

PROPOSED RENOVATION OF OPHTHA WARD FOR SLEEP LABORATORY

BILL OF QUANTITIES

PROJECT TITLE: ONE (1) LOT LABOR AND MATERIALS FOR THE PROPOSED RENOVATION OF OPHTHA WARD FOR SLEEP LABORATORY

APPROVED BUDGET FOR THE CONTRACT: 1,300,000.00 PESOS ONLY

CONTRACT DURATION: 70 CALENDAR DAYS

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)
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 Baracks * Note: Workers barracks must be off-site	lot	1.00															
G.4	Provisions for Health, Security and Safety * Includes PPE, Board-up, Fences, Safety signaages, Directional signaages * Includes standard protocols to protect both workers and the public (Perimeter wall, safety nets, inverted umbrella, etc). * Implementation of DOLE Approved Construction Safety and Health Program	lot	1.00															
	sub-total																	
ES	EARTH WORKS / SITE WORKS																	
ES.1	Demolition of Existing Structure * Dismantling of existing MEFPS System * Demolition of existing Wall, Ceiling * Provision for MEFPS Lines * Includes Hauling of Materials	lot	1.00															
ES.2	Structural Excavation w/ Hauling	cu.m	3.00															
ES.3	Embankment / Backfilling and Compaction	cu.m	12.00															
	sub-total																	
S	STRUCTURAL WORKS																	
S.1	RC RAMP																	
S.1.1	Structural Concrete (3000 PSI @ 28 days pouring, curing)	cu.m	2.00															
S.1.2	Reinforcing Bars (Grade 33, Fabrication, Installation)	kgs	150.00															
S.1.3	Formworks and Falseworks (Fabrication, Installation, and Stripping)	sq.m	2.00															
	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	37.00															
C.1.1.1	Sleebs Laboratory	sq.m	37.00															
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	69.00															
C.1.2.1	Sleebs Laboratory	sq.m	69.00															
C.2	PLASTERING WORKS																	
C.2.1	Cement Plaster Finish (Interior) * Components: Portland Cement, Fine Sand, Miscellaneous items	sq.m	222.00															
C.2.1.1	Sleebs Laboratory	sq.m	222.00															
C.2.2	Cement Plaster Finish (Exterior.) * Components: Portland Cement, Fine Sand, Provision of Grooves, Concrete Molding Design, Miscellaneous items * Work item includes provision of Grooves, Emboss, Moulding, and other plastering designs.	sq.m	15.00															
C.2.2.1	Exterior	sq.m	15.00															
C.3	STIFFNER COLUMN																	
C.3.1	150 mm x 200 mm * Components: 3000 PSI Concrete Mix, Grade 33 RSB, Tie wires, Formworks, Miscellaneous items	ln.m	9.00															
C.3.1.1	Sleebs Laboratory	ln.m	9.00															
C.3.2	100 mm x 200 mm	ln.m	9.00															
C.3.2.1	Sleebs Laboratory	ln.m	9.00															
C.4	STIFFNER BEAM / LINTEL BEAM																	
C.4.1	150 mm x 200 mm * Components: 3000 PSI Concrete Mix, Grade 33 RSB, Tie wires, Formworks, Miscellaneous items	ln.m	6.00															
C.4.1.1	Sleebs Laboratory	ln.m	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)	
C.4.2	100 mm x 200 mm	ln.m	2.00																
C.4.2.1	Sleeb Laboratory	ln.m	2.00																
	sub-total																		
A	ARCHITECTURAL FINISHES																		
A.1	FLOOR FINISH																		
A.1.1	Non-Directional Vinyl Roll Floor Finish (F-2)	sq.m	28.00																
