

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, Installation, Testing & Commissioning of		Project Duration		120 Calendar Days			
	new Solar PV Panels and Lighting Poles as		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. Solar PV Module Type: Polycrystalline Pmax: 200Wp Vmp: 34.4V IMP: 5.8 Amps Voc: 43.2 V			assy.			
·	Isc: 6.39 Amps Operating Temp.: -40 to +85° C Certification: TUV, ISO, IEC Solar Street Light Controller		28	assy.			
1.3	Type: MPPT Current: 10A Voltage: 12V/24V						
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 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 Technical Personnel		Listed in the Bidding Document			
				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		25	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		dar Days			
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specified on each item below, complete and full operational.		Technical Personnel		Electrical Engineer, Certified PV Specialized Technician			
ltem	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		71. 71.	
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	CITEM COS	ST-			eri Maleria (terlitesi)	
		OWN OF W		A COST			
				Tot	al Material Cost	·	
DIRECT COST			Total Equipment Cost				
			Total Labor Cost				
					otal Direct Cost		
				- ' (O.C.M Cost		
INDIRECT COST					Profit		
					Tax		
	TOTAL WOR	(ITEM CO	ST				

Prepared by:	
·	Name & Signature of Bidder