

## EPRU-001-2016

UN Mission Rate - July 2016

47.014

## ANNEX B\_BILL OF QUANTITY (BOQ) FORM

DATE: 22 July 2016

ITEM	DESCRIPTION	DETAIL (Dwg No.)	QTY	UNIT	U/COST	AMOUNT	SUB-TOTAL (PHP)	SUB-TOTAL (USD)
<b>1.000</b>	<b>GENERAL REQUIREMENTS</b>							
1.001	Permits and Government Fees		1.00	lot				
1.002	Contractor site office, temporary warehouse, temporary toilets, etc. <i>including designated space for IOM Field Engineer to work on site</i>		1.00	lot				
1.003	Communication and e-mail facilities		1.00	lot				
1.004	Bonds and Insurances		1.00	lot				
1.005	Materials tests and certification, etc.		1.00	lot				
1.006	As Built drawings, commissioning and testing, etc.		1.00	lot				
1.007	Others (Pls specify)							
	SUB-TOTAL							
<b>2.000</b>	<b>SITE WORKS</b>							
2.001	General site preparation, including clearing (grubbing) and levelling		1,225.00	sq.m				
2.002	Localised site grading: GROUND SURFACES WITHIN 1.5m. OF BUILDING GRADED TO MINIMUM 1:30 FALL AWAY TO PREVENT PONDING		150.00	sq.m				
2.003	Structural excavation		850.00	cu.m				
2.004	Backfill / compaction		615.00	cu.m				
2.005	Disposal of excess soil		n/a	cu.m				
2.006	Fill /compaction		309.00	cu.m				
2.007	Gravel Bed		101.00	cu.m				
2.008	Batter Board and layout		1.00	lot				
2.009	Others (Pls specify)							
	SUB-TOTAL							
<b>3.000</b>	<b>CONCRETE WORKS</b>							
3.100	CONCRETE							
3.101	Column footings/combined footings		246.60	cu.m				
3.102	Footing tie beams		10.50	cu.m				
3.103	Wall footing		10.50	cu.m				
3.104	Columns		42.90	cu.m				
3.105	Ramp beams		14.60	cu.m				
3.106	Second floor beams		23.60	cu.m				
3.107	Roof beams		23.30	cu.m				
3.108	Suspended slab		73.80	cu.m				
3.109	Stair and stair beams		5.40	cu.m				
3.110	Slab on fill/grade, including isolated slab @ Genset		47.20	cu.m				
3.111	Stiffener beams (lintels) and columns		1.00	lot				
3.112	Others (Pls specify)							
3.200	REBARS							
3.201	Column footings/combined footings		14,050.00	kgs				
3.202	Footing tie beams		1,925.00	kgs				
3.203	Wall footing		511.24	kgs				
3.204	Columns		16,977.00	kgs				
3.205	Ramp beams		2,150.00	kgs				
3.206	Second floor beams		6,084.00	kgs				
3.207	Roof beams		3,161.00	kgs				
3.208	Suspended slab		6,848.00	kgs				
3.209	Stair and stair beams		784.00	kgs				
3.210	Slab on fill/grade, including isolated slab @ Genset		5,235.94	kgs				
3.211	Stiffener beams (lintels) and columns		1.00	lot				
3.212	Others (Pls specify)							
3.300	FORMWORKS							
3.301	Column footings/combined footings		153.00	sm				
3.302	Footing tie beams		15.00	sm				
3.303	Wall footing		n/a	sm				
3.304	Columns		506.00	sm				
3.305	Ramp beams		155.00	sm				
3.306	Second floor beams		270.00	sm				
3.307	Roof beams		224.00	sm				
3.308	Suspended slab		676.00	sm				
3.309	Stair and stair beams		35.00	sm				
3.310	Slab on fill/grade, including isolated slab @ Genset		n/a	sm				
3.311	Stiffener beams (lintels) and columns		1.00	lot				
3.312	Others (Pls specify)							
	SUB-TOTAL							
<b>4.000</b>	<b>MASONRY WORKS</b>							
4.100	Wall Type W1	A001	622.80	sm				
4.200	Wall Type W2 & Wall Type W3	A001	545.00	sm				
4.300	Concrete louvers @ Genset Room		14.30	sm				
4.400	Decorative concrete block @ CR (W1-04 & W1-05)		5.20	sm				
4.500	Others (Pls specify)							
	SUB-TOTAL							

