








**Annex A**  
**RFQ/HCR/CXB/2024/013**  
**UNHCR MASTER BILL OF QUANTITIES (BOQ) FORM**  
**THE SUPPLY AND DELIVERY OF VARIOUS ELECTRICAL ITEMS FOR DIFFERENT LOCATIONS.**

Item	Description	Unit of Measure	Quantities for UNHCR new Two Storied Building	Quantities for USH Phase II	Total Quantities for 2 locations
<b>SECTION 1: Supply of DB &amp; Breakers</b>		<b>All Items must be of high quality from well known manufacturer local or international</b>			
<b>SDB 1 &amp; SDB 2 for 2-Storied Building</b>					
1.1	<p>Distribution Board : Supply of 18-SWG M5 sheet complete with hinged type door, built-in type locking arrangement, from reputed manufacturers like Siemens /ABB/ SCHNEIDER housing the following rated MCB/MCCB, ON-OFF disconnecting switches, contactors, rotary &amp; busbars and all other accessories as per technical specification &amp; drawings. The distribution board shall be of suitable dimensions so as to accommodate the circuit breakers and busbars with insulated shroud with sufficient spacing including internal connection cables in the board and other materials, shall have hinged type door locks, circuit directory shall be suitable for concealed /surface mounted type having PVC cable glands/grommets of appropriate sizes, shall have knockout for conduits entry &amp; exist, a suitable size copper plate earthing block must be provided inside the box.The rate should be quoted inclusive of all required inclusive for this item as per instruction of the Engineer-in-charge. The bidder must submit the catalogue of MCCB, MCB, SPD, totally insulated board along with the Offer. 32 Way; Should Place for One Incoming TPMCCB and 28 Nos. SP MCB</p> <p>SDB-1 &amp; SDB-2</p> <p>Incoming: 1X40A TP MCCB 3-Indicating lamps R/Y/B Outgoing:</p> <p>5X20A SP MCB 100A TP+N+PE Busbar <u>Minimum 1 year warranty.</u></p>	Job	2	0	2
1.2	<p>Distribution board : Supply of 18-SWG M5 sheet complete with hinged type door, built-in type locking arrangement, from reputed manufacturers like Siemens /ABB/ SCHNEIDER housing the following rated MCB/MCCB, ON-OFF disconnecting switches, contactors, rotary &amp; busbars and all other accessories as per technical specification &amp; drawings. The distribution board shall be of suitable dimensions so as to accommodate the circuit breakers and busbars with insulated shroud with sufficient spacing including internal connection cables in the board and other materials, shall have hinged type door locks, circuit directory shall be suitable for concealed /surface mounted type having PVC cable glands/grommets of appropriate sizes, shall have knockout for conduits entry &amp; exist, a suitable size copper plate earthing block must be provided inside the box.The rate should be quoted inclusive of all required material for this item .The bidder must submit the catalogue of MCCB, MCB, SPD, totally insulated board along with the Offer. 15 Way; Should Place for One Incoming TPMCCB and 10 Nos. SP MCB</p> <p>AC DB-1 &amp; AC DB-2</p> <p>Incoming: 1X32A TP MCCB 3-Indicating lamps R/Y/B Outgoing:</p> <p>6X20A SP MCB 100A TP+N+PE Busbar <u>Minimum 1 year warranty.</u></p>	Job	2	0	2
