Republic of the Philippines DEPARTMENT OF AGRICULTURE Regional Field Unit No. 5 San Agustin, Pili, Camarines Sur

Project Title: Project Location: Appropration: Source of fund : Subject:	COMMISSION Brgy. Bacolod P6,930,000.00 Rice 2022	IVERY, INSTALLATION AND IING OF BACOLOD -San Vicente SPIS , Libon, Albay NTITIES AND COST PROPOSAL	Classification: Number of Unit: Net Length: Project Duration : Starting Date:	Irrigation Facility 1 150 C.D. upon receipt of NTP		
Scope of Work:	Solar -Construction -Installation of	abor snd Materials for the Construction of Wate Panel Framing Structure and Pump Stilling Bas of Perimeter Fence Solar Pump, Solar Panel Array, Electrical Wiri Id Laying of HDPE Pipe for Pump Irrigation Of	sin/ Pool			
Μ	MINIMUM EQUIPMENT REQUIREMENT		TECHNICAL PER	TECHNICAL PERSONNEL REQUIRED		
Description	No.	Description	Description	No. Description		
Service Truc	k 1	3-5 m^3	Foreman	1		
Water Pum	p 1	4" diameter	Asst. Foreman	1		

140.	Descrip
1	3-5 m^3
1	4" diameter
1	300 Amp, Gas Driven
1	12" Diameter Disc
enough	
	1 1 1 1 enough

		COST OF PROPOSI	ED WORK			
Item		Description	Quantity	Unit	Unit Cost (PhP)	Total Amount (PhP)
	General Re					
	1.1.	Project Billboard/Signboard and Permanent Marker	1	e.a.		
PART I	1.2.	Occupational Safety and Health Program	1	L.S.		
	1.3.	Mobilization / Demobilization	1	L.S.		
	1.4.	Construction of Camps, Other Temporary Facilities	1	L.S.		
	1.5.	Diversion of Water and Care of Creek	1	L.S.		
	•			•	Sub-total	
	SOLAR MO REINFORO	DUNTING STRUCTURE, CONCRETE AND CEMENT				
	Part A	EARTH WORKS				
	102	Common Soil Excavation	98.00	cu.m.		
	100(2)	Structural BackFill/Backfilling	78.00	cu.m.		
	201	Aggregate Sub Base Course (Gravel Fill)	7.00	cu.m.		
	Part B	REINFORCE CONCRETE WORKS	7.00	cu.m.		
	405(1)	Concrete Class "A" w/ Forms (Pedestal)	5.50	cu.m.		
	405(2)	Concrete Class "A" w/out Forms (Pedestal Footing)	17.00	cu.m.		
	403(2)	Reinforcing Steel Bar	2075.00	kgs.		
DADT II	-		2075.00	kgs.		
PART II	Part C	METAL WORKS	2.00			
	II.C.1	Vertical Structure	2.00	e.a.		
		-3" dia. G.I. Pipe S40 Post (15 pcs.)				
		-10mm thk. Metal Plate (4.0 sq.m.)				
		-8"x20mm dia. Anchor Bolt (264 set)		•		
	II.C.2	Horizontal Structure	2.00	e.a		
		-1/4"x2"x5" Channel Bar/ C Bar (17 pcs.)				
		-Pre-Fabricated PV Module Railings, (53 pcs.)				
		-1 1/2" Dia. S40-G.I. Pipe (96 pcs.)				
		- 2"x2"x1/4"x20' Angle Bar Cleat (5 pcs.)				
		-2"x20mm dia. Bolt and Nut, (128 pcs.)				
					Sub-total	
		IBLE SEWAGE PUMP				
	SPL1	6" Diameter Outlet, 15KW (20HP), 3 Phase 60Hz,	1.00	unit		
	-Capacity of	f at least 1170 cubic meter per 5 hours operation per day at the follow	wing condition:			
		1. Pump Type : Submersible Pump		8. Outlet Diameter	: 6 Inches	
ADT III		2. Total Dynamic Head : 30.0m (minimum)		9. Driver	: Electric Power	
PART III		3. Voltage : 380-415 Volt		10. Structure	: Centrifugal	
		4. Frequency : 60 Hz		11. Shaft	: Duplex Stainless S	teel
		5. Phase : Three Phase		12. Motor	: NEMA Standard T	
		6. Pump/Impeller : Stainless Steel 304/Cast Iron HT200)	12. 1010101	Induction Type	
		7. Working Principle : Submersible	,	13. Temperature	$-5^{\circ}C$ to $+120^{\circ}C$	viotoi
	ļ	7. working r meipre . Submeistore		15. Temperature	Sub-total	
	SOLAR DU	MODULES, FITTINGS AND ACCESSORIES			Sub-totai	
PART IV	SOLAR PV SPL2	450Wp PV Solar Module, Poly-Crystalline	60.00	pcs.		
	5FL2	Max Power: 450 Watt		ating Voltage: 41V	ļļ	
		Open Circuit Voltage: 49.60V		ating Current: 10.98A		
		Short Circuit Current: 11.53A	Temperature: -4	10°C to +90°C	6L 4 1	
	SOLAR IN	VERTER	1		Sub-total	
	Solandin		1		1 1	
	SPL3	-18.50KW, 300V-900V DC Input, 3phase-380V/415V-37Amp	1	unit		
DADT V	L	AC Output, Inverter				
PART V		-Built-in Maximum Power Point Tracking (MPPT)		-Overload and Overcur		
		-AC/DC Compatibility		-Enclosure Class: IP 6	6	
		-Overvoltage and Undervoltage Protection				
	CDL 4	C (II D (200 (00 000)	1	•,		
	SPL4	-Controller Box (300mm x 600mm x 800mm)	1	unit		

