

## ***Section VIII. Bill of Quantities***

<b>Nr</b>	<b>Description</b>	<b>ABC (PhP)</b>	<b>Page</b>
1	Construction of One (1) Unit Perimeter Fence and Gate for 155mm SP Howitzer Facilities at HAAR, PA	7,020,552.69	01-15
2	Construction of One (1) Unit Water System for 155mm SP Howitzer Facilities at HAAR, PA	4,898,203.00	16-24
3	Construction of One (1) Unit Electrical System for 155mm SP Howitzer Facilities at HAAR, PA	6,151,736.60	25-31
4	Construction of Three (3) Units Classroom for 155mm SP Howitzer Facilities at HAAR, PA	16,080,462.00	32-46
<b>Total</b>		<b>34,150,954.29</b>	

**PLEASE USE THIS BID FORM  
DO NOT RETYPE or ALTER**

**Construction of One (1) Unit Perimeter Fence  
and Gate for 155mm SP Howitzer Facilities at  
HAAR, PA Page (01/46)**

**BILL OF QUANTITIES**

**Construction of Base Utilities and Facilities for 155mm SP Howitzer of HAAR, PA  
at Fort Magsaysay, Nueva Ecija (1 Lot)  
Bid Ref. No. ENG'G PABAC3 020-23  
Approved Budget Contract: PhP34,150,954.29**

**INSTRUCTION TO THE BIDDER: Indicate cost per line item. DO NOT LEAVE ANY BLANK. INDICATE "0" IF ITEM IS BEING OFFERED FOR FREE. "NO" ENTRY WILL NOT BE ACCEPTED. FAILURE TO CONFORM WILL RESULT IN A RATING OF "FAILED"**

Description	Qty	Unit	P/Unit	Amount
<b>A. Cyclone Wire Fence</b>				
<b>I. Earth Works</b>				
Excavation	180	cum		
Backfill	180	cum		
Compaction	180	cum		
<b>Sub-Total</b>				
<b>II. Concrete Works</b>				
Portland cement type 1	840	bgs		
Sand washed	47	cum		
Crushed gravel 3/4"	93	cum		
12mmØ rsb	504	pcs		
10mmØ rsb	308	pcs		
#16 GI tie wire	64	kgs		
<b>Sub-Total</b>				
<b>III. Formworks</b>				
1/2 form plywood	46	pcs		
Form lumber coco	1,600	bdf		

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and Gate for 155mm SP Howitzer Facilities at  
HAAR, PA Page (02/46)**

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**Construction of Base Utilities and Facilities for 155mm SP Howitzer of HAAR, PA  
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<b>Description</b>	<b>Qty</b>	<b>Unit</b>	<b>P/Unit</b>	<b>Amount</b>
CW nails (assorted)	29	kgs		
Concrete nails (assorted)	9	kgs		
<b>Sub-Total</b>				
<b>IV. Masonry works</b>				
4" CHB	9,050	pcs		
Portland cement type 1	706	bags		
Washed sand	82	cum		
12mmØ RSB	85	pcs		
10mmØ RSB	452	pcs		
GI tie wire #16	38	kgs		
<b>Sub-Total</b>				
<b>V. Metal works</b>				
1.5"Ø x 6.0m gi pipe sch 40	267	pcs		
12mmØ rsb	68	pcs		
Angular bar 1"x1"x3/16"	336	pcs		
Cyclone wire x 1.40 mtrs	602	lnm		
Barbed wire	2,400	lnm		

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for 155mm SP Howitzer Facilities at HAAR, PA  
Page (03/46)**

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Description	Qty	Unit	P/Unit	Amount
Welding rod	80	kgs		
Hacksaw blade	40	pcs		
<b>Sub-Total</b>				
<b>VI. Painting Works</b>				
Concrete neutralizer	45	gals		
Flat latex gloss	70	gals		
Latex paint semi gloss	70	gals		
Aluminum paint	50	gals		
Paint thinner	14	gals		
Roller paint brush w/ tray 9"	10	sets		
Paint brush 2" & 3"	8	pcs		
<b>Sub-Total</b>				
<b>B. Standard Gate (15.15 Inm)</b>				
<b>I. Concrete Works</b>				
Portland cement (type 1)	356	bags		
Sand washed	19	cum		
Gravel crushed 3/4"	38	cum		

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Description	Qty	Unit	P/Unit	Amount
Sahara cement	55	bags		
20mm RSB deformed	22	pcs		
16mm RSB deformed	95	pcs		
12mm RSB deformed	18	pcs		
10mm RSB deformed	285	pcs		
#16 tie wire	42	kgs		
<b>Sub-Total</b>				
<b>II. Masonry Works</b>				
Portland cement (type 1)	170	bags		
Sand washed	9	cum		
Sand-bistay	454	sack		
6" CBH	945	pcs		
4" CBH	898	pcs		
10mm rsb deformed	14	pcs		
#16 tie wire	21	kgs		
<b>Sub-Total</b>				
<b>III. Form &amp; Scaffolds</b>				

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Page (05/46)**

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Description	Qty	Unit	P/Unit	Amount
2x3x12 coco lumber	545	bdf		
Form plywood 1/2"	21	pcs		
CW nail	27	kgs		
<b>Sub-Total</b>				
<b>IV. Metal Works</b>				
1x1x1.50 tubular window grills	7	pcs		
5"Ø GI pipe schedule 40	8	pcs		
4"Ø x 6m GI pipe schedule 40	6	pcs		
150mmØ x 6.5mm steel cover with hinge	32	sets		
Welding rod	3	kgs		
Epoxy primer	1	gal		
Lacquer thinner	1	gal		
Paint brush 2"	1	pc		
Cutting disk 14"	1	pc		
Sanding disk 4"	2	pcs		
2-panel steel gate (8.8m x 2.10m)	1	set		
<b>Sub-Total</b>				

