

A. System Design

System size (kWp)	18.15
No. of PV Modules based on Max kWp	33
Required roof area on (m ²)	72.93
Total weight of the solar panels in the rooftop (kgs)	821.70
Inverter quantity	1
Aggregate capacity (kVA)	15.00

B. General Requirements

The scope of works includes and not limited to the requirements.

- Complete electrical engineering and design with electrical plans and system performance.
- Aluminum made mounting system for modules will be mounted on flat roof section.
- All DC cabling, protection devices and mounting hardware between the PV module and all AC cabling, protection devices and accessories between the inverters and main grounding lugs and clips are to be use to ground the panel to attain a possible lowest resistance. Grounding the panels prevents overvoltage caused by lightning surge.
- Technical documentations required for the application of building permits and net metering.
- System and specifications of materials to be designed by a licensed Professional Electrical Engineer in accordance with;
 - CEC (Clean Energy Council) Standard of Australia
 - Australian Standards of PV Installations (AS)
 - PEC (Philippine Electrical Code)
 - PDC (Philippine Distribution Code)
 - Local Distribution Utility Interconnection Requirements
 - Manufacturer's Standard and other local and international standards that is acceptable
- Online monitoring portal for online monitoring of system performance and energy yield (via internet web portal)
- All equipment and installation costs

C. Project Inclusions

- 18.15kWp Solar panels + 1x 15kVA Grid Tie Inverter rooftop Solar Photovoltaic
- Comprehensive electrical engineering design, inspection, technical consultation, and shop drawings
- Supply of materials, delivery, and installation of the solar PV system
- Testing, commissioning, and energization
- Training for the operation and maintenance of the system
- Technical documents for building official electrical permit, barangay construction clearance, fire safety permit and net-metering applications