

BILL OF QUANTITIES
REHABILITATION OF HRDC BUILDING PHASE 5
 LEYTE NORMAL UNIVERSITY
 TACLOBAN CITY

ITEM NO.	DESCRIPTION	QTY.	UNIT	UNIT COST			AMOUNT
				MAT'L/EQ.	LABOR	TOTAL	
A	GENERAL REQUIREMENTS						
1	GENERAL REQUIREMENTS						
1.1	Permits and Licenses	1.00	lot				
1.2	Provision for Scaffoldings for all Interior Works	1.00	lot				
1.3	As-Built Plans	1.00	lot				
1.4	Testing of Materials	1.00	lot				
1.5	Clearing, Hauling and Disposal of Wastes/Garbage and Debris	1.00	lot				
1.6	General Cleaning (including vacuum cleaning of all interior floors and walls)	1.00	lot				
1.7	Water and Power Utilization	1.00	lot				
1.8	Handling of Materials	1.00	lot				
	Sub-Total A-1						
	CP (10%)						
	Overhead, Contingencies and Miscellaneous (3%)						
	VAT [7% x (Sub-Total + CP)]						
	Total Amount for GENERAL REQUIREMENTS						
2	MOBILIZATION / DEMOBILIZATION						
2.1	Mobilization/Demobilization	1.00	lot				
	CP (10%)						
	Overhead, Contingencies and Miscellaneous (3%)						
	VAT [7% x (Sub-Total + CP)]						
	Total Amount for MOBILIZATION/DEMOBILIZATION						
B	ARCHITECTURAL WORKS						
3	Pump Room						
3.1	150mm thk CHB						
3.1.1	CHB 6" with 10mm Ø Reinforcement	56.00	sq.m.				
3.2	Thermal Protection						
3.2.1	Roofing Insulation	31.27	sq.m.				
3.3	Roofing						
3.3.1	Ga #22 Pre-formed, Pre-painted Rib Type G.I. Long Span	31.27	sq.m.				
3.4	Doors including Jambs & Finish Hardwares						
3.4.1	D- Steel Louver Door 2.0m x 2.1m, Double Leaf	1.00	set				
3.5	Floor Finishes						
3.5.1	FF8- Solid Epoxy Paint Finish (skimcoat+epoxy sealer/putty+2 coats+Urethane)	50.20	sq.m				
3.6	Wall Finishes						
3.6.1	WF1- Plain Cement Plaster in Semi-gloss Paint Finish	112.00	sq.m.				
3.7	Ceilings						
3.7.1	CF1- 4.5mm Thk. Cement Fiber Board in Flat Paint Finish on Standard Double Metal Furring spaced @ 600mm x 600mm o.c. B.W.	25.10	sq.m.				
5	Theater Hall						
5.1	Steel Catwalk						
5.1.1	Provision of Steel Catwalk covering Theater Hall, Main Stage and Façade in Epoxy Paint Finish	710.00	l.m.				
5.2	Doors including Jambs & Finish Hardwares						
5.2.1	D3- (1.72 x 2.1m) Hard Wood Double Leaf Swing Door in Elegant Finish w/ Automatic Door Closer and HQ Stainless Lever Type Lockset	4.00	sets				
5.3	Floor Finishes						
5.3.1	FF6- Theater Carpet	1,492.00	sq.m.				
5.4	Wall Finishes						
5.4.1	Acoustic Treatment/Sound Proofing/Noise Reduction w/ Polyester Fiber Acoustic Panel (by quotation)	1.00	lot				
5.5	Repair of Ceiling						
5.5.1	Removal of Existing Ceiling Board and Metal Frame	1,566.00	sq.m.				
5.5.2	CF*- 6mm Thk. Acoustic Ceiling Board on Standard Double Metal Furring spaced @ 600mm x 600mm o.c. B.W. (Re-installation of Ceiling)	1,566.00	sq.m.				
5.6	Paint Coatings (interiors not covered by wall and ceiling finishes)						
5.6.1	WF1- Skim Coat/Paint Finish in Semi-Gloss	822.00	sq.m.				
5.7	Chairs						
5.7.1	Theater Chairs w/ Steel Leg Frame, Solid Wood Armrest holder, molded foam metal acoustic panel including tablet, logo and led backlit chrome numbers	1,300.00	pcs				
6	Main Stage and Orchestra Pit						
6.1	Floor Preparation						
6.1.1	Removal and Disposal of Unusable Wood, Plywood and Concrete Materials (including Orchestra Pit)	580.30	sq.m				
6.1.2	Repair of Floor Joists at Main Stage	1.00	lot				
6.1.3	Phenolic Plywood (on the Main Stage)	450.00	sq.m				
6.1.4	Phenolic Plywood on 2" x 2" Angle Bars sp. 600mm O.C. BW (in place of Orchestra Pit)	135.00	sq.m				
6.2	Floor Finishes						
6.2.1	New Wood Parquet Flooring in Gloss Finish	450.00	sq.m				
6.3	Wall Finishes						
6.3.1	Skim Coat/ Flat Paint Finish	137.00	sq.m				
6.4	Consumables						
6.4.1	All other mounting materials and consumables necessary to complete this Work	1.00	lot				
7	Comfort Rooms						
7.1	Waterproofing						
7.1.1	High Performance Elastomeric Waterproofing	137.00	sq.m.				
7.2	Doors including Jambs & Hardwares						
7.2.1	D5- (1.0 x 2.1m) Hard Wood Flush Door in Elegant Finish w/ Louver Insert and HQ Stainless Lever Type Lockset	4.00	sets				
7.3	Floor Finishes						

