

Republic of the Philippines

ILOILO SCIENCE AND TECHNOLOGY UNIVERSITY

La Paz, Iloilo City

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PROGRAM OF WORKS

Project Title: PROPOSED SOLAR POWERED EXTERNAL LIGHTING POLES FOR WALKWAYS, CAR PARK, MINI FOREST, AND ACCESS ROAD

Location: ISAT-U, Main Campus, Iloilo City Campus, Burgos St., La Paz, Iloilo City

Total Project Electrical Cost : ₱0.00

| Project Description: | | Implementation Mode | | Lump Sum Contract | | | |
|--|---|---------------------|------------------|--|--------------------------------|--------------|--|
| Supply | Supply, Installation, Testing & Commissioning of new Solar PV Panels and Lighting Poles as | | Project Duration | | 120 Calendar Days | | |
| new Sc | | | Equipment Needed | | Listed in the Bidding Document | | |
| specified on each item below, complete and full operational. | | Technical Personnel | | Electrical Engineer, Certified PV Specialized Technician | | | |
| Item | Scope of Work | % Weight | QTY. | Unit | Unit Price | Total Amount | |
| 1 | Supply, installation, testing and commissioning of the following: | | | | | | |
| 1.1 | LED Street lightIng luminaire, Cobra Type Power Consumption: 40W Rated Voltage: 12Vdc Lifespan: 50,000 long life time hours Efficacy: 100Lm/Wt CRI: 80 Cct: 6,000Kelvin Ingress Protection: IP67 Material: Die Cast Aluminum body. Type: COB- single Beam Angle: 140 deg. | | | assy. | | | |
| 1.2 | Solar PV Module Type: Polycrystalline Pmax: 200Wp Vmp: 34.4V IMP: 5.8 Amps Voc: 43.2 V Isc: 6.39 Amps Operating Temp.: -40 to +85° C Certification: TUV, ISO, IEC | | 25 | assy. | | | |
| 1.3 | Solar Street Light Controller Type: MPPT Current: 10A Voltage: 12V/24V | | 28 | assy. | | | |
| 1.4 | Batteries, 200AH, 12V, Deep Cycle (average at 45% discharge) Lead- Acid AGM, maintenance free | | 25 | assy. | | | |
| 1.5 | Steel Lighting Pole Type 1: Type: Tapered 4"/3" diameter Finish:Hot Dipped Galvanized after finish Material: G.I. Steel Thickness: Schedule 40 Height: 4.5meter (10') Base Plate: 12mm Arm: Single 0.5M | | 6 | assy. | | | |

| Project Description: | | Implementation | on Mode | Lump Sum Contract | | | |
|---|--|---------------------|---------|--|------------|--------------|--|
| Supply, Installation, Testing & Commissioning of new Solar PV Panels and Lighting Poles as specified on each item below, complete and full operational. | | Project Duration | | 120 Calendar Days | | | |
| | | Equipment Needed | | Listed in the Bidding Document | | | |
| | | Technical Personnel | | Electrical Engineer, Certified PV Specialized Technician | | | |
| Item | Scope of Work | % Weight | QTY. | Unit | Unit Price | Total Amount | |
| 1.6 | Steel Lighting Pole Type 2: Type: Tapered 4"/3" diameter Finish:Hot Dipped Galvanized after finish Material: G.I. Steel Thickness: Schedule 40 Height: 6 meter (20') Base Plate: 12mm Arm: Single 1.5M | | 13 | assy. | | | |
| 1.7 | Steel Lighting Pole Type 3: Type: Tapered 4"/3" diameter Finish:Hot Dipped Galvanized after finish Material: G.I. Steel Thickness: Schedule 40 Height: 6 meter (20') Base Plate: 12mm Arm: Single 2.5M (with support braces) | | 6 | assy. | | | |
| 1.8 | Cast-in-situ Reinforced Concrete Post Pedestal/ base foundation.with hot dipped galvanized anchor bolts as shown on the drawing Finish: Painted white Shape: Trapezoidal, top- 300 x 300mm | | 17 | assy. | | | |
| 1.9 | Excavation, backfilling, and restoration of structures /walkways/ roads/ pavements. | | 1 | lot | | | |
| 1.10 | PV roof mounting brackets complete with accessories | | 1 | lot | | | |
| 1.11 | Batteries & Controller Room No. 1 for 17 sets of PV system, ,complete with prepainted steel roofing , epoxy painted louvered walls & doors with padlocks, rack mounting, support and brackets & other necessities to complete the work. Paint color shall match the adjacent Building color. Drawings to be submitted for approval prior to construction. Location at Guiang building | | 1 | lot | | | |
| 1.12 | Batteries & Controller Room No. 2 for 8 sets of PV system, ,complete with prepainted steel roofing , epoxy painted louvered walls & doors with padlocks, rack mounting, support and brackets & other necessities to complete the work.Paint color shall match the adjacent Building color. Drawings to be submitted for approval prior to construction. Location beside Library's fire pump room | | 1 | lot | | | |

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|--|---|--|----------------------|--|-------------------|------|
| Supply, Installation, Testing & Commissioning of | | Project Duration 120 Calendar Days | | | | |
| | | Equipment Needed Listed in the Bidding Docur | | | he Bidding Docum | nent |
| | | Technical Personnel | | Electrical Engineer, Certified PV Specialized Technician | | |
| Item | Scope of Work | % Weight QTY. Unit Unit Price | | Total Amount | | |
| 1.13 | 2 x 6mm ² Tin coated copper 1kV DC PV cables complete with hot dipped galvanized perforated cable tray with cover, cable connectors and accessories | | 1 | lot | | |
| 1.14 | Lighting pole circuit conductors 2-5.5mm ² THWN/CU. complete with conduits/containment, warning tape, and accessories. | | 1 | lot | | |
| 1.15 | Grounding system 19mmØ x 1.5M copper clad steel ground rod, complete with grounding conductor 8.0mm² CU./THHN (GREEN) and grounding busbar/terminal block, concrete inspection pit, ground rod clamp. Location beside the PV Room | | 2 | set | | |
| 1.16 | Conrete encased duct bank at road crossing, 500mm below finish road level, including restoration of concrete road, with warning tape (see detail) | | 1 | lot | | |
| 1.17 | Testing & Commissioning | | 1 | lot | | |
| | TOTAL WOR | K ITEM CO | ST. | | | |
| | | DOWN OF W | | / COST | | |
| | | | | | tal Material Cost | |
| DIRECT COST | | | Total Equipment Cost | | | |
| | | | Total Labor Cost | | | |
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| | | | O.C.M Cost | | | |
| INDIRECT COST | | | Profit | | | |
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| TOTAL WORK ITEM COST | | | | | | |

| Prepared by: | |
|--------------|----------------------------|
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| | Name & Sianature of Bidder |