

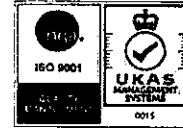


Republic of the Philippines  
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Project: **UPGRADING OF THE LIBRARY FIRE PUMP TO CENTRALIZED FIRE PUMP**

Location: ISAT U La Paz Campus, La Paz, Iloilo City

**DETAILED ESTIMATES**

Item No.	Item / Description	Qty	Unit	Unit Cost	Total Cost
I.	<b>GENERAL REQUIREMENTS.</b> (Includes Mechanical plan sign & seal, Water & Electricity, Health and Safety Requirements, Material testing and Temporary Enclosure)				
	Sign & Seal ( Plans & Inspection - Mechanical)	1	lot	75,648.17	75,648.17
	Water and Electricity		lot		
	Material Testing		lot		
	Health and Safety Requirements (PPE, Uniform & Signages)		lot		
	Temporary Enclosure (Corrugated sheets)		lot		
	Temporary Facilities (stockroom)		lot		
	Direct Cost				
	VAT				
	<b>Sub Total</b>				
II.	<b>DEMOLITION AND HAULING.</b> (Demolition and Removal of existing pump house, fire pump, fire protection pipe lines, clearing/hauling of debris, Hauling of excess and salvage materials and transfer of existing pipes and equipment .)		lot		
	Labor cost				
	Direct Cost				
	Indirect cost				
	VAT				
	<b>Sub Total</b>				
III.	<b>CONCRETE WORKS - 3000 PSI</b> (includes supply of materials, labor and necessary equipment for the concreting of foundations, wall footings, floor slab, steps on fill (outdoor slab), columns, lintel beams, roof slab, roof beams and concrete encasement including rebars and formworks as reflected in the plans and specifications.)				
	Potland Cement		bags		
	Washed Sand		cu.m		
	Screened Gravel		cu.m		
	10mm x 6.0m deformed bar		lengths		
	12mm x 6.0m deformed bar		lengths		
	16mm x 6.0m deformed bar		lengths		
	Ga. 16 G.I. Tiewire		kgms		
	Formworks and scaffoldings		lot		
	<b>Material cost</b>				
	Labor cost				
	Direct Cost				
	Indirect cost				
	VAT				
	<b>Sub Total</b>				
IV.	<b>MASONRY</b> Includes laying or installation of CHB on walls with size and thickness including rebars, mortar and plastering of walls as specified in the plans.				
	4" CHB		pcs		
	Cement		bags		
	Washed Sand		cu.m		
	10 mm x 6.0m deformed bar		lengths		
	Ga. 16 G.I. Tiewire		kg		
	<b>Material cost</b>				
	Labor cost				
	Direct Cost				
	Indirect cost				
	VAT				
	<b>Sub Total</b>				

