PROJECT : UPGRADING OF BACK ENTRANCE GATE, ROAD, LIGHT POSTS AND PERIMETER LIGHTING

LOCATION: PNRI Compound, Commonwealth Avenue, Diliman, Quezon City

SUBJECT : DETAILED COST ESTIMATE

Item		2=1/		MATER	IAL COST	LABO	R COST	ESTIMATED	MARK	-UPS IN PE	RCENT	TOTAL	L MARK-UP		TOTAL	TOTAL	UNIT
No.	ITEM/DESCRIPTION	QTY	UNIT	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST	DIRECT COST	CONT.	ОСМ	PROFIT	%	VALUE	VAT	INDI. COST	COST	COST
Α	GENERAL REQUIREMENTS																
1	Mobilization / Demobilization (Workers, Tools & Equipment)	1	lot														
2	Bonds/Insurance	1	lot														
3	Temporary Facilities	1	lot														
4	As-Built Plans	1	lot														
5	Project Billboard	1	lot														
6	Barangay Permit	1	lot														
	Sub-total A																
В	SITE WORKS																
1	Removal of existing Sliding Steel Doors with Accessories,																
	Steel Sign Board, Steel Lamp Post and Steel Plate Ramp	1	lot														
	(Manpower, Tools and Equipment)																
2	Removal of Affected Plants, Trees and Disposal	1	lot														
	(Manpower, Tools and Equipment)																
3	Demolition of Two Reinforced Concrete Ramp and Concrete	1	lot														
	Pavement (Manpower, Tools and Equipment Rental)																
4	Demolition of Affected Reinfoced Concrete Columns	1	lot														
	including Footing if Necessary																
	(Manpower, Tools and Equipment Rental)																
5	Demolition of Reinforced Concrete Culvert below the	1	lot														
	existing Asphalt Road (Tools and Equipment)																
6	Demolition of CHB Perimeter Fence including Reinforced	1	lot														
	Concrete Columns, Beams and Wall Footing																
	(Manpower, Tools and Equipment Rental)																
7	Demolition of Affected Outside and Inside Concrete Sidewalk,	1	lot														
	Curves and Gutter, Concrete Manhole including Lamp Post,																
	Pedestal and Sign Board Pedestal and Concrete																
	Drainage Pipes																
	(Manpower, Tools and Equipment Rental)																
8	Demolition of Affected 6" Thk Reinf. Concrete Road with 2" Thk	150	sq.m														
	Asphalt on Top Surface including Concrete Curves, Gutters,																
	and Drainage Pipes																

