Section VIII. Bill of Quantities

Description	ABC (PhP)	Page
Construction of Perimeter Fence and Standard Gate at	11,899,726.34	01-14
Camp Lucero, Carmen, Cotabato	, ,	
Construction of Ground Development for 155mm SP Howitzer Facilities at Camp Lucero, Carmen, Cotabato	27,814,145.00	15-26
Construction of Water System for 155mm SP Howitzer Facilities at Camp Lucero, Carmen, Cotabato	4,892,502.00	27-33
Construction of Electrical System for 155mm SP Howitzer Facilities at Camp Lucero, Carmen, Cotabato	3,414,823.58	34-38
Total	48,021,196.92	

Perimeter Fence and Standard Gate Facilities Page (01/38)

BILL OF QUANTITIES

Construction of Base Utilities and Facilities for 155mm SP Howitzer of Camp, Lucero, Cotabato (1 Lot)

Bid Ref. No. ENG'G PABAC3 023-23

Approved Budget Contract: PhP48,021,196.92

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 "FAIL FD"

Description	Qty	Unit	P/Unit	Amount
A. Cyclone Wire Fence	1			
Estimates good for 751.88lnm (251 bays@ 3.0 per ly)				
I. Earth Works				
excavation	226	cum		
backfill	226	cum		
compaction	226	cum		
			Sub-Total	
II. Concrete Works				
p cement type 1	1,050	bags		
sand washed	58	cum		
Crushed gravel ¾"	116	cum		
12mmØ rsb	630	pcs		
10mmØ rsb	380	pcs		
#16gi tie wire	80	kgs		
			Sub-Total	
III. Formworks				
½ form plywood	57	pcs		·
Form lumber coco	2,000	bd ft		

Notes:

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I/We undertake, if our bid is accepted, to deliver the items in accordance with the terms and conditions contained in the bid documents, including the posting of the required performance security within ten (10) calendar days from receipt of Notice of Award.

	Until a formal contract/order confirmation is prepared and signed, this Bid is binding on us
--	--

Name o	of Company (in print)	
Signature of Comp	pany Authorized Represen	 ntative
Des	ignation (in print)	
	Date Date	

Perimeter Fence and Standard Gate Facilities
Page (02/38)

BILL OF QUANTITIES

Construction of Base Utilities and Facilities for 155mm SP Howitzer of Camp, Lucero, Cotabato (1 Lot)

Bid Ref. No. ENG'G PABAC3 023-23

Approved Budget Contract: PhP48,021,196.92

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Description	Qty	Unit	P/Unit	Amount
cw nails (asstd)	36	kgs		
concrete nails (asstd)	12	kgs		
	<u>.</u>		Sub-Total	
IV. Masonry Works				
4"chb	11,300	pcs		
p cement type 1	882	bags		
washed sand	101	cum		
12mmØ rsb	106	pcs		
10mmØ rsb	565	pcs		
gi tie wire #16	48	kgs		
			Sub-Total	
V. Metal Works				
1.5"Øx 6.0m gi pipe sch 40	336	pcs		
12mmØ rsb	85	pcs		
angular bar 1"x1"x3/16"	420	pcs		
cyclone wire x 1.40 mtrs	752	İnm		
Welding rod	100	kgs		
hacksaw blade	50	pcs		
	•	•	Sub-Total	

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Name of Company (in print)	
Signature of Company Authorized Representative	
Designation (in print)	
Date	

Perimeter Fence and Standard Gate Facilities Page (03/38)

BILL OF QUANTITIES

Construction of Base Utilities and Facilities for 155mm SP Howitzer of Camp, Lucero, Cotabato (1 Lot)

Bid Ref. No. ENG'G PABAC3 023-23 Approved Budget Contract: PhP48,021,196.92

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Description	Qty	Unit	P/Unit	Amount
VI. Painting Works				
concrete neutralizer	75	gals		
flat latex gloss	100	gals		
latex paint semi-gloss	100	gals		
aluminum paint	85	gals		
paint thinner	20	gals		
roller paint brush w/ tray 9"	15	sets		
paint brush 2"& 3"	12	pcs		
			Sub-Total	
B. 6" thick CHB Fence				
estimates good for 476.lnm (159 bays @ 3.0m per bay)				
I. Earthworks				
excavation	172	cum		
backfill	172	cum		
compaction	172	cum		
			Sub-Total	
II. Concrete and Masonry Works				
6"thk chb	16,750	pcs		
p cement type 1	2,040	bags		
Notes:	·		-	·

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Signature of Company Authorized Representative	
Designation (in print)	
Date	

Perimeter Fence and Standard Gate Facilities Page (04/38)

BILL OF QUANTITIES

Construction of Base Utilities and Facilities for 155mm SP Howitzer of Camp, Lucero, Cotabato (1 Lot)

Bid Ref. No. ENG'G PABAC3 023-23 Approved Budget Contract: PhP48,021,196.92

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Description	Qty	Unit	P/Unit	Amount
sand washed	205	cum		
crushed gravel 3/4"	60	cum		
crushed gravel 3/4"(bedding)	30	cum		
12mmØ rsb	534	pcs		
10mmØ rsb x 6.0m rebars	1,920	pcs		
barbed wire	1,950	Inm		
gi tie wire	160	kgs		
hacksaw blade	100	pcs		
			Sub-Total	
III. Form Works				
1/2 form plywood	80	pcs		
form lumber coco	2,800	bd ft		
cw nails (asstd)	50	kgs		
concrete nails (asstd)	15	kgs		
			Sub-Total	
IV. Painting Works				
concrete neutralizer	80	gals		
flat latex gloss	160	gals		
latex paint semi-gloss	160	gals		

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Signature of Company Author	ized Representative
Designation (in	print)
Date	

Perimeter Fence and Standard Gate Facilities Page (05/38)

BILL OF QUANTITIES

Construction of Base Utilities and Facilities for 155mm SP Howitzer of Camp,
Lucero, Cotabato (1 Lot)

Bid Ref. No. ENG'G PABAC3 023-23 Approved Budget Contract: PhP48,021,196.92

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Description	Qty	Unit	P/Unit	Amount
aluminum paint	54	gals		
paint thinner	15	gals		
paint thinner roller paint brush w/ tray 9"	15	sets		
paint brush 2" & 3"	12	pcs		
C. Cyclone Wire Gate				
(H-2.0 x W-8.0m)- Painted Finished cyclone				
wire gate on 1 1/2"Ø GI pipe frame with complete	1	set		
acs.	'	361		
cyclone wire gate on 1 ½ Ø GI pipe Frame with	1	set		
complete acs. (Pedestrian Gate 1.5m x 2.0m)		301		
D. Standard Gate (15.15 lnm)				
I. Concrete Works				
portland cement (type 1)	356	bags		
sand washed	19	cum		
gravel crushed 3/4"	38	bags		
sahara cement	55	pcs		
20mm rsb deformed	22	pcs		
16mm rsb deformed	95	pcs		
12mm rsb deformed	18	pcs		

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Designation (in print)
Date

Perimeter Fence and Standard Gate Facilities
Page (06/38)

BILL OF QUANTITIES

Construction of Base Utilities and Facilities for 155mm SP Howitzer of Camp, Lucero, Cotabato (1 Lot)

Bid Ref. No. ENG'G PABAC3 023-23 Approved Budget Contract: PhP48,021,196.92

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Description	Qty	Unit	P/Unit	Amount
10mm rsb deformed	285	pcs		
#16 tie wire	42	kgs		
	•		Sub-Total	
II. Masonry Works				
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		
	·		Sub-Total	
III. Form & Scaffolds				
2x3x12 coco lumber	545	bd ft		
form plywood 1/2"	21	pcs		
cw nail	27	kgs		
IV. Metal Works				
1x1x1.50 tubular window grills	7	pcs		
5" Ø GI pipe sch 40	8	pcs		
N .		POS		1

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Name of Company (in print
Signature of Company Authorized Rep
Designation (in print)
Date

Perimeter Fence and Standard Gate Facilities
Page (07/38)

BILL OF QUANTITIES

Construction of Base Utilities and Facilities for 155mm SP Howitzer of Camp,
Lucero, Cotabato (1 Lot)
Bid Ref. No. ENG'G PABAC3 023-23

Approved Budget Contract: PhP48,021,196.92

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Description	Qty	Unit	P/Unit	Amount
4" Øx 6m GI pipe sch 40	6	pcs		
150mmØ x 6.5mm steel cover w/ hinge	32	sets		
welding rod	3	kgs		
epoxy primer	1	gal		
lacquer thinner	1	gal		
paint brush 2"	1	рс		
cutting disk 14"	1	рс		
sanding disk 4"	2	pcs		
2- panel steel gate (8.8mx 2.10m)	1	set		
	Sub-Total			
V. Water Proofing				
liquid water proof	14	gals		
paint brush 4"	2	pcs		
	Sub-Total			
VI. Doors & Windows				
0.60x2.10 pvc door w/ jamb, hinges	1	set		
1.20x1.20 alumn analok sliding window	2	sets		
0.60x0.60 alumn analok sliding window	1	set		
3 1/2 x 3 1/2 lp hinges	2	prs		_

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Designation (in print)
Date

Perimeter Fence and Standard Gate Facilities Page (08/38)

BILL OF QUANTITIES

Construction of Base Utilities and Facilities for 155mm SP Howitzer of Camp,
Lucero, Cotabato (1 Lot)

Bid Ref. No. ENG'G PABAC3 023-23 Approved Budget Contract: PhP48,021,196.92

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Description	Qty	Unit	P/Unit	Amount
door lockset w/o key				
			Sub-Total	
VII. Ceiling Works				
metal furring	12	sqm		
12mm gypsum board	6	pcs		
tocks & screw	27	pcs		
gypsum screw	165	pcs		
5/32 x1/2 blind rivets	1	box		
			Sub-Total	
VIII. Plumbing Works				
water closet w/ tank w/ comp access	1	set		
wall hang lavatory w/ p trap	1	set		
urinal w/ flush medium size	1	set		
lav faucet	1	рс		
faucet	1	рс		
angle valve w/ hose	3	sets		
ppr water line	6	Inm		
pvc plumbing line	6	Inm		
-			Sub-Total	

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Name of Company (in prin	t)
Signature of Company Authorized Re	presentative
Designation (in print)	

Perimeter Fence and Standard Gate Facilities
Page (09/38)

BILL OF QUANTITIES

Construction of Base Utilities and Facilities for 155mm SP Howitzer of Camp,
Lucero, Cotabato (1 Lot)

