

PROPOSED COMPLETION OF BGHMC 3-STOREY BUILDING FOR ISOLATION ROOMS

BILL OF QUANTITIES

PROJECT TITLE: ONE (1) LOT LABOR AND MATERIALS FOR THE PROPOSED COMPLETION OF THREE-STOREY BUILDING FOR ISOLATION ROOMS
 APPROVED BUDGET FOR THE CONTRACT: 37,000,000.00 PESOS ONLY
 CONTRACT DURATION: 250 CALENDAR DAYS INCLUSIVE OF 30 CALENDAR DAY PREDETERMINED UNWORKABLE CONDITIONS DUE TO WEATHER

Item No.	DESCRIPTION	UNIT	QTY	MATERIALS		LABOR		EQUIPMENT		ESTIMATED DIRECT COST	MARK-UPS IN %		TOTAL MARK-UP		TOTAL INDIRECT COST	TOTAL COST	TOTAL UNIT COST	
				UNIT COST	TOTAL COST	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST		PROFIT	OCM	%	VALUE				VAT
(1)	(2)		(3)	(4a)	= (4a) x (3)	(5a)	= (5a) x (3)	(6a)	= (6a) x (3)	= (4) + (5) + (6)	(8)	(9)	(10) = (8) + (9)	(11) = (10) X (7)	(12) = % [(7) + (11)]	(13) = (11) + (12)	(14) = (7) + (13)	(15) = (14) / (3)
G	GENERAL REQUIREMENTS																	
G.1	Mobilization / Demobilization	lot	1.00															
G.2	Project Billboard	lot	1.00															
G.3	Temporary Facilities (Barracks, Offices, Storage, etc) * Includes Storage, Staging area, Workers Barracks, Offices * Note: Workers barracks must be off-site	lot	1.00															
G.4	Permits and Licenses * occupancy permit, and other relevant permits	lot	1.00															
G.5	Provisions for Health, Security and Safety * Materials, labor and Equipments for the Implementation of Construction Safety and Health Program (DOLE Approved) * Includes PPE, Board-up, Fences, Safety signages, Directional signages * Includes standard protocols to protect both workers and the public (Perimeter wall, safety nets, inverted umbrella, etc)	lot	1.00															
	sub-total																	
ES	EARTH WORKS / SITE WORKS																	
ES.1	Demolition of Existing Structure * Demolition of existing Walls, Concrete Slab * Includes Hauling of Materials * Demolition for the provision of ramp at IDB, PCR Extension and Pharmacy intersection	lot	1.00															
ES.2	Structural Excavation w/ Hauling	cu.m	150.00															
ES.3	Embankment / Backfilling and Compaction	cu.m	30.00															
S	STRUCTURAL WORKS																	
S.1	CONNECTING BRIDGE & RAMP																	
S.1.1	Structural Concrete (3500 PSI @ 28 days, pouring, curing)	cu.m	50.00															
S.1.1.1	Ground Floor	cu.m	20.00															
S.1.1.2	Second Floor	cu.m	16.00															
S.1.1.2	Third Floor	cu.m	14.00															
S.1.2	Reinforcing Bars (Grade 40, Fabrication, Installation)	kgs	9,315.00															
S.1.2.1	Ground Floor	kgs	4,115.00															
S.1.2.1	Second Floor	kgs	3,100.00															
S.1.2.1	Third Floor	kgs	2,100.00															
S.1.3	Formworks and Falseworks (Fabrication, Installation, and Stripping)	sq.m	168.00															
S.1.4.1	Ground Floor	sq.m	81.00															
S.1.2.1	Second Floor	sq.m	64.00															
S.1.2.1	Third Floor	sq.m	56.00															
	sub-total																	
C	CIVIL WORKS																	
C.1	CHB LAYERING																	
C.1.1	6" CHB (Layering, Installation of Reinforcing Bars) * Components: 6" CHB, 10mm dia RSB (Grade 33), #16 Tie Wires, Portland Cement, Sand, Miscellaneous items	sq.m	48.00															
C.1.1.2	Third Floor	sq.m	48.00															
C.1.2	4" CHB (Layering, Installation of Reinforcing Bars) * Components: 4" CHB, 10mm dia RSB (Grade 33), #16 Tie Wires, Portland Cement, Sand, Miscellaneous items	sq.m	759.00															
C.1.2.3	Second Floor	sq.m	62.00															
C.1.2.4	Third Floor	sq.m	650.00															
C.1.2.6	Roof Deck Floor	sq.m	47.00															
C.2	PLASTERING WORKS																	
C.2.1	Cement Plaster Finish (Interior) * Components: Portland Cement, Fine Sand, Miscellaneous items	sq.m	1,631.00															
C.2.1.2	Second Floor	sq.m	148.00															
C.2.1.3	Third Floor	sq.m	1,368.00															
C.2.1.4	Roof Deck Floor	sq.m	115.00															

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				UNIT COST	TOTAL COST	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST		PROFIT	OCM	%	VALUE				VAT
(1)	(2)		(3)	(4a)	(4) = (4a) x (3)	(5a)	(5) = (5a) x (3)	(6a)	(6) = (6a) x (3)	(7) = (4) + (5) + (6)	(8)	(9)	(10) = (8) + (9)	(11) = (10) X (7)	(12) = % [(7) + (11)]	(13) = (11) + (12)	(14) = (7) + (13)	(15) = (14) / (3)
C.2.2	Cement Plaster Finish (Exterior) * Components: Portland Cement, Fine Sand , Provision of Grooves, Concrete Molding Design, Miscellaneous items	sq.m	96.00															
	* Work item includes provision of Grooves, Emboss, Moulding, and other plastering designs.																	
C.2.2.1	Exterior	sq.m	96.00															
C.3	STIFFENER COLUMN * Components: 3000 PSI Concrete Mix, Grade 33 RSB, Tie wires, Formworks, Miscellaneous items																	
C.3.1	150 mm x 200 mm	In.m.	38.00															
C.3.1.1	Second Floor	In.m.	5.00															
C.3.1.2	Third Floor	In.m.	21.00															
C.3.1.3	Roof Deck Floor	In.m.	12.00															
C.3.2	100 mm x 200 mm	In.m.	84.00															
C.3.2.1	Second Floor	In.m.	11.00															
C.3.2.2	Third Floor	In.m.	55.00															
C.3.2.3	Roof Deck Floor	In.m.	18.00															
C.4	STIFFENER BEAM / LINTEL BEAM * Components: 3000 PSI Concrete Mix, Grade 33 RSB, Tie wires, Formworks, Miscellaneous items																	
C.4.1	150 mm x 200 mm	In.m.	96.00															
C.4.1.1	Second Floor	In.m.	14.00															
C.4.1.2	Third Floor	In.m.	61.00															
C.4.1.3	Roof Deck Floor	In.m.	21.00															
C.4.2	100 mm x 200 mm	In.m.	194.00															
C.4.2.1	Second Floor	In.m.	40.00															
C.4.2.2	Third Floor	In.m.	112.00															
C.4.2.3	Roof Deck Floor	In.m.	42.00															
C.5	CANOPIES & LEDGES																	
C.5.1	Structural Concrete (3000 PSI @ 28 days, pouring, curing)	cu.m	5.00															
C.5.2	Reinforcing Bars (Grade 33, Fabrication, Installation)	kgs	670.00															
C.5.3	Formworks and Falseworks (Fabrication, Installation, and Stripping)	sq.m	98.00															
	sub-total																	
A	ARCHITECTURAL FINISHES																	
A.1	FLOOR FINISH																	
A.1.1	Non-Directional Vinyl Roll Floor Finish (F-2) * Components: 2mm Roll-Form, Anti-static, Anti-Bacterial Homogeneous Vinyl, Non-directional (Installation shall be based on manufacturer's standard), Capping Strip, Cove Former, Floor Topping (Plain Cement Finish) Self Leveling Grout, Miscellaneous items	sq.m	790.00															
A.1.1.1	Second Floor	sq.m	390.00															
A.1.1.2	Third Floor	sq.m	400.00															
A.1.2	Porcelain Floor Tile Finish (F-5a) (Size: 600mm X 600mm) *Components: Specified Tiles, Cement, Sand, Tile Adhesive, Tile Grout, Miscellaneous items *Colors of grout and tiles will be selected by Owners representative (color/pattern/texture can be 2 or more)	sq.m	99.00															
A.1.2.1	Ground Floor	sq.m	33.00															
A.1.2.2	Second Floor	sq.m	33.00															
A.1.2.3	Third Floor	sq.m	33.00															
A.1.3	Non-skid Porcelain Floor Tile w/ Anti-slip Groove Finish (F-6) (Size: 600mm x 300mm) *Components: Specified Tiles, Cement, Sand, Tile Adhesive, Tile Grout, Miscellaneous items *Colors of grout and tiles will be selected by Owners representative (color/pattern/texture can be 2 or more)	sq.m	60.00															
A.1.3.1	Ground Floor - Second Floor	sq.m	20.00															
A.1.3.2	Second Floor - Third Floor	sq.m	20.00															
A.1.3.3	Third Floor - Roof Deck	sq.m	20.00															
A.1.4	Porcelain Floor Tile Finish for Stair Riser (F-5) (Size: 600mm wide) *Components: Specified Tiles, Cement, Sand, Tile Adhesive, Tile Grout, Miscellaneous items *Colors of grout and tiles will be selected by Owners representative (color/pattern/texture can be 2 or more)	sq.m	36.00															
A.1.4.1	Ground Floor - Second Floor	sq.m	12.00															
A.1.4.2	Second Floor - Third Floor	sq.m	12.00															
A.1.4.3	Third Floor - Roof Deck	sq.m	12.00															
A.1.5	Metallic Epoxy Floor Finish (F-7) *Components: Floor Topping/Self Leveling Grout, Epoxy Putty, Sealer/Primer, Metallic Epoxy components a & b, (2 coats), Pigment, Miscellaneous items	sq.m	88.00															
A.1.5.1	Second Floor	sq.m	44.00															
A.1.5.2	Third Floor	sq.m	44.00															
A.1.6	Semi-Gloss Chlorinated Rubber-Modified Acrylic Finish (F-8) *Components: Floor Topping/Self Leveling Grout, Putty, Reducer/Sealer/Primer, 100% Solid-polyamine-cured heavy duty epoxy floor coating Finish (2 coats), Miscellaneous items	sq.m	162.00															
A.1.6.1	Second Floor	sq.m	12.00															