	* Components: 2mm Roll-Form, Anti-static, Anti-Bacterial Homogeneous Vinyl, Non-directional (Installation shall be based on manufacturer's standard), Capping Strip, Cove Former, Adhesive, Contact Cement, Floor Topping (Plain Cement Finish)/Self Leveling Grout, Miscellaneous items																		
A.1.1.1	Sleeb Laboratory	sq.m	28.00																
A.1.2	Vinyl Tile Floor Finish (F-2b) (Size: 300mm x 300 mm x 3mm)	sq.m	55.00																
	* Components: Specified Vinyl Tiles, Anti-static, Anti-Bacterial Homogeneous Vinyl, (Installation shall be based on manufacturer's standard), Floor Topping (Plain Cement Finish)/Self Leveling Grout, Adhesive, Contact Cement, Miscellaneous items																		
A.1.2.1	Sleeb Laboratory	sq.m	55.00																
A.1.3	Non-Skid Porcelain Floor Tile Finish (F-4) (Size: 300mm X 300mm)	sq.m	7.00																
	*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)																		
A.1.3.1	Sleeb Laboratory	sq.m	7.00																
A.1.1	3mm x 40mm Anodized Metal Transition strip	ln.m	4.00																
A.1.1.1	Sleeb Laboratory	ln.m	4.00																
A.1.3	Waterproofing and water sealing	sq.m	7.00																
	* Components: Ready to apply (pre-mixed) polyurethane elastomeric seamless waterproofing membrane, Miscellaneous items																		
A.1.3.1	Sleeb Laboratory	sq.m	7.00																
A.2	WALL FINISH																		
A.2.1	12 thk. High Impact Resistant Gypsum Board Finish (W-7a))	sq.m	88.00																
	*Components: 12mm thk High impact resistant gypsum board (1 hour fire rating), 76mm x 0.6mm G.I. Studs spaced @ 406 mm O.C., 50mm thk 14kg/cu.m. glass mineral wool, Rivets, Gypsum screw, Concrete nail, consumables. * Studs must be supported from flooring to slab/beam soffit * Quantity of area is based on one face of wall covered by gypsum finish only																		
A.2.1.1	Sleeb Laboratory	sq.m	88.00																
A.2.2	Porcelain Wall Tile Finish (W-5a) (Size: 600mm X 600mm)	sq.m	26.00																
	*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)																		
A.2.2.1	Sleeb Laboratory	sq.m	26.00																
A.3	CEILING FINISH																		
A.3.1	6mm thk Fiber Cement Board Finish (C-3)	sq.m	74.00																
	*Components: 4' x 8' x 6mm 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																		
A.3.1.1	Sleeb Laboratory	sq.m	74.00																
A.3.2	Fiber Mineral Acoustic Ceiling Finish (C-5)	sq.m	10.00																
	*Components: 600mm x 600mm / 1200mm x 600mm Fiber Mineral Acoustic Tiles, Powder Coated Grid System, GI Hanger Wire Guage #10, Steel angle bracket, 3/8" Hex bolt w/ washer, Concrete Nails, Miscellaneous items																		
A.3.2.1	Sleeb Laboratory	sq.m	10.00																
A.3.3	PVC Ceiling Panel Finish (C-7, Wood Series Design)	sq.m	8.00																
	*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																		
A.3.3.1	Sleeb Laboratory	sq.m	8.00																
A.3.4	PVC Ceiling Panel Finish (C-7a, Bamboo Chaddine Type)	sq.m	21.00																
	*Components: Ba, 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																		
A.3.4.1	Sleeb Laboratory	sq.m	21.00																
A.4	CABINETS, COUNTER, LOCKERS																		
A.4.1	3/4"x4'x8' Marine Plywood (Fabrication, Installation)	sq.m	6.00																
A.4.2	1/4"x4'x8' Marine Plywood (Fabrication, Installation)	sq.m	15.00																