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<b>5.000</b>	<b>METALS</b>						
5.100	STRUCTURAL STEEL ROOF FRAMING (50kg/sm), incl paint primer only						
5.101	Trusses		6,796.00	kgs			
5.102	Purlins		2,190.00	kgs			
5.103	Plates, bolts,		436.00	kgs			
5.104	Sag rods		102.00	kgs			
5.200	ROOF SHEETING (RF-01), incl fastners, accessories, shop dwgs, samples, etc.						
5.201	Galvanised Steel Roof Sheeting, pre-painted factory finish, inverted box rib (IBR) or similar equivalent to be approved by architect, min. 0.5mm thickness, ridge roll and flashing in matching finish		360.00	sm			
5.202	Woven Wire Mesh (min. 3mm gauge / max. 2" weave), tied down to purlins		360.00	sm			
5.300	BALUSTRADE / HANDRAIL, incl anchors, fixings, painting, shop dwgs, samples, etc.						
5.301	Stair balustrade and handrail	A452	6.50	lm			
5.302	Dwarf wall handrail	A452	9.00	lm			
5.303	Balcony / Ramp balustrade and handrail	A452	42.00	lm			
5.304	Continuous handrail to inside face of facade wall	A452	33.00	lm			
5.400	ROOF HATCH, incl. hardware, accessories, painting, shop drawings, etc						
	Galvanised Steel Roof Hatch with security lock, 600mm x 600mm		1.00	lot			
5.500	ROOF LADDER, incl anchors, fixings, shop dwgs, samples, etc.						
	Stainless Steel Roof Ladder		1.00	lot			
5.600	Others (Pls specify)						
	SUB-TOTAL						
<b>6.000</b>	<b>THERMAL &amp; MOISTURE PROTECTION</b>						
6.100	Roof foam insulation 20mm thk with aluminum foil of 1 side	A401	360.00	sm			
6.200	Waterproofing - liquid epoxy finish to roof slab / gutter	A401	148.00	sm			
	SUB-TOTAL						
<b>7.000</b>	<b>DOORS AND WINDOWS</b>						
7.100	DOORS incl hardware / furniture, painting, samples, etc.						
7.101	D1-01 Sliding Door, 2.10 x 2.60	A801	1.00	set			
7.102	D1-02, 0.97 x 2.60	A801	1.00	set			
7.103	D1-03, 1.8 (2x0.90) x 2.60	A801	1.00	set			
7.104	D1-04 , 0.97 x 2.60	A801	1.00	set			
7.105	D1-05, 0.97 x 1.6	A801	1.00	set			
7.106	D1-06 & D1-07, 0.97 x 2.60	A801	2.00	sets			
7.107	D1-08 & D1-14 PWD toilet cubicle flush door, 0.97 x 1.80	A801	2.00	sets			
7.108	D1-09 to D1-13 standard toilet cubicle flush door, 0.72 x 1.80	A801	5.00	sets			
7.109	D2-01 Sliding Door, 2.10 x 2.90	A801	1.00	set			
7.200	WINDOWS incl hardware, painting, shop dwgs, samples, etc.						
7.201	W1-01, 4.00 x 2.60	A802	1.00	set			
7.202	W1-02, 4.00 x 1.00	A802	1.00	set			
7.203	W1-03, 4.00 x 1.60	A802	1.00	set			
7.204	W1-04, 2.40 x 1.00 - decorative concrete block	A802	2.40	sm	Included in MASONRY		
7.205	W1-05, 2.40 x 1.00 - decorative concrete block	A802	2.40	sm	Included in MASONRY		
7.206	Concrete louvers to Genset Room	A802	8.85	sm	Included in MASONRY		
7.207	W2-01 to 07, 4.00 x 2.90	A802	7.00	sets			
7.300	STEEL ROLLER SHUTTER (fitted to Windows), incl hardware, shop dwgs, samples, etc.						
7.301	W1-01, 4.00 x 2.60	A802	1.00	set			
7.302	W1-03, 4.00 x 1.60	A802	1.00	set			
7.303	W2-01 to W2-07, 4.00 x 2.90	A802	7.00	set			
	SUB-TOTAL						
<b>8.000</b>	<b>FINISHES</b>						
8.100	FLOOR FINISH						
8.101	FF-01, broom finish to concrete including non-skid grooves to ramp	A001	390.00	sm			
8.102	FF-02, smooth finish to concrete including clear seal	A001	400.00	sm			
8.103	FF-03, ceramic tiles including levelling screed, as/if required	A001	55.00	sm			
8.200	WALL FINISH						
8.201	WF-06 Ceramic wall tiles @ toilet	A001	220.00	sm			
8.202	Plastering to Walls / Columns		3,600.00	sm			
8.203	Rubbed concrete beams, and walls / columns below ramp; finish with Boysen Konstrukt (acrylic skimcoat) and clear seal		363.00	sm			
8.300	CEILING FINISH						
8.301	Rubbed concrete beams and under slab (skim coat)		1,424.00	sm			