(NAME AND SIGNATURE OF AUTHORIZED REPRESENTATIVE)
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				UNIT COST	TOTAL COST	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST		PROFIT	OCM	%	VALUE				VAT	
(1)	(2)		(3)	(4a)	(4) = (4a) x (3)	(5a)	(5) = (5a) x (3)	(6a)	(6) = (6a) x (3)	(7) = (4) + (5) + (6)	(8)	(9)	(10) = (8) + (9)	(11) = (10) X (7)	(12) = % [(7) + (11)]	(13) = (11) + (12)	(14) = (7) + (13)	(15) = (14) / (3)	
A.1.6.2	Third Floor	sq.m	150.00																
A.1.7	3mm x 40mm Anodized Metal Transition strip	ln.m	42.00																
A.1.7.1	Second Floor	ln.m	20.00																
A.1.7.2	Third Floor	ln.m	22.00																
A.1.8	Waterproofing and water sealing * Components: Ready to apply (pre-mixed) polyurethane elastomeric seamless waterproofing membrane, Miscellaneous items	sq.m	238.00																
A.1.8.1	Second Floor	sq.m	44.00																
A.1.8.2	Third Floor	sq.m	39.00																
A.1.8.3	Roof Deck	sq.m	155.00																
A.2	WALL FINISH																		
A.2.1	Porcelain Wall Tile Finish (W-5a) (Size: 600mm X 300mm) *Components: Specified Tiles, Cement, Sand, Tile Adhesive, Tile Grout, Miscellaneous items *Colors of grout and tiles will be selected by Owners representative (color/pattern/texture can be 2 or more)	sq.m	52.00																
A.2.1.1	Ground Floor	sq.m	52.00																
A.2.2	Granite Slab Wall Finish (W-9) *Components: Specified Tiles, Cement, Sand, Tile Adhesive, Tile Grout, Miscellaneous items *Colors of grout and tiles will be selected by Owners representative (color/pattern/texture can be 2 or more)	sq.m	33.00																
A.2.2.1	Basement Floor	sq.m	11.00																
A.2.2.2	Ground Floor	sq.m	11.00																
A.2.2.3	Second Floor	sq.m	11.00																
A.2.3	Porcelain Wall Tile Finish (W-5a) (Size: 1200mm X 600mm) *Components: Specified Tiles, Cement, Sand, Tile Adhesive, Tile Grout, Miscellaneous items *Colors of grout and tiles will be selected by Owners representative (color/pattern/texture can be 2 or more)	sq.m	15.00																
A.2.3.1	Ground Floor	sq.m	15.00																
A.3	CEILING FINISH																		
A.3.1	4.5mm thk Fiber Cement Board Finish (C-3a) *Components: 4' x 8' x 4.5mm thk moisture resistant Gypsum Board, Double furring channel, Carrying channel, Double furring clip, Wall Angle, Concrete Nails, Blind Rivet/Screw, Hangers and Supports, Miscellaneous items	sq.m	484.00																
A.3.1.1	Second Floor	sq.m	231.00																
A.3.1.2	Third Floor	sq.m	182.00																
A.3.1.3	Roof Deck	sq.m	71.00																
A.3.2	Non-Perforated Clean Room Rated Acoustic Tile Finish (C-6) *Components: 600mm x 600mm / 1200mm x 600mm Fiber Mineral Acoustic Tiles, Powder Coated Grid System, GI Rigid Hanger System, Steel angle bracket, 3/8" Hex bolt w/ washer, Concrete Nails, Miscellaneous items	sq.m	464.00																
A.3.2.1	Second Floor	sq.m	217.00																
A.3.2.2	Third Floor	sq.m	247.00																
A.3.6	PVC Ceiling Panel Finish (C-7, Wood Series Design) *Components: 200mm wide PVC Panel, PVC Corner Trim/ PVC Ceiling Clip, 19mm x 50 mm Double furring channel, 12mm x 38mm Carrying channel, Double furring clip, Wall Angle, Concrete Nails, Blind Rivet/Screw, Hangers and Supports, Miscellaneous items	sq.m	27.00																
A.3.6.1	Second Floor	sq.m	7.00																
A.3.6.2	Third Floor	sq.m	20.00																
A.4	CABINETS, COUNTER, LOCKERS																		
A.4.1	3/4"x4'x8' Marine Plywood (Fabrication, Installation)	sq.m.	82.00																
A.4.2	1/4"x4'x8' Marine Plywood (Fabrication, Installation)	sq.m.	25.00																
A.4.3	Good Lumber (Fabrication, Installation, Stripping)	bd.ft	300.00																
A.4.4	1" x 1" Wood Edging (Fabrication, Installation)	ln.m	220.00																
A.4.5	1/4" Clear Glass (Fabrication, Installation)	sq.m	1.00																
A.4.6	1/4" thk Mirror Glass (Fabrication, Installation)	sq.m	1.00																
A.4.7	1/2" Tempered Glass (Fabrication, Installation)	sq.m.	1.00																
A.4.8	Black Galaxy Granite Finish (Refer to Plans and Specifications)	sq.m	6.00																
A.4.9	50mm x 50mm x Powder coated Tubular	ln.m	111.00																
A.4.10	Cabinet Hinge	pcs	32.00																
A.4.11	Stainless Steel Handle	pcs	24.00																
A.4.12	Drawer Guide	pairs	8.00																
A.4.13	Magnetic Catches	set	16.00																
A.4.14	Lock Hasp	set	10.00																
A.5	ADDITIONAL ARCHITECTURAL FINISHES																		
A.5.1	STAIR RAILING @ INTERIOR STAIRS (See Plans & Specifications)																		
A.5.1.1	40 mm dia. 1.5mm thk. Stainless Steel (SUS304)	ln.m	86.00																
A.5.1.2	37.5 mm dia. 1.5mm thk. Stainless Steel (SUS304)	ln.m	56.00																