ITEM NO.	DESCRIPTION	QTY.	UNIT	UNIT COST			AMOUNT
				MAT'L/EQ.	LABOR	TOTAL	
7.3.1	FF2- 60cm x 60cm Semi Gloss Porcelain Tiles	130.50	sq.m				
7.4	Wall Finishes						
7.4.1	WF2- 30cm x 60cm Gloss Porcelain Tiles	266.40	sq.m				
7.4.2	Drywall Partition using 4.5mm Cement Fiber Board on Ga. 24 Channel Studs, Tracks spaced @ 600mm x 600mm o.c. BW in Semi-Gloss Paint Finish	33.00	sq.m				

ITEM NO.	DESCRIPTION	QTY.	UNIT	UNIT COST			AMOUNT
				MAT'L/EQ.	LABOR	TOTAL	
7.5	Countertop						
7.5.1	Italian Granite Countertop, Pure White	23.49	sq.m				
7.6	Specialties						
7.6.1	Toilet Partition 3/4" including HQ Stainless Mounting Accessories, Stainless Locksets	23.00	sets				
7.6.2	Urinal Screen 3/4" including Top Board and HQ Stainless Mounting Accessories	13.00	sets				
8	Fire Exit (Steel)						
8.2	Doors including Jambs & Hardwares						
8.2.1	D10- (0.8m x 2.1m) 50mm Thk. Metal Door in Paint Finish w/ Metal Jamb in Paint Finish; Panic Lockset Hardware	4.00	sets				
9	PWD Comfort Rooms						
9.1	Doors including Jambs & Hardwares						
9.1.1	D6- (1.0m x 2.1m) Hard Wood Flush Door in Elegant Waterproofed Finish w/ Kick Plate complete w/ Stainless Steel Lockset	2.00	sets				
9.2	Wall Finishes						
9.2.1	WF2- 30cm x 60cm Gloss Porcelain Tiles	18.00	sq.m				
9.3	Floor Finishes						
9.3.1	FF2- 60cm x 60cm Semi Gloss Porcelain Tiles	7.00	sq.m				
9.4	Specialties						
9.4.1	PWD Grab Bar, Stainless Steel	2.00	sets				
12	Fire Exit						
12.1	Doors including Jambs & Hardwares						
12.1.1	D10- (0.8m x 2.1m) 50mm Thk. Metal Door in Paint Finish w/ Metal Jamb in Paint Finish; Lockset- Panic Hardware	2.00	sets				
12.2	Wall Finishes						
12.2.1	WF1- Paint Finish in Semi-Gloss	74.00	sq.m.				
12.3	Floor Finishes						
12.3.1	FF8- Solid Epoxy Paint Finish w/ Urethane Top Coat	101.00	sq.m				
12.4	Minor Repairs						
12.4.1	Repair of Stairway in Solid Epoxy Paint Finish w/ Urethane Top Coat	2.00	lot				
12.4.2	Repair of Stair Railings in Epoxy Paint Finish	2.00	lot				
16	PWD Ramp						
16.1	Warning Tactile Rubber Blocks, Paint Finishes, Signages and Slip Resistant Materials (Check Standards for PWD Ramps)	1.00	lot				
17	Elevated Water Tank						
17.1	Concrete Pedestal including Stainless Top Railings and Steel Ladder with Fall Guard	1.00	lot				
17.2	Supply & Installation of Stainless Water Tank 10,000L (2,200 gal) Capacity, including Plumbing System	1.00	unit				
18	Fire Cistern Tank						
18.1	Cistern Tank 25 cu.m. in 5000 PSI Concrete (Include Formworks, Consumables and Miscellaneous)	1.00	lot				
21	Site Development and Improvement of Façade						
21.1	Repair of Ceiling Joists, Ceiling Board and Electrical Lighting (Scaffolding included) - Use 4.5mm Thk. Cement Fiber Board	40.00	sq.m.				
21.8	Restoration of HRDC Landmark	1.00	lot				
22	Minor Repairs for HRDC Roof						
22.1	Repair for leaks and damaged roofing sheets, if any	1.00	lot				
	Sub-Total B						
	CP (10%)						
	Overhead, Contingencies and Miscellaneous (3%)						
	VAT [7% x (Sub-Total + CP + OCM)]						
	Total Amount for ARCHITECTURAL WORKS						
C	MEPFS WORKS						
23	FIRE PROTECTION SYSTEM						
23.1	Fire Pump Equipment						
23.1.1	Fire Pump- UL listed / FM approved, Vertical Turbine complete with discharge assembly, air release and pressure gauge, coupled to an electric motor, complete with controller (UL listed / FM approved) and standard accessories Capacity : 500 GPM Total Head : 185 Ft. Motor Power : 40 Hp, 230V, 3Ph, 60Hz	1.00	set		n/a		
23.1.2	Jockey Pump- UL Listed / FM approved, Electric Motor Driven, complete with controller (UL Listed / FM approved) and standard accessories Capacity : 10 GPM Total Head : 208 Ft. Motor Power : 2 Hp, 230V, 3Ph, 60Hz	1.00	set		n/a		
23.2	Fire Protection Distribution Materials						
23.2.1	4" (100mm) Ø x 6m Schedule 40 B.I. Pipe, Seamless	38.00	lgth/s		n/a		
23.2.2	1 1/2" (40mm) Ø x 6m Schedule 40 B.I. Pipe, Seamless	5.00	lgth/s		n/a		
23.2.3	1 1/4" (32mm) Ø x 6m Schedule 40 B.I. Pipe, Seamless	28.00	lgth/s		n/a		
23.2.4	1" (25mm) Ø x 6m Schedule 40 B.I. Pipe, Seamless	30.00	lgth/s		n/a		
23.2.5	B.I. Fittings	1.00	lot		n/a		
23.2.6	Sprinkler Head, Pendant Type	280.00	pcs		n/a		
23.2.7	Sprinkler Head, Upright Type	58.00	pcs		n/a		
23.2.8	Fire Hose Cabinet complete w/ Angle Valve and all other accessories	4.00	set/s		n/a		
23.2.9	10 lbs. Portable Fire Extinguisher (ABC - Dry Chemical)	18.00	pcs		n/a		
23.2.10	Pipe Hanger and Support	1.00	lot		n/a		
23.2.11	Consumable Materials	1.00	lot		n/a		
23.3	Installation Cost (includes labor and equipment costs)						
23.3.1	Installation of Fire Protection System	1.00	lot	n/a			

