PROJECT : PROPOSED STAGING TANK AND DRILLING OF ONE (1) 150mmØ PRODUCTION WELL AT PHILRICE BATAC
LOCATION : PHILRICE BATAC, ILOCOS NORTE
SUBJECT : DETAILED ESTIMATES

I. SITE WORKS

A.Structural Excavation/Site Clearing

Qty = 140.00 cu.m

Labor Cost

Qty	Description	Days	Rate	Amount
5.00 -	Laborer/Helper			

Equipment Rentals

Qty	Description	Days	Rate	Amount
1.00	Excavator (0.75 cu.m bucket)			

Sub-total (A) = Php
Unit Costl (A) = Php

B. Gravel Fill/ Bedding

Qty = 5.00 cu.m

Material Cost

Qty	Description		Rate	Amount
5.00 cu.m	Washed Gravel 1"			

Labor Cost

Qty	Description	Days	Rate	Amount
5.00	Laborer/Helper			

Sub-total (B) = Php

Unit Costl (B) = Php

C. Backfill

Qty = 63.00 cu.m

Labor Cost

Qty	Description	Days	Rate	Amount
3.00	Laborer/Helper			

Sub-total (C) = Php
Unit Costl (C) = Php

Sub-total I=	Php

Unit Cost I=	Php

II. CONCRETE WORKS

A. Slab on Fill

Qty = 10 cu.m

Material Cost

Qty	Unit	Description	Unit Cost	Amount
90.00	bags	Portland Cement		
5.00	cu.m	Washed Sand (S1)		
10.00	cu.m	Crushed Gravel (3/4)		

Labor Cost

Qty	Description	Days	Rate	Amount
1.00	Mason			
5.00	Laborer/Helpers			

Equipment Rentals

Qty	Description	Days	Rate	Amount
1.00	One bagger mixer (including operator and fuel)			

B. Footing, Beams, Column

Qty =   8   cu.m

Material Cost

Qty	Unit	Description		Unit Cost	Amount
56.00	bags	Portland Cement			
4.00	cu.m	Washed Sand (S1)			
8.00	cu.m	Crushed Gravel (3/4)			

Labor Cost

Qty		Description	Days	Rate	Amount
1.00		Mason			
3.00		Laborer/Helpers			

Equipment Rentals

Qty		Description	Days	Rate	Amount
1.00		One bagger mixer (including operator and fuel)			

Sub-total (B) =	Php
Unit Cost (B) =	Php

C. Shear Wall (0.30 thickness)

Qty =   21   cu.m

Material Cost

Qty	Unit	Description		Unit Cost	Amount
190.00	bags	Portland Cement			
11.00	cu.m	Washed Sand (S1)			
21.00	cu.m	Crushed Gravel (3/4)			

Labor Cost

Qty		Description	Days	Rate	Amount
1.00		Mason			
4.00		Laborer/Helpers			

Equipment Rentals

Qty		Description	Days	Rate	Amount
1.00		One bagger mixer (including operator and fuel)			

Sub-total (C) =	Php
Unit Cost (C) =	Php

Sub-total II=	Php
Unit Cost II=	Php

III. REINFORCING STEEL BARS

Qty=   7,329.54   kgs

Material Cost

Qty	Unit	Description		Unit Cost	Amount
210.00	pcs	16 mm dia DRSB x 6.0m (G40)			
870.00	pcs	12 mm dia DRSB x 6.0m (G40)			
190.00	pcs	10 mm dia DRSB x 6.0m			
1.00	roll	#16 GI Tie Wire			

Labor Cost

Qty		Description	Days	Rate	Amount
1.00		Steelman			
5.00		Laborer/Helpers			

Equipment Rentals

Qty		Description	Days	Rate	Amount
1.00	unit	Cut off Machine / Bar Cutter			

| | | | | Sub-total III= | Php | |
| | | | | Unit Cost III= | Php | |

IV. FORM WORKS / SCAFFOLDINGS

Qty= 1.00 lot

Material Cost

Qty	Unit	Description		Unit Cost	Amount
14.00	pcs	Ordinary Plywood 1/2" thk (4x8 ft)			
100.00	bd.ft.	Form Lumber 2" x 3"			
100.00	bd.ft.	Form Lumber 2" x 2"			