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				UNIT COST	TOTAL COST	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST		PROFIT	OCM	%	VALUE				VAT	
(1)	(2)		(3)	(4a)	(4) = (4a) x (3)	(5a)	(5) = (5a) x (3)	(6a)	(6) = (6a) x (3)	(7) = (4) + (5) + (6)	(8)	(9)	(10) = (8) + (9)	(11) = (10) X (7)	(12) = % [(7) + (11)]	(13) = (11) + (12)	(14) = (7) + (13)	(15) = (14) / (3)	
A.5.1.3	12.5 mm x 12.5mm square solid Stainless Steel bar (SUS304)	ln.m	611.00																
A.5.2	50mm x 100mm x POWDER COATED ALUMINUM TUBULAR SUN BUFFER (See Plans & Specifications)	ln.m	339.00																
A.5.2	50mm x 75mm x 1.2mm G.I. TUBE ARCHITECTURAL LOUVERS (See Plans & Specifications)	ln.m	128.00																
A.5.3	STAINLESS STEEL LETTERINGS: HELVETICA, 300mm HEIGHT (See Plans & Specifications)	set/s	19.00																
A.5.4	Sand stone Wall Cladding Finish (W-10)	sq.m	42.00																
A.6	PAINTING WORKS																		
A.6.1	INTERIOR WALL AND EXPOSED CONCRETE PAINTING																		
A.6.1.1	Anti-Bacterial Paint Finish (P-4)	sq.m	2,604.00																
	* Components: Concrete Neutralizer, Penetrating Sealer, Putty, Primer, Reducer,Anti-Bacterial, Odorless & Stain Resistant-Paint, Miscellaneous items																		
A.6.1.1.2	Second Floor	sq.m	1,210.00																
A.6.1.1.3	Third Floor	sq.m	1,180.00																
A.6.1.1.4	Roof Deck	sq.m	214.00																
A.6.1.1	Acrylic Solvent-Based Paint Finish (P-1)	sq.m	477.00																
	* Components: Concrete Neutralizer, Penetrating Sealer, Putty, Primer, Reducer,Anti-Bacterial, Odorless & Stain Resistant-Paint, Miscellaneous items																		
A.6.1.1.1	Second Floor	sq.m	203.00																
A.6.1.1.2	Third Floor	sq.m	203.00																
A.6.1.1.3	Roof Deck	sq.m	71.00																
A.6.2	CEILING PAINTING ON FICEM BOARD																		
A.6.2.1	Anti-Bacterial Paint Finish (P-4)	sq.m	503.00																
	* Components: Gypsum Tape, Putty, Primer, Reducer,Anti-Bacterial, Odorless & Stain Resistant-Paint, Miscellaneous items																		
A.6.2.1.1	Second Floor	sq.m	243.00																
A.6.2.1.2	Third Floor	sq.m	192.00																
A.6.2.1.3	Roof Deck	sq.m	68.00																
A.6.3	WOOD PAINTING ON CABINETS, SHELVES, FURNITURES																		
A.6.3.1	Acrylic ODE Paint Finish (P-5)	sq.m	205.00																
	* Components: Putty, Primer, Reducer,Quick Drying Enamel Paint, Miscellaneous items																		
A.6.3.1.1	Furnitures	sq.m	205.00																
A.6.4	EXTERIOR PAINT																		
A.6.4.1	Elastomeric Paint Finish (P-2)	sq.m	720.00																
	* Components: Putty, Primer, Reducer, Elastomeric Paint, Miscellaneous items																		
A.6.4.1.1	Exterior Walls	sq.m	720.00																
A.6.4.2	Exterior Wall Waterproofing	sq.m	720.00																
	* Components: Cementitious Waterproofing System, Additives, Portland Cement, Miscellaneous items																		
A.6.4.2.1	Exterior Walls	sq.m	720.00																
A.7	WALL HARDWARE																		
A.7.1	CRASH RAIL (See Plans & Specifications)	ln.m	338.00																
A.7.1.1	Ground Floor	ln.m	109.00																
A.7.1.2	Second Floor	ln.m	109.00																
A.7.1.3	Third Floor	ln.m	120.00																
A.7.2	CRASH HANDRAIL (See Plans & Specifications)	ln.m	237.00																
A.7.2.1	Ground Floor	ln.m	85.00																
A.7.2.2	Second Floor	ln.m	85.00																
A.7.2.3	Third Floor	ln.m	67.00																
A.7.3	CORNER GUARD (See Plans & Specifications)	ln.m	182.00																
A.7.3.1	Ground Floor	ln.m	62.00																
A.7.3.2	Second Floor	ln.m	62.00																
A.7.3.3	Third Floor	ln.m	58.00																
	sub-total																		
D&W	DOORS AND WINDOWS																		
D&W.1	DOORS (Supply and Installation)																		
	* Note: includes Door closers, Door Knob, Locking mechanism, Door handle, Panic devises, and other door accessories specified in the plans and specifications.																		
D&W.1.1	D1 (See Plans & Specifications)	set	8.00																
D&W.1.2	D2 (See Plans & Specifications)	set	12.00																
D&W.1.3	D3 (See Plans & Specifications)	set	16.00																
D&W.1.4	D6 (See Plans & Specifications)	set	4.00																
D&W.1.5	FD2 (See Plans & Specifications)	set	4.00																
D&W.1.6	ED1 (See Plans & Specifications)	set	2.00																
D&W.2	WINDOWS (Supply and Installation)																		
D&W.2.1	IW1 (See Plans & Specifications)	set	3.00																

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				UNIT COST	TOTAL COST	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST		PROFIT	OCM	%	VALUE				VAT
(1)	(2)		(3)	(4a)	(4) = (4a) x (3)	(5a)	(5) = (5a) x (3)	(6a)	(6) = (6a) x (3)	(7) = (4) + (5) + (6)	(8)	(9)	(10) = (8) + (9)	(11) = (10) X (7)	(12) = % [(7) + (11)]	(13) = (11) + (12)	(14) = (7) + (13)	(15) = (14) / (3)
D&W.2.2	IW2 (See Plans & Specifications)	set	2.00															
	sub-total																	
E	ELECTRICAL WORKS																	
E.1	ROUGHING INS																	
	*Consumables such as Conduit Hangers and Supports (i.e. Unistrut channels, Full-threaded rods, unistrut clamps, screws, expansion bolts, nuts and washers), Cable Ties, Electrical tapes, rubber tapes, pvc solvent, butane gas, etc. shall be inclusive within the unit cost of each item																	
E.1.1	20 mm dia x 3.00 m EMT Pipe	length	870.00															
E.1.2	50 mm dia x 3.00 m EMT Pipe	length	5.00															
E.1.3	60 mm dia x 3.00 m EMT Pipe	length	5.00															
E.1.4	EMT Lock Nut and Bushing, 20 mm dia	pcs	1,920.00															
E.1.5	EMT Lock Nut and Bushing, 50 mm dia	pcs	8.00															
E.1.6	EMT Lock Nut and Bushing, 60 mm dia	pcs	8.00															
E.1.7	EMT Elbow, 20 mm dia	pcs	423.00															
E.1.8	EMT Elbow, 50 mm dia	pcs	3.00															
E.1.9	EMT Elbow, 60 mm dia	pcs	3.00															
E.1.10	EMT COUPLING 20 mm dia	pcs	1,044.00															
E.1.11	EMT COUPLING, 50 mm dia	pcs	8.00															
E.1.12	EMT COUPLING, 60 mm dia	pcs	8.00															
E.1.13	Liquid Tight FMC Straight Connector, 1.5 mm (1/2") dia	pcs	320.00															
E.1.13	Liquid Tight Flexible Metallic Conduit, Stainless Steel Insulation Sleeve, 1/2" (15mm) Diameter	m	300.00															
E.1.14	Cable Tray, 40cm x 20cm Cable Gutter, ga.16, with complete accessories, Hot-Dipped Galvanized, Screw-Type Detachable Cover, Factory Fabricated, Grey Painted Surface	m	30.00															
E.2	WIRES AND CABLES																	
	*Consumables such as Conduit Hangers and Supports (i.e. Unistrut channels, Full-threaded rods, unistrut clamps, screws, expansion bolts, nuts and washers), Cable Ties, Electrical tapes, rubber tapes, pvc solvent, butane gas, etc. shall be inclusive within the unit cost of each item																	
E.2.1	Copper Wires, THWN-2/THHN, 2.0 sqmm (Green)	m	1,200.00															
E.2.2	Copper Wires, THWN-2/THHN, 3.5 sqmm	m	7,500.00															
E.2.3	Copper Wires, THWN-2/THHN, 5.5 sqmm	m	1,800.00															
E.2.4	Copper Wires, THWN-2/THHN, 30.0 sqmm (Green)	m	100.00															
E.2.5	Copper Wires, THWN-2/THHN, 30.0 sqmm	m	200.00															
E.2.6	Copper Wires, THWN-2/THHN, 60.0 sqmm	m	90.00															
E.3	WIRING DEVICES																	
	*Consumables such as Conduit Hangers and Supports (i.e. Unistrut channels, Full-threaded rods, unistrut clamps, screws, expansion bolts, nuts and washers), Cable Ties, Electrical tapes, rubber tapes, pvc solvent, butane gas, etc. shall be inclusive within the unit cost of each item																	
E.3.1	Duplex C.O. (Universal, 3-Prong Ground Type w/ plate & cover), Wide Series	set	95.00															
E.3.2	Single C.O (Universal, w/ Plate and Cover)	set	55.00															
E.3.4	Special Purpose Outlet, (Additional Reference: Nema 14- 50R), 16Amp-Rated (or Higher), Universal, 3-Prong ground type, Middle-Mount, Heavy Duty GFCl	set	33.00															
E.3.5	Switch, 1 - Gang w/ plate and cover, wide series	set	48.00															
E.3.6	Switch, 2 - Gang w/ plate and cover, wide series	set	19.00															
E.3.7	Switch, 3 - Gang w/ plate and cover, wide series	set	4.00															
E.3.8	Switch, 3-wav,1 - Gang w/ plate and cover, wide series	set	2.00															
E.3.9	Switch, 3-wav, 2 - Gang w/ plate and cover, wide series	set	24.00															
E.3.10	Square Box, 400mm x 400mm x 300mm Powder Coated Metal Pull Box, Screw-Detachable Cover with Knockouts, Gauge #16	pcs	16.00															
E.3.11	Utility Box, Galvanized Metal, Gauge #16	pcs	300.00															
E.3.12	Junction Box, Galvanized Metal, Gauge #16	pcs	500.00															
E.4	LIGHTING FIXTURES																	
	*Consumables such as Conduit Hangers and Supports (i.e. Unistrut channels, Full-threaded rods, unistrut clamps, screws, expansion bolts, nuts and washers), Cable Ties, Electrical tapes, rubber tapes, pvc solvent, butane gas, etc. shall be inclusive within the unit cost of each item																	
E.4.1	60 x 60 cm x 40-Watt LED PANEL Light, Recessed Mounted, Clean Room Rated, Totally Sealed Housing, 4000K	set	100.00															
E.4.2	7-Watt LED Bulb Daylight, Vertical Downlight Recessed Type, 150mmØ White Cylindrical Lighting Fixture with Reflector	set	8.00															
E.4.3	9-Watt LED Bulb Daylight, Vertical Downlight SURFACE Type, 150mmØ White Cylindrical Lighting Fixture with Reflector	set	8.00															
E.4.4	18W Vandal Resistant LED TUBE WALL LIGHT with Special Lamp Holder and Tamper Proof Wall Casement, IP65-Outdoor Rated, Direct and Indirect Light Beam- Warm White, 50,000 Hrs.	set	4.00															
E.4.5	12-Watt LED PANEL LIGHT, Daylight,Clean Room Rated, Round Surface Type Downlight, 150mmØ WHITE	set	85.00															
E.4.6	2-Watt Luminous Hanging Exit Light, 230Vac	set	6.00															
E.4.7	2x3-Watt Twin-Head LED Emergency Light with Charger,230V	set	45.00															
E.4.8	30 x 120 cm x 2- 18Watt T8 Tubular LED, Recessed Type Vertical Downlight, 220Vac, 4000K Daylight, Dust Tight Lighting Fixture w/ Aluminum Louvers	set	4.00															
E.4.9	30 x 60 cm x 2-9Watt T8 Tubular LED, Recessed Type Vertical Downlight, 220Vac, 4000K Daylight, Dust Tight Lighting Fixture w/ Aluminum Louvers	set	18.00															
E.5	PANELBOARDS (bolt-on-type)																	