ITEM NO.	DESCRIPTION	QTY.	UNIT	UNIT COST			AMOUNT
				MAT'L./EQ.	LABOR	TOTAL	
23.3.2	Installation of Fire Hose Cabinets (including concrete Chipping Works)	1.00	lot	n/a			
23.3.3	Installation of Main Piping and Fire Pump Equipment	1.00	lot	n/a			
23.4	Testing and Commissioning	1.00	lot				

ITEM NO.	DESCRIPTION	QTY.	UNIT	UNIT COST			AMOUNT
				MAT'L/EQ.	LABOR	TOTAL	
23.5	Miscellaneous						
	All items necessary to complete Fire Protection System	1.00	lot				
	Sub-Total C-21						
	CP (10%)						
	Overhead, Contingencies and Miscellaneous (3%)						
	VAT [7% x (Sub-Total + CP + OCM)]						
	Total Amount for FIRE PROTECTION SYSTEM						
24	PLUMBING WORKS						
24.1	Plumbing Fixtures & Accessories						
24.1.1	Theater Comfort Rooms						
24.1.1.1	Water Closet, Wall-hung type including Frame w/ Flush system, stainless Flush Plate, angle valve and mounting accessories	25.00	sets				
24.1.1.2	Urinals HCG w/ Stainless Flush valve including complete mounting accessories	15.00	sets				
24.1.1.3	Undermount Lavatory w/ Stainless Faucet & P-trap w/ complete accessories	30.00	sets				
24.1.1.4	Standalone Lavatory w/ Stainless Faucet & P-trap w/ complete accessories	2.00	sets				
24.1.1.5	Stainless Floor Drain 6"	8.00	pcs.				
24.1.1.6	14" Ceiling Mounted Exhaust Fan complete with PVC pipe exhaust outlet thru wall	4.00	set/s				
24.1.1.7	Facial Mirror, 3.50m x 0.80m, frameless	6.00	unit/s				
24.1.1.8	Automatic Hand Dryer, sensor type	4.00	unit/s				
24.1.1.9	Toilet Paper/Trash Bin Combination, HQ Stainless, wall mounted	4.00	unit/s				
24.2	Pumps and Accessories						
24.2.1	Supply & Installation of Centrifugal High head Pump, 230 gpm @ 190 Ft., 175 psi max., 10 HP, 3500 RPM, 230VAC, 3Ø, 60 Hz (Not made nor assembled in China)	1.00	set				
24.2.2	Testing and Commissioning	1.00	lot				
24.3	Miscellaneous						
24.3.1	All items necessary to complete Plumbing Works	1.00	lot				
	Sub-Total C-22						
	CP (10%)						
	Overhead, Contingencies and Miscellaneous (3%)						
	VAT [7% x (Sub-Total + CP)]						
	Total Amount for PLUMBING WORKS						
25	HEATING, VENTILATION AND AIRCONDITIONING SYSTEM						
25.1	Mobilization/Demobilization	1.00	lot				
25.2	As-Built Plans	1.00	lot				
25.3	Site Supervision	1.00	lot				
25.4	Air Conditioning Equipment						
25.4.1	Multi Split (Branch) Type - VRF Inverter R410a						
25.4.1.1	ACCU-1; : Air cooled Condensing Unit	1.00	unit				
	Cooling Capacity : 146.8 KW						
	Electrical Capacity : 380V, 3Ph, 60Hz						
25.4.1.2	FCU-1; : Backstage	1.00	unit				
	Type : Ceiling Concealed						
	Cooling Capacity : 28.0 KW						
	Air Flow Rate : 4320 CMH						
	Electrical Capacity : 220V, 1Ph, 60Hz						
25.4.1.3	FCU-2; : Male Dressing Room	1.00	unit				
	Type : Ceiling Suspended						
	Cooling Capacity : 9.0 KW						
	Air Flow Rate : 1500 CMH						
	Electrical Capacity : 220-240V, 1Ph, 60Hz						
25.4.1.4	FCU-3; : Female Dressing Room	1.00	unit				
	Type : Ceiling Suspended						
	Cooling Capacity : 9.0 KW						
	Air Flow Rate : 1500 CMH						
	Electrical Capacity : 220-240V, 1Ph, 60Hz						
25.4.1.5	FCU-4/5; : Main Stage	2.00	unit				
	Type : Ceiling Suspended						
	Cooling Capacity : 28.0 KW						
	Air Flow Rate : 4320 CMH						
	Electrical Capacity : 220-240V, 1Ph, 60Hz						
25.4.1.6	FCU-6/7; : Orchestra Pit	2.00	units				
	Type : Ceiling Concealed						
	Cooling Capacity : 22.4 KW						
	Air Flow Rate : 3480 CMH						
	Electrical Capacity : 220-240V, 1Ph, 60Hz						
25.4.2	Refnet Joints / Branch Kits	6.00	set/s				
25.4.3	Remote Controller	7.00	pc/s				
25.4.3.1	ACCU-2; : Air Cooled Condensing Unit	1.00	unit				
	Cooling Capacity : 58.6 KW						
	Electrical Capacity : 380V, 3Ph, 60Hz						
25.4.3.2	FCU-8; : Control Room	1.00	unit				
	Type : Wall Mounted						
	Cooling Capacity : 1.8 KW						
	Air Flow Rate : 540 CMH						
	Electrical Capacity : 220-240V, 1Ph, 60Hz						
25.4.3.3	FCU-9/10; : Reception and Main Lobby	2.00	units				
	Type : Floor Standing Duct Type						

