



AEDEI
JOB ORIENTED AND SKILL DEVELOPMENT INSTITUTE

SOLAR DESIGN TRAINING INSTITUTE

(ISO 9001:2008 CERTIFIED INSTITUTE) : NEW DELHI
(SOLAR POWER PLANT STRUCTURE DESIGN)



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Solar Power Plant Structure Design (SOLAR DESIGN TRAINING INSTITUTE)

Preliminary Plant Planning

- Site analysis
- Geotechnical investigation of solar farm land
- Analysis and validation of existing structures (for roof-tops)
- 3D layout modeling including shading analysis
- Plant Survey verification of land
- Existing building Roof load bearing capacity calculation

Module Mounting Structure Design

- Classification of various material for module mounting structure (MMS)
- Module mounting structure design for fixed tilt, seasonal tilt and tracker
- Properties of various metal (galvanized, Pre Galvanized)
- Structure design based on wind speed calculation
- Fabrication drawing
- MMS fastener specification
- MMS specification

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Project Infrastructure Engineering

- Various type (Prefab /RCC) Inverter room foundation and architectural designing
- Main Control Room foundation and architectural designing
- Equipment Foundation calculation
- WBM and Compact road lay outing
- Civil work BOQ

Module Mounting Structure Foundation

- Type of pile
- Difference between RCC pile and PCC pile
- Pile foundation calculation
- Pile Load bearing calculation
- Foundation diameter calculation
- Rooftop Structure foundation calculation
- Pile foundation marking / grid marking
- Pull out and lateral load calculation

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