(NAME AND SIGNATURE OF AUTHORIZED REPRESENTATIVE)
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(COMPANY NAME)

PROPOSED COMPLETION OF BGHMC 3-STOREY BUILDING FOR ISOLATION ROOMS

BILL OF QUANTITIES

Item No.	DESCRIPTION	UNIT	QTY	MATERIALS		LABOR		EQUIPMENT		ESTIMATED DIRECT COST	MARK-UPS IN %		TOTAL MARK-UP		TOTAL INDIRECT COST	TOTAL COST	TOTAL UNIT COST	
				UNIT COST	TOTAL COST	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST		PROFIT	OCM	%	VALUE				VAT
(1)	(2)		(3)	(4a)	(4) = (4a) x (3)	(5a)	(5) = (5a) x (3)	(6a)	(6) = (6a) x (3)	(7) = (4) + (5) + (6)	(8)	(9)	(10) = (8) + (9)	(11) = (10) X (7)	(12) = % [(7) + (11)]	(13) = (11) + (12)	(14) = (7) + (13)	(15) = (14) / (3)
	*Consumables such as Conduit Hangers and Supports (i.e. Unistrut channels, Full-threaded rods, unistrut clamps, screws, expansion bolts, nuts and washers), Cable Ties, Electrical tapes, rubber tapes, pvc solvent, butane gas, etc. shall be inclusive within the unit cost of each item																	
E.5.2	DISTRIBUTION PANEL BOARDS PER FLOOR ((PB3,PB4- SECOND FLOOR), (PB5,PB6- THIRD FLOOR))	set	4.00															
	Main: 100AT/200AF, 15KAIC, 3-pole																	
	Branch:																	
	6-20AT,2-pole																	
	14-30AT,2-pole																	
E.5.3	MECHANICAL PANEL BOARDS PER FLOOR (MPB2, MPB3)	set	2.00															
	Main: 175AT/250AF, 25KAIC, 3-pole																	
	Branch:																	
	7-40AT,3-pole																	
	13-30AT,3-pole																	
E.5.3	POWER SUPPLY																	
E.5.3.1	GENERATOR SET WITH ATS IN LVSG TYPE ASSEMBLY (SOUND PROOF)	lot	1.00															
	Supply and Installation of (Inclusive of Labor and Material Costs):																	
	SOUND PROOF Generator 500KVA 3Ø, 230VAC, 60Hz, Diesel Driven Silent Type, 1800rpm, 0.80 Power Factor																	
	Smoke Emission Exhaust Pipe and Pipe Hood/ Exhaust Head Termination Cover (20 meters x 6" Diameter B.I. Pipe)																	
	Power System Digital Monitoring Display and Controls, All Real Time I/O Metering Parameters																	
	Other Generator Set System Requirements Included: 1) Supply, Installation, and Termination of compatible, adequate and properly sized feeder conductors from the provided Transformer and Automatic Transfer Switch. 2) Re-wiring and Re-termination of existing load conductors to Generator ATS Output terminals.																	
	3) Supply and Installation of (Inclusive of Labor and Material Costs): 1000A MTS/ATS in Low Voltage Switch Gear Assembly (Main: 1000AT- ACB,3-phase; Branches: 1- 600AT MCCB,3-Phase; 1-350AT MCCB,3-Phase; 1-300AT MCCB, 3-Phase MCCB, 240V, 3-Phase), 65KAIC, Mechanical Interlock, Bolt-on Industrial Type Thermal Magnetic ACB, w/ Grounding Busbar Terminal, Ammeter and Voltmeter equipped, Over and Under Voltage relay and Anti-Single Phasing, Crimp Lugs, non insulated, PT 300VA 480/240/120V, Illuminated Push Button, ATS Accessories: Programmable Logic Controller Accessories, Busbarring and Accessories: Main Busbar, 10mm x 100mm, 1200A, 2Ply Busbar Insulator, Red Poly, SM76, Power System Digital Monitoring Display and Controls, Real Time Metering and Display of IO, Rated Standard Enclosure System Parameters																	
	4) Provision and Installation of an independent grounding system for the whole generator set system with respect to loading capacity and capability. Provide adequate busbars and busbar slots for grounding conductors.																	
	sub-total																	
ECE	ELECTRONICS AND COMMUNICATIONS WORKS																	
EC.1	FIRE ALARM SYSTEM																	
	*Consumables such as Conduit Hangers and Supports (i.e. Unistrut channels, Full-threaded rods, expansion bolts, nuts and washers), Mica Tube, RJ-45/RJ-11/BNC/RG-6 Coax Connectors, Cable Ties shall be inclusive within the unit cost of each item																	
EC.1.1	Manual Pull Station	set	6.00															
EC.1.2	Bell, 24 Vdc, 6" dia	pcs	6.00															
EC.1.3	Smoke Detector, 24 Vdc, photoelectric type	pcs	14.00															
EC.1.4	TF Wire, 1.25 mm	m	490.00															
EC.1.5	20 mm dia x 3.00 m PVC Pipe	length	156.00															
EC.1.6	PVC Adapter Locknut, 20mm dia	pcs	212.00															
EC.1.7	PVC Elbow, 20mm dia	pcs	60.00															
EC.1.8	Utility Box, PVC, ga 16	pcs	6.00															
EC.1.9	Junction Box, PVC, ga 16	pcs	20.00															
EC.2	TELEPHONE / DATA / CABLE TV SYSTEM																	
	*Consumables such as Conduit Hangers and Supports (i.e. Unistrut channels, Full-threaded rods, expansion bolts, nuts and washers), Mica Tube, RJ-45/RJ-11/BNC/RG-6 Coax Connectors, Cable Ties shall be inclusive within the unit cost of each item																	
EC.2.1	Utility Box, PVC, ga 16	pcs	60.00															
EC.2.2	Junction Box, PVC, ga 16	pcs	6.00															
EC.2.3	20 mm dia x 3.00 m PVC Pipe	length	338.00															
EC.2.4	PVC Adapter Lock Nut, 20 mm dia	pcs	500.00															
EC.2.5	PVC Long Elbow, 20 mm dia	pcs	130.00															
EC.2.6	4 port Gigabit PoE Unmanaged Switch, 4 /10/100 PoE Ports,fully compliant to IEEE 802.3af and 802.3at PoE standards, transmission distance of more than 200m	set	2.00															