ITEM NO.	DESCRIPTION	QTY.	UNIT	UNIT COST			AMOUNT
				MAT'L/EQ.	LABOR	TOTAL	
	Cooling Capacity : 1.8 KW						
	Air Flow Rate : 3780 CMH						
	Electrical Capacity : 220-240V, 1Ph, 60Hz						

ITEM NO.	DESCRIPTION	QTY.	UNIT	UNIT COST			AMOUNT
				MAT'L/EQ.	LABOR	TOTAL	
25.4.3.4	FCU-11; : Ticket Booth 1	1.00	unit				
	Type : Wall Mounted						
	Cooling Capacity : 1.34 KW						
	Air Flow Rate : 540 CMH						
	Electrical Capacity : 220-240V, 1Ph, 60Hz						
25.4.3.5	FCU-12; : Ticket Booth 2	1.00	unit				
	Type : Wall Mounted						
	Cooling Capacity : 1.34 KW						
	Air Flow Rate : 540 CMH						
	Electrical Capacity : 220-240V, 1Ph, 60Hz						
25.4.3.6	FCU-13; : Office 1	1.00	unit				
	Type : Wall Mounted						
	Cooling Capacity : 3.15 KW						
	Air Flow Rate : 570 CMH						
	Electrical Capacity : 220-240V, 1Ph, 60Hz						
25.4.3.7	FCU-14; : Office 2	1.00	unit				
	Type : Wall Mounted						
	Cooling Capacity : 3.15 KW						
	Air Flow Rate : 570 CMH						
	Electrical Capacity : 220-240V, 1Ph, 60Hz						
25.4.4	Air Handling Unit						
25.4.4.1	ACCU-3; : Air Cooled Condensing Unit	1.00	unit				
	Cooling Capacity : 135 KW						
	Electrical Capacity : 380V, 3Ph, 60Hz						
25.4.4.2	AHU/1; : Auditorium Seating Zone 1	1.00	unit				
	Cooling Capacity : 45 KW						
	Air Flow Rate : 8160 CMH						
	Electrical Capacity : 380V, 3Ph, 60Hz						
25.4.4.3	AHU/2; : Auditorium Seating Zone 2	1.00	unit				
	Cooling Capacity : 45 KW						
	Air Flow Rate : 8160 CMH						
	Electrical Capacity : 380V, 3Ph, 60Hz						
25.4.4.4	AHU/3; : Auditorium Seating Zone 3	1.00	unit				
	Cooling Capacity : 45 KW						
	Air Flow Rate : 8160 CMH						
	Electrical Capacity : 380V, 3Ph, 60Hz						
25.4.4.5	ACCU-4; : Air Cooled Condensing Unit	1.00	unit				
	Cooling Capacity : 135 KW						
	Electrical Capacity : 380V, 3Ph, 60Hz						
25.4.4.6	AHU/4; : Auditorium Seating Zone 4	1.00	unit				
	Cooling Capacity : 45 KW						
	Air Flow Rate : 8160 CMH						
	Electrical Capacity : 380V, 3Ph, 60Hz						
25.4.4.7	AHU/5; : Auditorium Seating Zone 5	1.00	unit				
	Cooling Capacity : 45 KW						
	Air Flow Rate : 8160 CMH						
	Electrical Capacity : 380V, 3Ph, 60Hz						
25.4.4.8	AHU/6; : Auditorium Seating Zone 6	1.00	unit				
	Cooling Capacity : 45 KW						
	Air Flow Rate : 8160 CMH						
	Electrical Capacity : 380V, 3Ph, 60Hz						
25.4.5	Ventilation Equipment						
25.4.5.1	TEF/1 ; : Male Toilet (Stage)	1.00	unit				
	Type : Centrifugal In-Line Fans						
	Air Flow Rate : 900 CMH						
	Electrical Capacity : 230V, 1Ph, 60Hz						
25.4.5.2	TEF/2 ; : Male Toilet (Audience)	1.00	unit				
	Type : Centrifugal In-Line Fans						
	Air Flow Rate : 1200 CMH						
	Electrical Capacity : 230V, 1Ph, 60Hz						
25.4.5.3	TEF/3 ; : Female Toilet (Stage)	1.00	unit				
	Type : Centrifugal In-Line Fans						
	Air Flow Rate : 450 CMH						
	Electrical Capacity : 230V, 1Ph, 60Hz						
25.4.5.4	TEF/4 ; : Female Toilet (Audience)	1.00	unit				
	Type : Centrifugal In-Line Fans						
	Air Flow Rate : 750 CMH						
	Electrical Capacity : 230V, 1Ph, 60Hz						
25.4.5.5	TEF/4 to TEF/12 ; : Male/Female Single Toilet and PWD Toilet	8.00	units				
	Type : Centrifugal In-Line Fans						
	Air Flow Rate : 750 CMH						
	Electrical Capacity : 230V, 1Ph, 60Hz						
25.4.6	ACU; : BACOM Unit Classroom	2.00	units				
	Type : Split Type Inverter						