-		NNECT, PV PROTECT and COMBINER DEVICE			
	SPL5	DC-AC Line Protection	1	L.S.	
PART VI		-6 Pair Terminal Block Connector (2 pcs.) -DC MCCB, 15A 4P (6 pcs.)			
		-DC MCCB, 60A 2P (2 pcs.)			
		-DC SPD, 1000VDC 2P (2 pcs.)			
		-AC MCCB, 60A 3P (20 pcs.)			
	CADLE W	IRE and ACCESSORIES			Sub-Total
·	SPL6	System Wiring Installation	1	L.S.	
PART VII		-3.5mm ² THHW (#12 AWG) Wire (200 L.M.)			<u> </u>
FAKI VII		-Royal Cord 3C #8 AWG + 1C #10 AWG (150 L.M.)			
		-Royal Cord 2C, #6 AWG (20 L.M.)			
		-25mm Diameter PVC Pipe Conduit (15 pcs)			Sub-Total
	OUTLET V	VORKS			Sub-10tal
	Part A	EARTH WORKS			
	102	Common Soil Excavation	220.80	cu.m.	
	100(2)	Structural BackFill/Backfilling	154.00	cu.m.	<u> </u>
PART	Part B 405(2)	REINFORCE CONCRETE WORKS Concrete Class "A" w/ Forms (Pipe Support)	6.00	cu.m.	<u>+</u>
VIII	404	Reinforcing Steel Bar	186.00	kgs.	<u> </u>
	Part C	PIPE OUTLET INSTALLATION		6	
	SPL7	Pump Outlet Pipe Installation	1	L.S.	
		-6m X 6" Diameter S40 G.I. Pipe (2 pcs) -6m X 6" Diameter SDR17 HDPE Pipe (115 pcs)			
		-6m X 6" Diameter SDR17 HDPE Pipe(115 pcs)-10 Bolts, 8" Diameter End Flange(3 sets)			
		AKE STRUCTURE, SUMP AND CONTROLLER HOUSE			
ŀ	Part A 102	EARTH WORKS Common Soil Excavation	64.00	011 500	<u>├</u> ───
	102	Structural BackFill/Backfilling	30.00	cu.m.	<u>├ </u>
ŀ	201	Aggregate Sub Base Course (Gravel Fill)	2.00	cu.m.	<u>† </u>
	Part B	REINFORCE CONCRETE WORKS			
	405(1)	Concrete Class "A" w/ Forms (Column, Slab, Sump Wall and	10.00	cu.m.	
-	(-)	Intake Structure) Concrete Class "A" w/out Forms (Column Footing and Sump			
PART IX	405(2)	Foundation)	6.00	cu.m.	
	404	Reinforcing Steel Bar	1,240.00	kgs.	<u> </u>
-	Part C	MASONRY WORKS	-,	8	1
	704.3	CHB Controller House Wall (100mm non load bearing, incl.	14.00	6 4 m	
		Reinforcing Steel Bar)		sq.m.	
-	700.1 Part D	Cement Mansonry Plaster Finish METAL WORKS	28.00	sq.m.	
	ran D	Ladder, Chain Block Holder, Fabricated Steel Door, Trash Rack			<u>+</u>
	SPL8	and Fish Screen	1.00	L.S.	
					Sub-Total
		ER FENCE (60 L.M.)			-
-	Part A	EARTH WORKS	27.00		, I
-	102	Common Soil Excavation	37.00	cu.m.	-
	100(2)	Structural BackFill/Backfilling	24.60	cu.m.	-
ł	201 Part P	Aggregate Sub Base Course (Gravel Fill)	4.00	cu.m.	4
	Part B 405(3)	REINFORCE CONCRETE WORKS	1.50	(11 m)	4