Bid Ref. No. ENG'G PABAC3 023-23 Approved Budget Contract: PhP48,021,196.92

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RATING OF "FAILED" Description Qtv Unit P/Unit Amount IX. Electrical Works a. Lighting & Fixtures LED Panel Light 5" Ø, 5W, recessed type 9 sets LED Panel Light 5" Ø, surfaced type 4 sets LED Flood Light, 20W, warm white, IP66, WHS Type 18 sets LED Emergency Light, 2-Bulb 5 sets Ceiling Fan Orbital Type, 18" Ø w/ Selector Switch 3 sets b. Wires & Cables 2.0mm² THHN wire 2 boxes 3.5mm² THHN wire 6 boxes 5.5mm² THHN wire 2 boxes Telephone jacketed wire cat5e w/ connectors 146 mtrs c.Pipes & Conduits 20mmØ uPVC pipe 110 pcs 20mmØ uPVC long elbow 52 pcs 25mmØ uPVC pipe 3 pcs 25mmØ uPVC male adapter w/ locknut 4 pcs 25mmØ uPVC long elbow 5 pcs

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signature of Company Authorized Rep	resentative
Designation (in print)	
Date	

Perimeter Fence and Standard Gate Facilities
Page (10/38)

BILL OF QUANTITIES

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Qty	Unit	P/Unit	Amount
5	sets		
3	sets		
5	sets		
3	sets		
43	sets		
13	pcs		
2	sets		
8	pcs		
8	kgs		
8	cans		
2	set		
		Sub-Total	
4	gals		
	5 3 5 3 43 13 2 8 8 8	5 sets 3 sets 5 sets 3 sets 43 sets 43 sets 13 pcs 2 sets 8 pcs 8 kgs 8 cans	5 sets 3 sets 5 sets 3 sets 43 sets 43 sets 13 pcs 2 sets 8 pcs 8 kgs 8 cans 2 set Sub-Total

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Signature of Company Authorized Repre	 esentative
Designation (in print)	
Date	

Perimeter Fence and Standard Gate Facilities
Page (11/38)

BILL OF QUANTITIES

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Lucero, Cotabato (1 Lot)

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Description	Qty	Unit	P/Unit	Amount
lattex flat	9	tins		
latex semi-gloss	9	tins		
enamel paint	7	tins		
QDE	4	gals		
acri color	4	Itrs		
ting-ting color	4	Itrs		
lacquer thinner	2	gals		
paint thinner	3	gals		
roller w/ tray	4	sets		
paint brush 4"	4	pcs		
paint brush 2"	7	pcs		
sand paper	15	Inm		
rug	18	kgs		
			Sub-Total	
XI. Finishing Works				
Stone cladding	84	sqm		
30 x 30 floor tiles	318	pcs		
30 x 30 CR floor tiles	91	pcs		
30 x 30 CR wall tiles	326	pcs		

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Signature of Company Authorized Representative
Designation (in print)
Date

Perimeter Fence and Standard Gate Facilities
Page (12/38)

BILL OF QUANTITIES

Construction of Base Utilities and Facilities for 155mm SP Howitzer of Camp,
Lucero, Cotabato (1 Lot)

Bid Ref. No. ENG'G PABAC3 023-23 Approved Budget Contract: PhP48,021,196.92

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Description	Qty	Unit	P/Unit	Amount
30 x 30 deck tiles	300	pcs		
Portland cement	44	bags		
tile adhesive	23	bags		
tile grout	18	kgs		
sand- bistay	218	sack		
stainless letterings	24	pcs		
Army seal	1	Pc		
concrete moulding	54	Inm		
landscaping	1	lot		
			Sub-Total	
XII. Septic Tank (1.20 x 3.00x 1.50m)				
portland cement	27	bags		
washed sand	3	cum		
sand-bistay	30	sacks		
crushed gravel 3/4"	2	cum		
6" CBH	218	pcs		
sahara cement	6	bags		
10mm rsb	24	pcs		
#16 tie wire	3	kgs		

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Perimeter Fence and Standard Gate Facilities
Page (13/38)

BILL OF QUANTITIES

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Approved Budget Contract: PhP48,021,196.92

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Description	Qty	Unit	P/Unit	Amount
4" pvc tee	4	pcs		
4" pvc clean-out	4	pcs		
4" pvc pipe	4	pcs		
			Sub-Total	
XIII. Earth Woks				
Excavation	55	cum		
Backfill	48	cum		
Compaction	48	cum		
Clearing/cleaning	194	sqm		
	<u>.</u>		Sub-Total	

Notes:

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- The amount in the signed submitted Financial Bid Form (Annex XI) must be equal to the sum indicated in the Bill of Quantities per Section VIII must not exceed the total ABC

BIDDER'S UNDERTAKING

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I/We undertake, if our bid is accepted, to deliver the items in accordance with the terms and conditions contained in the bid documents, including the posting of the required performance security within ten (10) calendar days from receipt of Notice of Award.