Labor Cost

Qty	Description		Days	Rate	Amount
1.00	Carpenter				
3.00	Laborers				

| | | | Sub-total IV = | Php | |
| | | | Unit Cost IV = | Php | |

V. MASONRY WORKS

Qty= 94.00 sq.m

Material Cost

Qty	Unit	Description		Unit Cost	Amount
1,180.00	pcs	6" thk CHB			
100.00	pcs	Portland Cement			
9.00	cu.m	Washed Sand (S1)			

Labor Cost

Qty	Description		Days	Rate	Amount
1.00	Mason				
3.00	Laborer/Helpers				

Equipment Rentals

Qty	Description		Days	Rate	Amount
1.00 unit	One bagger mixer (including operator and fuel)				

| | | | Sub-total V = | Php | |
| | | | Unit Cost V = | Php | |

VI. TANK LADDER

Qty= 1.00 L.S.

Material Cost

Qty	Unit	Description		Unit Cost	Amount
18.00	pc	3/4" dia Stainless Pipe x 6.0m S40			
2.00	pc	16 mm dia Ladder Rung			
10.00	kg	Welding Rod (Stainless)			

Labor Cost

Qty	Description		Days	Rate	Amount
1.00	Welder				
5.00	Laborer/Helpers				

Equipment Rentals

Qty	Description		Days	Rate	Amount
1.00 unit	Welding Machine				
1.00 pair	Oxy-acetylene				
3.00 unit	Electric Drill/ Grinder				

| | | | Sub-total VI = | Php | |

VII. PLUMBING WORKS

A. Lines

Qty = 1.00 lot

VII. PLUMBING WORKS

A. Lines

Qty = 1.00 lot

Material Cost

Qty	Unit	Description		Unit Cost	Amount
3.00	pc	3" dia check valve			
1.00	pc	3" dia globe valve			
5.00	pc	3" dia GI Pipe S40 x 6.0m			
3.00	pc	Pressure Gauge US Made			
150.00	pcs	3" dia HDPE Pipe x 6.0 m SDR17			
1.00	lot	Comsumables - GI and HDPE Fittings (elbow, tee, adapter, teflon tape, etc.)			

	Sub-total (A) =	Php

B. MISCELLANEOUS

Material Cost

Qty	Unit	Description		Unit Cost	Amount
1.00	pc	Manhole with Steel Plate Cover 1.20mx1.20m (including puller, slab. steel plate cover)			
1.00	pc	Concrete Hand Hole (including puller)			
1.00	pc	Concrete Pull Box (including flange, puller, MS Plate, slab)			

Labor Cost

Qty	Unit	Description	Days	Unit Cost	Amount
1.00		Plumber / Mason			
2.00		Laborer/Helpers			

	Sub-total (B) =	Php
	Sub-total VII =	Php

VIII. WELL DRILLING WITH 6"Ø CASING

Qty = 1.00 lot

Materials including Labor Cost - 20 days

Qty	Unit	Description	Unit Cost	Amount
50	mts	Drilling of pithole / 200mm diameter pilot hole including strata sampling per meter of penetration 1st bit 8" (50 meters)		
20	mts	Furnishing and Installation of temporary Casing		
1	lot	Geophysical Borehole Logging (Electric resistivity) / on 8"Ø reaming		
50	mts	Reaming of pilothole reaming of Pilot Hole to 500mm diameter hole (2nd bit 17", 3rd bit 22")		
51	mts	Installation of blank casing & screens		
9	pcs	Furnishing of 150 mm diameter spiral welded steel casings x 6 meters x 6mm minimum wall thickness		
5	pcs	Furnishing of 150 mm nominal diameter continuous slot wedge wirewound		
19	mtr	Furnishing and installation of gravel packing on annulus around casings around 4" thk.		
40	mtr	Furnishing and installation of clay seal (Punso), from 20 meters to 80 meters or up to 10 meters before the first screen		
10	mtr	Cement Grouting of annulus around 300mm casing		
1	lot	Furnishing and install well head cap,		