ITEM NO.	DESCRIPTION	QTY.	UNIT	UNIT COST			AMOUNT
				MAT'L/EQ.	LABOR	TOTAL	
	Cooling Capacity : 2.0 KW						
	Electrical Capacity : 220-240V, 1Ph, 60Hz						

ITEM NO.	DESCRIPTION	QTY.	UNIT	UNIT COST			AMOUNT
				MAT'L/EQ.	LABOR	TOTAL	
25.4.7	Other System Components						
	Equipment Vibration Isolators	1.00	lot			- included in Equipment Costs -	
	Equipment Mounting Base, Hangers & Supports	1.00	lot			- included in Equipment Costs -	
	Motor Controller/Starter including Load side Wirings for Fans/Blowers	4.00	set/s			- included in Equipment Costs -	
	Service / Cut-off Breakers, Controllers, including Load side Wirings (Power and Comm.) for A/C Equipment	1.00	lot			- included in Equipment Costs -	
25.5	Installation Materials, Electrical and Consumables						
25.5.1	Electrical Enclosure NEMA 3R Schnider Circuit Breaker Asst Amperes	11.00	pc/s				
25.5.2	Philips Dodges Electrical Wires #14	10.00	box				
25.5.3	Philips Dodges Electrical Wires #10	5.00	box				
25.5.4	Electrical Conduit 3/4	100.00	pc/s				
25.5.5	Electrical Fitting	50.00	pc/s				
25.5.6	Liquid Pipe 3/4	2.00	roll/s				
25.5.7	C-Channel	20.00	lgth				
25.5.8	Polyethylene Tape, Industrial Type, Blue	200.00	pc/s				
25.5.9	Aero Tape Self Adhesive	30.00	roll/s				
25.5.10	Anti-corrosive Paint Epoxy Primer	2.00	gal/s				
25.5.11	Rubber Pad Isolator Vibrator for Outdoor Unit Use	60.00	pc/s				
25.5.12	Full Threaded Bar 1/2" x 10'	200.00	pc/s				
25.5.13	U-bolt Hanger Support w/ Rod	300.00	pc/s				
25.5.14	Angle Bars 2" x 1 1/2" Steel Bar	40.00	lgth				
25.5.15	Dyna Bolt 2" x 1/2"	100.00	pc/s				
25.5.16	Expansion Bolt	100.00	pc/s				
25.5.17	Rubber Insulation and Insulation Materials for Refrigerant Pipes, Assorted Sizes	500.00	pc/s				
25.5.18	Electrical Tape Insulation Tape Rubber	20.00	pc/s				
25.5.19	Duct Tape, Silver coated 3" 3M	300.00	pc/s				
25.5.20	PVC Blue Main Drain Line 2"	30.00	pc/s				
25.5.21	Drain Insulation 2" Rubber	50.00	pc/s				
25.5.22	Drain Insulation 3/4" Rubber	50.00	pc/s				
25.5.23	Electrical Tape 1/2" Rubberized	30.00	pc/s				
25.5.24	PVC Blue - Drain Line	100.00	pc/s				
25.5.25	Strut Clamp 2.5 Stainless Steel Clamps	200.00	pc/s				
25.5.26	Bolt and Nuts	2,000.00	pc/s				
25.5.27	Concrete Foundation for Outdoor Units	1.00	lot				
25.5.28	Nitrogen	8.00	tank/s				
25.5.29	Other Consumables	1.00	lot				
25.6	Ducting Works						
25.6.1	Air Conditioning System Duct Works						
25.6.1.1	Fabrication of Main Duct	1.00	lot				
25.6.1.2	Fabrication of Supply Duct SAG	1.00	lot				
25.6.1.3	Fabrication of Return Air Grille RAG	1.00	lot				
25.6.1.4	Galvanized Iron (G.I.) Sheets						
25.6.1.5	Metal Rolled, 150 meters/roll, Ga. 20	4.00	roll/s				
25.6.1.6	Duct Insulation						
	Thermobreak Standard 25mm @ 15 meters	60.00	roll/s				
25.6.1.7	Accessories/ Miscellaneous						
	Plastic Straps and Clips	3.00	roll/s			n/a	
	Sealants/Vulcaseal	5.00	sets			n/a	
	G.I. Flange	300.00	pc/s			n/a	
	Hangers and Supports, 3/8" Pull Threaded Bar	200.00	pc/s			n/a	
	Duct Gasket, Tapes, Adhesives and other necessary consumables	1.00	lot			n/a	
25.6.2	Installation of Air Ventilation Systems						
25.6.2.1	Supply Air Ventilation, 3D Brand Exhaust Fan Motor	13.00	pc/s				
25.6.2.2	Installation of Exhaust Duct						
	B.I. Metal Sheet #20	52.00	pc/s				
25.6.2.3	Fiber Glass Insulation	2.00	roll/s				
25.6.2.4	Consumables/Miscellaneous						
	Duct Sealants, Gasket, Tapes, Adhesives and other necessary consumables	1.00	lot				
25.7	Miscellaneous						
25.7.1	All items necessary to complete HVAC System	1.00	lot				
	Sub-Total C-23						
	CP (10%)						
	Overhead, Contingencies and Miscellaneous (3%)						
	VAT [7% x (Sub-Total + CP + OCM)]						
	Total Amount for HVAC SYSTEM						
26	ELECTRICAL WORKS						
	Note: Installation Cost for each Electrical Item has been accounted in the Unit Price calculation.						
26.1	Facility Electrical Power Generating and Storing Equipment						
26.1.3	3 Phase ATS, 2000A AT/AF, 4P, 230VAC, 50-100KAIC with NEMA 1 Enclosure and 1 Assy. Cut-off Circuit Breaker in NEMA 1 Enclosure, Surface Mounted, MCCB Breaker 2000AT/3200AF 3 Pole, 3 Phase, 4 Wires, Including Labor & Materials	1.00	Assy				
26.1.4	3 Phase ATS, 1200A AT/AF, 4P, 230VAC, 100KAIC w/ 3 Phase Air Circuit Breaker, 1200A AT/AF 4P, 230VAC, 50 KAIC NEMA 1	1.00	Assy				
26.1.5	3 Phase Air Circuit Breaker, 1000A AT/AF 4P, 230VAC, 50 KAIC NEMA 1 Enclosure	1.00	Assy				

