

SOLAR PV INSTALLATION GUIDE

Your Quick-Reference Checklist for a flawless Set-up

DO

- ✓ Carefully verify module specs, match the system design and ensure two people carry each solar panel.
- ✓ Conduct a detailed physical site survey to map out nearby obstructions and roof dimensions.
- ✓ Install all solar panels facing the South direction to ensure the maximum power generation.
- ✓ Provide a minimum 100 to 150 mm roof clearance and apply chemical anchors for RCC setups.
- ✓ Maintain an exact 18 to 20 mm gap between all adjacent solar panels using proper mid clamps.
- ✓ Ensure you install an approved and properly rated AC and DC distribution box for system safety.
- ✓ Always use a proper crimping tool on original MC4 connectors and lugs to guarantee waterproof joints.
- ✓ Install a dedicated lightning arrester at the highest point and connect to an isolated earthing pit.
- ✓ Wear a full full-body safety harness with a double lanyard to effectively prevent fall hazards.
- ✓ Strictly follow standard MNRE guidelines and ensure the system commissioning report is filed.

DON'T

- ✗ Do not proceed if the unboxed solar panels show physical damage like cracks or bent frames.
- ✗ Do not install panels in shadow-prone areas near surrounding trees, water tanks, or buildings.
- ✗ Do not place heavy structural loads on tin metal sheds; always utilize clamp-based fixings.
- ✗ Do not use end clamps that fail to perfectly match the exact thickness of the module's frame.
- ✗ Do not leave UV-resistant DC cables loose or allow them to touch the bare rooftop surface.
- ✗ Do not install the system's solar inverter in locations exposed to direct sunlight or rain.
- ✗ Do not mix solar modules of varying wattages together within the exact same series string.
- ✗ Do not handle live electrical components without wearing suitable insulated safety gloves.
- ✗ Do not compromise on the mounting structure's overall quality or ignore wind load designs.
- ✗ Do not skip crucial administrative asks like netmetering or the warranty registrations.