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				UNIT COST	TOTAL COST	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST		PROFIT	OCM	%	VALUE				VAT
(1)	(2)		(3)	(4a)	(4) = (4a) x (3)	(5a)	(5) = (5a) x (3)	(6a)	(6) = (6a) x (3)	(7) = (4) + (5) + (6)	(8)	(9)	(10) = (8) + (9)	(11) = (10) X (7)	(12) = % [(7) + (11)]	(13) = (11) + (12)	(14) = (7) + (13)	(15) = (14) / (3)
EC.2.7	24 Gigabit port Switch with 2 x SFP+ cages with 2 pieces Small Form Factor (SFP) Pluggable Module, Single LC UPC, 1.25G, Distance: 20 km, Wavelength: 1310nm / 1550nm in 1U rackmount case, Dual boot (RouterOS or SwitchOS), CPU core count: 1, CPU nominal frequency: 800 MHz, Operating System: RouterOS / SwitchOS, Size of RAM: 512 MB, Storage size: 16 MB, Storage type: FLASH, with all basic functionality for a managed switch, allows to manage port-to-port forwarding, apply MAC filter, configure VLANs, mirror traffic, apply bandwidth limitation and adjust some MAC and IP header fields, SFP cage supports both 1.25 Gb SFP and 10 Gb SFP+ modules	set	2.00															
EC.2.8	Cable Manager, Horizontal, Metal Frame with Cover, 1U	pcs	4.00															
EC.2.9	Cable TV Outlet w/ Plate and Cover (1-gang)	pcs	5.00															
EC.2.10	RJ-45 Outlet w/ Plate and Cover (1-gang)	pcs	44.00															
EC.2.11	RJ-45 Outlet w/ Plate and Cover (2-gang)	pcs	11.00															
EC.2.12	Patch Panel, 24-port Modular, CAT-6, Rackmount, 1000Mbps	pcs	4.00															
EC.2.13	RG-6 Coaxial Cable	m	220.00															
EC.2.14	Unshielded Twisted Pair (UTP) Cable, CAT-6, Pure Copper, Preferred Color: Gray/Blue	m	4,580.00															
EC.2.15	Uninterruptible Power Supply (UPS), Capacity: 650VA/360W or higher; Battery Backup and Surge Protector; On-Line Input Voltage 160-200VAC, single phase; Online Frequency Range 60Hz/60Hz 45 - 55Hz ±1Hz / 55 - 65Hz ±1Hz; Typical Recharge Time 4 hours to 90%; Outlet type and numbers IEC C13 x 4 / NEMA	set	4.00															
EC.2.16	Data Cabinet, wall mount, 12U, 600mm x 600mm (WxD), front glass door with lock, removable side panels, 19" rack, with 2 fans, with 2 fans, PDU, cagenuts and bolts.	set	2.00															
EC.2.17	IP Phone, compatible with Grandstream IP PBX, PoE, LCD, 2 FE Ports, 3 Program Keys	set	8.00															
EC.2.18	Cable Tray, 200mmx50mm, Hot-dipped galvanized sauzo 20, Detachable cover	m	8.00															
EC.2.19	Galvanized Steel Wire Mesh Cable Tray, W: 200mm H: 50mm, with Couplers, Clamp Plate, Nuts & Bolts included	m	139.00															
EC.2.20	Wi-Fi Access Point, 802.11ac, Long Range, 10/100/1000 Ethernet Port Networking Interface, 2.4 GHz Radio Rate: 450 Mbps, Sleek Wall or Ceiling Mount Design, 802.3af/A PoE Power Method, Gigabit PoE Adapter (24V, 0.5A) and Wall/Ceiling Kits included	set	6.00															
EC.2.21	Pull Box, Powder Coated, Gauge 16, 300mmx300mmx150mm, with Cover	set	5.00															
EC.2.22	Pull Box, Powder Coated, Gauge 16, 600mm x 600mm x 300mm with Cover	set	1.00															
EC.2.23	50mm Service Entrance Can, Die Cast Aluminum (1-1/2")	pcs	1.00															
EC.2.24	50mm dia x 3.00 m IMC Pipe (1-1/2")	length	1.00															
EC.2.25	IMC Adapter and Lock Nut, 50 mm dia	pcs	4.00															
EC.2.26	IMC Elbow, 50mm dia	pcs	2.00															
EC.2.27	Optical Distribution Frame (ODF), 8 SC ports with Pigtails, rackmount	set	1.00															
EC.2.28	Fiber Optic SC to SC Patchcord, Singlemode, 3 meters	piece	4.00															
EC.2.29	Fiber Optic Distribution box, indoor/outdoor, 8-port, with pigtails	set	1.00															
EC.2.30	Media Converter, Gigabit, Single Mode, with power adaptor	unit	2.00															
EC.2.31	Fiberoptic Cable, 4-core, singlemode, outdoor, armored, to be installed in a conduit with messenger wire. Inclusive of cable layout, installation up to the NOC, termination, fusion splicing, testing, and accessories (i.e. SC connectors, clamps, etc.)	m	260.00															
EC.3	PAGING SYSTEM																	
	*Consumables such as Conduit Hangers and Supports (i.e. Unistrut channels, Full-threaded rods, expansion bolts, nuts and washers), Mica Tube, RJ-45/RJ-11/BNC/RG-6 Coax Connectors, Cable Ties shall be inclusive within the unit cost of each item																	
EC.3.1	Speakers, Ceiling Mounted, 6", 6 W, with matching transformer, 101 volts	set	12.00															
EC.3.2	HDPE Conduit Pipe for speaker wire to be installed with stainless steel messenger wire and clamps where needed	length	230.00															
EC.3.3	Speaker Wire, #16, Stranded, Duplex (Red and Black)	m	510.00															
EC.3.4	Junction Box, PVC	pcs	12.00															
EC.3.5	20 mm dia x 3.00 m PVC Pipe	length	97.00															
EC.3.6	PVC Adapter Lock Nut, 20 mm dia	pcs	133.00															
EC.3.7	PVC Lone Elbow, 20 mm dia	pcs	38.00															
EC.4	CCTV SURVEILLANCE AND ACCESS CONTROL SYSTEM																	
	*Consumables such as Conduit Hangers and Supports (i.e. Unistrut channels, Full-threaded rods, expansion bolts, nuts and washers), Mica Tube, RJ-45/RJ-11/BNC/RG-6 Coax Connectors, Cable Ties shall be inclusive within the unit cost of each item																	
EC.4.1	4MP WDR Vari-focal Dome Network Camera Image Sensor: 1/3" Progressive Scan CMOS; Min. Illumination: 0.01Lux @(F1.2, AGC ON), 0.014 Lux @(F1.4, AGC ON), 0 Lux with IR; Shutter Speed: 1/3 s - 1/10,000 s; Lens: 2.8 - 12 mm @ F1.4, motorized lens (-Z), angle of view: 112°-33.8°; Angle Adjustment: Pan: 0° - 355°, Tilt: 0° - 75°, Rotation: 0° - 355°; Day & Night: IR cut filter with auto switch; WDR: 120dB; Max. Resolution: 2688x1520; Power: 12V DC±25%, PoE (802.3af, class 3); Max. 5.5 W	set	6.00															
EC.4.2	4 MP Built-in Mic Fixed Dome Network Camera, 2.8 mm lens High quality imaging with 4 MP resolution Efficient H.265+ compression technology Clear imaging against strong back light due to 120 dB true WDR technology Built-in microphone for real-time audio security Water and dust resistant (IP66) and vandal proof (IK10) Robust structure design with full metal materials	set	18.00															
EC.4.3	Network Camera, Bullet, 4MP, 1/2.8" Progressive Scan CMOS, Color: 0.028 Lux @ (F2.0, AGC ON), 0 Lux with IR, 4mm Lens Type, IR Range Up to 30m or higher, Max Resolution: 1920 x 1080 or higher @30fps, IP67, 120dB WDR H 765+H 765H 764+H 764	set	6.00															