1.3	<p><b>MDB</b></p> <p>MDB: Supply of 415 V, 3-phase, 50 Hz, indoor type low tension switch-gear of following specification complete with digital voltmeter (0-500V) &amp; ammeter of adequate rating both with selector switch, indicating lamps for ON-OFF and following components (components such as TPMCCBs shall be manufactured according to IEC / BS standards along with relevant BDS standard shall have Authentication Certificate (within 5 years) according to relevant IEC standard) assembled locally in 14 SWG sheet steel metal clad, dust &amp; vermin proof, free standing, floor mounting, epoxy resin powder coat painted cabinet as per relevant IEC standards and as per accepted / approved by the Engineer-in-charge. Panel board is provided with capacitive information level and all types of danger sign. All doors of panel board are connected by ECC with earthing bus bar. Assembled by the valid ISO-9001 certified company.Circuit Breaker equivalent accepted / approved by the Engineer-in-charge . The MDB should be prepared for One Incoming TPMCCB and Six Nos. Outgoing TPMCCB (36"x30"x6")</p> <p>Copper flat bar (5 nos) (200-300 Amps) :4 nos 15"x1"x8mm and 1 nos. 6"x1"x8mm for earthing mounted on insulator al both ends individually.</p> <p>OUTGOING: 3 Nos. 40 Amp TPMCCB. - 415V, 160A (25KA) adjustable type TPMCCB 3 Nos. 32 Amp TPMCCB. -415V, 160 A (25KA) Adjustable type TPMCCB <u>Minimum 1 year warranty.</u></p>	Job	1	0	1
1.4	<p><b>Breakers for X-ray room and Acs</b></p> <p>100A, TP MCCB, 400V, 10 KA (Outgoing), <u>Minimum one year warranty</u> 20 A SP MCB ; Brand Origin Country: Sweden, <u>Minimum one year warranty</u></p>	Pcs	0	1	1
		Pcs	0	4	4
<b>SECTION 2: Supply of Cabling for MDB-4 Shifting &amp; Two Storied Building</b>		<b>All Items must be of high quality from well known manufacturer local or international</b>			
2.1	Single Core 70 rm ECC, <u>Minimum one year warranty</u>	Meter	10	0	10
2.2	Single Wire 6 rm ECC BYA - <u>Minimum one year warranty</u>	Meter	30	0	30
2.3	Single wire 4 sqmm RED Cu/PVC, (BYA); - <u>Minimum one year warranty</u>	Meter	900	400	1300
2.4	Single wire 4 sqmm Black Cu/PVC, (BYA); - <u>Minimum one year warranty</u>	Meter	900	400	1300
2.5	Single Core 4rm BYA for Earthing Cu/PVC (ECC) - <u>Minimum one year warranty</u>	Meter	1000	0	1000
2.6	8mm Solid Copper Bared cable (Pit to Busbar) - <u>Minimum one year warranty</u>	Meter	15	0	15
2.7	Single Core 25 rm NYY, <u>Minimum one year warranty</u>	Meter	0	140	140
2.8	Single Core 25 rm BYA ECC, <u>Minimum one year warranty</u>	Meter	0	35	35
2.9	Three Core 4 rm NYY, <u>Minimum one year warranty</u>	Meter	0	10	10
<b>SECTION 3: Supply of Piping &amp; Conduits</b>		<b>All Items must be of high quality from well known manufacturer local or international</b>			
3.1	PVC Pipe (complete set with all necessary fitting, elbows, joints, glue and clamps); 1 Inch	Meter	800	0	800
3.2	PVC Pipe (complete set with all necessary fitting, elbows, joints, glue and clamps); 1.5 Inch	Meter	1,050	0	1,050
3.3	1 inch PVC Joined Band	Pcs	120	0	120
3.4	1 inch PVC Joined Socket	Pcs	120	0	120
3.5	1 inch PVC T Joined Socket	Pcs	120	0	120
3.6	1 inch PVC 4-Way Circular Box	Pcs	150	0	150
3.7	1 inch PVC 3-Way Circular Box	Pcs	120	0	120
3.8	1 inch PVC 2-Way Circular Box	Pcs	120	0	120
3.9	1 inch PVC 1-Way Circular Box	Pcs	120	0	120

3.10	4 Way Steel MK Box (Single)	Pcs	50	0	50	
3.11	4 Way Steel MK Box (Double)	Pcs	45	0	45	
3.12	PVC Seal Joined Gum	Liter	1	0	1	
<b>SECTION 4: Supply of Lights, Sockets, and Light Switches</b>		<b>All items must be of high quality from well known manufacturer local or international</b>				