A.4.3	Good Lumber (Fabrication, Installation, Stripping)	bd.ft	15.00																

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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.4.4	1" x 1" Wood Edging (Fabrication, Installation)	ln,m	24.00															
A.4.5	1/4" Clear Glass (Fabrication, Installation)	sq,m	1.00															
A.4.6	Black Galaxy Granite Finish (Refer to Plans and Specifications)	sq,m	2.40															
A.4.7	Cabinet Hinge	pcs	9.00															
A.4.8	Stainless Steel Handle	pcs	5.00															
A.4.9	Drawer Guide	pairs	2.00															
A.4.10	Magnetic Catches	set	5.00															
A.4.11	Lock Hasp	set	4.00															
A.5	ADDITIONAL ARCHITECTURAL FINISHES																	
A.5.1	GRAB BARS (See Plans & Specifications)																	
A.5.1.1	40 mm dia. 1.5mm thk. Stainless Steel (SUS304)	ln,m	9.00															
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	165.00															
	* Components: Concrete Neutralizer, Penetrating Sealer, Putty, Primer, Reducer,Anti-Bacterial, Odorless & Stain Resistant-Paint, Miscellaneous items																	
A.6.1.1.1	Sleeb Laboratory	sq,m	165.00															
A.6.2	WALL PAINTING ON DRYWALL (GYPSUM WALL)																	
A.6.2.1	Anti-Bacterial Paint Finish (P-4)	sq,m	85.00															
	* Components: Gypsum Tape, Putty, Primer, Reducer,Anti-Bacterial, Odorless & Stain Resistant-Paint, Miscellaneous items																	
A.6.2.1.1	Sleeb Laboratory	sq,m	85.00															
A.6.3	CEILING PAINTING ON FICEM BOARD																	
A.6.3.1	Anti-Bacterial Paint Finish (P-4)	sq,m	64.00															
	* Components: Gypsum Tape, Putty, Primer, Reducer,Anti-Bacterial, Odorless & Stain Resistant-Paint, Miscellaneous items																	
A.6.3.1.1	Sleeb Laboratory	sq,m	64.00															
A.6.3	WOOD PAINTING ON CABINETS, SHELVES, FURNITURES																	
A.6.3.1	Acrylic ODE Paint Finish (P-5)	sq,m	50.00															
	* Components: Putty, Primer, Reducer,Quick Drying Enamel Paint, Miscellaneous items																	
A.6.3.1.1	Sleeb Laboratory Cabinets and other furnitures	sq,m	50.00															
A.6.4	EXTERIOR PAINT																	
A.6.4.1	Elastomeric Paint Finish (P-2)	sq,m	20.00															
	* Components: Putty, Primer, Reducer, Elastomeric Paint, Miscellaneous items																	
A.6.4.1.1	Exterior Walls	sq,m	20.00															
	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 devices, and other door accessories specified in the plans and specifications.																	
D&W.1.1	D1 (See Plans & Specifications)	set	1.00															
D&W.1.2	D2 (See Plans & Specifications)	set	1.00															
D&W.1.3	D3 (See Plans & Specifications)	set	1.00															
D&W.1.4	D4 (See Plans & Specifications)	set	1.00															
D&W.2	WINDOWS (Supply and Installation)																	
D&W.2.1	W (See Plans & Specifications)	set	1.00															
	sub-total																	
E	ELECTRICAL WORKS																	
	* Note: Most of the scope are rough-ins and does not include devices and wires/cables for terminations, thus tie wires must be left inside conduits for future phases of the projects.																	
	* Consumables such as butane gas, pvc cement, electrical tape, tie wires, etc shall be inclusive within the unit cost of each item.																	