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				UNIT COST	TOTAL COST	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST		PROFIT	OCM	%	VALUE				VAT
(1)	(2)		(3)	(4a)	(4) = (4a) x (3)	(5a)	(5) = (5a) x (3)	(6a)	(6) = (6a) x (3)	(7) = (4) + (5) + (6)	(8)	(9)	(10) = (8) + (9)	(11) = (10) X (7)	(12) = % [(7) + (11)]	(13) = (11) + (12)	(14) = (7) + (13)	(15) = (14) / (3)
EC.4.4	Network Video Recorder, 16-ch 1.5U 16 PoE 4K NVR, Up to 16 channel IP cameras can be connected, Supports decoding H.265+/H.265/H.264+/H.264 video formats, Up to 12 MP high-definition live view, storage and playback, 4 HDDs for continuous video recording, Plug & Play with 16 Power-over-Ethernet (PoE) interfaces	set	3.00															
EC.4.5	Hard Disk, 4 TB, for Surveillance/CCTV	set	3.00															
EC.4.6	16 Port Fast Ethernet Smart POE Switch • 16 x 100 Mbps PoE RJ45 ports, 2 x gigabit combos. • IEEE 802.3at/af standard for PoE ports. • Network topology management, alarm push, network health monitor. • 6 KV surge protection for PoE ports. • AE/AT cameras can reach up to 300 m in extend mode	set	3.00															
EC.4.7	24-Port Gigabit L2 Managed Switch with 4 SFP Slots Gigabit Ethernet connections on all ports provide full speed of data transferring L2+ feature — Static Routing, helps route internal traffic for more efficient use of network resources IP-MAC-Port Binding, ACL, Port Security, DoS Defend, Storm control, DHCP Snooping, 802.1X Authentication and Radius provide you robust security strategies L2/L3/L4 QoS and IGMP snooping optimize voice and video application IPv6 support with dual IPv4/IPv6 stack, MLD snooping, IPv6 neighbor discovery Web, CLI Console Port, Telnet, SSH, SNMP, RMON and Dual In-band management policies.	set	1.00															
EC.4.8	Unshielded Twisted Pair (UTP) Cable, CAT-6, Pure Copper, Preferred Color: Orange/Red/Green/Yellow	m	2,100.00															
EC.4.9	32" LED 4K UHD Monitor with Bracket and HDMI cable (at least 3m)	set	3.00															
EC.4.10	20 mm dia x 3.00 m PVC Pipe	length	150.00															
EC.4.11	PVC Adapter Lock Nut, 20 mm dia	pcs	226.00															
EC.4.12	PVC Long Elbow, 20 mm dia	pcs	61.00															
EC.4.13	Square Box/Pull Box, PVC, 6"x6"	pcs	66.00															
EC.4.14	Data Cabinet, wall mount, 6U, 600mm x 600mm (WxD), front glass door with lock, removable side panels, 19" rack, with 2 fans, with 2 fans, PDU, cagenuts and bolts.	set	2.00															
EC.4.15	Access Control System, Face Recognition Terminal Max.3000 faces capacity and Max.3000 cards, Supports TCP/IP, Face Recognition Terminal, 4.3-inch LCD touch screen,2 Mega pixel wide-angle lens,Built-in Mifare card reading module, Supports ISUP5.0, ISAPI, Configuration via the web client, Face recognition, Distance: 0.5 m to 1.5 m, Two-way audio with client software, indoor station, and master station ,Duration < 0.2 s/User, Accuracy rate ≥ 99%, IP65	set	2.00															
EC.4.16	Magnetic Door Lock (Single Door), Input Voltage: DC12V/DC24V, LED indicator displays door lock status; Inclusive of Bracket, Door Contact, Contactless Infrared Exit Button, and Wires	set	2.00															
EC.4.17	Uninterruptible Power Supply (UPS), Access Control Switching Power Supply Box with Battery Backup included, 12V-20A-18CH, Modulation Method: Pulse width modulation (PWM), Transistor Connection: Full bridge, Overdischarge protection, Wall-mounted, Cooling Fan Type: Natural cooling	set	2.00															
EC.4.18	Utility Box, PVC sa 16	pcs	4.00															
EC.5	NURSE CALL SYSTEM (ROUGHING-INS ONLY)																	
	*Consumables such as Conduit Hangers and Supports (i.e. Unistrut channels, Full-threaded rods, expansion bolts, nuts and washers), Mica Tube, RJ-45/RJ-11/BNC/RG-6 Coax Connectors, Cable Ties shall be inclusive within the unit cost of each item.																	
EC.5.1	Unshielded Twisted Pair (UTP) Cable, CAT-6, Pure Copper, Preferred Color: Orange/Red/Green/Yellow	m	550.00															
EC.5.2	Blank Plate with Cover, Wide Series	pcs	15.00															
EC.5.3	Utility Box, PVC sa 16	pcs	15.00															
EC.5.4	Square Box/Pull Box, PVC, 6"x6" with Cover	pcs	5.00															
EC.5.5	20 mm dia x 3.00 m PVC Pipe	length	180.00															
EC.5.6	PVC Adapter Lock Nut, 20 mm dia	pcs	250.00															
EC.5.7	PVC Long Elbow, 20 mm dia	pcs	70.00															
	sub-total																	
P&S	PLUMBING AND SANITARY WORKS																	
	* Consumables such as teflon tape, pvc cement, hangers, clamps, threaded rod, etc shall be inclusive within the unit cost of each item																	
P&S.1	PLUMBING FIXTURES																	
	* See specifications on plumbing fixtures																	
P&S.1.1	Regular Water Closet Type 1 w/ Complete Accessories	set	7.00															
P&S.1.2	Pedestal Lavatory Type 1 w/ Complete Accessories	set	7.00															
P&S.1.3	Wash Sink, With stand Type 1 w/ Complete Accessories	set	6.00															
P&S.1.4	Wash Sink, Undercounter Type 1 w/ Complete Accessories	set	1.00															
P&S.1.5	Shower with faucet Type 1 w/ Complete Accessories	set	6.00															
P&S.1.6	Slop Sink Type 1 w/ Complete Accessories	set	2.00															
P&S.1.7	Emergency Eye Shower w/ Complete Accessories	set	6.00															
P&S.1.11	Floor Drain * Heavy Duty Stainless Steel (SUS304), 4" x 4" Square Type w/ Strainer	set	12.00															
P&S.1.12	Facial Mirror *6mm Thk Mirror, w/ 6mm thk Marine plywood Backing	sq.m	4.00															
P&S.1.13	Toilet Tissue Holder (Single) * Accessories: Mounting accessories, etc	set	24.00															
P&S.1.14	Recessed Soap Dish, S/S * Accessories: Mounting accessories, etc	set	14.00															
P&S.1.15	Dome Type Stainless steel Floor Drain with Strainer * Accessories: Mounting accessories, etc	set	10.00															

PROPOSED COMPLETION OF BGHMC 3-STOREY BUILDING FOR ISOLATION ROOMS

BILL OF QUANTITIES

Item No.	DESCRIPTION	UNIT	QTY	MATERIALS		LABOR		EQUIPMENT		ESTIMATED DIRECT COST	MARK-UPS IN %		TOTAL MARK-UP		TOTAL INDIRECT COST	TOTAL COST	TOTAL UNIT COST	
				UNIT COST	TOTAL COST	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST		PROFIT	OCM	%	VALUE				VAT
(1)	(2)		(3)	(4a)	(4) = (4a) x (3)	(5a)	(5) = (5a) x (3)	(6a)	(6) = (6a) x (3)	(7) = (4) + (5) + (6)	(8)	(9)	(10) = (8) + (9)	(11) = (10) X (7)	(12) = % [(7) + (11)]	(13) = (11) + (12)	(14) = (7) + (13)	(15) = (14) / (3)
P&S.2	WATER SUPPLY																	
	* use different pipe color/lining for cold water line and hot water line																	
P&S.2.1	63 mm Ø (PN 20) - PPR	In.m	16.00															
P&S.2.2	32 mm Ø (PN 20) - PPR	In.m	50.00															
P&S.2.3	25 mm Ø (PN 20) - PPR	In.m	140.00															
P&S.2.4	20 mm Ø (PN 20) - PPR	In.m	180.00															
P&S.2.5	2" Dia Gate Valve (PN20) - (Body= Cast Bronze, Bonnet=Forged Brass, Stem=Special Brass, Disk=Cast Bronze)	Pcs	2.00															
P&S.2.6	1" Dia Gate Valve (PN20) - (Body= Cast Bronze, Bonnet=Forged Brass, Stem=Special Brass, Disk=Cast Bronze)	Pcs	4.00															
P&S.2.7	3/4" Dia Gate Valve (PN20) - (Body= Cast Bronze, Bonnet=Forged Brass, Stem=Special Brass, Disk=Cast Bronze)	Pcs	2.00															
P&S.2.8	2" Dia Check Valve (Lift Type) - Brass Body (PN20)	Pcs	1.00															
P&S.2.9	1" Dia Check Valve (Lift Type) - Brass Body (PN20)	Pcs	3.00															
P&S.2.10	3/4" Dia Check Valve (Lift Type) - Brass Body (PN20)	Pcs	3.00															
P&S.2.11	3/4" Dia Float Valve (Lift Type) - Brass Body (PN20)	Pcs	2.00															
P&S.2.12	1" Dia PPR Gate Valve (PN20)	Pcs	9.00															
P&S.2.13	3/4" Dia PPR Gate Valve (PN20)	Pcs	12.00															
P&S.2.14	1/2" Dia PPR Gate Valve (PN20)	Pcs	40.00															
P&S.2.15	63 mm Dia Tee - PPR	Pcs	2.00															
P&S.2.16	63 mm x 32 mm Dia Tee Reducer - PPR	Pcs	6.00															
P&S.2.17	63 mm x 25 mm Dia Tee Reducer - PPR	Pcs	2.00															
P&S.2.18	63 mm x 20 mm Dia Tee Reducer - PPR	Pcs	2.00															
P&S.2.19	32 mm Dia Tee - PPR	Pcs	10.00															
P&S.2.20	32 mm x 25 mm Dia Tee Reducer - PPR	Pcs	16.00															
P&S.2.21	32 mm x 20 mm Dia Tee Reducer - PPR	Pcs	10.00															
P&S.2.22	25 mm Dia Tee - PPR	Pcs	20.00															
P&S.2.23	63 mm Dia Union - PPR	Pcs	4.00															
P&S.2.24	32 mm Dia Union - PPR	Pcs	10.00															
P&S.2.25	25 mm Dia Union - PPR	Pcs	10.00															
P&S.2.26	20 mm Dia Union - PPR	Pcs	5.00															
P&S.2.27	63 mm Dia End Cap - PPR	Pcs	4.00															
P&S.2.28	32 mm Dia End Cap - PPR	Pcs	10.00															
P&S.2.29	25 mm Dia End Cap - PPR	Pcs	15.00															
P&S.2.30	20 mm Dia End Cap - PPR	Pcs	40.00															
P&S.2.31	63 mm Dia 90 deg Elbow - PPR	Pcs	4.00															
P&S.2.32	32 mm Dia 90 deg Elbow - PPR	Pcs	25.00															
P&S.2.33	25 mm Dia 90 deg Elbow - PPR	Pcs	32.00															
P&S.2.34	20 mm Dia 90 deg Elbow - PPR	Pcs	92.00															
P&S.2.35	63 mm Dia Coupling - PPR	Pcs	4.00															
P&S.2.36	32 mm Dia Coupling - PPR	Pcs	75.00															
P&S.2.37	25 mm Dia Coupling - PPR	Pcs	36.00															
P&S.2.38	25 mm Dia Coupling - PPR	Pcs	75.00															
P&S.2.39	20 mm Dia x 1/2" Female Threaded Tee- PPR	Pcs	82.00															
P&S.2.40	20 mm Dia x 1/2" Male Threaded Tee- PPR	Pcs	10.00															
P&S.2.41	63 mm Dia x 2" Male Threaded Coupling- PPR	Pcs	10.00															
P&S.2.42	32 mm Dia x 1" Male Threaded Coupling- PPR	Pcs	20.00															
P&S.2.43	25 mm Dia x 3/4" Male Threaded Coupling- PPR	Pcs	8.00															
P&S.2.44	Water Meter	Pcs	1.00															
P&S.2.45	Pressure Gauge	Pcs	2.00															
P&S.2.46	Automatic Pump Switch	Pcs	1.00															
P&S.2.47	Pressure Switch	Pcs	1.00															
P&S.2.48	Pressure Tank (Stainless Steel, 120 Gal capacity, Vertical Type)	Pcs	1.00															
P&S.2.49	1.5 Hp Jet Pump (230 Volts, 1-Phase, 60 Hz)	set	1.00															
P&S.3	WASTEWATER DRAINAGE & VENT																	
P&S.3.1	150 mm Dia uPVC Pipe (s-1000)	In.m	30.00															
P&S.3.2	100 mm Dia uPVC Pipe (s-1000)	In.m	80.00															
P&S.3.3	75 mm Dia uPVC Pipe (s-1000)	In.m	50.00															
P&S.3.4	50 mm Dia uPVC Pipe (s-1000)	In.m	300.00															
P&S.3.5	150 mm X 150 mm Wye - uPVC	Pcs	3.00															
P&S.3.6	150 mm X 100 mm Wye - uPVC	Pcs	6.00															
P&S.3.7	150 mm X 75 mm Wye - uPVC	Pcs	1.00															
P&S.3.8	150 mm X 50 mm Wye - uPVC	Pcs	1.00															
P&S.3.9	100 mm X 100 mm Wye - uPVC	Pcs	25.00															
P&S.3.10	100 mm X 75 mm Wye - uPVC	Pcs	5.00															
P&S.3.11	100 mm X 50 mm Wye - uPVC	Pcs	2.00															
P&S.3.12	75 mm X 75 mm Wye - uPVC	Pcs	1.00															
P&S.3.13	75 mm X 50 mm Wye - uPVC	Pcs	1.00															
P&S.3.14	50 mm X 50 mm Wye - uPVC	Pcs	1.00															
P&S.3.15	150 mm X 150 mm Sanitary Tee - uPVC	Pcs	2.00															
P&S.3.16	150 mm X 100 mm Sanitary Tee - uPVC	Pcs	2.00															
P&S.3.17	150 mm X 75 mm Sanitary Tee - uPVC	Pcs	3.00															
P&S.3.18	150 mm X 50 mm Sanitary Tee - uPVC	Pcs	1.00															
P&S.3.19	100 mm X 100 mm Sanitary Tee - uPVC	Pcs	10.00															
P&S.3.20	100 mm X 75 mm Sanitary Tee - uPVC	Pcs	5.00															
P&S.3.21	100 mm X 50 mm Sanitary Tee - uPVC	Pcs	67.00															