Item No.	Item / Description	Qty	Unit	Unit Cost	Total Cost
V.	<b>THERMAL &amp; MOISTURE PROTECTION</b> (Includes supply and installation of integral and cementitious waterproofing for concrete deck slab and floor slab water vapor barrier)				
	Polyethylene Water Vapor Barrier 6 mil		sq. m.		
	Integral Water Proofing		bags		
	Cementitious Water Proofing (super dry)		gal		
	Roller Brush		pc		
	Paint Brush		pc		
	<b>Material cost</b>				
	Labor cost				
	Direct Cost				
	Indirect cost				
	VAT				
	<b>Sub Total</b>				
VI.	<b>DOORS AND WINDOWS</b> (Supply and installation of door and window as per plan and specification)				
	<b>Doors</b>				
	1.00 x 2.10m Metal door (door & jamb)		set		
	Lockset Lever Type Door Knob		set		
	Stainless steel hinge		set		
	<b>Windows</b>				
	W1 - 1.20m x 1.60m Sliding Bronze Glass on Analok Alum. Frame w/ 2"x4" alum. Tubular jamb (analok)		set		
	<b>Material cost</b>				
	Labor cost				
	Direct Cost				
	Indirect cost				
	VAT				
	<b>Sub Total</b>				
VII.	<b>FINISHES</b> (Painting of interior and exterior walls, steel door, conc. slab soffit, stone slates and tile works as specified in the plans and materials specifications)				
	<b>TILE WORKS</b>				
	0.30 x 0.30 concrete floor tiles (including outdoor conc. slab steps)		pcs		
	Tile Adhesive		bags		
	Tile Grout (2kg-pack)		packs		
	Stone Slate (0.20m x 0.30 m)		sq. m		
	Portland cement		bags		
	<b>PAINTING ( Painting of interior walls, steel door and conc. slab soffit)</b>				
	Acrylic Latex Paint for concrete and masonry surfaces (acrylic conc. Primer, full latex putty, latex semi gloss top coats)		sq. m		
	Epoxy Enamel (full putty)		sq. m		
	<b>Material cost</b>				
	<b>Labor Cost</b>				
	Direct Cost				
	Indirect cost				
	VAT				
	<b>Sub Total</b>				
VIII.	<b>ELECTRICAL</b> (Installation of electricals as per plan)				
	11VA, 230V, CEILING MOUNTED LED LIGHT, IP4		unit		
	2.0 sq. mm. THHN Cu. Wire		m		
	5.5 sq. mm. TW Cu. Wire		m		
	8.0 sq. mm. TW Cu. Wire		m		
	14 sq. mm. TW Cu. Wire		m		
	60 sq. mm. THHN Cu. Wire		m		
	80 sq. mm. THHN Cu. Wire		m		
	20 mm Ø PVC pipe		lengths		
	20 mm Ø PVC elbow		pcs		
	25 mm Ø PVC pipe		lengths		
	50 mm Ø PVC pipe		lengths		
	63 mm Ø PVC pipe		lengths		
	2 x 4 utility box		pcs		
	Junction box		pcs		
	8" Cable tie		pack		
	1 x ¼ G I U Bolt		pcs		

Item No.	Item / Description	Qty	Unit	Unit Cost	Total Cost
	#30mm String cable tube		meters		
	¼ Flex connector		pcs		
	G I U bolt		pcs		
	5.5 Y lugs		pcs		
	Screw and toks #10		pcs		
	Electrical tape big		roll		
	PVC Solvent, 100cc		cans		
	50A, 230V, 2POLE- SINGLE THROW UNFUSED SAFETY POWER SWITCH IN NEMA 3R ENCLOSURE		set		
	200A, 230V, 3POLE- SINGLE THROW UNFUSED SAFETY POWER SWITCH IN NEMA 3R ENCLOSURE		set		
	250AT/300AF, 3 P MCCB 25KAICw/ 1-15AT/60AF, 2P; 1-30AT/100AF, 2 P; 1-200AT/250AF, 3P Bolt On		set		
	<b>Material cost</b>				
	Labor cost				
	Direct Cost				
	Indirect cost				
	VAT				
	<b>Sub Total</b>				
<b>IX.</b>	<b>PLUMBING</b> (Supply and Installation of roof deck drain and pipes as per plan and specifications )				
1	<b>ROUGH INS</b>				
	PVC Sanitary Pipes and Fittings				
	PVC Pipe 50mmØ x 3.0m (series 1000)		length		
	ELBOW, 1/4 Bend (90deg) 2" Ø		pcs		
	PVC Pipe solvent cement ( 100 cc)		can		
	HANGERS AND SUPPORTS		lot		
	<b>Material cost</b>				
	Labor cost				
	Direct Cost				
	Indirect cost				
	VAT				
	<b>Sub Total</b>				
<b>X.</b>	<b>MECHANICAL</b> (Supply, Installation and Commissioning as per plan and specifications)				
	3" B.I pipe schedule 40 standard		lengths		
	3" Cast iron flange type foot valve		pc		
	3" x 90° B.I elbow (welded)		pcs		
	3" B.I Flange		pcs		
	5/8 x 3" G.I Bolts with nuts and washer		sets		
	1" Brass Ball valve		pcs		
	3" Flexible rubber coupling (Flange type)		pc		
	3" Check valve (Flange Type)		pc		
	¼ " X 2" X 2" X 20 ft. G.I Angle bar		lengths		
	¼ " x 1 ½ x 1 ½ x 20 ft. G.I Angle bar		pcs		
	5/8 x 4" Dyna bolt		pcs		
	5/8 x 3" G.I U-bolt with nut and washer		pcs		
	5/8 Metal Drill bit dormer		pcs		
	3/8 x 2" Dyna bolt		pcs		
	5/8 x 6" G.I Bolt with nut and washer		sets		
	5/8 x 4" G. I Bolt with nut and washer		sets		
	5/8 x 4" G. I U-Bolt with nut and washer		sets		
	5/8 x 3" G.I Bolt with nut and washer		sets		
	3/8 x 2 ½ G.I U-Bolt with nut and washer		sets		
	3/8 x 2" G.I U-Bolt with nut and washer		sets		
	Welding rod 60/11		kilos		
	Welding rod 60/13		kilos		
	¼ Tombo Teflon Tape		pcs		
	4" Cutting disc		pcs		
	4" Grinding disc		pcs		
	Welding gloves		sets		
	Welding Mask with dark lens		pcs		