PART X	405(3)	Concrete Class "B" w/ Forms (Column) Concrete Class "B" w/out Forms (Wall and Coulumn Footing)	7.00	cu.m.	4
ł	405(4)	Reinforcing Steel Bar	725.00		1
ł	Part C	MASONRY WORKS	123.00	kgs.	1
	704.3	CHB Wall (100mm non load bearing, incl. Reinforcing Steel Bar)	65.00	sq.m.	1
ł	704.5	Cement Mansonry Plaster Finish	130.00	sq.m.	1
ł	Part C	MASONRY WORKS	120.00	54.00	1
ł	SPL9	Steel Matting Fence w/ 2" Dia. S40-G.I. Framing	14.00	e.a.	1
	/				Sub-Total
	PIPE END	CHECK AND PIPE TURN-OUT STRUCTURE			
	Part A	EARTH WORKS	7.00		<u> </u>
	102	Common Soil Excavation Structural BackFill/Backfilling	7.00 3.50	cu.m.	<u>├</u>
PART VI		Structurar DackFIII/DackIIIIIIg	2.10	cu.m.	<u>├</u>
PART XI	100(2)	Aggregate Sub Base Course (Gravel Fill)			· · · · · · · · · · · · · · · · · · ·
PART XI		Aggregate Sub Base Course (Gravel Fill) REINFORCE CONCRETE WORKS	2110		
PART XI	100(2) 201 Part B 405(3)	REINFORCE CONCRETE WORKS Concrete Class "B" w/ Forms (Walls)	5.25	cu.m.	
PART XI	100(2) 201 Part B 405(3) 405(4)	REINFORCE CONCRETE WORKS Concrete Class "B" w/ Forms (Walls) Concrete Class "B" w/out Forms (Flooring)	5.25 2.67	cu.m.	
PART XI	100(2) 201 Part B 405(3)	REINFORCE CONCRETE WORKS Concrete Class "B" w/ Forms (Walls)	5.25		Sub Tatel
PART XI	100(2) 201 Part B 405(3) 405(4) 404	REINFORCE CONCRETE WORKS Concrete Class "B" w/ Forms (Walls) Concrete Class "B" w/out Forms (Flooring) Reinforcing Steel Bar	5.25 2.67	cu.m.	Sub-Total
PART XI	100(2) 201 Part B 405(3) 405(4) 404 FINISHINO	REINFORCE CONCRETE WORKS Concrete Class "B" w/ Forms (Walls) Concrete Class "B" w/out Forms (Flooring) Reinforcing Steel Bar G/ PAINTING WORKS	5.25 2.67 454	cu.m. kgs.	Sub-Total
	100(2) 201 Part B 405(3) 405(4) 404 FINISHINC XII.A	REINFORCE CONCRETE WORKS Concrete Class "B" w/ Forms (Walls) Concrete Class "B" w/out Forms (Flooring) Reinforcing Steel Bar G/ PAINTING WORKS Painting on Concrete Works	5.25 2.67 454 158.00	cu.m. kgs. sq.m.	Sub-Total
	100(2) 201 Part B 405(3) 405(4) 404 FINISHINO	REINFORCE CONCRETE WORKS Concrete Class "B" w/ Forms (Walls) Concrete Class "B" w/out Forms (Flooring) Reinforcing Steel Bar G/ PAINTING WORKS	5.25 2.67 454	cu.m. kgs.	Sub-Total Sub-Total

Note: All taxes, contractor's profit and hauling cost are included in unit cost per item.

NAME AND SIGNATURE OF BIDDER