(NAME AND SIGNATURE OF AUTHORIZED REPRESENTATIVE)
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BILL OF QUANTITIES

Item No.	DESCRIPTION	UNIT	QTY	MATERIALS		LABOR		EQUIPMENT		ESTIMATED DIRECT COST	MARK-UPS IN %		TOTAL MARK-UP		TOTAL INDIRECT COST	TOTAL COST	TOTAL UNIT COST	
				UNIT COST	TOTAL COST	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST		PROFIT	OCM	%	VALUE				VAT
(1)	(2)		(3)	(4a)	(4) = (4a) x (3)	(5a)	(5) = (5a) x (3)	(6a)	(6) = (6a) x (3)	(7) = (4) + (5) + (6)	(8)	(9)	(10) = (8) + (9)	(11) = (10) X (7)	(12) = % [(7) + (11)]	(13) = (11) + (12)	(14) = (7) + (13)	(15) = (14) / (3)
P&S.3.22	75 mm X 75 mm Sanitary Tee - uPVC	Pcs	6.00															
P&S.3.23	75 mm X 50 mm Sanitary Tee - uPVC	Pcs	6.00															
P&S.3.24	50 mm X 50 mm Sanitary Tee - uPVC	Pcs	150.00															
P&S.3.25	150 mm 90 Deg Elbow - uPVC	Pcs	3.00															
P&S.3.26	100 mm 90 Deg Elbow - uPVC	Pcs	45.00															
P&S.3.27	75 mm 90 Deg Elbow - uPVC	Pcs	6.00															
P&S.3.28	50 mm 90 Deg Elbow - uPVC	Pcs	155.00															
P&S.3.29	150 mm 45 Deg Bend - uPVC	Pcs	3.00															
P&S.3.30	100 mm 45 Deg Bend - uPVC	Pcs	30.00															
P&S.3.31	75 mm 45 Deg Elbow - uPVC	Pcs	5.00															
P&S.3.32	50 mm 45 Deg Elbow - uPVC	Pcs	6.00															
P&S.3.33	150 mm Dia Cleanout - uPVC	Pcs	2.00															
P&S.3.34	100 mm Dia Cleanout - uPVC	Pcs	35.00															
P&S.3.35	75 mm Dia Cleanout - uPVC	Pcs	12.00															
P&S.3.36	50 mm Dia Cleanout - uPVC	Pcs	23.00															
P&S.3.37	50 mm U-Trap -uPVC	Pcs	80.00															
P&S.3.38	25 mm Ø PVC Pipe (Blue) for Airconditioning unit condensate	In.m	120.00															
P&S.4	EQUIPMENT																	
P&S.4.1	7700 L Stainless Steel Water Tank (2mm thk) with Stand (Horizontal Type)	set	2.00															
P&S.4.2	1.5 Hp Jet Pump (230 Volts, 1-Phase, 60 Hz)	set	1.00															
	sub-total																	
F	FIRE PROTECTION WORKS																	
	* Consumables such as teflon tape, welding rod, gasket maker, etc shall be inclusive within the unit cost of each item * Angle bars, hangers, threaded rod, u-bolt, washers, nuts, painting of pipes & hangers, sleeves, etc shall be inclusive within the unit cost of each item																	
F1	FIRE PROTECTION PIPE SYSTEM																	
F1.1	100 mm Dia Schedule 40 B.I. Pipe	In.m	60.00															
F1.2	65 mm Dia Schedule 40 B.I. Pipe	In.m	80.00															
F1.3	50 mm Dia Schedule 40 B.I. Pipe	In.m	14.00															
F1.4	40 mm Dia Schedule 40 B.I. Pipe	In.m	34.00															
F1.5	32 mm Dia Schedule 40 B.I. Pipe	In.m	12.00															
F1.6	25 mm Dia Schedule 40 B.I. Pipe	In.m	120.00															
F1.7	Tee 100mm x 100mm	pcs	2.00															
F1.8	Tee 65mm x 65mm	pcs	6.00															
F1.9	Tee 40mm x 50mm	pcs	2.00															
F1.10	Tee 40mm x 40mm	pcs	40.00															
F1.11	Tee 32mm x 32mm	pcs	52.00															
F1.12	Tee 25mm x 25mm	pcs	110.00															
F1.13	Tee Reducer 32mm x 25mm	pcs	10.00															
F1.14	Bell Reducer 100mmx65mm	pcs	2.00															
F1.15	Bell Reducer 65mmx50mm	pcs	2.00															
F1.16	Bell Reducer 40mmx25mm	pcs	8.00															
F1.17	Bell Reducer 32mmx25mm	pcs	55.00															
F1.18	Bell Reducer 25mmx15mm	pcs	45.00															
F1.19	Elbow 100mm	pcs	8.00															
F1.20	Elbow 65mm	pcs	3.00															
F1.21	Elbow 40mm	pcs	8.00															
F1.22	Elbow 32mm	pcs	14.00															
F1.23	Elbow 25mm	pcs	180.00															
F1.24	End cap 100mm	pcs	2.00															
F1.25	End cap 75mm	pcs	1.00															
F1.26	End cap 32mm	pcs	2.00															
F1.27	End cap 25mm	pcs	2.00															
F1.28	Slip-O-Flange 100 mm w/ bolts, nuts and gasket	pcs	9.00															
F1.29	Slip-O-Flange 65 mm w/ bolts, nuts and gasket	pcs	14.00															
F1.30	Blind Flange 65 mm	pcs	2.00															
F1.31	Sight Glass 2"	pcs	2.00															
F1.32	Union Patente 2"	pcs	2.00															
F2	FIRE PROTECTION DEVICES & ACCESSORIES																	
F2.1	Sprinkler Head (Pendant type with escutcheon)	set	44.00															
F2.2	Sprinkler Head (Unrjght)	set	2.00															
F2.3	OS & Y Gate Valve with Supervisory Switch (65mm)	set	2.00															
F2.4	Water Flow Switch (65mm)	set	2.00															
F2.5	Gate Valve (100mm)	set	2.00															
F2.6	Gate Valve (50mm)	set	2.00															
F2.7	Check Valve (100mm)	set	1.00															
F2.8	Fire Department Connection (3-way)	set	1.00															
F2.9	Fire Hose Cabinet	set	2.00															
F2.10	Portable Fire Extinguisher w/ Housing	set	16.00															
	sub-total																	