4.1	Supply of LED Pendant Tube Light, Light source: 20 W LED T-5 tube Luminous efficacy: 80 lm/w Power factor: min 0.95 Colour Rendering index: 70 <Ra>85 Driver: should be of IEC Standard Such as MEANSWELL/ OSRAM/ ENERGY+/ SIGNIFY (Phillips) or equivalent LED Chips: EPISTER/OSRAM/SIGNIFY (PHILLIPS)/ CREE/ BRIDGELUX or equivalent Colour Temperature: 3500 K - 6500 K (Warm/White) Material: Aluminium Alloy, Acrylic Size: L - 1210 mm, B - 100 mm, H- 90 mm The light sample must be shared with EIC before purchase. <a href="#">Minimum two years warranty</a>		Pcs	53	0	53
4.2	LED Tube light full set (3500-5000K, cool white color, minimum 100lm/w, 1.5meter max length);20 Watt; Brand Country Origin: Bangladesh or Europe. <a href="#">Minimum one year warranty</a>		Pcs	0	4	4
4.3	Ceiling Light Round 12W 6"x6" HOUSING, HEAT-SINK MATERIAL:ALUMINUM FRAME PLASTIC OPERATING VOLTAGE:AC 120-260V OUTPUT VOLTAGE:39.6 POWER FACTOR:0.5 LUMEN (LM):860 ± 5% CRI:80 Brand Origin: Asia or Europe. <a href="#">Minimum Warranty Period, Two Year.</a> The light sample must be shared with EIC before purchase.		Pcs	30	0	30
4.4	Supply of LED Pendant Light set (Including 20 W LED Bulb) Fitting of following Sepcification: Luminous efficacy: 100 lm/w Power factor: min 0.95 Colour Rendering index: 70 <Ra>85 Driver: should be of IEC Standard Such as MEANSWELL/ OSRAM/ ENERGY+/ SIGNIFY (Phillips) or equivalent LED Chips: EPISTER/OSRAM/SIGNIFY (PHILLIPS)/ CREE/ BRIDGELUX or equivalent Colour Temperature: 3500 K - 6500 K (Warm) Material: Aluminium Alloy, Alu reflector, MS Sheet Base Total dia: 400 mm H 300 mm The light sample must be shared with EIC before purchase. <a href="#">Minimum two years warranty</a>		Pcs	9	0	9
4.5	Supply of LED Ceiling Spot Light Fitting of following Sepcification: Luminous efficacy: 80 lm/w Power factor: min 0.95 Colour Rendering index: 70 <Ra>85 Driver: should be of IEC Standard Such as MEANSWELL/ OSRAM/ ENERGY+/ SIGNIFY (Phillips) or equivalent LED Chips: EPISTER/OSRAM/SIGNIFY (PHILLIPS)/ CREE/ BRIDGELUX or equivalent Colour Temperature: 3500 K - 6500 K (Warm) Material: Aluminium Alloy (thick- 3 mm), Alu reflector, Glass Size: D- 75*100 mm H 100*125 mm 15 W fittings The light sample must be shared with EIC before purchase. <a href="#">Minimum two years warranty</a>		Pcs	4	0	4
4.6	Supply of LED Spot Light fitting of following Sepcification: Luminous efficacy: 80 lm/w Power factor: min 0.95 Colour Rendering index: 70 <Ra>85 Driver: should be of IEC Standard Such as MEANSWELL/ OSRAM/ ENERGY+/ SIGNIFY (Phillips) or equivalent LED Chips: EPISTER/OSRAM/SIGNIFY (PHILLIPS)/ CREE/ BRIDGELUX or equivalent Colour Temperature: 3500 K - 6500 K (Warm) Material: Aluminium Alloy (thick- 3 mm), Alu reflector, Glass Size: D- 75*100 mm H 100*125 mm 15 W fittings Brand: Gloria, Energy +/ Cosmo/ Asha/ Sunko/ Annyesha or equivalent <a href="#">Minimum 2 years of Warranty</a> The light sample must be shared with EIC before purchase.		Pcs	18	0	18
4.7	Supply of LED Mirror light fitting of the following specifications: Luminous efficacy: 80 lm/w Power factor: min 0.95 Colour Rendering index: 70 <Ra>85 Driver: should be of IEC Standard Such as MEANSWELL, OSRAM, ENERGY+/ SIGNIFY (Phillips) or equivalent Material: MS Sheet, Aluminium sheet, Acrylic (thick 18 mm) Size: L-500 mm H 100 mm P- 70 mm 12 Watt fittings The light sample must be shared with EIC before purchase. <a href="#">Minimum 2 years of warranty</a>		Pcs	4	0	4
