



**ISUN GROUP**  
GROW WITH SUN



*Grow with Sun*

- Solar Rooftop Project
- Ground Mounted Project
- Structure Manufacturing



GEDA



APPROVED BY:

# **SOLAR ENERGY**

## **TODAY'S RESOURCE FOR A BRIGHTER TOMORROW!**



## **Company Profile**

**ISUN SOLAR** Is an Indian company which works to uplift the world environment for a better future. Since Renewable Energy will be the future of world's energy supply as solar energy is one of the most potential renewable energy, We aim to reach every part of the world to secure the environment and make energy available to all for longer period.

We would like to introduce our Firm "**ISUN Solar Pvt Ltd**" as a Structure manufacturer & Supplier of Solar Rooftop & Solar Ground Mounted Project. We hope that the products offered by us may be quite useful for your diverse solar applications.

We have Dedicated and Experiences team for Manufacturing Solar Panel mounting structure, Project designing, Project installation and Services.

**ISUN SOLAR** Providing the complete Performance Spectrum in regard to generate power from sunlight, from the initial planning phases through to delivering fully functional turnkey solar solution. Our solution will meet any kind of unique needs.

We have never compromised the quality and the services provided to our customer. We believe in keeping the customers most satisfied and supply them with products at most competent price.

### **Who We Are ???**

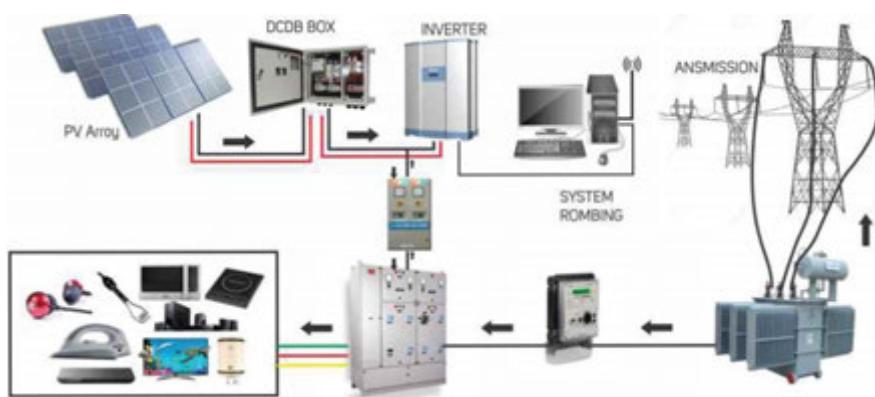
We are young group of engineers and highly interested in Renewable sources of power generation.

As you aware that the Electricity is big issue of world. **ISUN SOLAR** was born out of compassion for green and clean environment and the zeal to find solutions for the power crisis in India for an overall development of rural community too.

The demand for energy is rising day by day with the rapidly increasing Indian population. Moreover, most of the rural region of India have inadequate, minimal or no electricity, which is a vital ingredient to the development for any community.

# Grid Connected Solar Rooftop Project

We provide Customised turnkey solution for Grid Connected Solar Rooftop Project from Site Survey to Commissioning of the Project.



- Up to 100 % Saving in Electricity Bill
- Net Metering Facility
- 4 to 5 Year Project Payback
- Cheaper than Current Electricity Rate
- Accelerated Depreciation Benefit
- 25 Year Long Lasting Life
- Nominal Maintenance

## ■ Our Services

- ⇒ Site Analyses and Technical Feasibility Study
- ⇒ Project Investment, Payback and IRR Analyses
- ⇒ Techno-commercial Proposal
- ⇒ Project Planning, Controlling and Management
- ⇒ Engineering, Procurement and Construction
- ⇒ Technical & Document Support for Approval & Permission from Government

## ■ Solar System for

- ⇒ Industrial/ Manufacturing Units
- ⇒ Commercial Buildings
- ⇒ Domestic/ Residential Buildings
- ⇒ Hotels and Restaurants
- ⇒ Educational Institutions
- ⇒ Hospitals and Clinics

## ■ Project Components

Pv Modules, Inverter, Module Mounting Structure, Cables, DCDBs, ACDBs, Earthing And Lighting Protection Devices, Monitoring Devices.

## Solar Panel Mounting Structure



**ISUN SOLAR** is engaged in manufacturing and supply of solar structure section for various applications such as: Solar structure-Purlins, Struts, Bracing Channels, Rafter Etc.

We have developed Standard Solar PV Panel Mounting structure suitable for all kinds of Flat Roof/GI Sheet Roof/Slopped Roof/Dome/Ground, In this you can fix any company's and any watt modules there is no limitation. We can design the structure for any type of roofs as per customer requirements.

## Features to be provided in Structure

- ⇒ We provides STUD report as per 150km/hr wind speed.
- ⇒ We provides HOT DIP GI Test report for government purpose.
- ⇒ We design structure as per MNRE norms.
- ⇒ Total assembly done by bolts & nuts which reduces heavy costing of transportation and material handling.
- ⇒ We have given slot in all components so on site installation will be trouble free and time saving.
- ⇒ Base on the project location, our product are HOG to a thickness of 80 to 120 microns.
- ⇒ Factory-finished, cut to exact length with pre-punched hole to avoid time & material wastage
- ⇒ In Ballast structure no need to drilling in roof, easy to fitting, Suitable for all type roof.