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8.400	PAINTING							
8.401	Exterior paint on plastered walls		1,180.00	sm				
8.402	Interior paint on plastered walls		2,420.00	sm				
8.403	Interior paint on ceiling		1,424.00	sm				
8.404	Exterior paint on decorative concrete blocks		5.20	sm				
8.405	Interior paint on decorative concrete blocks		5.20	sm				
8.406	Exterior paint on concrete louvers (outside face only)		14.30	sm				
8.407	Skirting paint finish (H200mm)		140.00	sm				
8.500	OTHER (Pls specify)							
	SUB-TOTAL							
<b>9.000</b>	<b>SPECIALTIES</b>							
9.101	Wash Trough @ CR / ceramic tile finish	A461	12.00	lm				
9.102	Wet Area Counter @ exterior / ceramic tile finish	A461	6.00	lm				
9.103	PWD Grab Rail / Grab Bar (GR)	A850	5.80	lm				
9.104	Concrete Seat @ Main Entry	A701	2.45	lm				
9.105	Notice Board @ Main Entry / Stair	A701	1.00	set				
9.106	Tactile Signage @ CR door / PWD cubicle door	A850	4.00	set				
9.107	Mirror (MR), H1.00 x W1.8m @ CR, incl stainless steel frame	A850	2.00	set				
9.108	Robe Hook (RH) @ toilet cubicle door	A850	7.00	set				
9.109	Toilet Tissue Holder (TTH) @ toilet cubicle	A850	7.00	set				
9.110	Stair Nosing - PVC (black)	A450	138.00	lm				
9.111	Others (Pls Specify)							
	SUB-TOTAL							
<b>10.000</b>	<b>PLUMBING WORKS</b>							
10.100	SEWER AND DRAINAGE SYSTEM							
	Installation of sanitary and vent and pipes including fittings, adhesives, etc.							
10.101	PVC Pipe 100mm (nominal int. pipe Ø)		70.00	lm				
10.102	PVC Pipe 50mm (nominal int. pipe Ø)		36.00	lm				
10.200	SEWER EFFLUENT LEACHING STRIP							
	Installation of perforated pipes including fittings, adhesives, etc.							
10.201	Perforated PVC Pipe 100mmØ in gravel filled trench		40.00	lm				
10.300	STORM DRAINAGE SYSTEM							
	Installation of PVC downspouts pipes including fittings, adhesives, etc.							
10.301	PVC Pipe 100mm (nominal int. pipe Ø)		42.00	lm				
10.302	PVC Pipe 75mm (nominal int. pipe Ø)		12.00	lm				
10.303	PVC Pipe 50mm (nominal int. pipe Ø)		5.00	lm				
10.400	Installation of concrete drainage pipes including mortar filler, etc.							
10.401	Concrete pipes 300mØ		65.00	lm				
10.402	Concrete pipes 400mØ		60.00	lm				