	* Hangers and supports, screws, bolts, terminal lugs shall be inclusive within the unit cost of each item																	
E.1	ROUGHING INS																	
E.1.1	20 mm dia x 3.00 m PVC Pipe	length	82.00															
E.1.2	20 mm dia MECA Tube	ln,m	25.00															
E.1.3	PVC Adapter Lock Nut, 20 mm dia	pcs	28.00															
E.1.4	PVC Long Elbow, 20 mm dia	pcs	28.00															
E.2	WIRES AND CABLES																	
E.2.1	Copper Wires, THWN-2/THHN, 2.0 sqmm (Color Coded)	m	220.00															
E.2.2	Copper Wires, THWN-2/THHN, 3.5 sqmm (Color Coded)	m	260.00															

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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)
E.3 WIRING DEVICES																		
E.3.1	Duplex Convenience Outlet (Universal, Ground Type w/ plate & cover), 10A to 16A Rated, With Shutters	set	12.00															
E.3.2	Special Purpose Outlet, (Additional Reference: Nema 14- 50R), 30Amp-Rated (or Higher), Universal, 3-Prong ground type, Middle-Mount, Heavy Duty GFCI	set	3.00															
E.3.3	Switch, 1 - Gang w/ plate and cover, wide series	set	1.00															
E.3.4	Switch, 2 - Gang w/ plate and cover, wide series	set	2.00															
E.3.5	Switch, 3 - Gang w/ plate and cover, wide series	set	1.00															
E.3.6	Utility Box, PVC, ga 16	pcs	21.00															
E.3.7	Junction Box, PVC, ga 16	pcs	17.00															
E.4 ELECTRICAL WORKS																		
E.4.1	60 x 60 cm x 40-Watt LED PANEL Light, Recessed Mounted, Clean Room Rated, Totally Sealed Housing, 4000K, SHATTER PROOF, WHITE FRAME	set	4.00															
E.4.2	8-Watt LED PANEL LIGHT, Daylight, Clean Room Rated, Square Recessed Type Downlight, 150mm x 150mm WHITE	set	13.00															
E.4.3	LED Strip Lights, indoor, 5050 Type, High density (120 LEDs per meter), white, with 12 V Power Supply	ln.m.	35.00															
E.4.4	Power Supply for LED Strips, 12 V, 300 W	set	2.00															
E.5 PANELBOARDS (bolt-on-type)																		
E.5.1	MAIN DISTRIBUTION PANEL (MDP) Main: 1000AT/100AF, 15KAIC, 2-pole, 1-Phase, 230V, ACB Branch: 3- 20 AT/ 50AF, 2-pole, 1-Phase, 230V 12- 30 AT/ 50AF, 2-pole, 1-Phase, 230V	set	1.00															
E.6 SERVICE ENTRANCE																		
E.6.1	Copper Wires, THWN-2/THHN, 30.0 sqmm (Color Coded)	m	24.00															
E.6.2	Copper Wires, THWN-2/THHN, 8.0 sqmm (Color Green)	m	12.00															
E.6.3	32 mm dia x 6.00 m RSC Pipe	pcs	4.00															
E.6.4	RSC Couplings, 32 mm dia	pcs	4.00															
E.6.5	RSC Elbow, 32 mm dia	pcs	2.00															
E.6.6	RSC Clamp, 32 mm dia	pcs	6.00															
E.6.7	Entrance cap, 32mm dia	pcs	1.00															
E.6.8	Secondary Rack with spool, Triple	set	1.00															
E.6.9	Grounding Rod with clamp and accessories	set	1.00															
sub-total																		
ECE ELECTRONICS AND COMMUNICATIONS WORKS																		
* Consumables such as conduit hangers and supports (unistrut channels, full-threaded rods, expansion bolts, nuts and washers), butane gas, pvc cement, electrical tape, tie wires, cable ties, etc shall be inclusive within the unit cost of each item																		