ITEM NO.	DESCRIPTION	QTY.	UNIT	UNIT COST			AMOUNT
				MAT'L/EQ.	LABOR	TOTAL	
26.1.6	Wires and Cables						
26.1.6.1	250 mm2 THHN	400.00	l.m				
26.1.6.2	200 mm2 THHN	160.00	l.m				
26.1.6.3	3.5 mm2 THHN Stranded Wire	20.00	box/es				

ITEM NO.	DESCRIPTION	QTY.	UNIT	UNIT COST			AMOUNT
				MAT'L/EQ.	LABOR	TOTAL	
26.1.7	Wiring Devices and Boxes						
26.1.7.1	250 kva Distribution Transformer, Oil Immersed 13200/7620, 240v 60 Hz	3.00	unit/s				
26.1.7.2	Duplex Convenience Outlet, Grounding type, Wall mounted	65.00	set/s				
26.1.7.3	Duplex Convenience Outlet, Grounding type, Floor mounted	4.00	set/s				
26.1.7.4	One Way Switch-One Gang	22.00	set/s				
26.1.7.5	Three Way Switch-One Gang	2.00	set/s				
26.1.7.6	Junction Boxes Metallic with cover	478.00	pc/s				
26.1.7.7	Utility Boxes	100.00	pc/s				
26.1.7.8	Threaded Male Metallic Coupling w/ Nut 20mm	1,000.00	pc/s				
26.1.7.9	Threaded Female Metallic Coupling w/ Bolt & Nut 20mm	1,444.00	pc/s				
26.1.7.10	Pull Box 4"x 6" x 6" Metallic with cover	50.00	set/s				
26.1.7.11	Pull Box 6"x 12" x12" Metallic with cover	10.00	set/s				
26.1.7.12	20 mm Conduit EMT	250.00	pc/s				
26.2	Lighting						
26.2.1	Lighting Devices: Interior Areas						
26.2.1.1	4" Ø Recessed Type Downlight Fixture with Glass Cover 9w LED Bulb	120.00	set/s				
26.2.1.2	25 w LED Bulb High Bay	189.00	set/s				
26.2.1.3	2-18 w LED Recessed Mounted Lighting Fixture with Anodized Reflector and Aluminum Louver, 600mm x 1200 mm	4.00	set/s				
26.2.1.4	Multi-directional 50 w LED Spot Light	21.00	set/s				
26.2.1.5	T5 LED Linkable Tubelights 16w 120mm, for Ceiling Cove Lighting, Daylight	60.00	set/s				
26.2.1.6	LED Strip Lights in Aluminum Extrusion Profile, 50 Hz, 7w for Cinema Floor Path Lighting	360.00	l.m.				
26.2.1.7	Emergency Lights	17.00	set/s				
26.2.1.8	Exit Lights	10.00	set/s				
26.2.2	Lighting Devices: Façade						
26.2.2.1	T5 LED Linkable Tubelights 16w 120mm in Translucent diffuser box	48.00	set/s				
26.2.2.2	300mm square Recessed Type with Translucent Cover 9w LED Bulb	6.00	set/s				
26.2.2.3	LED Strip Lights in Square PVC profile for abstract lighting feature	35.00	l.m.				
26.2.2.4	Multi-directional 50 w LED Spot Light for HRDC Landmark and Roof top	5.00	set/s				
26.2.2.5	Wires, Cables, Wiring Devices and Boxes						** included in Item 26.1.6 and Item 26.1.7**
26.5	Miscellaneous						
26.5.1	Hangers and Supports (Steel Rods, Expansion Bolts, C-Channels, Conduit Straps, and other necessary items to support installations of panel boards, ECB's, conduit runs and wiring devices)	1.00	lot				
26.5.2	Hardwares and consumables (Butane, Cutting Discs, Drill Bits, Electrical Tapes and other necessary items to be consumed to assure correct installations of panel boards, ECB's, conduit runs and wiring devices)	1.00	lot				