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Description	Qty	Unit	P/Unit	Amount
<b>V. Water Proofing</b>				
Liquid water proof	14	gals		
Paint brush 4"	2	pcs		
<b>Sub-Total</b>				
<b>VI. Doors &amp; Windows</b>				
0.60x2.10 PVC door w/ jamb,hinges	1	set		
1.20x1.20 aluminum analok sliding window	2	sets		
0.60x0.60 aluminum analok sliding window	1	set		
3 1/2 x 3 1/2 LP hinges	2	prs		
Door lockset w/o key	1	set		
<b>Sub-Total</b>				
<b>VII. Ceiling Works</b>				
Metal furring	12	sqm		
12mm gypsum board	6	pcs		
Tocks & screw	27	pcs		
Gypsum screw	165	pcs		
5/32 x 1/2 blind rivets	1	bx		

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Description	Qty	Unit	P/Unit	Amount
<b>Sub-Total</b>				
<b>VIII. Plumbing Works</b>				
Water closet with tank with complete accessories	1	sets		
Wall hang lavatory with p-trap	1	sets		
Urinal with flush medium size	1	set		
Lav faucet	1	pc		
Faucet	1	pc		
Angle valve with hose	3	sets		
PPR water line	6	lnm		
PVC plumbing line	6	lnm		
<b>Sub-Total</b>				

<b>IX. Electrical Works</b>				
<b>a. Lighting &amp; Fixtures</b>				
LED Panel Light 5"Ø, 5W, recessed type	9	sets		
LED Panel Light 5"Ø, surfaced type	4	sets		

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Description	Qty	Unit	P/Unit	Amount
LED Flood Light, 20W, warm white, IP66, WHS Type	18	sets		
LED Emergency Light, 2-Bulb	5	sets		
Ceiling Fan Orbital Type, 18"Ø with Selector Switch	3	sets		
<b>b. Wires &amp; Cables</b>				
2.0mm <sup>2</sup> THHN wire	2	bxs		
3.5mm <sup>2</sup> THHN wire	6	bxs		
5.5mm <sup>2</sup> THHN wire	2	bxs		
Telephone jacketed wire cat5e with connectors	146	mtrs		
<b>c. Pipes &amp; Conduits</b>				
20mmØ uPVC pipe	110	pcs		
20mmØ uPVC long elbow	52	pcs		
25mmØ uPVC pipe	3	pcs		
25mmØ uPVC male adapter with locknut	4	pcs		
25mmØ uPVC long elbow	5	pcs		

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Description	Qty	Unit	P/Unit	Amount
d. Wiring Devices				
1-gang switch w/ cover, flush type	5	sets		
3-gang switch w/ cover, flush type	3	sets		
Convenience Outlet, duplex, 3-universal prong	5	sets		
e. Telephone outlet	3	sets		
Electrical Devices				
Junction box uPVC with cover 4"x4"x2"	43	sets		
Utility box uPVC 4"x2"x2"	13	pcs		
Service Entrance Cap 25mmØ	2	sets		
Electrical tape, big	8	pcs		
GI tie wire #16, 2kl	8	kgs		
PVC solvent 400cc	8	cans		
f. Panel Boards				
PB 30AT/50AF MCB, 230V, 2P, 22KAIC, 60HZ, Plug-in type, with 4-Branched: 3-20AT/50AF, Plug-in type CB	2	set		

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Description	Qty	Unit	P/Unit	Amount
<b>Sub-Total</b>				
<b>X. Painting Works</b>				
Masonry neutralizer	4	gals		
Latex flat	9	tins		
Latex semi gloss	9	tins		
Enamel paint	7	tins		
QDE	4	gals		
Acri color	4	ltrs		
Ting-ting color	4	ltrs		
Lacquer thinner	2	gals		
Paint thinner	3	gals		
Roller with tray	4	sets		
Paint brush 4"	4	pcs		
Paint brush 2"	7	pcs		
Sand paper	15	lnm		
Rug	18	kgs		
<b>Sub-Total</b>				

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**BILL OF QUANTITIES**

**Construction of Base Utilities and Facilities for 155mm SP Howitzer of HAAR, PA  
at Fort Magsaysay, Nueva Ecija (1 Lot)  
Bid Ref. No. ENG'G PABAC3 020-23  
Approved Budget Contract: PhP34,150,954.29**

**INSTRUCTION TO THE BIDDER: Indicate cost per line item. DO NOT LEAVE ANY BLANK. INDICATE "0" IF ITEM IS BEING OFFERED FOR FREE. "NO" ENTRY WILL NOT BE ACCEPTED. FAILURE TO CONFORM WILL RESULT IN A RATING OF "FAILED"**

Description	Qty	Unit	P/Unit	Amount
<b>XI. Finishing Works</b>				
Stone cladding	84	sqm		
30 x30 floor tiles	318	pcs		
30 x30 CR floor tiles	91	pcs		
30 x30 CR wall tiles	326	pcs		
30 x30 deck tiles	300	pcs		
Portland cement	44	bags		
Tile adhesive	23	bags		
Tile grout	18	kgs		
Sand-bistay	218	scks		
Stainless letterings	24	pcs		
Army seal	1	pc		
Concrete moulding	54	lnm		
Landscaping	1	lot		
<b>Sub-Total</b>				
<b>XII. Septic Tank( 1.20 x 3.00 x 1.50m)</b>				
Portland cement	27	bags		

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**Signature of Company Authorized Representative**

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**Designation (in print)**

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**Date**

**PLEASE USE THIS BID FORM  
DO NOT RETYPE or ALTER**

**Construction of One (1) Unit Perimeter Fence  
for 155mm SP Howitzer Facilities at HAAR, PA  
Page (12/46)**

**BILL OF QUANTITIES**

**Construction of Base Utilities and Facilities for 155mm SP Howitzer of HAAR, PA  
at Fort Magsaysay, Nueva Ecija (1 Lot)  
Bid Ref. No. ENG'G PABAC3 020-23  
Approved Budget Contract: PhP34,150,954.29**

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Description	Qty	Unit	P/Unit	Amount
Washed sand	3	cum		
Sand-bistay	30	scks		
Crushed gravel 3/4"	2	cum		
6" CBH	218	pcs		
Sahara cement	6	bags		
10mm RSB	24	pcs		
#16 tie wire	3	kgs		
4" PVC tee	4	pcs		
4" PVC clean-out	4	pcs		
4" PVC pipe	4	pcs		
<b>Sub-Total</b>				
<b>XIII. Earth Works</b>				
Excavation	55	cum		
Backfill	48	cum		
Compaction	48	cum		
Clearing/cleaning	194	sqm		
<b>Sub-Total</b>				

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**Construction of One (1) Unit Perimeter Fence  
for 155mm SP Howitzer Facilities at HAAR, PA  
Page (13/46)**

**BILL OF QUANTITIES**

**Construction of Base Utilities and Facilities for 155mm SP Howitzer of HAAR, PA  
at Fort Magsaysay, Nueva Ecija (1 Lot)  
Bid Ref. No. ENG'G PABAC3 020-23  
Approved Budget Contract: PhP34,150,954.29**

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Description	Qty	Unit	P/Unit	Amount
<b>C. Cyclone Wire Gate</b>				
(H-2.0m x W-8.0m) - Painted Finished				
cyclone wire gate on 1½"Ø GI pipe frame with complete accessories.	1	set		
cyclone wire gate on 1½"Ø GI pipe frame with complete accessories.	1	set		
(Pedestrian Gate 1.5m x 2.0m)				
<b>Sub-Total</b>				
<b>Total</b>				

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**Construction of One (1) Unit Perimeter Fence  
 for 155mm SP Howitzer Facilities at HAAR, PA  
 Page (14/46)**

**BILL OF QUANTITIES**

**Construction of Base Utilities and Facilities for 155mm SP Howitzer of HAAR,  
 PA at Fort Magsaysay, Nueva Ecija (1 Lot)  
 Bid Ref. No. ENG'G PABAC3 020-23  
 Approved Budget Contract: Php34,150,954.29**

Description	Sub-total
<b>A. Cyclone Wire Fence</b>	
<b>II. Concrete Works</b>	
<b>III. Formworks</b>	
<b>IV. Masonry works</b>	
<b>V. Metal works</b>	
<b>VI. Painting Works</b>	
<b>B. Standard Gate (15.15 Inm)</b>	
<b>I. Concrete Works</b>	
<b>II. Masonry Works</b>	
<b>III. Form &amp; Scaffolds</b>	
<b>IV. Metal Works</b>	
<b>V. Water Proofing</b>	
<b>VI. Doors &amp; Windows</b>	
<b>VII. Ceiling Works</b>	
<b>VIII. Plumbing Works</b>	
<b>IX. Electrical Works</b>	
<b>X. Painting Works</b>	
<b>XI. Finishing Works</b>	
<b>XII. Septic Tank</b>	
<b>C. Cyclone Wire Gate</b>	

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**Construction of One (1) Unit Perimeter Fence  
 for 155mm SP Howitzer Facilities at HAAR, PA  
 Page (15/46)**

**BILL OF QUANTITIES**

**Construction of Base Utilities and Facilities for 155mm SP Howitzer of HAAR,  
 PA at Fort Magsaysay, Nueva Ecija (1 Lot)  
 Bid Ref. No. ENG'G PABAC3 020-23  
 Approved Budget Contract: Php34,150,954.29**

Description	Sub-total
<b>Total Material Cost</b>	
<b>Labor</b>	
<b>I. Earth Works (Cyclone Wire Fence)</b>	
<b>XIII. Earth Works (Standard Gate)</b>	
<b>Earth Works (6" CHB Fence)</b>	
<b>Mobil/Demobil</b>	
<b>E-VAT</b>	
<b>Overhead</b>	
<b>Miscellaneous</b>	
<b>Contractor's Profit</b>	
<b>Total</b>	

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**Construction of One (1) Unit Water System for  
155mm SP Howitzer Facilities at HAAR, PA  
Page (16/46)**

**BILL OF QUANTITIES**

**Construction of Base Utilities and Facilities for 155mm SP Howitzer of HAAR, PA  
at Fort Magsaysay, Nueva Ecija (1 Lot)  
Bid Ref. No. ENG'G PABAC3 020-23  
Approved Budget Contract: PhP34,150,954.29**

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Description	Qty	Unit	P/Unit	Amount
<b>I. Deep Well</b>				
a. Well Drilling: drilling of bore hole 8" x 300 ft, installation of 8" x 40 ft conductor casing, soil sample on per feet basis, marking & selection placement of perforation, perforation of 6" GI pipe casing, installation of 6" x 300 ft GI pipe casing, gravel packing, annulus construction of concrete well, pad well capacity testing of constructed deepwell 24 hours, installation of brand new submersible pump complete with piping & electrical works	1	lot		
b. Deep well Supply Pipe				
8"φ x 20' GI pipe schedule 40	2	pcs		
6"φ x 20' GI pipe schedule 40	15	pcs		
2"φ x 20' GI pipe with coupling	13	pcs		
2"φ GI 90 degrees bend	2	pcs		
2"φ sleeve type coupling	2	pcs		

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**Construction of One (1) Unit Water System for  
155mm SP Howitzer Facilities at HAAR, PA  
Page (17/46)**

**BILL OF QUANTITIES**

**Construction of Base Utilities and Facilities for 155mm SP Howitzer of HAAR, PA  
at Fort Magsaysay, Nueva Ecija (1 Lot)  
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<b>Description</b>	<b>Qty</b>	<b>Unit</b>	<b>P/Unit</b>	<b>Amount</b>
Flow meter	1	set		
Pressure guage	1	set		
Strianer	1	set		
2"φ brass check valve	2	pcs		
3"φ swing valve	1	pc		
Welding rod	20	kgs		
Blind flange	1	pc		
3"φ x 20' GI pipe sch 40	2	pcs		
3"φ GI tee	1	pc		
3"φ GI plug	1	pc		
3"φ brass check valve	1	pc		
Pressure guage 0-100 lbs	1	pc		
Miscellaneous	1	lot		
c. Submersible Pump & Motor				
Brand new submersible pump motor, 5 HP, singlephase,230V brand new submersible pump	1	unit		

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**Construction of One (1) Unit Water System for  
155mm SP Howitzer Facilities at HAAR, PA  
Page (18/46)**