12 3" Thick Road Asphalt (Same as Existing Finish) 500 sq.m 90 sq.m				Т	T	 1	T T	1	ı		ı		
Orlordonic Orl	<u> </u>												
Package and Editing G1. Waterline 1 101	9 Demolition of Existing	Back Gate, Guard House and Disposal	1	lot									
Replace trained Pripes and Filtings													
11	10 Relocation of Existing	G.I. Waterline	1	lot									
Finish Crase Line Elevation	(Replace rusted Pipes	s and Fittings)											
12 Neuling and Disposal of Concrete Columns, Beams, CHB Perimeter Sail, Reinf. Sail, Rein	11 Excavation/ Cutting of	f Ground Adobe and Soil to New Road	167	cu.m									
Solt Reint Concrete Columns, Bearns, CHP Parimeter Free, Disnage Pipes and Other Waste Miscrelais Inside Free, Disnage Pipes And Other Waste Pipes Free, Disnage Pipes And Other Waste Pipes Free, Disnage P	Finish Grade Line Ele	vation											
Frence, Drainage Pipes and Other Waste Makerials inside	12 Hauling and Disposal	of Concrete Debris, Excavated Adobe,	1	lot									
The PRIX Compound. Miscolaneous consumble	Soil, Reinf. Concrete	Columns, Beams, CHB Perimeter											
13 Exercision (Adobe) of Wall Fooling and Column Fooling 27 cum	Fence, Drainage Pipe	es and Other Waste Materials inside											
Foundation New Mathrolo Box	the PNRI Compound.	Miscellaneous consumable											
Backfilling and Compaction	13 Excavation (Adobe) of	of Wall Footing and Column Footing	27	cu.m									
REINFORD CONCRETE WORKS, MASONRY WORKS	Foundation New Mar	hhole Box											
C REINFORCED CONCRETE WORKS, MASONRY WORKS 6 7 6 7 6 7	14 Backfilling and Compa	action	27	cu.m									
AND ASPHALTING		Sub-total B											
C.1 Concreting of New Concrete Road Including Curves, Gutter, Pavement and Asphalting Lower Special Concreting of New Concrete Road Including Lower Special Concreting of New Concrete Road Including Restoration of Existing Asphalt Road Lower Special Concrete Road Including Lower Special Concrete Road Including Curves, Gutter Concrete Main Including Restoration of New 4" This. Exterior Lower Special Concrete Main Including Curves, Gutter Concrete Manhole and Including Restoration of New 4" This. Exterior Lower Special Concrete Manhole and Including Curves, Gutter Concrete Manhole and Including Restoration of New 4" This. Exterior Lower Special Concrete Manhole and Including Curves, Gutter Concrete Manhole and	C REINFORCED CONC	CRETE WORKS, MASONRY WORKS											
Curves, Gutter, Pavement and Asphalting 1 12mm/2 x 6.00m Deformed Bar 200 pc 3 G.A 16 G.I wires 20 kg 3 G.A 16 G.I wires 3 G.A 16 G.I wires 4 1/2 x 4" x 8" Ordinary Plywood 6 pc 6 Assorted Cocor cite Nail 6 kg 7 Curvm 8 11 Crash Gravel 8 11 Crash Gravel 9 Road Roller Leveling and Compaction 6 80 sq.m 10 300 Pai Concrete (Ready Mix Concrete) 10 300 Pai Concrete (Ready Mix Concrete) 10 300 Pai Concrete (Ready Mix Concrete) 10 30 sq.m 10 30 pc	AND ASPHALTING												
1 12mm@ x 6.00m Deformed Bar 200 pc	C.1 Concreting of New Co	oncrete Road Including											
2 10mm0 x 6.00m Deformed Bar 150 pc 20 kg 3	Curves, Gutter, Paver	ment and Asphalting											
3 G.A. 16 G.I wires 20 kg Mode	1 12mmØ x 6.00m Defo	ormed Bar	200	рс									
4 1/2" x 4" x 8" Ordinary Plywood 6 pc	2 10mmØ x 6.00m Defo	ormed Bar	150	рс									
5 Assorted Cool Lumber 120 bd.ft. 9<	3 G.A 16 G.I wires		20	kg									
6 Assorted Concrete Nail 6 kg 8 9	4 1/2" x 4" x 8' Ordinary	Plywood	6	рс									
7 Base Coarse Filling Materials 72 cu.m	5 Assorted Coco Lumbe	er	120	bd.ft.									
8 1" Crash Grave 30 pc Image: Control of the Stand <	6 Assorted Concrete Na	ail	6	kg									
9 Road Roller Leveling and Compaction 680 sq.m	7 Base Coarse Filling M	laterials	72	cu.m									
10 3000 Psi Concrete (Ready Mix Concrete) 105 cu.m Image: Concrete (Ready Mix Concrete) Image: Concrete (Ready Mix Concrete) Image: Concreting and Restoration of Existing Asphalt (Same as Existing Finish) 105 cu.m Image: Concreting Asphalt (Same as Existing Finish) 500 sq.m Image: Concreting Asphalt (Same as Existing Finish) 500 sq.m Image: Concreting Asphalt (Same as Existing Finish) 500 sq.m Image: Concreting Asphalt (Same as Existing Finish) 500 sq.m Image: Concreting Asphalt (Same as Existing Finish) 500 sq.m Image: Concreting Asphalt (Same as Existing Finish) 500 sq.m Image: Concreting Asphalt (Same as Existing Finish) 500 sq.m Image: Concreting Asphalt (Same as Existing Finish) 500 sq.m Image: Concreting Asphalt (Same as Existing Finish) 500 sq.m Image: Concreting Asphalt (Same as Existing Finish) 500 sq.m Image: Concreting Asphalt (Same as Existing Finish) 500 sq.m Image: Concreting Asphalt (Same as Existing Finish) 500 sq.m	8 1" Crash Gravel		30	рс									
11 Red Cement (Made in U.S.A.) 8 bag 9 <	9 Road Roller Leveling	and Compaction	680	sq.m									
12 3" Thick Road Asphalt (Same as Existing Finish) 500 sq.m	10 3000 Psi Concrete (R	eady Mix Concrete)	105	cu.m									
Including Restoration of Exisiting Asphalt Road	11 Red Cement (Made in	n U.S.A.)	8	bag									
13 6" CHB (Ordinary) 700 pcs	12 3" Thick Road Asphal	t (Same as Existing Finish)	500	sq.m									
14 Portland Cement 90 bags	Including Restoration	of Exisiting Asphalt Road											
15 White Sand 11 cu.m .	13 6" CHB (Ordinary)		700	pcs									
16 3/4" Thick Crached Gravel 8 cu.m <td< td=""><td>14 Portland Cement</td><td></td><td>90</td><td>bags</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>	14 Portland Cement		90	bags									
C.2 Concreting and Restoration of New 4" Thk. Exterior Sidewalks including Curves, Gutter Concrete Manhole and	15 White Sand		11	cu.m									
Sidewalks including Curves, Gutter Concrete Manhole and	16 3/4" Thick Crached G	ravel	8	cu.m									
	C.2 Concreting and Resto	ration of New 4" Thk. Exterior											
Drainage Pines	Sidewalks including C	Curves, Gutter Concrete Manhole and											
Prominge i iped	Drainage Pipes												