26.5.3	Concrete Encasement for Electrical and Auxillary Duct Bank	112.00	m				
	Sub-Total C-26						
	CP (10%)						
	Overhead, Contingencies and Miscellaneous (3%)						
	VAT [7% x (Sub-Total + CP + OCM)]						
	Total Amount for ELECTRICAL WORKS						
D	COMMUNICATIONS						
	Note: Installation Cost for each Communication Item is included in the Direct Unit Cost Analysis						
27	Telephone and Data (Structured Cabling)						
27.1	Equipment						
27.1.1	Equipment Rack/Distribution Frame (inclusive of Firewall, Network Switches, Server Computer, Patch Panels, Patch cords and other accessories for complete installation based on design requirements)						
	Closed Type Rack	1.00	set/s				
	Firewall	1.00	set/s				
	Server Computer (Operating System Included)	1.00	set/s				
	Network Switches (48 ports)	1.00	set/s				
	Patch Panels (48 ports)	1.00	set/s				
	Patch Cords	48.00	set/s				
	Cable Manager	5.00	set/s				
27.1.2	Telephone Terminal Cabinet	1.00	unit/s				
27.1.3	Uninterruptible Power Supply (UPS)	1.00	unit/s				
27.2	Wires						
27.2.1	4 APR Cat6 UTP Cable	457.60	lm				
27.3	Raceways						
27.3.1	32mm Ø PVC	6.00	lgth				
27.3.2	25mm Ø PVC	9.00	lgth				
27.3.3	20mm Ø PVC	20.00	lgth				
27.3.4	Conduit Connectors and Fittings	1.00	lot				
27.4	Wiring Devices						
27.4.1	Telephone and Data Outlet Combination (Wall Mounted)	10.00	set/s				
27.4.2	Telephone and Data Outlet Combination (Floor Mounted)	1.00	set/s				
27.5	Boxes						
27.5.1	Utility Box	11.00	set/s				
27.5.2	Pull Box 4" x 6" x 6"	3.00	set/s				
27.6	Miscellaneous						
27.6.1	Connecting cords, devices and adapters	1.00	lot				
27.6.2	Hangers and supports (Steel rods, Expansion Bolts, C-Channels, Conduit Straps and other necessary items to support installations of distribution frames, wiring boxes, conduit runs and wiring devices)	1.00	lot				
27.6.3	Hardwares and consumables (Butane, Cutting discs, Drill Bits, Electrical Tapes and other necessary items to be consumed to assure correct installations of Distribution Frames, Telephone Cabinets, conduit runs and wiring devices)	1.00	lot				
27.6.4	Testing and Commissioning of Equipment and Devices	1.00	lot				

ITEM NO.	DESCRIPTION	QTY.	UNIT	UNIT COST			AMOUNT
				MAT'L/EQ.	LABOR	TOTAL	
28	Public Address/ Background Music						
28.1	Equipment						
28.1.1	Public Address System and General Alarm Equipment (Inclusive of PA Cabinet Rack Mixer, Amplifiers and other accessories for complete installation)	1.00	assy				
28.1.2	Paging Desktop Microphone	1.00	set/s				
28.1.3	Uninterruptible Power Supply	1.00	set/s				