Qty	Unit	Description
1	lot	Water Conductivity Test, Development by backwashing (6hrs), Treatment of Well sodium hexametaphosphate, Development by high pressure water jetting (12hrs), Development by air-lifting Q=50lps (12 hrs), Development by surging & bailing out of sediments (12 hrs), Step-drawdown pumping test Step-drawdown pumping test: with five steps at one hour each step carried out in succession with discharge rate increasing in equal fraction of the expected maximum discharge of Q = 50 lps (4 hr), Continuous constant discharge rate pumping test (48 hrs), Well Disinfection, Camera Logging.

			Sub-total VIII =	Php	

IX. ELECTRICAL WORKS (SUBMERSIBLE AND TRANSFER PUMP WITH ACCESORIES)

Qty= 1.00 L.S.

Material Cost

Qty	Unit	Description	Unit Cost	Amount
1.00	unit	**Stainless Steel Submersible Multi Stage Centrifugal Pump coupled with Stainless Steel Submersible Deepwell Motor** Pump Diameter: 6 in Materials: All stainless steel (SS304), pump bowls and shaft, steel impellers, shafting with built in SS304 non-return valve (check valve), Interconnector: Cast Steel Stainless Steel Riser Pipe: 2 in Capacity: 22gpm-70gpm coupled with Stainless Steel Submersible Motor		
1.00	unit	Capacity: 10HP, 230V, 3 Phase, 60 Hz, 3450 rpm, 6" diameter or larger well with bolts Motor Pump Controller Capacity: 10HP, 230V, 3 Phase, 60 Hz Type: Reduced Voltage Auto-Transformer		
1.00	unit	"VACON" or approved equal: Components: Circuit breaker, auto coil, magnetic contactors, thermal overload relay, liquid level relay, electrodes, transient voltage surge suppresor, on-delay time, anti-single phase relay, HOA selector switch, ammeter, volt meter, and wired in NEMA 12 industrial type wall mounted enclosure. **Booster/Lifting Pump w/ motor switch**		
1.00	lot	Cast Iron Pump Head, Stainless steel pump head cover, stainless steel shaft, stainless steel impeller, cast iron baseplate and mechanical seal cartridge type. 40-60 gpm coupled with electric motor, 10HP, 230V, 3 Phase, 60 Hz, 3450 rpm Consumables (PVC Riser pipes 2inx10ft with couplings, Well Seal 12inx2inx1in, Top Bottom Adapter 2in, Splicing kit and Tapes, Stranded wire for electrodes at motor side)		

Labor Cost

Qty	Unit	Description	Days	Unit Cost	Amount
1.00		Electrician			
6.00		Laborer/Helpers			

| | | | | | Sub-total IX = | Php | |

X. OTHERS

A. Professional Fees / Permits / Testing Fees, etc.
Material Cost

Qty	Unit	Description		Unit Cost	Amount
1.00	L.S.	Professional Fees / Permits / Testing Fees, PPE's/Signages, etc.			

B. Technical Personnel

Qty	Unit	Description	Days	Unit Cost	Amount
1.00	-	Project Engineer			
1.00	-	Construction Foreman			

		Sub-total X =	Php	

SUMMARY OF COST			
DIRECT COST			
TOTAL MATERIAL COST		PHP	
LABOR COST		PHP	
EQUIPMENT COST		PHP	
INDIRECT COST			
OCM		PHP	
PROFIT		PHP	
TAX		PHP	
TOTAL PROJECT COST		PHP	