## Solar Panel Mounting Service (in House facilities)

- ⇒ Mechanical Clamp Design
- ⇒ Structure Design
- ⇒ Roll Forming (C Z HAT Section)
- ⇒ Coil Slitting & Punching
- ⇒ Online Punching



## Solar Panel Mounting Structure

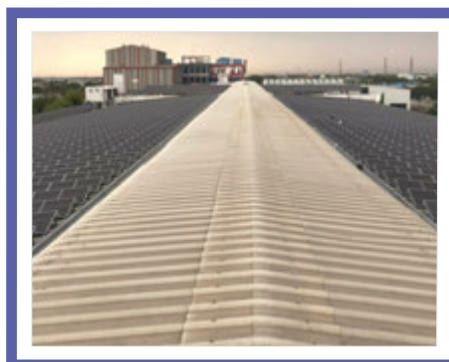


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Solar Panel Structure Mounting on RCC

Mounting on Dom Shed



Solar Panel Structure Mounting on Tin Shed

Mounting on Cement Roof



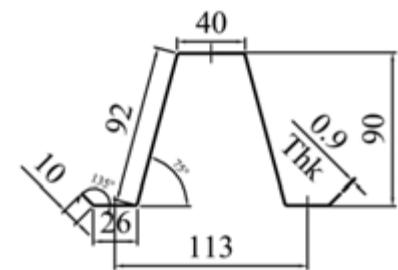
Solar Panel Structure Mounting on Ground



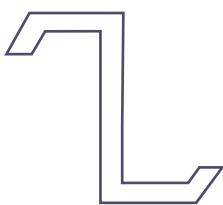
Our main focus and expertise are in module mounting structure for ground mount projects. Our knowledge in Solar Rooftop projects also adds up in designing the structure.

- ⇒ This will totally eliminate the panel distortion that occurs during tilting and will give uniform tilt to the table.
- ⇒ Our monthly capacity is 500 Ton for channels and we have state of art roll forming machines and equivalent hand on equipment to supply structures for up to 15-20MW per month.
- ⇒ Our ground mount structure solution offers more flexibility and installation easier than others. Our structures are designed to ensure cost effective solutions along with all design standards and methodologies.
- ⇒ Single leg structure gives less pile foundation per MW. Installation is easy even at uneven altitude and hilly terrain which results in cost saving.
- ⇒ Seasonal tilt installation
  - Easy adjustable tilt of 3 types as per geographical location.
  - Top link type jack to change the tilt of panels.
    1. 5-degree seasonal tilt
    2. 15-degree seasonal tilt
    3. 22-degree seasonal tilt
  - Increase in generation achieved to achieve generation targets easily.
- ⇒ Type of material
  - Pre Galvanized: Upton 550 gsm
  - Galvalume: 550 gsm
  - Post Galvanized: Hot dip to 80 to 120 microns
  - Aluminium

## ■ Cross Section Profile



HAT 90X40X26X10X0.9Thk  
HAT PURLIN



70x35x10  
300x80x20

Web: C 70-300mm Z 70-300mm  
Flange: 40-80mm  
Lip: 8-25mm  
Thickness: 1.5-3.0mm  
Lip angle: 90° - 135°  
Cold rolled coil  
Hot rolled coil  
Galvanized coil  
Yield Strength: 195-550Mpa

## 1. ENGINEERING

We design solar plants with optimum PV output committed to achieve the most affordable leveled cost of electricity in any region.

## 2. PROCUREMENT & PURCHASING

We are able to negotiate and supply bankable technology of key providers and services suitable to the project at the best terms possible.

## 3. PRODUCTION

We manufacture solar panel mounting structures at our warehouse, using new technology like roll forming, cutting, and banding.

## 4. PROJECT MANAGEMENT

From A to Z, We plan the whole process which take care of every detail to guarantee the utmost project completion.

## 5. CONSTRUCTION

We manage reference contractors to build the project, assuring the highest level of quality within the time and cost deadlines, in total compliance with local regulations.

## 6. COMMISSIONING

**ISUN SOLAR** carries out several commissioning tests to make sure that each power plant operates as designed and performs as expected.

 Operations & Maintenance

- ⇒ **Operate:** We operate the facility in accordance with applicable safety, occupational health and environment regulations.
- ⇒ **Preventive and Corrective Maintenance:** Inspection, testing, cleaning and preventive maintenance and /or corrective repairs and replacement are carried out, if necessary, as a part of good manufacturing practices.
- ⇒ **Infrastructure & Training:** We provide all necessary operation and maintenance training and required set of onsite testing instruments and equipment. We also provide associated power evacuation arrangements to the client's staff for successful takeover of the plant in due course of time.
- ⇒ **Manpower deployment & maintenance schedule:** Our operations and maintenance team comprises qualified and trained personnel.

 Our Commitments

- ⇒ Quality Product and Solutions
- ⇒ Timely Delivery
- ⇒ Cost Effectiveness
- ⇒ Total Customer Satisfaction

### Corporate Office

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### Manufacturing Plant

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