**BILL OF QUANTITIES**

**Construction of Base Utilities and Facilities for 155mm SP Howitzer of HAAR, PA  
at Fort Magsaysay, Nueva Ecija (1 Lot)  
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Description	Qty	Unit	P/Unit	Amount
d. Motor Control & Cable Wires				
5HP motor control panel with automatic features	1	unit		
Industrial breaker 125A, 1-phase	1	unit		
#12 THW wire	2	rlls		
Submersible cable #08/3	220	lnm		
e. Construction of Pump Room				
2.00m x 2.00m pump room	1	unit		
f. Earth Works				
Compaction	45	cum		
Gravel metaling	11	cum		

**Sub-Total**

**II. Elevated Water Tank (10,000 gals capacity)**

a. Earth Works				
Excavation	22	cum		
Backfill	22	cum		

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**Construction of One (1) Unit Water System for  
155mm SP Howitzer Facilities at HAAR, PA  
Page (19/46)**

**BILL OF QUANTITIES**

**Construction of Base Utilities and Facilities for 155mm SP Howitzer of HAAR, PA  
at Fort Magsaysay, Nueva Ecija (1 Lot)  
Bid Ref. No. ENG'G PABAC3 020-23  
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Description	Qty	Unit	P/Unit	Amount
Compaction	22	cum		
b. Concrete Works				
Portland cement ( type 1 )	68	bags		
Washed sand	4	cum		
Crushed gravel 3/4"	7	cum		
40mmx40mmx20mm base plate	4	pcs		
20mm x300mm anchore bolt & nut	32	pcs		
16mmØ x 6.0m deformed bar	40	pcs		
10mmØ x 6.0m deformed bar	51	pcs		
#16 tie wire	9	kgs		
c. Form & Scaffolds				
1/2" thk form plywood	5	pcs		
Form lumber coco	120	bdft		
Scaffolds coco	120	bdft		
CW nail assorted	15	kgs		
d. Metal Works				

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**Construction of One (1) Unit Water System for  
155mm SP Howitzer Facilities at HAAR, PA  
Page (20/46)**

**BILL OF QUANTITIES**

**Construction of Base Utilities and Facilities for 155mm SP Howitzer of HAAR, PA  
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Description	Qty	Unit	P/Unit	Amount
10,000 gals cap steel water tank and accessories	1	unit		
W8x24 steel trestle	8	pcs		
60mmx35mmx25mm pad plate	4	pcs		
76x76x6.5mm angel bar	20	pcs		
16mmx6m tension rod	40	pcs		
16mmØ turn buckle	40	pcs		
1.20x2.40x19mm gusset plate	2	pcs		
Ladder rung with cage	1	unit		
Welding rod	85	kgs		
Epoxy primer	12	gals		
Paint brush	4	pcs		
Cutting disk 14"	8	pcs		
Sanding disk 4"	20	pcs		
Drill bit (16mmØ metal)	4	pcs		
e. Plumbing Works				
100mmØx6m GI pipe schedule 40	10	pcs		

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**Construction of One (1) Unit Water System for  
155mm SP Howitzer Facilities at HAAR, PA  
Page (21/46)**

**BILL OF QUANTITIES**

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Description	Qty	Unit	P/Unit	Amount
100mmØ GI coupling	6	pc		
100mmØ GI elbow	4	pc		
100mmØ gate valve	2	pc		
50mmØGI vent pipe	1	pcs		
Teflon tape	12	rls		
<b>f. Painting Works</b>				
Zinc Chromate	8	gals		
Epoxy paint	20	gals		
Latex paint	2	gals		
Neutralizer	1	ltr		
Lacquer thinner	2	gals		
Roller w/ tray	2	sets		
Paint brush	8	pcs		
Steel palate	4	pcs		
<b>Sub-Total</b>				
<b>III. Water Pipe Lines</b>				
<b>a. Water Line</b>				

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**Construction of One (1) Unit Water System for  
155mm SP Howitzer Facilities at HAAR, PA  
Page (22/46)**

**BILL OF QUANTITIES**

**Construction of Base Utilities and Facilities for 155mm SP Howitzer of HAAR, PA  
at Fort Magsaysay, Nueva Ecija (1 Lot)  
Bid Ref. No. ENG'G PABAC3 020-23  
Approved Budget Contract: PhP34,150,954.29**

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<b>Description</b>	<b>Qty</b>	<b>Unit</b>	<b>P/Unit</b>	<b>Amount</b>
HDPE pipe 110mmx6m SDR 17 PE 100	80	pcs		
HDPE pipe 25mmx6m SDR 17 PE 100	20	pcs		
HDPE reducer PE/PE 110mmx25 SDR 17 PE 100	15	pcs		
HDPE tee PE/PE 110mm SDR 17 PE 100	3	pcs		
HDPE bend PE/PE 110mmx90° SDR 17 PE 100	5	pcs		
<b>b. Valves &amp; Appurtunances:</b>				
Gate valve CI/F/F 100mm	1	pcs		
Gate valve 25mm	15	pcs		
Check valve CI/F/F 100mm	1	pcs		
HDPE stud end F/PE 110mm Sdr 17PE 100	1	pcs		
Flange steel ring 110mm for SDPE	1	pcs		
Adapter F/M FDPE110mm(w/grip/tensile)PN10	1	pcs		
Coupler 110mm EF SDR 11 PE 110	1	pcs		

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**Signature of Company Authorized Representative**

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**Designation (in print)**

\_\_\_\_\_  
**Date**



**PLEASE USE THIS BID FORM  
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**Construction of One (1) Unit Water System for  
155mm SP Howitzer Facilities at HAAR, PA  
Page (23/46)**

**BILL OF QUANTITIES**

**Construction of Base Utilities and Facilities for 155mm SP Howitzer of HAAR, PA  
at Fort Magsaysay, Nueva Ecija (1 Lot)  
Bid Ref. No. ENG'G PABAC3 020-23  
Approved Budget Contract: PhP34,150,954.29**

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Description	Qty	Unit	P/Unit	Amount
c. Earth Works				
D=0.30m, W=0.20m, L= 626				
volume = 38.00 cum				
Excavation	36	cum		
Backfill	32	cum		
Compaction	32	cum		
			<b>Sub-Total</b>	
			<b>Total</b>	

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**Construction of One (1) Unit Water System for  
 155mm SP Howitzer Facilities at HAAR, PA  
 Page (24/46)**