1 10mmØ x 6.00m Deformed Bar	30	рс						
2 G.A 16 G.I Wires	3	рс						
3 3000 Psi Concrete (Site Mix)	2.5	cu.m						
4 Leveling and Compaction	30	sm						
5 1" Crash Gravel	2	cu.m						
6 6" x 8" x 16" CHB	100	рс						
7 White Sand	3	cu.m						
8 Portland Cement	20	bags						
C.3 Provision of CHB Plant Box w/ 1/2"Ø Round Bar Grills								
1 6" x 8" x 16" CHB	90	рс						
2 10mmØ x 6.00m Deformed Bar	5	рс						
3 G.A 16 G.I Wire	1	kg						
4 Portland Cement	10	bag						
5 White Sand	1	cu.m						
6 3/4" Crashed gravel	1	cu.m						
7 Garden Soil	6	cu.m						
8 Bermuda Grass	14	sq.m						
9 1/2"Ø Round Bar Grills (0.30m(H))	15	mts						
C.4 New CHB Perimeter Fence w/ Reinf. Concrete Columns,								
Beams and Footings								
1 16mmØ x 6.00m def.bar	80	рс						
2 10mmØ x 6.00m def.bar	120	рс						
3 20mmØ x 6.00m def.bar	16	рс						
4 6" x 8" x 16" Ord. CHB	700	рс						
5 Portland Cement	105	bag						
6 White Sand	15	cu.m						
7 3/4" Crashed gravel	22	cu.m						1
8 1/2" x 4' x 8' Ord. plywood	12	рс						1
9 Assorted Coco Lumber	400	bd.ft.						1
10 Assoreted Concrete Nail	20	kg						1
11 G.A 16 G.I Wire	30	kg						
C.5 Finish Plastering of New CHB Perimeter Fence Including								
Columns and Beams (Interior and Exterior Walls)								
1 Portland Cement	50	bag						
2 White Sand	8	cu.m						
Sub-total C								
D METAL WORKS								
Fabrication and Installation of New Steel Gate	2	set						
(2.50m x 3.50m) Painted Finish								