*Termination items such as RJ-45/RJ-11/BNC/RG-6 Coax Connectors, etc shall be inclusive within the unit cost of each item																		
* Hangers and supports, screws, bolts, terminal lugs shall be inclusive within the unit cost of each item																		
EC.1 FIRE DETECTION AND 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	TF Wire, Duplex, Twisted, 16 AWG, Red and Black	m	90.00															
EC.1.2	20 mm dia x 3.00 m EMT Pipe	length	15.00															
EC.1.3	Liquid Tight Flexible Metallic Conduit, Stainless Steel Insulation Sleeve, 1/2" (15mm) dia	meter	5.00															
EC.1.4	EMT Lock Nut and Bushing, 20mm dia	pcs	14.00															
EC.1.5	EMT Coupling, 20mm dia	pcs	5.00															
EC.1.6	Liquid Tight FMC Straight Connector, 15mm (1/2") dia	pcs	10.00															
EC.1.7	Mounting Box for Manual Pull Station/Alarm Bell	pcs	2.00															
EC.1.8	Junction Box, Galvanized Metal, Gauge #16	pcs	14.00															
EC.2 TELEPHONE AND DATA 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	6.00															
EC.2.2	Junction Box, PVC, ga 16	pcs	2.00															
EC.2.3	Square Box/Pull Box, PVC, 6"x6" with Cover	pcs	2.00															
EC.2.4	Pull Box, Powder Coated, Gauge 16, 4" x 12" x 12", with Cover	set	1.00															
EC.2.5	20 mm dia x 3.00 m PVC Pipe	length	33.00															
EC.2.6	32 mm dia x 3.00 m PVC Pipe	length	21.00															
EC.2.7	PVC Adapter Lock Nut, 20 mm dia	pcs	12.00															
EC.2.8	PVC Adapter Lock Nut, 32 mm dia	pcs	4.00															
EC.2.9	CAT6 I/O Wall Outlet w/ Plate and Cover (2-gang)	pcs	6.00															
EC.2.10	Patch Panel, 24-port Modular, CAT-6, Rackmount, 1000Mbps, with I/O Modules	pcs	1.00															
EC.2.11	Cable Manager, Horizontal, Metal Frame with Cover, 1U	pcs	1.00															
EC.2.12	Unshielded Twisted Pair (UTP) Cable, CAT-6, Pure Copper, Preferred Color: Gray/Blue	m	300.00															
EC.2.13	SFP Module, 1.25G SFP transceiver with a 1310nm Dual LC connector, for up to 20 kilometer Single Mode fiber connections, with DDM, must be compatible with Mikrotik CRS326-24G-2S+RM switch and Mikrotik CRS317-1G-16S+RM	pcs	2.00															

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(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.2.14	Uninterruptible Power Supply (UPS), Capacity: 650VA/360W or higher; Battery Backup and Surge Protector; On-Line Input Voltage 160-290VAC, single phase; Online Frequency Range (50Hz/60Hz) 45 - 55Hz ±1Hz / 55 - 65Hz ±1Hz; Typical Recharge Time 4 hours to 90%; Outlet type and numbers IEC C13 x 4 / NEMA	set	1.00															
EC.2.15	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, cugenuts and bolts.	set	1.00															
EC.2.16	Fiber Optic Distribution box, indoor/outdoor, 8-port, with pigtailed and SC coupler	set	2.00															
EC.2.17	Fiber optic Cable, 8-core, GYXTW Type, Single mode, Materials of Jacket: MDPE/HDPE; Certification: CE, ISO; Central Loose Tube; Inclusive of cable layout, installation up to the NOC, termination, fusion splicing, testing, and accessories	m	150.00															
EC.2.18	Fiber Optic LC to SC Patchcord, Single mode 9/125um, DUPLEX, 3 meters	piece	2.00															