**BILL OF QUANTITIES**

**Construction of Base Utilities and Facilities for 155mm SP Howitzer of HAAR, PA  
 at Fort Magsaysay, Nueva Ecija (1 Lot)  
 Bid Ref. No. ENG'G PABAC3 020-23  
 Approved Budget Contract: PhP34,150,954.29**

Description	Sub-total
<b>I. Deep Well</b>	
<b>II. Elevated Water Tank (10,000 gals capacity)</b>	
<b>III. Water Pipe Lines</b>	
<b>Total Material Cost</b>	
<b>Labor</b>	
<b>Georesistivity Test</b>	
<b>Mobil/Demobil</b>	
<b>E-VAT</b>	
<b>Overhead</b>	
<b>Miscellaneous</b>	
<b>Contractor's Profit</b>	
<b>Total</b>	

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**Construction of One (1) Unit Electrical System  
for 155mm SP Howitzer Facilities at HAAR, PA  
Page (25/46)**

**BILL OF QUANTITIES**

**Construction of Base Utilities and Facilities for 155mm SP Howitzer of HAAR, PA  
at Fort Magsaysay, Nueva Ecija (1 Lot)  
Bid Ref. No. ENG'G PABAC3 020-23  
Approved Budget Contract: PhP34,150,954.29**

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<b>Description</b>	<b>Qty</b>	<b>Unit</b>	<b>P/Unit</b>	<b>Amount</b>
<b>I. Outside Electrical</b>				
<b>a. Transformer Assembly</b>				
50KVA distribution transformer 7.62/13.2KV primary 120/240V secondary, OISC pole type, 2-2.5% Tap, 60Hz, single phase, Non-PCB, Amorphous Core	4	units		
Cut-out & arrester combination bracket	4	sets		
Lightning arrester, 10-15KV, 15A	4	sets		
Primary fuse link, 3KA, 20KV	4	pcs		
Fuse cut-out, 10-15KV, LA comb., 15A, open type	4	sets		
Transformer bracket cluster type	4	sets		
Cut-out arrester bracket	4	pcs		
Split bolt connector #2 UDC	16	pcs		
Wire jumper primary #4 bare copper	8	mtrs		
Hotline clamp #2-#4/0 ACSR	16	pcs		
Rubber tape	8	pcs		

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**Construction of One (1) Unit Electrical System  
for 155mm SP Howitzer Facilities at HAAR, PA  
Page (26/46)**

**BILL OF QUANTITIES**

**Construction of Base Utilities and Facilities for 155mm SP Howitzer of HAAR, PA  
at Fort Magsaysay, Nueva Ecija (1 Lot)  
Bid Ref. No. ENG'G PABAC3 020-23  
Approved Budget Contract: PhP34,150,954.29**

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<b>Description</b>	<b>Qty</b>	<b>Unit</b>	<b>P/Unit</b>	<b>Amount</b>
Electrical tape, big	8	pcs		
Compression connector, #1/0-#2/0	16	pcs		
b. Pole Accessories				
35ft round concrete pole seamless, Class 7A	14	pcs		
30ft round concrete pole seamless, Class 7A	11	pcs		
Machine bolt, 1/2"Ø x 12", HDG forged	50	pcs		
Machine bolt, 5/8"Ø x 14", HDG forged	50	pcs		
Machine bolt, 1/2"Ø x 6", HDG forged	50	pcs		
Machine bolt, 5/8"Ø x 2" HDG	50	pcs		
Machine bolt, 5/8"Ø x 6" full threaded HDG	50	pcs		
Nut eye conventional 5/8"Ø HDG	50	pcs		
Pin type insulator, ANSI #55-5	42	pcs		
Pin, long shank, 1" thread Ø, 5" long, HDG	46	pcs		
Pole top pin steel 1" thread Ø, 24" long, HDG	5	pcs		
Washer, square curved, 3" x 3" x 5/16" Ø hole	50	pcs		
Hole locknut 5/8"Ø	50	pcs		
Eye bolt 5/8"Ø x 12",HD	50	pcs		

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**Construction of One (1) Unit Electrical System  
for 155mm SP Howitzer Facilities at HAAR, PA  
Page (27/46)**

**BILL OF QUANTITIES**

**Construction of Base Utilities and Facilities for 155mm SP Howitzer of HAAR, PA  
at Fort Magsaysay, Nueva Ecija (1 Lot)  
Bid Ref. No. ENG'G PABAC3 020-23  
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<b>Description</b>	<b>Qty</b>	<b>Unit</b>	<b>P/Unit</b>	<b>Amount</b>
Square washer flat, 2-1/4" x 2-1/4" x 3/16", 11/16"Ø hole	50	pcs		
Square washer flat, 4" x 4" x 3/16", 11/16"Ø hole	50	pcs		
Tie wire soft aluminum, 5/16"Ø 3-strand	50	mtrs		
Suspension insulator, 15KV, polymer type	50	sets		
Clamp loop dead end #2-4/0 ACSR	50	pcs		
Clamp loop dead end strain #4/0-#2/0 ACSR	50	pcs		
Spool insulator ANSI type 55-3, 3"Ø groove, vertical type	50	sets		
Spool insulator ANSI 55-3, 3"Ø groove, horizontal type	10	sets		
Secondary swinging clevis	20	pcs		
c. Guying Assembly				
Galvanized guy wire 7 strands, steel	315	mtrs		
3/8"Ø guy grip	42	pcs		
5/8"Ø x 12" timble eye bolt	42	pcs		

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**Construction of One (1) Unit Electrical System  
for 155mm SP Howitzer Facilities at HAAR, PA  
Page (28/46)**

**BILL OF QUANTITIES**

**Construction of Base Utilities and Facilities for 155mm SP Howitzer of HAAR, PA  
at Fort Magsaysay, Nueva Ecija (1 Lot)  
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Description	Qty	Unit	P/Unit	Amount
Hole locknut 5/8"Ø	84	pcs		
Square washer flat 2-1/4" x 2-1/4" x 3/16	84	pcs		
3-bolt clamp	42	pcs		
Guy truss w/ porcelain separator & 2"Ø pvc pipe	21	sets		
d. Anchoring Assembly				
4' x 8"Ø pre-fab anchor concrete	21	pcs		
5/8" x 7" anchor rod timble eye	21	pcs		
4" x 4" x 1/2"Ø square washer	42	pcs		
Hole locknut 5/8"Ø	42	pcs		
e. Grounding Assembly				
Ground steel rod 5/8"Ø x 10'	6	pcs		
Ground rod connector 5/8"Ø	6	pcs		
Split bolt connector #2/0 - #1/0	12	pcs		
Wire grounding #4 galvanized steel	45	mtrs		
Plate butt grounding	12	pcs		