2 Fabrication and Installation of New Metal Entrance Door	1	set						
(2.10m x 1.00m) Painted Finish	•	331						
3 Fabrication and Installation of New Angular Grills on Top of	2	set						
New CHB Perimeter Fence	_	501						
(0.60m x 0.80m) Painted Finish								
Sub-total D								
E PAINTING WORKS								
Painting of New Perimeter Fence (Interior and Exterior)	150	sq.m						
2 Painting of Concrete Curves, Gutter and Plant Box	25	sq.m						
Sub-total E								
F GRANITE WALLS & DECO TILES of PERIMETER FENCE								
1 3/4" Thick Crashed Gravel 2' x 2' Solid Granite "Glossy"	140	рс						
Slab (Same as Existing at Main Gate Walls)								
2 2 1/2" Thick Wall Plastering	48	sq.m						
3 1" x 1" G.I Wire screen	50	sq.m						
4 Pioneer Expoxy Adhesive	6	gal						
5 Stainless Steel Wall Bracket	560	рс						
6 Miscellaneous Items	1	lot						
7 Deco tiles (1/4" thk) Glossy	7	sq.m						
8 ABC Tile Adhesive	10	bag						
9 Tile Grout	6	kgs						
Sub-total F								
G PROVISION OF NEW BACK GATE GUARD HOUSE								
G.1 Excavation Works (Adobe)								
1 Excavation of Foundation	6	cu.m						
G.2 Concrete Works								
1 Concrete (3000 Psi) Site Mix	5	cu.m						
G.3 Reinforcing Bars								
1 16mmØ x 6.00m def.bar	45	рс						
2 10mmØ x 6.00m def.bar	45	рс						
3 G.A 16 G.I Wire	6	kg						
G.4 Formworks								
1 1/2" x 4' x 8' Ord. plywood	6	рс						
2 Assorted Coco Lumber	250	bd.ft.						
3 Assorted C.W Nail	10	kg						
4 G.A 16 G.I Wire	10	kg						
G.5 Masonry Works								
1 Portland Cement	40	bag						
2 White Sand	4	cu.m						

3 6" Ordinary CHB	300	рс									
4 10mmØ x 6.00m def.bar	15	рс									
5 G.A 16 G.I Wire	5	kg									
G.6 Structural Works		Ng									
1 12mmØ x 6.00m Plain Round Bar	4	рс									
2 2" x 4" x 1.5mm thk x 20' B.I C-Purlin	9	рс									
3 16mmØ x 6.00m Plain Round Bar	4	•			-						
4 16mmØ Turn Buckle	4	pc									
5 2" x 2" x 20' x 1/4" thk Angular Bar	6	pc									
	-	pc									
6 1 1/2" x 1 1/2" x 20' x 3/16 thk Angular Bar	12	рс									
7 3" x 3" x 20' x 3/16" thk Angular Bar	4	рс									
8 1/2" x 12" x 18" Steel Plate	2	рс									
9 Welding Rod	2	box									
10 Cutting Disc and Grinding Disc	8	рс									
11 Red Oxide Paint	2	gal									
12 Paint Thinner	1	gal									
13 Turco Rust Converter	2	lit									
14 Paint Brush	2	рс									
15 Ceiling Ventillation w/ G.I Screen	2	set									
(0.40 x 1.20m) 3/4" x 3/4" x 1.2mm											
G.7 Carpentry Works											
1 12mm thk x 0.30m x 2.40m Ficem Board	8	рс									
2 4.5mm thk Ficem Board w/	13	sq.m									
1" x 2" Metal Furring and Steel Hangers											
3 Wooden Table w/ Center and Side Drawers	1	set									
(0.60m x 0.75m x 1.65m) w/ 1/4 thk Clear Glass on Top											
4 Wooden Table w/ Center and Side Drawers	1	set									
(0.60m x 0.75m x 1.50m) w/ 1/4 thk Clear Glass on Top											
G.8 Aluminum / Glass Works											
1 Analok Aluminum w/ 1/4" thk Sliding Clear Glass Window	2	set									
(1.20m x 1.50m)											
2 Analok Aluminum w/ 1/4" thk Sliding Clear Glass Window	4	set									
(0.60m x 1.50m)											
3 Analok Aluminum w/ 1/4" thk Clear Glass Sliding Door w/	2	set									
Complete Accessories and Lockset (1.00m x 2.10m)											
G.9 Tinsmithing Works											
Pre-painted Long Span Roofing "Terraces Type" Brown	12	рс									
(1.60m x 1.09m x 0.5mm thk)	1	1 -									
Pre-painted Ridge Cap " Terraces Type" Brown	6	рс			1						
- 1.13 painted Mage Cup Tollaces Type Blown		ρυ	<u> </u>	L	<u> </u>	ļ		 <u> </u>	ļ	<u> </u>	