4.8	Supply of LED Garden Light fitting of following Sepcification: Luminous efficacy: 80 lm/w Power factor: min 0.95 Colour Rendering index: 70 <Ra>85 Driver: should be of IEC Standard Such as MEANSWELL/ OSRAM/ ENERGY+/ SIGNIFY (Phillips) or equivalent LED Chips: EPISTER/OSRAM/SIGNIFY (PHILLIPS)/ CREE/ BRIDGELUX or equivalent Colour Temperature: 3500 K - 6500 K (Warm) Material: Cast Aluminium, MS Sheet Dia: 55 mm, Height 225 mm 5 W fittings. Brand: Gloria, Energy +/ Cosmo/ Asha/ Sunko/ Annyesha or equivalent <a href="#">Minimum 2 years of Warranty</a> The light sample must be shared with EIC before purchase.		Pcs	10	0	10
4.9	Socket (universal type, multi-input, full set with Steel back box), <a href="#">Minimum one year warranty</a>	Pcs	124	8	132	
4.10	Socket (up to 20Amp)(three pin, for AC/Pump, full set with Steel back box) Extra two steel back box necessary, <a href="#">Minimum one year warranty</a>	Pcs	12	5	17	
4.11	Round Type Three Pin Plug for AC; Plastic Type : ABS, <a href="#">Minimum one year warranty</a>	Pcs	0	5	5	
4.12	20" Industrial Single Phase Exhaust Fan; Power: 150 Watt; Voltage: 220V-50 Hz, <a href="#">Minimum one year warranty</a>	Pcs	0	1	1	
4.13	DP Switch	Pcs	2	0	2	
4.14	Exhaust Fan 12 by 12 Inch Brand Origin: Foreign Made <a href="#">Minimum two years of Warranty</a>	Pcs	4	0	4	

4.15	IP66 Waterproof Outdoor BOX Wall Socket 13A Double Universal / UK Switched Outlet With USB Charging Port <u>Minimum one year warranty</u>		Pcs	1	0	1
4.16	Light Switches - one way, 4 Gang, min. 6 amp.(full set with MK Steel back-box). <u>Minimum one year warranty</u>		Pcs	15	0	15
4.17	Light Switches - one way, 3 Gang, min. 6 amp.(full set with MK Steel back-box). <u>Minimum one year warranty</u>		Pcs	10	6	16
4.18	Light Switches - one way, 2 Gang, min. 6 amp.(full set with MK Steel back-box). <u>Minimum one year warranty</u>		Pcs	8	0	8
4.19	Light Switches - one way, 1 Gang, min. 6 amp.(full set with MK Steel back-box). <u>Minimum one year warranty</u>		Pcs	10	7	17
<b>SECTION 5: Supply of Fans</b>			<b>All items must be of high quality from well known manufacturer local or international</b>			
5.1	Side wall mount fan (rotational, heavy duty, all plastic, up to 40 inch diameter, full set, equipped with speed controller and On/Off switch) <u>Minimum two years warranty</u>		Pcs	2	0	2
<b>SECTION 6: Supply of Miscellaneous Items</b>			<b>All items must be of high quality from well known manufacturer local or international</b>			
6.1	PVC Electrical Insulation Tape (general purpose PVC insulating tape with high resistance to weather conditions and chemical reactions, minimum thickness of 0.18mm) All colors ; Red		Pcs	5	1	6
6.2	PVC Electrical Insulation Tape (general purpose PVC insulating tape with high resistance to weather conditions and chemical reactions, minimum thickness of 0.18mm) All colors ; Yellow		pcs	0	1	1
6.3	PVC Electrical Insulation Tape (general purpose PVC insulating tape with high resistance to weather conditions and chemical reactions, minimum thickness of 0.18mm) All colors ; Blue		pcs	5	1	6
6.4	PVC Electrical Insulation Tape (general purpose PVC insulating tape with high resistance to weather conditions and chemical reactions, minimum thickness of 0.18mm) All colors ; Green		pcs	5	1	6
6.5	PVC Electrical Insulation Tape (general purpose PVC insulating tape with high resistance to weather conditions and chemical reactions, minimum thickness of 0.18mm) All colors ; Black		pcs	5	1	6
6.6	Ebonite Sheet (Round/Square) 4"		pcs	15	0	15
6.7	Ebonite Sheet (Round/Square) 6"		pcs	15	0	15
6.8	Ebonite Sheet Color White		pcs	10	0	10
6.9	News Paper		Kg	10	0	10
6.10	Cable Tie 100 mm		Pkt	10	0	10
6.11	Cable Tie 200 mm		Pkt	20	0	20
6.12	Cable Tie 300 mm		Pkt	30	0	30
6.13	10 mm SS Royal Bolt		pcs	30	0	30
6.14	8 mm SS Royal Bolt		pcs	30	0	30
6.15	Cabel lug/shoe (O-shaped tip )	120 sqmm	pcs	19	0	19
6.16	Cabel lug/shoe (O-shaped tip )	95 sqmm	pcs	4	0	4
6.17	Cabel lug/shoe (O-shaped tip )	70 sqmm	pcs	4	0	4
6.18	Cabel lug/shoe (O-shaped tip )	2.5 sqmm	pcs	30	0	30
6.19	Cabel lug/shoe (O-shaped tip )	4 sqmm	pcs	60	0	60
6.20	Cabel lug/shoe (O-shaped tip )	6 sqmm	pcs	60	0	60
6.21	Cabel lug/shoe (O-shaped tip )	4 sqmm	pcs	50	0	50
6.22	Cabel lug/shoe (O-shaped tip )	25 sqmm	pcs	0	8	8
6.23	1-10 Number Tag		Set	3	0	3
6.24	1 inch ss Clamp		Pcs	50	0	50
6.25	1.5 Inch ss Clamp		Pcs	100	0	100
6.26	2 Inch ss Clamp		Pcs	50	0	50
6.27	16 No. GI Wire		Kg	8	0	8
6.28	1 Inch Hammer Polished wire Nail		Pcs	100	0	100
6.29	1 Inch SS Screw		Pcs	200	0	200
6.30	1.5 Inch SS Screw		Pcs	100	0	100
<b>SECTION 7: Supply of Earthing Items</b>			<b>All items must be of high quality from well known manufacturer local or international</b>			
7.1	Copper MGB ( 14" x3" x 1/4" ) with accessories		Pcs	1	0	1
7.2	Insulator for installation of MGB		pcs	4	0	4
7.3	C-shaped clamp (Copper, used for cable-cable connection): 50 sqmm, min 190 amp		Pcs	4	0	4
7.4	35mm <sup>2</sup> cable shoe/lug to connect 2SWG ECC		Pcs	20	0	20
7.5	Solid Copper Earthing Rod 12.7mm dia. for main earthing - 60 ft long		Pcs	1	0	1
7.6	3 m long, 40mm dia, 2.35 mm thickness GI Pipe, threaded both end (with 10mm thorough holes at every 500mm interval and every alternate hole 90 degree apart in direction)		Pcs	1	0	1
<b>SECTION 8: Supply of Water Geyser/ Heater</b>			<b>All items must be of high quality from well known manufacturer local or international</b>			
8.1	Providing & installation of following capacity- electrically operated water heater  -containing Premium protective magnesium anode equalizer aggressive water. non- magnetic rust proof galvanized steel & outer.  -High-density CFC-free polyurethane foam insulation.  -High precision thermostat and thermal cut-out protection against dry heat.  - stainless steel Incoloy 800 glass line immersion heating element. thermal cut-out , on-off indicating lamp.  -Earth Leakage Circuit Breaker (ELCB).  -Safety valve0.7- 0.8 MPa, inlet and outlet water connection pipe including fixing accessories all complete as required with adequate safety measurers in conformity with codes and specification of international standards. Suitable for use in tropical country like BANGLADESH. Model and sample to be approved by competent authority  <b>30liter/hr. (t000 - 1500wan)wall mounting rype.</b> <u>Minimum two years of warranty</u>		Pcs	2	0	2

**N.B.1. The specified items for USH Phase II shall be supplied to Ukha Hospital in the specified quantity.**  
**2. The mentioned items for New Two Storied Building should be supplied to UNHCR Compound, Cox's Bazar as per the mentioned quantity.**