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**Construction of One (1) Unit Electrical System  
for 155mm SP Howitzer Facilities at HAAR, PA  
Page (29/46)**

**BILL OF QUANTITIES**

**Construction of Base Utilities and Facilities for 155mm SP Howitzer of HAAR, PA  
at Fort Magsaysay, Nueva Ecija (1 Lot)  
Bid Ref. No. ENG'G PABAC3 020-23  
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Description	Qty	Unit	P/Unit	Amount
Grounding wire soft annealed iron, 5/16"Ø 3-stranded	45	mtrs		
f. Primary Cables Wires				
Conductor Poly-insulated ACSR #1/0, primary line wire	1,500	mtrs		
Conductor Poly-insulated ACSR #2/0, secondary line	700	mtrs		
Conductor bare, ACSR #1/0, AWG 6/1, ground wire	700	mtrs		
Compression connector, #1/0-#2/0	80	pcs		
Secondary rack, 2-spool	14	sets		
g. Street Lights				
Solar Street Light 400W, LED Type, ABS Casing, Pole Mounted Integrated Build, w/ Remote, Steel Mounting Bracket and Complete Accessories	25	sets		
<b>Sub-Total</b>				

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**Construction of One (1) Unit Electrical System  
for 155mm SP Howitzer Facilities at HAAR, PA  
Page (30/46)**

**BILL OF QUANTITIES**

**Construction of Base Utilities and Facilities for 155mm SP Howitzer of HAAR, PA  
at Fort Magsaysay, Nueva Ecija (1 Lot)  
Bid Ref. No. ENG'G PABAC3 020-23  
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Description	Qty	Unit	P/Unit	Amount
<b>II. Parking</b>				
3.5mm <sup>2</sup> THHN wire	50	mtrs		
8.0mm <sup>2</sup> THHN wire	100	mtrs		
Secondary Rack, 2-Spool	2	sets		
Electrical Tape, big	2	pcs		
Concrete Pole Round, 30ft	2	pcs		
<b>Sub-Total</b>				
<b>III. Supply Room</b>				
3.5mm <sup>2</sup> THHN wire	50	mtrs		
8.0mm <sup>2</sup> THHN wire	100	mtrs		
Secondary Rack, 2-Spool	2	sets		
Electrical Tape, big	2	pcs		
Concrete Pole Round, 30ft	2	pcs		
<b>Sub-Total</b>				
<b>Total</b>				

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**Construction of One (1) Unit Electrical System  
 for 155mm SP Howitzer Facilities at HAAR, PA  
 Page (31/46)**

**BILL OF QUANTITIES**

**Construction of Base Utilities and Facilities for 155mm SP Howitzer of HAAR,  
 PA at Fort Magsaysay, Nueva Ecija (1 Lot)  
 Bid Ref. No. ENG'G PABAC3 020-23  
 Approved Budget Contract: Php34,150,954.29**

Description	Sub-total
<b>I. Outside Electrical</b>	
<b>II. Parking</b>	
<b>III. Supply Room</b>	
<b>Total Material Cost</b>	
<b>Labor</b>	
<b>E-VAT</b>	
<b>Overhead</b>	
<b>Miscellaneous</b>	
<b>Contractor's Profit</b>	
<b>Total</b>	

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**Construction of Three (3) Units Classroom for  
155mm SP Howitzer Facilities at HAAR, PA  
Page (32/46)**

**BILL OF QUANTITIES**

**Construction of Base Utilities and Facilities for 155mm SP Howitzer of HAAR, PA  
at Fort Magsaysay, Nueva Ecija (1 Lot)  
Bid Ref. No. ENG'G PABAC3 020-23  
Approved Budget Contract: PhP34,150,954.29**

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Description	Qty	Unit	P/Unit	Amount
<b>I. General Requirements</b>				
Temporary Facilities	3	lot		
Permits and Licenses (Processing of Building Permits)	3	lot		
<b>Sub-Total</b>				
<b>II. Earthworks</b>				
a. Site Clearing	375	sqm		
b. Materials (embankment)	75	cum		
c. Labor				
Excavation	105	sqm		
Backfill	210	sqm		
Compaction	210	sqm		
<b>Sub-Total</b>				
<b>III. Concrete Works</b>				
Portland cement type 1	960	bags		
Washed sand	51	cum		
Crushed gravel	102	cum		

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**Construction of Three (3) Units Classroom for  
155mm SP Howitzer Facilities at HAAR, PA  
Page (33/46)**

**BILL OF QUANTITIES**

**Construction of Base Utilities and Facilities for 155mm SP Howitzer of HAAR, PA  
at Fort Magsaysay, Nueva Ecija (1 Lot)  
Bid Ref. No. ENG'G PABAC3 020-23  
Approved Budget Contract: PhP34,150,954.29**

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Description	Qty	Unit	P/Unit	Amount
Gravel bedding	102	cum		
16mmØ x 6.0 rebars	333	pcs		
12mmØ x 6.0 rebars	252	pcs		
10mmØ x 6.0 rebars	1,167	pcs		
GI tie wire #16 (15kgs/roll)	12	rolls		
<b>Sub-Total</b>				
<b>IV. Masonry Works</b>				
6" CHB	5,520	pcs		
4" CHB	1,350	pcs		
Portland cement type 1	705	bags		
Washed sand	12	cum		
10mmØ x 6.0m rebars	288	pcs		
GI tie wire #16	30	kgs		
Stone cladding	15	sqm		
<b>Sub-Total</b>				
<b>V. Form Works</b>				
Steel scaffoldings (rental)	450	sqm		