EC.2.19	CAT6 UTP Patch cord, 1 meter	piece	13.00															
EC.3	CCTV 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.3.1	20 mm dia x 3.00 m PVC Pipe	length	20.00															
EC.3.2	Liquid Tight Flexible Metallic Conduit, Stainless Steel Insulation Sleeve, 1/2" (15mm) dia	meter	5.00															
EC.3.3	PVC Adapter Lock Nut, 20 mm dia	pcs	12.00															
EC.3.4	Liquid Tight FMC Straight Connector, 15mm (1/2") dia	pcs	10.00															
EC.3.5	Square Box Pull Box, PVC, 4"x6" with Cover	pcs	6.00															
EC.3.6	Unshielded Twisted Pair (UTP) Cable, CAT-6, Pure Copper, Preferred Color: Orange/Red/Green/Yellow	m	130.00															
EC.3.7	Fiber Optic SC to SC Patchcord, Single mode, 9/125um, DUPLEX 3 meters	piece	2.00															
EC.3.8	CAT6 UTP Patch cord, 1 meter	piece	7.00															
	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 healthcare plumbing fixtures																	
P&S.1.1	Regular Water Closet Type 1 w/ Complete Accessories	set	2.00															
P&S.1.2	Pedestal Lavatory Type 1 w/ Complete Accessories	set	1.00															
P&S.1.3	Undercounter Lavatory Type 1 w/ Complete Accessories	set	1.00															
P&S.1.4	Wash Sink, Undercounter Type 1 w/ Complete Accessories	set	1.00															
P&S.1.5	Floor Drain	set	3.00															
	* Heavy Duty Stainless Steel (SUS304), 4" x 4" Square Type w/ Strainer																	
P&S.1.6	Facial Mirror	sq.m	1.00															
	*6mm Thk Mirror, w/ 6mm thk Marine plywood Backing																	
P&S.1.7	Toilet Tissue Holder (Single)	set	2.00															
	* Accessories: Mounting accessories, etc																	
P&S.1.8	Recessed Soap Dish, S/S	set	2.00															
	* Accessories: Mounting accessories, etc																	
P&S.2	WATER SUPPLY																	
	* use different pipe color/lining for cold water line and hot water line																	
P&S.2.1	32 mm Ø (PN 20) - PPR	In.m	12.00															
P&S.2.2	25 mm Ø (PN 20) - PPR	In.m	8.00															
P&S.2.3	20 mm Ø (PN 20) - PPR	In.m	8.00															
P&S.2.4	1" Dia Gate Valve (PN20) - (Body= Cast Bronze, Bonnet=Forged Brass, Stem=Special Brass, Disk=Cast Bronze)	Pcs	1.00															
P&S.2.5	3/4" 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 Check Valve (Lift Type) - Brass Body (PN20)	Pcs	1.00															
P&S.2.7	1/2" Dia PPR Gate Valve (PN20)	Pcs	1.00															
P&S.2.8	32 mm Dia Tee - PPR	Pcs	1.00															
P&S.2.9	32 mm x 25 mm Dia Tee Reducer - PPR	Pcs	3.00															
P&S.2.10	25 mm Dia Tee - PPR	Pcs	2.00															
P&S.2.11	32 mm Dia Union - PPR	Pcs	1.00															
P&S.2.12	25 mm Dia Union - PPR	Pcs	2.00															
P&S.2.13	32 mm Dia End Cap - PPR	Pcs	2.00															
P&S.2.14	25 mm Dia End Cap - PPR	Pcs	3.00															
P&S.2.15	20 mm Dia End Cap - PPR	Pcs	5.00															
P&S.2.16	32 mm Dia 90 deg Elbow - PPR	Pcs	3.00															
P&S.2.17	25 mm Dia 90 deg Elbow - PPR	Pcs	5.00															
P&S.2.18	20 mm Dia 90 deg Elbow - PPR	Pcs	3.00															
P&S.2.19	32 mm Dia Coupling - PPR	Pcs	4.00															
P&S.2.20	25 mm Dia Coupling - PPR	Pcs	4.00															