(2.4dm x 0.60m x 0.5mm thk)	
4 Blind Rivets	
Silicone Sealant Tube	
6 Polythelene Foam (12mm thk x 1.00m) Insulation w/ 1 roll	
Aluminum Foil on one side	
Tour Communication Commu	
Committee Comm	
1 Ceramic Floor Tiles (0.40m x 0.40m) 40 pc	
2 Ceramic Deco Wall Tiles (0.25m x 0.30m) 180 pc	
3 ABC Tile Adhesive 15 bag	
4 ABC Tile Grout 6 kgs	
5 Concrete Tapping 6 sm	
6 Miscellaneous Items 1 lot	
G.11 Painting Works 1 Latex Gloss Paint (3 coats) with Surface Preparation 90 sqm	
1 Latex Gloss Paint (3 coats) with Surface Preparation 90 sqm	
(Interior and Exterior) Walls and Ceiling 2 Wooden Cabinets (Semi-Duco Finish) 2 sets Sub-total G H ELECTRICAL WORKS	
2 Wooden Cabinets (Semi-Duco Finish) 2 sets <td></td>	
Sub-total G	
H ELECTRICAL WORKS	
H.1 New Guard House	
1 Lighitng fixture, weatherproof with LED tube, 12 watts, 60 cm 4 sets	
length, 230 volts	
2 Lighitng fixture, weatherproof with LED tube, 18 watts, 120 cm 2 sets	
length, 230 volts	
3 Switch, 2-gang 5 set	
4 Switch, 3-gang 1 set	
5 Convenience outlet, tandem-type, 230 volts 3 set	
6 Telephone outlet 1 set	
7 Utility box, ga 16 10 pc	
8 Junction box, ga 16 6 pc	
9 3.5 mm sq THHN/THWN wire 1 box	
10 PVC, 15 mm dia (1/2") 15 length	
11 PVC adafter and locknut with bushing, 15 mm dia (1/2") 30 length	
12 Panelboard; Main: 60 AT, 240 V, 3P 1 assy	
Branches: 6-15 AT, 2P	
3-20 AT, 2P	
commercial-type, bolt-on, wiith ground busbar,	
metallica pushlock, semi-flushed mounted	

