCTURE (FINISH)
- Hot-Dip Galvanized
- Pre-galvanized (GP Sheet)

SPECIFICATIONS
- Thickness: 1.2mm to 4mm
- Length: As per customer requirement
- Material: CR Steel, HR Steel & Galvanized Steel
- Yield Strength: 245MPA to 550MPA
- Galvanization Thickness: 80 microns to 120 microns
We provide premium quality from the onset - in the material selection, the production in state-of-the-art manufacturing facilities. Our products are tested regularly to guarantee that they meet our high quality & safe standards.

**Fabrication Plant | Galvanizing Plant | Laboratory**

**FABRICATION PLANT:**
- CNC machines for precision in fabrication.
- Capacity of 4,000 MT per month.
- Machinery capable of handling high tensile steel.

Sizes used in solar MMS are

- 160CSx50x20x2
- 200CSx50x20x2
- 80CSx40x10x1.2
- 100CSx40x10x1.2
- 60CSx40x10x1

- State-of-art material handling facilities
- Proto-assembly facilities.
- Large facility for storage
GALVANIZING PLANT

- Modern galvanizing plant equipped with automatic temperature control.
- Galvanizing Capacity of 4,000 MT per month.
- Pre-treatment of steel using special chemicals.
- Well controlled process for achieving zinc coating up to 120 microns.
- Hot plate for uniform drying & preheating.
- State-of-art material handling facility.

LABORATORY

We have a most modern Quality Control Lab with latest Testing Equipments. The process starts with the monitoring of Quality of raw material received in the factory & at every stage we keep a strict vigil to monitor all the parameters. We also have ISO 9001: 2015 certification. All our Products adhere to various Indian and international standards.