Name of Company (in print))
Signature of Company Authorized Rep	resentative
Designation (in print)	
Date	

Perimeter Fence and Standard Gate Facilities
Page (14/38)

BILL OF QUANTITIES

Construction of Base Utilities and Facilities for 155mm SP Howitzer of Camp, Lucero, Cotabato (1 Lot)

Bid Ref. No. ENG'G PABAC3 023-23 Approved Budget Contract: PhP48,021,196.92

Description Sub-total **A.Cyclone Wire Fence** B. 6" thick CHB Fence C. Cyclone Wire Gate D. Standard Gate (15.15 Inm) **Total Material Cost** Labor **Earth Works (Cyclone Wire)** Earth Works (6" CHB Fence) **Earth Works (Standard Gate)** Mobil/Demobil E-VAT Overhead Miscellaneous **Contractor's Profit** Total

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Name of Com	pany (in print)
Signature of Company A	uthorized Representative
Designation	on (in print)

Ground Development for 155mm SP Howitzer Facilities Page (15/38)

BILL OF QUANTITIES

Construction of Base Utilities and Facilities for 155mm SP Howitzer of Camp,
Lucero, Cotabato (1 Lot)

Bid Ref. No. ENG'G PABAC3 023-23 Approved Budget Contract: PhP48,021,196.92

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Description	Qty	Unit	P/Unit	Amount
Area= 12,210.00 m ²				
I. Item 100 - clearing and grubbing				
Labor:				
Construction Foreman (1 person)	5	days		
Unskilled Laborer (2 person)	5	days		
Equipment:				
1-unit bulldozer, TD20G or any brand with				
similar capacity: 07 efficiency; 500 sqm/hr-	5	days		
output per hour; 24 hrs-Nr of hours				
			Sub-Total	
II. Item 104 - Embankment				
volume=2,309.00				
a. Materials				
Item 104 (suitable materials)	2,309	cum		
b. Labor:				
Spreading and Compaction				
Construction Foreman (1 person)	9	days		
Notes:				·

Notes:

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Name of Company (in print)
ignature of Company Authorized Rep	oresentative
Designation (in print)	
Date	

Ground Development for 155mm SP Howitzer Facilities Page (16/38)

BILL OF QUANTITIES

Construction of Base Utilities and Facilities for 155mm SP Howitzer of Camp,
Lucero, Cotabato (1 Lot)

Bid Ref. No. ENG'G PABAC3 023-23 Approved Budget Contract: PhP48,021,196.92

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Description	Qty	Unit	P/Unit	Amount
Unskilled Laborer (2 persons)	9	days		
c. Equipments				
- spreading				
1-unit Grader A450E or any brand with similar capacity: 0.7-efficiency; 50 cum/hr-output per hour; 66 hrs-Nr of hours	9	days		
- compaction				
using vibratory roller Dresser 266B or any brand with similar capacity; 07-efficiency; 24 cum/hr-output per hour; 138 hrs-Nr of hours	18	days		
1 - water truck/pump (16,000 L)	8	days		
			Sub-Total	

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Name of Company (in print)
Signature of Company Authorized Represent
Designation (in print)
Date

Ground Development for 155mm SP Howitzer Facilities Page (17/38)

BILL OF QUANTITIES

Construction of Base Utilities and Facilities for 155mm SP Howitzer of Camp,
Lucero, Cotabato (1 Lot)
Bid Ref. No. ENG'G PABAC3 023-23

Approved Budget Contract: PhP48,021,196.92

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Description	Qty	Unit	P/Unit	Amount
III. Item 105 - Sub-grade Preparation				
a. Labor:				
Construction Foreman (1 person)	7	days		
Unskilled Laborer (2 person)	7	days		
b. Equipment				
1-unit grader dresser A450E or any brand with similar capacity: 07-efficiency; 300 cum/hr-output per hour; 56 hrs-Nr of hours	7	days		
1 - vibratory roller (10mt), SD 100DC	7	days		
1 - water truck/pump (16,000 L)	7	days		
			Sub-Total	
IV. Item 200 - Aggregate Sub-base Course				
road width = 7 meters shoulder = 1.5 meters road length = 1,110 volume = 1,665				

Notes:

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Name of Company (in print)	
Signature of Company Authorized Repr	esentative
Designation (in print)	

Ground Development for 155mm SP Howitzer Facilities Page (18/38)

BILL OF QUANTITIES

Construction of Base Utilities and Facilities for 155mm SP Howitzer of Camp,
Lucero, Cotabato (1 Lot)

Bid Ref. No. ENG'G PABAC3 023-23 Approved Budget Contract: PhP48,021,196.92

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Description	Qty	Unit	P/Unit	Amount
a. material				
aggregate sub-base course (with 15% shrinkage factor)	1,915.00	cum		
b. Labor:				
Construction Foreman (1 person)	30	days		
Unskilled Laborer (2 persons)	30	days		
c. Equipments				
1-unit Grader dresser A450E or any brand with similar capacity: 0.7-efficiency; 50 cum/hr-output per hour; 55 hrs-Nr of hours	7	days		
1 - vibratory roller (10mt), SD 100DC	7	days		
1 - water truck/pump (16,000 L)	7	days		
	_	Sı	ub-Total	

Notes:

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Name of Company (in print)	
Signature of Company Authorized Repre	 sentative
Designation (in print)	
Date	

Ground Development for 155mm SP Howitzer Facilities Page (19/38)

BILL OF QUANTITIES

Construction of Base Utilities and Facilities for 155mm SP Howitzer of Camp,
Lucero, Cotabato (1 Lot)

Bid Ref. No. ENG'G PABAC3 023-23 Approved Budget Contract: PhP48,021,196.92

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Description	Qty	Unit	P/Unit	Amount
V. Item 201 - Aggregate Base Course				
road width= 7 meters shoulder= 1.5 meters road length= 1,110 meters volume= 1,655 cum				
a. Materials				
Aggregate sub-base course (with 15% shrinkage factor)	1,915.00	cum		
b. Labor:				
Construction Foreman (1 person)	30	days		
Unskilled Laborer (2 person)	30	days		
c. Equipment				
1-unit Grader Dresser A450E or any brand with similar capacity: 0.7- efficiency; 50 cum/hr-output per hour; 55 hours	7	days		

Notes:

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Name of Company (in print)	
Signature of Company Authorized Repre	 sentative
Designation (in print)	
Date	

Ground Development for 155mm SP Howitzer Facilities Page (20/38)

BILL OF QUANTITIES

Construction of Base Utilities and Facilities for 155mm SP Howitzer of Camp, Lucero, Cotabato (1 Lot)

Bid Ref. No. ENG'G PABAC3 023-23 Approved Budget Contract: PhP48,021,196.92

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Description	Qty	Unit	P/Unit	Amount
1-unit Vibratory Roller (10mt), SD 100DC	7	days		
1-unit Water truck/ pump (16,000 L)	7	days		
			Sub-Total	
VI. Item 311 - Portland Cement Concrete Pavement - (0.25m thick)				
road width=7 meters road length=1,110 meters thickness=0.25 meters volume=1,943 cum				
a. Labor:				
Construction Foreman (1 person)	47	days		
Skilled Laborer (6 person)	47	days		
Unskilled Laborer (12 person)	47	days		
b. Equipment				
2-unit Concrete vibrator	24	days		
1-unit Concrete screeder (5.5 hp)	24	days		
1-unit Concrete saw (7.5 hp), 14"Ø blade	24	days		

Notes:

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Name of Company (in print)
Signature of Company Authorized Represe
Designation (in print)
Date

Ground Development for 155mm SP Howitzer Facilities Page (21/38)

BILL OF QUANTITIES

Construction of Base Utilities and Facilities for 155mm SP Howitzer of Camp, Lucero, Cotabato (1 Lot)

Bid Ref. No. ENG'G PABAC3 023-23 Approved Budget Contract: PhP48,021,196.92

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Description	Qty	Unit	P/Unit	Amount
1-unit Bar cutter, single phase-Minor	3	daye		
tools- 5% of labor	3	days		
c. Materials				
Reinforcing steel bar	3,850	kgs		
Curing compound	2,223	liters		
Asphalt sealant	1,300	liters		
Steel forms (2x5x1.2mm c-purlins)	152	pcs		
Ready mixed concrete (3000 psi)	1,943	cum		
Concrete saw (diamond blade 14"Ø)	3	pcs		
Pipe sleeve 2"Ø	62	mtrs		
Grease/tar	62	liters		
2. Concreting of Parking Area				
a. Labor:				
Construction Foreman (1 person)	3	days		
Skilled Laborer (6 person)	3	days		
Unskilled Laborer (12 persons)	3	days		

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Name of Company (in print)	
Signature of Company Authorized Repr	esentative
Designation (in print)	
Date	

Ground Development for 155mm SP Howitzer Facilities Page (22/38)

BILL OF QUANTITIES

Construction of Base Utilities and Facilities for 155mm SP Howitzer of Camp, Lucero, Cotabato (1 Lot)

Bid Ref. No. ENG'G PABAC3 023-23 Approved Budget Contract: PhP48,021,196.92

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Description	Qty	Unit	P/Unit	Amount
b. Equipment				
2-unit Concrete vibrator	3	days		
1-unit Concrete screeder (5.5 hp)	3	days		
1-unit Bar cutter, single phase	2	days		
c. Materials				
Ready mixed concrete (3000 psi)	40	cum		
Gravel bedding	20	um		
Steel forms (2x4x1.2mm c-purlins)	12	pcs		
#16 gi tie wire	20	kgs		
Reinforcing steel bar	1,719	kgs		
			Sub-Total	
VII. Item 500 - Cross Drainage/Line Canal				
a. Line canal				
length = 1000 meters				
width = 0.60 meter				
depth = 0.60 meter				
volume = 1,000 x 0.60 x 0.60x1,000 = 360 cum				

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Name of Company (in print)
Signature of Company Authorized Representati
Designation (in print)
Date Date

Ground Development for 155mm SP Howitzer Facilities Page (23/38)

BILL OF QUANTITIES

Construction of Base Utilities and Facilities for 155mm SP Howitzer of Camp,
Lucero, Cotabato (1 Lot)

Bid Ref. No. ENG'G PABAC3 023-23 Approved Budget Contract: PhP48,021,196.92

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Description	Qty	Unit	P/Unit	Amount
a. Labor:				
Construction Foreman (1 person)	50	days		
Skilled Laborer (3 persons)	50	days		
Unskilled Laborer (6 persons	50	days		
b. Equipments				
1-unit Backhoe (0.80 m³) - minor tools 10% of	20	dave		
Labor	20	days		
c. Materials				
5" CHB	16,500	pcs		
cement	2,650	bags		
sand	80	cum		
gravel	100	cum		
10mmØ x 6.0m deformed bars	6,035	kgs		
gi tie wire #16	160	kgs		
b. 500 - Cross Drainage (3 lines Reinforced				
Concrete Pipe Culvert)				
a. Labor:				
Construction Foreman (1 person)	30	days	·	

Notes:

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None	a of Commonwellin maint)
Name	e of Company (in print)
Signature of Co	mpany Authorized Represen
D	esignation (in print)
	Date

Ground Development for 155mm SP Howitzer Facilities Page (24/38)