P&S.2.21	20 mm Dia Coupling - PPR	Pcs	2.00															
P&S.2.22	20 mm Dia x 1/2" Female Threaded Tee- PPR	Pcs	5.00															
P&S.2.23	20 mm Dia x 1/2" Male Threaded Tee- PPR	Pcs	1.00															
P&S.2.24	32 mm Dia x 1" Male Threaded Coupling- PPR	Pcs	4.00															
P&S.2.25	25 mm Dia x 3/4" Male Threaded Coupling- PPR	Pcs	4.00															
P&S.3	WASTEWATER DRAINAGE & VENT																	
P&S.3.1	100 mm Dia uPVC Pipe (s-1000)	In.m	15.00															
P&S.3.2	50 mm Dia uPVC Pipe (s-1000)	In.m	36.00															

PROPOSED RENOVATION OF OPHTHA WARD FOR SLEEP LABORATORY

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.3.3	100 mm X 100 mm Wye - uPVC	Pcs	3.00																
P&S.3.4	100 mm X 50 mm Wye - uPVC	Pcs	1.00																
P&S.3.5	50 mm X 50 mm Wye - uPVC	Pcs	1.00																
P&S.3.6	150 mm X 100 mm Sanitary Tee - uPVC	Pcs	1.00																
P&S.3.7	100 mm X 100 mm Sanitary Tee - uPVC	Pcs	2.00																
P&S.3.8	100 mm X 50 mm Sanitary Tee - uPVC	Pcs	5.00																
P&S.3.9	50 mm X 50 mm Sanitary Tee - uPVC	Pcs	10.00																
P&S.3.10	100 mm 90 Deg Elbow - uPVC	Pcs	3.00																
P&S.3.11	50 mm 90 Deg Elbow - uPVC	Pcs	10.00																
P&S.3.12	100 mm 45 Deg Bend - uPVC	Pcs	4.00																
P&S.3.13	50 mm 45 Deg Elbow - uPVC	Pcs	3.00																
P&S.3.14	100 mm Dia Cleanout - uPVC	Pcs	2.00																
P&S.3.15	50 mm Dia Cleanout - uPVC	Pcs	2.00																
P&S.3.16	50 mm U-Trap -uPVC	Pcs	6.00																
P&S.3.17	25 mm Ø PVC Pipe (Blue) for Airconditioning unit condensate	ln.m	16.00																
	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																		
F.1	FIRE PROTECTION PIPE SYSTEM																		
F.1.1	25 mm Dia Schedule 40 B.I. Pipe	ln.m.	12.00																
F.1.2	Tee 100mm x 100mm	pcs	5.00																
F.1.3	Tee 25mm x 25mm	pcs	10.00																
F.1.4	Bell Reducer 32mmx25mm	pcs	2.00																
F.1.5	Bell Reducer 25mmx15mm	pcs	4.00																
F.1.6	Elbow 25mm	pcs	12.00																
F.1.7	End cap 100mm	pcs	1.00																
F.1.8	End cap 25mm	pcs	2.00																
F.1.9	Union Patente 2"	pcs	1.00																
F.2	FIRE PROTECTION DEVICES & ACCESSORIES																		
F.2.1	Sprinkler Head (Pendant type with escutcheon)	set	4.00																
	sub-total																		
H	HVAC WORKS																		
	* Consumables such as teflon tape, welding rod, gasket maker, Duct tape, 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																		
H.1	AIR CONDITIONING DEVICES & ACCESSORIES																		
H.1.1	Fans And Blowers																		
H.1.1.1	CEILING CASSETTE - 1 Phase, 230 V, 60 Hz, 100 CFM (Industrial Type)	set	2.00																
H.2	DUCT SYSTEM																		
H.2.1	100 mm Dia uPVC Pipe (s-600)	ln.m.	20.00																
H.2.2	100 mm X 100 mm Sanitary Tee - uPVC	Pcs	2.00																
H.2.3	100 mm 90 Deg Elbow - uPVC	Pcs	2.00																
H.2.4	100 mm Dia Cleanout - uPVC	Pcs	1.00																
H.2.5	100 mm Vent Cap (SUS 304)	Pcs	1.00																
	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 " " portions

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