1	[40 Al			<u> </u>		1			1	
14 Securion of adeling pathwins having gate relating 1	13 Aluminun barrier gate (same as existing), 240 volts, 3 meters	2	assy							
Selectical wing 1										
15 Resolation of existing pullbowes, homerarums, conduits, feeders 1		1	lot							
Force estating Guard House to be demonshabled in every Guard Force										
Manage M		1	lot							
H.2 Additional Lighting Fixtures at New Clark (6 seet), Electron	from existing Guard House to be demolished to new Guard									
Beam Gate (2 sets), Front Cate (defective 2 sets) and Street										
Lighting (12 sets)										
Lighting finture (same as existing), post-top mounted with 12 sets	Beam Gate (2 sets), Front Gate (defective 2 sets) and Street									
1 2 wat 200 volt LED bulls, globe-type	Lighting (12 sets)									
2	1 Lighting fixture (same as existing), post-top mounted with	12	sets							
Concrete pedestal with 12 watt 230 volt LED butb, Concrete pedestal with 12 watt 230 volts, white (to replace all post-top) 80 Dr	12 watt 230 volt LED bulb, globe-type									
3 Bulb, LED, 12 waits, 230 volts, while (to replace all post-top) 80 pc	2 Lamp with steel post (same as existing in EB Facility) including	12	sets							
4 Switch-2 gang	concrete pedestal with 12 watt 230 volt LED bulb,									
S Utility box, ga 16 1 pc	3 Bulb, LED, 12 watts, 230 volts, white (to replace all post-top)	80	рс							
6 Junction box, ga 16	4 Switch-2 gang	1	set							
7 3.5 mm sq THHNTHWN wire	5 Utility box, ga 16	1	рс							
8 PVC, 20 mm dia (3/4")	6 Junction box, ga 16	8	рс							
9 PVC adafter and locknut with bushing, 20 mm dia (20") 30 length 10 Excavation and concrete encasement of PVC conduits, 90 m 90	7 3.5 mm sq THHN/THWN wire	4	box							
10 Excavation and concrete encasement of PVC conduits, 90 m	8 PVC, 20 mm dia (3/4")	45	length							
1	9 PVC adafter and locknut with bushing, 20 mm dia (20")	30	length							
H.3 Repair of Existing Perimeter Lighting (Front and Back Fences) - Post-top lighting Fixtures Fences Fost-top lighting Fixtures Fixture	10 Excavation and concrete encasement of PVC conduits,	90	m							
Fences Post-top lighting Fixtures	2 in thick									
Chipping and Removal Works Back Fence Removal of embedded junction box on top of concrete posts of the including removal and reinstallation of lighting fixture Removal of embedded junction box cover at concrete wall of the including removal and reinstallation of lighting fixture Removal of embedded junction box cover at concrete wall of the including removal and reinstallation of lighting fixture Removal of all horizontal wires from junction box to next of the including removal and reinstallation of lighting fixture Removal of all horizontal wires from junction box to next of the including removal and reinstallation of lighting fixture Removal of embedded junction box cover at concrete wall of the including removal and reinstallation of lighting fixture Removal of embedded junction box cover at concrete wall of the including removal and reinstallation of lighting fixture Removal of embedded junction box cover at concrete wall of the including removal and reinstallation of lighting fixture Removal of embedded junction box cover at concrete wall of the including removal and reinstallation of lighting fixture Removal of embedded junction box cover at concrete wall of the including removal and reinstallation of lighting fixture Removal of embedded junction box cover at concrete wall of the including removal and reinstallation of lighting fixture Removal of embedded junction box cover at concrete wall of the including removal and reinstallation of lighting fixture Removal of embedded junction box cover at concrete wall of the including removal and reinstallation of lighting fixture Removal of embedded junction box cover at concrete wall of the including removal and reinstallation of lighting fixture Removal of embedded junction box cover at concrete wall of the including removal and reinstallation of lighting fixture Removal of embedded junction box cover at concrete wall of the including removal and reinstallation of lighting removal and reinstallation of lighting removal and reinstallation of ligh	H.3 Repair of Existing Perimeter Lighting (Front and Back									
Back Fence	Fences) - Post-top lighting Fixtures									
Removal of embedded junction box on top of concrete posts 52 pc	Chipping and Removal Works									
including removal and reinstallation of lighting fixture Removal of embedded junction box cover at concrete wall 52 pc	Back Fence									
Removal of embedded junction box cover at concrete wall 52 pc	1 Removal of embedded junction box on top of concrete posts	52	рс							
Removal of all horizontal wires from junction box to next 350 m	including removal and reinstallation of lighting fixture									
junction box	2 Removal of embedded junction box cover at concrete wall	52	рс							
4 Chipping for new circuit homeruns and new switch locations 40 m	3 Removal of all horizontal wires from junction box to next	350	m							
Front Fence Image: Control of Exercising Homerun from Square box to next square in the Exercising Homerun from Square box to next square box to	junction box									
5 Removal of existing homerun from square box to next square 1 lot <t< td=""><td>4 Chippinng for new circuit homeruns and new switch locations</td><td>40</td><td>m</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>	4 Chippinng for new circuit homeruns and new switch locations	40	m							
box	Front Fence									
H.4 Restorations Works	5 Removal of existing homerun from square box to next square	1	lot							
Back Fence	box									
	H.4 Restorations Works									
1 Concrete finish of chipped concrete 52 pc	Back Fence									
	1 Concrete finish of chipped concrete	52	рс							

2 Junction box, ga 16 (to be installed 2 cm high from top of	52	рс							
concrete post surface)									
3 PVC, 20 mm dia (3/4") (extension of existing PVC pipe)	3	length							
4 Stainless steel cover for junction boxes on wall, ga 18,	52	рс							
(20 cm x 20 cm)									
5 Tox and screw, No. 6	1	lot							
6 Drill bits	1	lot							
7 Sealant	3	bot							
8 Painting and retouching works	1	lot							
H.5 Front Fence									
1 Pullbox, NEMA 3R (20 cm x 20 cm x 8 cm) including	2	assy							
retouching works									
H.6 Rewiring Works (Back and Front Fences)									
1 5.5 mm sq THHN/THWN wire	4	box							
2 Electrical tape	5	roll							
3 GI pull wire	1	kg							
Sub-total H									
TOTAL									

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