Item No.	Item / Description	Qty	Unit	Unit Cost	Total Cost
	Grinding goggles		pcs		
	International red		gals		
	Thinner		gals		
	3" paint brush		pcs		
	Metal Primer Gray		gals		
	2" B.I pipe schedule 40 standard		lengths		
	2" Brass foot valve		pc		
	2" x 90° B.I Elbow (threaded)		pcs		
	2" x 1 ½ Coupling reducer (threaded)		pcs		
	2" Flange		pcs		
	1 ½ Flange		pcs		
	1 ½ B.I pipe schedule 40 (20 ft.) standard		pc		
	2" Brass check valve (Swing type)		pc		
	2" Flexible rubber coupling (Flange type)		pc		
	2" Brass ball valve		pcs		
	2" B.I Union patente (threaded)		pcs		
	2" x 1 ½ coupling reducer (threaded)		pcs		
	4" B.I pipe schedule 40 standard		lengths		
	4" CPVC sch. 40 pipe		lengths		
	4" Butterfly valve		pc		
	2" Pressure relief valve (150 psi)		pc		
	2 ½ B.I pipe schedule 40 standard		lengths		
	2 ½ Butterfly valve		pc		
	2 ½ x 90° Elbow (welded)		pcs		
	2" B.I union patente		pcs		
	2 ½ B.I Flange		pcs		
	4" B.I Flange		pcs		
	4" CPVC Flange w/ bolt & rubber pad		pcs		
	Pressure gauge 300 psi		pc		
	Pressure switch 300 psi		pcs		
	4" x 90° B.I elbow (welded)		pcs		
	½ Brass Ball Valve		pc		
	Fire pump controller 30 HP/ 230 volts/ 3 phase/ wye delta.		pc		
	FIRE PUMP – 30 HP Horizontal – Split Case/ 300 GPM (ELECTRIC MOTOR)		pc		
	JOCKEY PUMP – 3 HP Vertical Multi Stage pump 20 GPM/ 120 PSI (ELECTRIC MOTOR)		pc		
	<b>Material cost</b>				
	Labor cost				
	Direct Cost				
	Indirect cost				
	VAT				
	<b>Sub Total</b>				
	<b>TOTAL COST OF PROJECT</b>				

Total bid cost in words:

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Prepared by:

Approved:

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\_\_\_\_\_

Estimator

Bidder/Contractor

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Date