10.500	Installation of drains and catch basins							
10.501	Stainless Steel Deck Drain (Dome Type)	P05	4.00	pcs				
10.502	Stainless Steel Trench Drain @ Ramp	A350	1.00	pcs				
10.503	Catch basins 400 x 400 (opening)		5.00	pcs				
10.504	Catch basins 600 x 600 (opening)		4.00	pc				
10.505	Oil Spill catch basin 600 x 600 (opening)	A450	1.00	pcs				
	WATER SYSTEM							
10.600	Installation of pipes including fittings, adhesives, etc. (nominal int. pipe Ø)							
10.601	PVC Pipe 50mm(nominal int. pipe Ø) - for buried pipes		30.00	lm				
10.602	GI pipe 50mm (nominal int. pipe Ø), Sch. 40 - for pipes exposed to weather or mechanical damage		12.00	lm				
10.603	PPR pipe 32mm(nominal int. pipe Ø), PN 20 - for embedded pipes		24.00	lm				
10.604	PPR pipe 25mm (nominal int. pipe Ø), PN 20 - for embedded pipes		36.00	lm				
10.605	PPR pipe 20mm (nominal int. pipe Ø), PN 20 - for embedded pipes		18.00	lm				
10.606	PPR pipe 12mm (nominal int. pipe Ø), PN 20 - for embedded pipes		12.00	lm				
10.700	Installation of valves							
10.701	Gate valve 50mmØ (nominal int. opening)		2.00	pcs				
10.702	Gate valve 40mmØ		2.00	pcs				
10.703	Gate valve 32mmØ		4.00	pcs				
10.704	Gate valve 25mmØ		3.00	pcs				
10.705	Gate valve 20mmØ		2.00	pcs				
10.706	Gate valve 12mmØ		7.00	pcs				
10.707	Check valve 50mmØ		1.00	pcs				
10.708	Check valve 40mmØ		2.00	pcs				
	FIXTURES							
10.800	Installation of plumbing fixtures including fittings, etc.							
10.801	WC-01, water closet including toilet seat, flush valves, fittings, etc.	A850	5.00	sets				
10.802	WC-02, water closet including toilet seat, flush valves, fittings, etc.	A850	2.00	sets				
10.803	UR, urinal including flush valves, fittings, etc.	A850	1.00	set				
10.804	TA-01, Tap Assembly @ Wash Trough	A850	12.00	pcs				
10.805	TA-02, Tap Assembly @ Wet Area Counter	A850	3.00	pcs				
10.806	TA-03: Outdoor Tap (wall-mounted)	A850	1.00	pcs				
10.807	Floor Waste (FW) @ CR / toilet cubicle	A850	9.00	pcs				
10.808	Sink Drain (SD) @ Wash Trough / Wet Area Counter	A850	3.00	pcs				
10.809	Shower Assembly (SWR) incl rail, head, mixer, fittings, etc. (single)	A850	2.00	sets				
	SUB-TOTAL							