ITEM NO.	DESCRIPTION	QTY.	UNIT	UNIT COST			AMOUNT
				MAT'L/EQ.	LABOR	TOTAL	
28.2	Wires						
28.2.1	#16 AWG/2C CIC	692.00	lm				
28.3	Raceways						
28.3.1	20mm Ø IMC	231.00	lgth				
28.3.2	Conduit Connectors and Fittings	1.00	lot				
28.4	Wiring Devices						
28.4.1	Ceiling Mounted Speaker - 6W (Bracket Included)	26.00	set/s				
28.4.2	Wall Mounted Horn Type Speaker (Bracket Included)	8.00	set/s				
28.5	Boxes						
28.5.1	Junction Box	34.00	set/s				
28.5.2	Pull Box 4" x 6" x 6"	6.00	set/s				
28.6	Miscellaneous						
28.6.1	Connecting Cords, Devices and Adapters	1.00	lot				
28.6.2	Hardwares, Consumables, Hangers and Supports	1.00	lot				
28.6.3	Testing and Commissioning	1.00	lot				
28.6.4	Sundries (all necessary items needed to complete "Communications")	1.00	lot				
	Sub-Total D						
	CP (10%)						
	Overhead, Contingencies and Miscellaneous (3%)						
	VAT [7% x (Sub-Total + CP + OCM)]						
	Total Amount for COMMUNICATIONS						
E	ELECTRONIC SAFETY AND SECURITY						
	Note: Installation Cost for each Electronic Safety and Security Item is included in the price.						
29	Video Surveillance (Closed-Circuit Television)						
29.1	Equipment						
29.1.1	Network Video Recorder (Inclusive of Hard Disk Drives), 16 Ports	1.00	set/s				
29.1.2	60" LED TV Monitor including Wall Mount Accessory	1.00	set/s				
29.1.3	RJ 42 Connector	50.00	pc/s				
29.1.4	Power Supply, 10 Amp	2.00	set/s				
29.2	Wires/Cables						
29.2.1	UTP Cable Cat5E	5.00	box/es				
29.3	Devices						
29.3.1	Dome IP Cameras, complete with Mounting Base and Accessories	6.00	set/s				
29.3.2	Bullet IP Cameras, complete with Mounting Base and Accessories	6.00	set/s				
29.3.3	PTZ IP Cameras, complete with Mounting Base and Accessories	3.00	set/s				
29.4	Miscellaneous						
29.4.1	Connecting Cords, Devices and Adapters	1.00	lot				
29.4.2	Hangers and Supports	1.00	lot				
29.4.3	Hardwares and Consumables	1.00	lot				
29.4.4	Testing and Commissioning (with Programming, configuration and/or set-up of CCTV Cameras and Network Video Recorder)	1.00	lot				
30	Fire Detection and Alarm System						
30.1	Equipment						
30.1.1	Addressable Fire Alarm Control Panel, 4 loops (complete with Battery and Charger)	1.00	unit/s				
30.1.2	Uninterruptible Power Supply (UPS)	1.00	unit/s				
30.1.3	Emergency Voice Alarm Communication (EVAC) Equipment with complete Accessories	1.00	unit/s				
30.2	Wires						
30.2.1	#16 AWG Shielded Circuit Integrity Cable (CIC)	735.80	lm				
30.3	Raceways						
30.3.1	20mm Ø IMC	245.00	lgth				
30.3.2	Conduit Connectors and Fittings	1.00	lot				
30.4	Wiring Devices						
30.4.1	Addressable Smoke Detector (mounting base included)	39.00	set/s				
30.4.2	Manual Call Point	6.00	set/s				
30.4.3	Horn and Strobe Light	6.00	set/s				
30.5	Boxes						
30.5.1	Junction Box	45.00	set/s				
30.5.2	Utility Box	6.00	set/s				
30.5.3	Pull Box 4" x 6" x 6"	3.00	set/s				
30.6	Miscellaneous						
30.6.1	Connecting Cords, Devices and Adapters	1.00	lot				
30.6.2	Hangers and Supports	1.00	lot				
30.6.3	Hardwares and Consumables	1.00	lot				
30.6.4	Programming, Testing and Commissioning of Devices and Fire Alarm Control Panel	1.00	lot				
31	LAN and Internet						
31.1	Equipment						
31.1.1	WAP Mikrotek	5.00	set/s				
31.1.2	LAN	6.00	set/s				
31.1.3	Data Cabinet	1.00	set/s				
31.1.4	IP Phone	2.00	set/s				
31.1.5	Switch, 48 Ports	1.00	set/s				
31.1.6	POE Switch, 8 Ports	1.00	set/s				
31.1.7	RJ 45 Connector	50.00	pc/s				
31.2	Wires/Cables						
31.2.1	UTP Cable Cat5E	5.00	box/es				

ITEM NO.	DESCRIPTION	QTY.	UNIT	UNIT COST			AMOUNT
				MAT'L/EQ.	LABOR	TOTAL	

ITEM NO.	DESCRIPTION	QTY.	UNIT	UNIT COST			AMOUNT
				MAT'L/EQ.	LABOR	TOTAL	
31.3	Miscellaneous						
31.3.1	Connecting Cords, Devices and Adapters	1.00	lot				
31.3.2	Hangers and Supports	1.00	lot				
31.3.3	Hardwares and Consumables	1.00	lot				
31.3.4	Testing and Commissioning	1.00	lot				
31.3.5	Sundries (all necessary items needed to complete "Electronic Safety and Security")	1.00	lot				
	Sub-Total E						
	CP (10%)						
	Overhead, Contingencies and Miscellaneous (3%)						
	VAT [7% x (Sub-Total + CP + OCM)]						
	Total Amount for ELECTRONIC SAFETY AND SECURITY						
F	CONSTRUCTION SAFETY & HEALTH						
32	SITE SECURITY	1.00	lot				
33	SITE OCCUPATIONAL HAZARDS	1.00	lot				
	Sub-Total F						
	CP (10%)						
	Overhead, Contingencies and Miscellaneous (3%)						
	VAT [7% x (Sub-Total + CP + OCM)]						
	Total Amount for CONSTRUCTION SAFETY & HEALTH						
	SUMMARY						
	MOBILIZATION/DEMobilIZATION						
	LABOR						
	MATERIALS						
	EQUIPMENT						
	Total DIRECT COST						
	CP (10%)						
	Overhead, Contingencies and Miscellaneous (3%)						
	VAT [7% x (Sub-Total + CP + OCM)]						
	Total INDIRECT COST						
	TOTAL PROJECT COST						P -

Note: Labor Cost includes any type of effort to get all the items in this Bill of Quantities installed, provided or done.

Prepared by: