



**BILL OF QUANTITIES AND COST PROPOSAL**

<b>NAME/LOCATION OF PROJECT:</b>  <b>CONSTRUCTION OF SAN ISIDRO SWIP</b>	Appropriation (Php)	<b>15,025,446.17</b>
	Source of Funds	
<b>Location:</b> Brgy. San Isidro, Aroroy, Masbate	Issued Obligated Authority	<b>By Contract</b>
	Mode of Implementation	
<b>PROJECT CATEGORY:</b>  <b>IRRIGATION NETWORK SERVICES</b>	Released	<b>Upon Receipt of NTP</b>
	Calendar Days to Complete	
	Starting Date	

**PROJECT DESCRIPTION:**  
*Construction of Earth Embankment Dam, Handlaid Riprap, Concrete Spillway, Bridge, Outlet Works, Access Road, Concrete Canal Lining and Slope Protection*

MINIMUM EQUIPMENT REQUIREMENT				MINIMUM EQUIPMENT REQUIREMENT			
Description	No.	Description	No.	Description	No.	Description	No.
Dump Truck All Model	2	3-5 m <sup>3</sup>		Low Bed Trailer	1		
Sheepfoot Roller	1	20 tons		Concrete Mixer	1	2-bagger	
Vibratory Roller, CA-25	1	25 tons		Hand Tools	Enough		
Bulldozer, D6C LGP/ PS	1	140 HP		TECHNICAL PERSONNEL REQUIRED			
Bulldozer, D4 PS	1	75 HP		Description	No.	Description	No.
Water Truck All Model wheel Loader, 944A	1	3,000 gallons		Foreman	1		
	1	1.34 m <sup>3</sup>		L.E. & H.E. Operator	10		

Item	Description	Unit	Quantity	Unit Cost (PhP)	Total Amount (PhP)
<b>1.0</b>	<b>Construction of Camp, Other Temporary Facilities, and Movement of Equipment</b>	L.S.	1.00		
<b>2.0</b>	<b>Diversion of Water and Care of Creek</b>	L.S.	1.00		
<b>3.0</b>	<b>Construction Safety and Health</b>	L.S.	1.00		
<b>4.0</b>	<b>Access Road (1,100 l.m.)</b>				
	4.1. Excavation (Road Opening)	cu. m.	3,300.00		
	4.2. Backfilling	cu. m.	495.00		
	4.3. Gravel Surfacing	cu. m.	440.00		
	4.4. RCPC Road Crossing	l.m.	18.00		
<b>Sub-Total</b>					
<b>5.0</b>	<b>Reservoir and Borrow Area</b>				
	5.1. Clearing and Grubbing	sq. m.	5,100.00		
<b>6.0</b>	<b>Dam</b>				
	<b>6.1. Excavation (2514 cu. m.)</b>				
	6.1.1. Stripping	cu. m.	1,930.00		
	6.1.2. Core Trench	cu. m.	584.00		
	<b>6.2. Embankment Fill (26,234 cu.m.)</b>				
	6.2.1. Side Borrow	cu. m.	18,113.00		
	6.2.2. Borrow Haul	cu. m.	4,066.00		
	6.2.3. From Core Trench & Spillway Excavation	cu. m.	4,034.00		
	<b>6.3. Handlaid Riprap</b>	cu. m.	495.00		
	<b>6.4. Gravel Surfacing</b>	cu. m.	126.00		
	<b>6.5. Toe Drain</b>				
	6.5.1. Rock Toe (Boulders)	cu. m.	240.00		
	6.5.2. Gravel and Sand Transition	cu. m.	90.00		
	6.5.3. Fine Sand Transition	cu. m.	45.00		
<b>Sub-Total</b>					

<b>7.0</b>	<b>Spillway and Bridge</b>				
	7.1.	Excavation	cu. m.	1,725.00	
	7.2.	Structural Backfill	cu. m.	170.00	
	7.3.	Concrete Class "A" w/ Forms	cu. m.	150.00	
	7.4.	Concrete Class "A" w/out Forms	cu. m.	127.00	
	7.5.	Reinforcing Steel	kgs.	16,483.00	
	7.6.	Levelling Course	cu. m.	75.00	
	7.7.	Grouted Riprap	cu. m.	70.00	
	7.8.	50 mm PVC Pipe	l.m.	80.00	
	7.9.	G.I. Pipe Railings	L.S	1.00	
<b>Sub-Total</b>					
<b>8.0</b>	<b>Outlet Works</b>				
	8.1.	Excavation	cu. m.	35.00	
	8.2.	Structural Backfill	cu. m.	15.00	
	8.3.	Concrete Class "A" w/ Forms	cu. m.	12.00	
	8.4.	Reinforcing Steel	kgs.	660.00	
	8.5.	Levelling Course	cu. m.	7.00	
	8.6.	Steel Pipe 0.35 x 6 m	pc.	10.00	
	8.7.	Gate Valve 0.35 m. Diam.	assy	1.00	
	8.8.	Trashrack, Fishscreen and Flashboard	l.s	1.00	
<b>Sub-Total</b>					
<b>9.0</b>	<b>Irrigation Canal (0.5x0.5)</b>	<b>(506 l.m.)</b>			
	9.1.	Excavation	cu. m.	75.00	
	9.2.	Structural Backfill	cu. m.	50.63	
	9.3.	Concrete Class "A" w/ Forms	cu. m.	50.63	
	9.4.	Concrete Class "A" w/out Forms	cu. m.	40.50	
	9.5.	Reinforcing Steel	kgs.	4,050.41	
	9.6.	Leveling Course	cu. m.	25.00	
<b>Sub-Total</b>					
<b>10.0</b>	<b>Billboard and Permanent Marker</b>		L.S.	1.00	
<b>TOTAL PROJECT COST</b>					

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

---

NAME AND SIGNATURE OF BIDDER