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<b>11.000</b>	<b>ELECTRICAL WORKS</b>							
11.100	<b>MAINS</b>							
11.101	Concrete Pedestal		1.00	assy.				
11.102	Ground Rods		3.00	assy.				
11.103	8mm <sup>2</sup> BARE Cu		30.00	lm				
11.104	40mm dia PVC pipe		34.00	lm				
11.200	<b>POWER SYSTEM</b>							
11.210	Panel board		1.00	set				
11.220	AVR 10kW, 230V, 1Ø		1.00	set				
11.230	CONDUITS including fittings, pullboxes, supports, etc., (L&M) in place : 20 mmØ PVC		811.00	lm				
11.230	WIRES and CABLES including connectors, insulation tape, termination, (L&M) in place:							
11.231	2.0mm <sup>2</sup>		2,733.00	lm				
11.232	3.5mm <sup>2</sup>		600.00	lm				
11.233	8mm <sup>2</sup>		20.00	lm				
11.234	22mm <sup>2</sup>		80.00	lm				
11.240	<b>DEVICES</b>							
11.241	Single c.o., parallel slots, grounding type, 10A, 250V		13.00	pc/s				
11.242	Single c.o., parallel grounding type, 10A, 250V weather proof		7.00	pc/s				
11.243	Duplex c.o., parallel grounding type, 10A, 250V		35.00	pc/s				
11.244	Duplex c.o., parallel grounding type, 10A, 250V weather proof		7.00	pc/s				
11.250	<b>SWITCHES</b>							
11.251	1-gang, single pole, toggle switch, 15A, 300V		11.00	pc/s				
11.252	2-gang, single pole, toggle switch, 15A, 300V		4.00	pc/s				
11.253	500x400x200 mm Metal Enclosure for switch 400x300x200 mm Metal Enclosure for switch		1.00 1.00	pc/s pc/s				
11.300	<b>LIGHTING SYSTEM, incl supports, fittings, accessories, samples, etc.</b>							
11.301	Surface Mounted Lighting Fixture with 1 x 16W LED lamps		18.00	set/s				
11.302	Surface Mounted Lighting Fixture with 2 x 16W LED lamps		8.00	set/s				
11.303	Surface Mounted Lighting Fixture with 1 x 16W LED lamps w/proof		23.00	set/s				
11.304	LED Floodlight 50W IP65		1.00	set/s				
11.305	Emergency Lighting fixture		11.00	set/s				
11.306	Exit Light		4.00	set/s				
11.400	<b>FIRE DETECTION AND ALARM SYSTEM</b>							
11.401	Smoke Detectors (Battery Operated)		10.00	set/s				
11.500	<b>LIGHTNING PROTECTION SYSTEM</b>							
11.501	Air terminal with mast		1.00	assy.				
11.502	Stroke counter with box		1.00	assy.				
11.503	Ground Well w/ ground rods		3.00	assy.				
11.504	60mm <sup>2</sup> Bare Cu		24.00	lm				
11.505	40mm dia PVC pipe		24.00	lm				
11.600	<b>CEILING FAN, incl supports, fittings, accessories, samples, etc.</b>							
11.601	Surface Mounted Ceiling Fan	A850	18.00	sets				
	<b>SUB-TOTAL</b>							
<b>12.00</b>	<b>OTHERS</b>							
12.001	Submersible tranfer pump including controls, float switches and accessories, testing and commssioning, etc.		2.00	units				
12.002	Stainless steel water tank, horizontal, mounted on concrete gutter, "Best Tank or equivalent" including lifting and mounting, and additional ties and anchorages with reinforced fixing to ensure tank remains secure is sustained winds up to 320km per hour		1.00	units				
12.003	Generator set (10kW): supply, delivery, installation (incl exhaust), testing and commissioning, etc.		1.00	lot				
12.004	Reinforced Concrete Septic tank including associated excavation works and concrete manhole covers with steel handle		1.00	lot				
12.005	Reinforced Concrete Cistern Tank including gate/check valves and plumbing, float switch and accessories, associated excavation works, stainless steel ladders and stainless steel manhole covers with s/s handle and security lock, testing and commissioning, etc.		1.00	lot				
12.006	Fire Extinguishers, incl wall-mounted hook		8.00	lot				
12.007	Others (Pls Specify)							
	<b>SUB-TOTAL</b>							
<b>DESIGN OPTIONS</b>								
A	<b>WATER FILTRATION SYSTEM</b>							
	Stainless Steel Rainwater Filter Tevice 450 x 450 x 110	P05	1.00	unit				
	PVC Pipe 100mm (nominal int. pipe Ø)	P04	33.00	lm				
	PVC Pipe 50mm (nominal int. pipe Ø)	P04	3.00	lm				
	Gutter Drain (75mm Ø pipe)	P04	8.00	pcs				
	Food-grade epoxy lining to Cistern Tank		1.00	lot				
	Others (Pls Specify)							
	<b>SUB-TOTAL</b>							

**TOTAL**