BILL OF QUANTITIES

Construction of Base Utilities and Facilities for 155mm SP Howitzer of Camp,
Lucero, Cotabato (1 Lot)

Bid Ref. No. ENG'G PABAC3 023-23 Approved Budget Contract: PhP48,021,196.92

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Description	Qty	Unit	P/Unit	Amount
Skilled Laborer (4 persons)	30	days		
Unskilled Laborer (10 persons)	30	days		
b. Equipment Rental:				
Concrete vibrator	3	days		
Boom truck	3	days		
Backhoe (0.80 cum)- minor tools 10% labor	1	day		
c. Materials:				
wingwall				
ready mixed concrete - 3,000 psi	95	cum		
12mmØ x 6.0m deformed bars	415	pcs		
6mmØ wire mesh gabions	85	sqm²		
gi tire wire #16	38	kgs		
boulders	12	cum		
pipe culvert (0.90MØ x 1.0M)	33	pcs		
formworks				
3/4" phenolic board (4'x8')	32	pcs		
CWN asstd	10	kgs		
Good Lumber 2"x2"x10'	118	pcs		

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Name of Company (i	n print)
Signature of Company Authoriz	ed Representative
Designation (in p	rint)
Date	

Ground Development for 155mm SP Howitzer Facilities Page (25/38)

BILL OF QUANTITIES

Construction of Base Utilities and Facilities for 155mm SP Howitzer of Camp, Lucero, Cotabato (1 Lot)

Bid Ref. No. ENG'G PABAC3 023-23 Approved Budget Contract: PhP48,021,196.92

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10111				
Description	Qty	Unit	P/Unit	Amount
Good Lumber 2"x3"x12'	54	pcs		
Good Lumber 2"x4"x12'	64	pcs		
gi tire wire #16	28	kgs		
1" Ø PE pipe (weep hole)	1	rls		
			Sub-Total	
X. Temporary Facility				
Modular Facility	1	lot		

Notes:

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Name	of Company (in print)	
Signature of Com	pany Authorized Repre	esentative
Des	signation (in print)	
	Date	

Ground Development for 155mm SP Howitzer Facilities Page (26/38)

BILL OF QUANTITIES

Construction of Base Utilities and Facilities for 155mm SP Howitzer of Camp, Lucero, Cotabato (1 Lot)

Bid Ref. No. ENG'G PABAC3 023-23

Approved Budget Contract: PhP48,021,196.92

Description	Sub-total
I. Item 100- Clearing and Grubbing	
II. Item 104- Embankment	
III. Item 105- Sub-grade Preparation	
IV. Item 200- Aggregate Sub- base Course	
V. Item 201- Aggregate base Course	
VII. Item 311- Portland Cement Concrete Pavement (PCCP)	
VIII. Item 500- Cross Drainage/ Line Canal	
a. Line canal	
b. Cross Drainage	
X. Temporary Facility	
Total Direct Cost	
E-VAT	
Overhead	
Miscellaneous	
Contractor's Profit	
Total	
	·

Notes:

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	Name of Company (in print)	
Sig	nature of Company Authorized Representativ	re ·
	Designation (in print)	
	Date	

Water System for 155mm SP Howitzer Facilities Page (27/38)

BILL OF QUANTITIES

Construction of Base Utilities and Facilities for 155mm SP Howitzer of Camp,
Lucero, Cotabato (1 Lot)

Bid Ref. No. ENG'G PABAC3 023-23

Approved Budget Contract: PhP48,021,196.92

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
I. Deep Well				
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				
b. Deepwell Supply Pipe				
8"φ x 20' GI pipe sch 40	2	pcs		
6"φ x 20' GI pipe sch 40	15	pcs		
2"φ x 20' GI pipe w/ coupling	13	pcs		
2"φ GI 90 deg bend	2	pcs		
2"φ sleeve type coupling	2	pcs		
flow meter	1	set		
pressure guage	1	set		
strainer	1	set		
2"φ brass check valve	2	pcs		

Notes:

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BIDDER'S UNDERTAKING

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Name of Company (in print)	
Signature of Company Authorized Repres	sentative
Designation (in print)	
Date	

Water System for 155mm SP Howitzer Facilities Page (28/38)

BILL OF QUANTITIES

Construction of Base Utilities and Facilities for 155mm SP Howitzer of Camp, Lucero, Cotabato (1 Lot)

Bid Ref. No. ENG'G PABAC3 023-23 Approved Budget Contract: PhP48,021,196.92

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Description	Qty	Unit	P/Unit	Amount
3"¢ swing valve	1	рс		
welding rod	20	kgs		
blind flange	1	рс		
3"	2	pcs		
3"	1	рс		
3" GI plug	1	рс		
3"	1	рс		
pressure guage 0-100 lbs	1	рс		
miscl	1	lot		
c. Submersible Pump & Motor				
brand new submersible pump motor, 5 HP, singlephase, 230V brand new submersible pump	1	unit		
d. Motor Control & Cable Wires				
5 HP motor control panel w/ automatic features	1	unit		
industrial breaker 125A, 1-phase	1	unit		
#12 THW wire	2	rls		
submersible cable #08/3	220	Inm		
e. Construction of Pump Room				
2.00m x 2.00m pump room	1	unit		

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Designation (in print)

Water System for 155mm SP Howitzer Facilities Page (29/38)

BILL OF QUANTITIES

Construction of Base Utilities and Facilities for 155mm SP Howitzer of Camp, Lucero, Cotabato (1 Lot)

Bid Ref. No. ENG'G PABAC3 023-23 Approved Budget Contract: PhP48,021,196.92

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Description	Qty	Unit	P/Unit	Amount
f. earth works				
compaction	45	cum		
gravel metalling	11	cum		
			Sub-Total	
II. Elevated Water Tank (10,000-gals capacity)				
a. Earth Works				
excavation	22	cum		
backfill	22	cum		
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				

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Name of Compar	ny (in print)
Signature of Company Auth	orized Representativ
Designation (i	in print)
Date	

Water System for 155mm SP Howitzer Facilities Page (30/38)

BILL OF QUANTITIES

Construction of Base Utilities and Facilities for 155mm SP Howitzer of Camp, Lucero, Cotabato (1 Lot)

Bid Ref. No. ENG'G PABAC3 023-23 Approved Budget Contract: PhP48,021,196.92

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Description	Qty	Unit	P/Unit	Amount
1/2" thk form plywood	5	pcs		
form lumber coco	120	bd ft		
scaffolds coco	120	bd ft		
cw nail asstd	15	kgs		
d. Metal Works				
10,000-gals cap steel watertank & 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 w/ 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 bitt (16mmØ metal)	4	pcs		

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Signature of Company Auth	norized Representativ
Designation	(in print)
Date	

Water System for 155mm SP Howitzer Facilities Page (31/38)

BILL OF QUANTITIES

Construction of Base Utilities and Facilities for 155mm SP Howitzer of Camp, Lucero, Cotabato (1 Lot)

Bid Ref. No. ENG'G PABAC3 023-23 Approved Budget Contract: PhP48,021,196.92

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Description	Qty	Unit	P/Unit	Amount
e. Plumbing Works				
100mmØx6m GI pipe sch 40	10	pcs		
100mmØ GI coupling	6	pcs		
100mmØ GI elbow	4	pcs		
100mmØ gate valve	2	pcs		
50mmØGI vent pipe	1	pcs		
teflon tape	12	rls		
f. Painting Works				
Zinc Chromate	8	gals		
epoxy paint	20	gals		
latex paint	2	gals		
nuetralizer	1	ltr		
lacquer thinner	2	gals		
roller w/ tray	2	sets		
paint brush	8	pcs		
steel palete	4	pcs		
			Sub-Total	
III. Water Pipe Lines				
a. Water Line				

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Name of Company (in prin	t)
Signature of Company Authorized Re	presentative
Designation (in print)	
Date	

Water System for 155mm SP Howitzer Facilities Page (32/38)

BILL OF QUANTITIES

Construction of Base Utilities and Facilities for 155mm SP Howitzer of Camp, Lucero, Cotabato (1 Lot)

Bid Ref. No. ENG'G PABAC3 023-23 Approved Budget Contract: PhP48,021,196.92

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Description	Qty	Unit	P/Unit	Amount
HDPE pipe 110mmx6m SDR 17 PE 100	85	pcs		
HDPE pipe 25mmx6m SDR 17 PE 100	15	pcs		
HDPE reducer PE/PE 110mmx25 SDR 17 PE 100	9	pcs		
HDPE tee PE/PE 110mm SDR 17 PE 100	1	рс		
HDPE bend PE/PE 110mmx90° SDR 17 PE 100	2	pcs		
b. Valves & Appurtunances:				
gate valve CI/F/F 100mm	1	рс		
gate valve 25mm	9	pcs		
check valve CI/F/F 100mm	1	рс		
HDPE stud end F/PE 110mm Sdr 17PE 100	1	рс		
flange steel ring 110mm for SDPE	1	рс		
adapter F/M FDPE110mm(w/ grip/tensile)PN10	1	рс		
coupler 110mm EF SDR 11 PE 110	1	рс		
c. Earth Works				
D=0.30m, W=0.20m, L= 626				
volume = 38.00 cum				
excavation	38	cum		
backfill	35	cum		
compaction	35	cum		

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Signature of Company Authorized Represe
Designation (in print)
Date

Water System for 155mm SP Howitzer Facilities Page (33/38)

BILL OF QUANTITIES

Construction of Base Utilities and Facilities for 155mm SP Howitzer of Camp, Lucero, Cotabato (1 Lot)

Bid Ref. No. ENG'G PABAC3 023-23
Approved Budget Contract: PhP48,021,196.92

Approved Budget Contract: PhP48,021	,196.92
Description	Sub-total
I. Deep Well	
a. Deepwell Supply Pipe	
b. Submersible Pump & Motor	
c. Motor Control & Cable Wires	
d. Construction of Pump Room	
e. Well Drilling	
f. Earth Works	
II. Elevated Water Tank (10,000-gals capacity)	
a. Concrete Works	
b. Form & Scaffolds	
c. Metal Works	
d. Plumbing Works	
e. Painting Works	
f. Earth Works	
III. Water Pipe Lines	
a. Water Line	
b. Valves & Appurtunances:	
IV. Georesistivity Test	
Total Direct Cost	
E-VAT	
Overhead	
Miscellaneous	
Contractor's Profit	
Total	
Notes:	
The Financial Bid includes taxes, labor cost and other cost relative to	the construction of the project.

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Signature of Company Authorized Repr	esentative
Designation (in print)	
Date	

Electrical System for 155mm SP Howitzer Facilities Page (34/38)

BILL OF QUANTITIES

Construction of Base Utilities and Facilities for 155mm SP Howitzer of Camp,
Lucero, Cotabato (1 Lot)

Bid Ref. No. ENG'G PABAC3 023-23 Approved Budget Contract: PhP48,021,196.92

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Description	Qty	Unit	P/Unit	Amount
I. Outside Electrical				
a. Transformer Assembly				
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	2	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	6	mts		
hotline clamp #2-#4/0 ACSR	16	pcs		
rubber tape	8	pcs		
electrical tape, big	4	pcs		
compression connector, #1/0-#2/0	16	pcs		

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Electrical System for 155mm SP Howitzer Facilities Page (35/38)

BILL OF QUANTITIES

Construction of Base Utilities and Facilities for 155mm SP Howitzer of Camp, Lucero, Cotabato (1 Lot)

Bid Ref. No. ENG'G PABAC3 023-23

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Description	Qty	Unit	P/Unit	Amount
b. Pole Accessories				
35ft round concrete pole seamless, Class 7A	15	pcs		
machine bolt, 1/2"Ø x 12", HDG forged	20	pcs		
machine bolt, 5/8"Ø x 14", HDG forged	20	pcs		
machine bolt, 1/2"Ø x 6", HDG forged	20	pcs		
machine bolt, 5/8"Ø x 2" HDG	20	pcs		
machine bolt, 5/8"Ø x 6" full threaded HDG	20	pcs		
nut eye conventional 5/8"Ø HDG	20	pcs		
pin, long shank, 1" thread Ø, 5" long, HDG	20	pcs		
pole top pin steel 1" thread Ø, 24" long, HDG	20	pcs		
washer, square curved, 3" x 3" x 5/16" Ø hole	20	pcs		
hole locknut 5/8"Ø	20	pcs		
eye bolt 5/8"Ø x 12", HD	20	pcs		
square washer flat, 2-1/4" x 2-1/4" x 3/16", 11/16"Ø hole	20	pcs		
square washer flat, 4" x 4" x 3/16", 11/16"Ø hole	20	pcs		
tie wire soft aluminum, 5/16"Ø 3-strand	20	mts		
suspension insulator, 15KV, polymer type	8	sets		
clamp loop dead end #2-4/0 ACSR	16	pcs		
clamp loop dead end strain #4/0-#2/0 ACSR	8	pcs		

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Electrical System for 155mm SP Howitzer Facilities Page (36/38)

BILL OF QUANTITIES

Construction of Base Utilities and Facilities for 155mm SP Howitzer of Camp,
Lucero, Cotabato (1 Lot)

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Description	Qty	Unit	P/Unit	Amount
spool insulator ANSI type 55-3, 3"Ø groove, vertical type	12	sets		
spool insulator ANSI 55-3, 3"Ø groove, horizontal type	20	sets		
secondary swinging clevis	16	pcs		
c. Guying Assembly				
galvanized guy wire 7 strands, steel	105	mts		
3/8"Ø guy grip	14	pcs		
5/8"Ø x 12" timble eye bolt	14	pcs		
hole locknut 5/8"Ø	28	pcs		
square washer flat 2-1/4" x 2-1/4" x 3/16	28	pcs		
3-bolt clamp	14	pcs		
guy truss w/ porcelain separator & 2"Ø pvc pipe	7	sets		
d. Anchoring Assembly				
4' x 8"Ø pre-fab anchor concrete	7	pcs		
5/8" x 7" anchor rod timble eye	7	pcs		
4" x 4" x 1/2"Ø square washer	14	pcs		
hole locknut 5/8"Ø	14	pcs		
e. Grounding Assembly				
ground steel rod 5/8"Ø x 10'	4	pcs		
ground rod connector 5/8"Ø	4	pcs		

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Electrical System for 155mm SP Howitzer Facilities Page (37/38)

BILL OF QUANTITIES

Construction of Base Utilities and Facilities for 155mm SP Howitzer of Camp, Lucero, Cotabato (1 Lot)

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Description	Qty	Unit	P/Unit	Amount
split bolt connector #2/0 - #1/0	8	pcs		
wire grounding #4 galvanized steel	60	mtrs		
plate butt grounding	12	pcs		
grounding wire soft annealed iron, 5/16"Ø 3-stranded	60	mtrs		
f. Primary Cables Wires				
conductor Poly-insulated ACSR #1/0, primary line wire	700	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	50	pcs		
secondary rack, 2-spool	12	sets		
g. Street Lights				
Solar Street Light 400W, LED Type, ABS Casing, Pole				
Mounted Integrated Build, w/ Remote, Steel Mounting	15	sets		
Bracket & Complete Accessories				

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Signatur	e of Company Authorized Repre	sentative
	Designation (in print)	
	 Date	

Electrical System for 155mm SP Howitzer Facilities Page (38/38)

BILL OF QUANTITIES

Construction of Base Utilities and Facilities for 155mm SP Howitzer of Camp, Lucero, Cotabato (1 Lot)

Bid Ref. No. ENG'G PABAC3 023-23 Approved Budget Contract: PhP48,021,196.92

Description Sub-total I. Electrical System a. Transformer Assembly b. Pole Accessories c. Guying Assembly d. Anchoring Assembly e. Grounding Assembly f. Primary Cable Wires g. Street Lights **Total Material Cost** Labor E-VAT Overhead Miscellaneous **Contractor's Profit**

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