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Item No.	DESCRIPTION	UNIT	QTY	MATERIALS		LABOR		EQUIPMENT		ESTIMATED DIRECT COST	MARK-UPS IN %		TOTAL MARK-UP		TOTAL INDIRECT COST	TOTAL COST	TOTAL UNIT COST	
				UNIT COST	TOTAL COST	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST		PROFIT	OCM	%	VALUE				VAT
(1)	(2)		(3)	(4a)	(4) = (4a) x (3)	(5a)	(5) = (5a) x (3)	(6a)	(6) = (6a) x (3)	(7) = (4) + (5) + (6)	(8)	(9)	(10) = (8) + (9)	(11) = (10) X (7)	(12) = % [(7) + (11)]	(13) = (11) + (12)	(14) = (7) + (13)	(15) = (14) / (3)
H	HVAC WORKS																	
	* Consumables such as teflon tape, welding rod, solder wires, solder flux, etc shall be inclusive within the unit cost of each item. * Angle bars, hangers, threaded rod, u-bolt, washers, nuts, painting of pipes & hangers, sleeves, c-clamps w/ screw, etc shall be inclusive within the unit cost of each item.																	
H.1	AIR CONDITIONING DEVICES & ACCESSORIES * Includes mounting platform and accessories																	
H.1.1	FCU/ACCU * Includes mounting accessories, NEMA-3R enclosures with properly sized Overcurrent Protective Device, load side wiring installation from outdoor unit to indoor unit in liquid tight flexible conduit																	
H.1.1.1	Ceiling Concealed Ducted/Split Type 5.0 TN, AC Unit, *230v-3ph-60hz - inverter type, includes stainless steel drip pan	set	8.00															
H.1.1.2	Ceiling Concealed Ducted/Split Type 3.0 TN, AC Unit, *230v-3ph-60hz - inverter type, includes stainless steel drip pan	set	3.00															
H.1.2	FAN FILTER UNITS: Laminar Flow Complete with 99.995% Hepa Filter (0.3 Micron) Roomside Removable Filter Type, Equipped with PSC or ECM Motor & Instant Filter & Motor Status Led Light Indicator																	
H.1.2.1	610mm x 1200mm x 290mm, 1 Phase, 230V, 60 Hz, 800 CFM	set	5.00															
H.1.3	Copper tube refrigerant line with rubber insulation and Polyethylene Tape																	
H.1.3.3	5/8" Diameter Copper tube refrigerant line with 1" thick rubber insulation and Polyethylene Tape	ln.m	110.00															
H.1.3.4	3/4" Diameter Copper tube refrigerant line with 1" thick rubber insulation and Polyethylene Tape	ln.m	280.00															
H.1.4	Fans And Blowers Includes Mounting Platform, Shed Roofing and accessories, NEMA-3R enclosures with properly sized Overcurrent Protective Device, load side wiring installation from outdoor control to indoor control in liquid tight flexible conduit																	
H.1.4.1	CENTRIFUGAL BLOWER (3000 CFM, 5" sp pressure, @220V, 3Phase)	set	10.00															
H.1.4.5	CEILING CASSETTE - 1 Phase, 230 V, 60 Hz, 100 CFM (Industrial Type)	set	5.00															
H.1.5	Filter Housing																	
H.1.5.2	HEPA Filter with Housing for Exhaust, SUS Construction HHEPA Filter Chamber for Exhaust, Compatible with 600mm x 600mm HEPA Filter, Stainless Steel (SUS 304) Body, Filter must be easy to replace. Note: Includes 2 set (610 mm x 610 mm x 290 mm) and 2 set Pre Filter - 30% Efficiency (610 mm x 610 mm x 46 mm)	set	10.00															
H.2	HVAC DUCTING WORKS																	
H.2.1	Fabricated Ducting System (Supply duct, Exhaust duct, Return duct) * Includes Ga 24 Duct (Assorted sizes), Polyethylene Foam Insulation 25mm thk w/ One sided Aluminum backing , Duct Gasket, Duct Tape, Elastomeric Duct Sealant, Cement Adhesive, Corner Angle, TDC Clip, Bolts and Nuts, Blind Rivet, supports, and other accessories.	sq.m	380.00															
H.2.2	Spiral Ducting System, 500mmØ (Supply duct, Exhaust duct, Return duct) * Spiral Duct, Elbows, Reducers, Polyethylene Foam Insulation 25mm thk w/ One sided Aluminum backing , Duct Gasket, Duct Tape, Elastomeric Duct Sealant, Cement Adhesive, Bolts and Nuts, Blind Rivet, supports, and other accessories.	ln.m.	30.00															
H.2.3	Supply Air Diffuser (4-way w/ OBVD), 200mm x 200mm, Powder Coated	set	10.00															
H.2.4	Supply Air Grille, 300mm x 300mm, Stainless Steel (SUS), Double Deflection w/ OBVD	set	54.00															
H.2.5	Return Air Grille, 200mm x 200mm, Stainless Steel (SUS), Single Deflection w/ OBVD	set	10.00															
H.2.7	Exhaust Air Grille, 200mm x 200mm, Stainless Steel (SUS), Single Deflection w/ OBVD	set	115.00															
H.2.8	100 mm Diameter Air Vent Round Cover, Stainless Steel (SUS)	set	5.00															
H.2.9	Fresh Air Wall Louver with anti-insect screen, 600 mm x 600 mm ,Stainless Steel (SUS)	set	11.00															
H.2.10	Manual Volume Dampers 300 mm x 300 mm	set	12.00															
H.2.11	Manual Volume Dampers 200 mm x 200 mm	set	20.00															
H.2.12	GI Manual Volume Damper 500mm x 500mm	set	10.00															
H.2.13	GI Round Back Draft Damper 500mmØ	set	10.00															
H.3	MONITORING, CONTROLS AND ALARMS																	
H.3.1	3-Phase Control panel Assembly for Blower, Airconditioning Unit and Fan Filter Unit control and monitoring (Illuminated Push Button Switches NO/NC Combination (Green for "On" Red for "OFF", Magnetic contactors/relay, Overload protection for fans, NEMA 3r Enclosure, Adjustable time delay switches/ timers), Digital Display of Motor Operational Parameters (Line-to-line current, line voltage, phase power, phase balance/imbalance, motor speed, frequency), etc)	sets	10.00															
H.3.2	Variable Frequency Drive, 5kW, 240V, 3Ph, 60Hz, (Includes wiring and connection to Item H.3.1)	sets	10.00															
H.3.3	Differential Pressure Gauges w/ pressure sensing and alarm Specifications: Pressure Gauge with pressure sensing (two adjustable set point dial) Alarm: Audible and visual (color red) Pressure Units: Pascals Pressure Range: Negative 60 Pascals to Positive 60 Pascals Electrical Requirements: 220V, 60 Hz, 1 Phase Additional Accessories: Stainless Steel housing, 1/8" diameter x 20' long transparent hose, thread accessories.	sets	9.00															

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BILL OF QUANTITIES

Item No.	DESCRIPTION	UNIT	QTY	MATERIALS		LABOR		EQUIPMENT		ESTIMATED DIRECT COST	MARK-UPS IN %		TOTAL MARK-UP			TOTAL INDIRECT COST	TOTAL COST	TOTAL UNIT COST
				UNIT COST	TOTAL COST	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST		PROFIT	OCM	%	VALUE	VAT			
(1)	(2)		(3)	(4a)	(4) = (4a) x (3)	(5a)	(5) = (5a) x (3)	(6a)	(6) = (6a) x (3)	(7) = (4) + (5) + (6)	(8)	(9)	(10) = (8) + (9)	(11) = (10) X (7)	(12) = % [(7) + (11)]	(13) = (11) + (12)	(14) = (7) + (13)	(15) = (14) / (3)
H.3.4	Differential Pressure Gauges (w/o alarm) Specifications: Pressure Gauge Pressure Units: Pascals Pressure Range: Negative 60 Pascals to Positive 60 Pascals Additional Accessories: Stainless Steel housing, 1/8" diameter x 20' long transparent hose, thread accessories.	sets	9.00															
	sub-total																	
EQ	EQUIPMENT																	
EQ.1	SUPPLY AND INSTALLATION OF ELEVATOR	set	1.00															
	Specifications: Capacity (KG): 1600kgs /20 Speed (m/s) : 1.0 m/s Floor & Stops: 3 Floors / 3 Stops * See attached documents for complet specifications, inclusions and other requirements																	
	sub-total																	
	TOTAL																	

INSTRUCTIONS TO BIDDERS

*Testing of materials and systems must be included within the unit cost of each items.

*Part of this Bill of quantities is the Plans, and Technical specifications

* Do not remove / omit / reduce items

* Follow computation format provided

* Do not fill-up darken " [redacted] portions

* All pages must be signed by the bidder's authorized representative