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Description	Qty	Unit	P/Unit	Amount
1/2" thk marine plywood	75	pcs		
Form lumber coco	4,500	bdft		
CW nails asstd	15	kgs		
Concrete nails	15	kgs		
<b>Sub-Total</b>				
<b>VI. Steel/Metal Works</b>				
a. Roof Framing T-1 to T-3, HT1 to 5, C-purlins, etc.				
2 - 2"x2"x1/4" thk angle bar top chord and bottom chord trusses, 2 - 1 1/2"x1 1/2"x1/4" thk angle bar web members 2"x4"x1.50mm C-purlins, 10mmØ plain bar sag rod 1"x1"x3/16" thk angle frame (facia) to include welding rods, 12mmØ x 250mm x 50mm L-shape anchor bolt with nuts & washer, 200mm x 250mm x 12mm base plate red oxide paint, brush and other hardware with complete accessories	642	sqm		

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Description	Qty	Unit	P/Unit	Amount
1/2" thk x 12" x 8' hardifascia	78	pcs		
<b>b. Roofing</b>				
0.50mm thk pre-painted long span - rib type, pre-painted ridge roll, valley roll, end flashing to include tex screw, blind rivets and other hardware with complete accessories	642	sqm		
Touch up paint	6	gals		
Roof sealant	24	tubes		
Paint brush 2"	12	pcs		
<b>c. Steel Louver</b>				
Steel roof louver (see detail plan)	6	sets		
<b>Sub-Total</b>				
<b>VII. Ceiling Works</b>				
1/4" thk ficem board	225	pcs		
19mm x 50mm x 0.60mm metal furring x 5mtrs	684	pcs		
12mm x 38mm x 0.80mm thk carrying channel x 5.0mtrs	225	pcs		

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<b>Description</b>	<b>Qty</b>	<b>Unit</b>	<b>P/Unit</b>	<b>Amount</b>
25mm x 25mm x 0.5mm thk wall angle x 5.0mtrs	285	pcs		
W-clip	1,350	pcs		
Blind rivets	54	bxs		
Concrete nails 1"	9	kgs		
<b>Sub-Total</b>				
<b>VIII. Doors &amp; Windows and Steel Louvers</b>				
D1 - 1.00 x 2.10m designed flash door with cylindrical lockset complete with 3" LP per leaf and door jambs, other hardware and accessories	3	sets		
D2 - 0.60 x 2.10 m designed flash door with cylindrical lockset complete with 3" LP per leaf and door jambs, other hardware and accessories	9	sets		
W1 - 1.80m x 1.20m sliding window on aluminum frame	24	sets		

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Description	Qty	Unit	P/Unit	Amount
powder costed white color with 6mm thk clear glass and other hardware and accessories				
W2 - 0.60 x 0.60m awning window with 6mm thk clear on analok frame and other hardware and complete accessories	6	sets		
<b>Sub-Total</b>				
<b>IX. Plumbing Works</b>				
Water closet with complete fittings/acc	6	sets		
Wallhang lavatory with complete fittings/acc	6	sets		
Urinal bowl with complete fittings	3	sets		
Lavatory faucets	6	pcs		
P-trap	6	pcs		
1/2" gate valve	6	pcs		
4"x4" floor drain SS	6	pcs		
12mm faucet	9	pcs		
Mirror on aluminum frame (1.50 x 0.80 mtrs)	6	sets		
Water Line				

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<b>Description</b>	<b>Qty</b>	<b>Unit</b>	<b>P/Unit</b>	<b>Amount</b>
1/2"Ø PPR pipes and fittings	3	lot		
Waste Line				
2"Ø x 3.0m pvc pipe	45	pcs		
4"Ø x 3.0m pvc pipe	45	pcs		
2"Ø PVC Elbows	24	pcs		
2"Ø PVC Tee	24	pcs		
4"Ø PVC Elbows	24	pcs		
4"ØmmØ PVC Tee	24	pcs		
4"Ø PVC Reducer	24	pcs		
6"Ø x 3.0m pvc pipe	9	pcs		
PVC cement neltex	3	cans		
Catch basin (0.60 x 0.60 x 1.00mtr)	6	units		
Septic vault (1) - 4.60 x 1.40 x 1.85mtrs	3	units		
<b>Sub-Total</b>				
<b>X. Painting Works</b>				
Skim coat paste (ready mix - 25kgs/pail))	15	pails		
Latex paint semi gloss	18	tins		

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Description	Qty	Unit	P/Unit	Amount
Wood putty	6	gals		
Flatwall enamel paint	15	tins		
Fwe semi gloss paint	9	tins		
Acri color	18	pints		
Tinting color	18	pints		
Roller brush with tray	12	sets		
QDE paint	3	tins		
Paint thinner	18	gals		
Paint brush	12	pcs		
Sand paper	30	pcs		
Rugs	12	kgs		

**Sub-Total**

**XI. Electrical Works**

**a. Lighting & Fixtures**

LED Panel Light 4.5"Ø 12W, Recessed Type	36	sets		
LED Fluorescent T8 1x18W, Surfaced Type	45	sets		
LED Emergency Light, 2-Bulb	9	sets		

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<b>Description</b>	<b>Qty</b>	<b>Unit</b>	<b>P/Unit</b>	<b>Amount</b>
Ceiling Fan Industrial Type 1.20MØ x 3-Steel Blades, w/ Selector Switch	18	sets		
Exhaust Fan, Wall Type, 30cm x 30cm, Ceiling Type	6	sets		
<b>b. Wires &amp; Cables</b>				
2.0mm <sup>2</sup> THHN wire	9	bxs		
3.5mm <sup>2</sup> THHN wire	18	bxs		
5.5mm <sup>2</sup> THHN wire	6	bxs		
8.0mm <sup>2</sup> THHN wire	30	mtrs		
22mm <sup>2</sup> THHN wire	60	mtrs		
Coaxial Cable wire RG6 w/ connectors	90	mtrs		
Telephone Jacketed wire Cat5e w/ connectors	90	mtrs		
<b>c. Pipes &amp; Conduits</b>				
20mmØ uPVC pipe	450	pcs		
20mmØ uPVC long elbow	150	pcs		
20mmØ uPVC male adapter w/ locknut	150	pcs		

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<b>Description</b>	<b>Qty</b>	<b>Unit</b>	<b>P/Unit</b>	<b>Amount</b>
32mmØ uPVC pipe	6	pcs		
32mmØ uPVC adapter	12	pcs		
32mmØ uPVC long elbow	3	pcs		
32mmØ IMC pipe	3	pcs		
32mmØ IMC adapter	6	pcs		
<b>d. Wiring Devices</b>				
1-gang switch with plate and cover, flush type	3	sets		
2-gang switch with plate and cover, flush type	9	sets		
3-gang switch with plate and cover, flush type	3	sets		
Convenience Outlet, Duplex, with plate and cover	30	sets		
Telephone Outlet, with plate & cover	3	sets		
Telephone Terminal Box	3	sets		
Cable TV Outlet, with plate & cover	3	sets		
<b>e. Electrical Devices</b>				
Junction Box PVC w/ cover 4"x4"x2"	144	sets		
Utility Box PVC 4"x2"x2"	81	pcs		

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<b>Description</b>	<b>Qty</b>	<b>Unit</b>	<b>P/Unit</b>	<b>Amount</b>
Service Entrance Cap 32mmØ, Power	3	sets		
Service Entrance Cap 20mmØ, Tel. & Wifi / CATV	6	sets		
Service Entrance Cap 32mmØ, Tel. Local	3	sets		
Electrical Tape, big	24	pcs		
GI Tie wire #16, 25kl	6	sets		
PVC Solvent 400cc	24	cans		
Secondary Rack, 2-Spool	3	sets		
f. Panel Boards				
PB 75AT/100AF MCCB, 22kaic, Single Phase, Bolt-On Type with 08-Branched: with Grounding Busbar, NEMA 3R Enclosure 04-20AT/50AF, 2P, Miniature cb, Bolt-on Type 04-30AT/50AF, 2P, Miniature cb, Bolt-on Type	3	sets		
Ground Rod 5/8"Ø x 3m, with clamp, Power and Telephone/Wifi	6	sets		

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**Designation (in print)**

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**Date**

**PLEASE USE THIS BID FORM  
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**Construction of Three (3) Units Classroom for  
155mm SP Howitzer Facilities at HAAR, PA  
Page (43/46)**

**BILL OF QUANTITIES**

**Construction of Base Utilities and Facilities for 155mm SP Howitzer of HAAR, PA  
at Fort Magsaysay, Nueva Ecija (1 Lot)  
Bid Ref. No. ENG'G PABAC3 020-23  
Approved Budget Contract: PhP34,150,954.29**

**INSTRUCTION TO THE BIDDER: Indicate cost per line item. DO NOT LEAVE ANY BLANK. INDICATE "0" IF ITEM IS BEING OFFERED FOR FREE. "NO" ENTRY WILL NOT BE ACCEPTED. FAILURE TO CONFORM WILL RESULT IN A RATING OF "FAILED"**

Description	Qty	Unit	P/Unit	Amount
<b>Sub-Total</b>				
<b>Amenities (Complete Installation)</b>				
2.5HP Air Condition Unit, Split Type, Wall Mounted, Inverter, Remote, Complete Installation with Accessories	12	units		
Telephone Corded Handset	3	sets		
<i>Note: Telephone &amp; Wifi Connection, Please Subscribe to PLDT (Free Telephone Corded Handset for Landline and Wifi Router)</i>				
<b>Sub-Total</b>				
<b>XII. Fire Safety Requirements</b>				
Fire Extinguisher ABC Dry Chemical, 10 Lbs.	3	sets		
<b>Sub-Total</b>				

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**Construction of Three (3) Units Classroom for  
155mm SP Howitzer Facilities at HAAR, PA  
Page (44/46)**

**BILL OF QUANTITIES**

**Construction of Base Utilities and Facilities for 155mm SP Howitzer of HAAR, PA  
at Fort Magsaysay, Nueva Ecija (1 Lot)  
Bid Ref. No. ENG'G PABAC3 020-23  
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Description	Qty	Unit	P/Unit	Amount
<b>XIII. Tile Works</b>				
60x 60cm floor tiles (to include CR floor tiles)	1,140	pcs		
60x 60cm wall tiles - CR	375	pcs		
portland cement type 1	60	bgs		
washed sand	6	cum		
tile adhesive	18	bgs		
tile grout - 2kgs/pack	15	pcks		
cutting disk	6	pcs		
			<b>Sub-Total</b>	
<b>XIV. Amenities - Classroom</b>				
Chair with arm	180	sets		
			<b>Sub-Total</b>	
			<b>Total</b>	

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**Construction of One (1) Unit Classroom for  
 155mm SP Howitzer Facilities at HAAR, PA  
 Page (45/46)**

**BILL OF QUANTITIES**

**Construction of Base Utilities and Facilities for 155mm SP Howitzer of HAAR,  
 PA at Fort Magsaysay, Nueva Ecija (1 Lot)  
 Bid Ref. No. ENG'G PABAC3 020-23  
 Approved Budget Contract: PhP34,150,954.29**

Description	Sub-total
<b>III. Concrete Works</b>	
<b>IV. Masonry Works</b>	
<b>V. Form Works</b>	
<b>VI. Steel/Metal Works</b>	
<b>VII. Ceiling Works</b>	
<b>VIII. Doors &amp; Windows and Steel Louvers</b>	
<b>IX. Plumbing Works</b>	
<b>X. Painting Works</b>	
<b>XI. Electrical Works</b>	
<b>XIII. Tile Works</b>	
<b>Total Material Cost</b>	
<b>Labor</b>	

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**Construction of One (1) Unit Classroom for  
 155mm SP Howitzer Facilities at HAAR, PA  
 Page (46/46)**

**BILL OF QUANTITIES**

**Construction of Base Utilities and Facilities for 155mm SP Howitzer of HAAR,  
 PA at Fort Magsaysay, Nueva Ecija (1 Lot)  
 Bid Ref. No. ENG'G PABAC3 020-23  
 Approved Budget Contract: Php34,150,954.29**

Description	Sub-total
<b>I. General Requirements</b>	
<b>II. Earthworks</b>	
<b>Amenities (ACU)</b>	
<b>XII. Fire Safety Requirements</b>	
<b>XIV. Amenities - Classroom</b>	
<b>E-VAT</b>	
<b>Overhead</b>	
<b>Miscellaneous</b>	
<b>Contractor's Profit</b>	
<b>Total</b>	

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