

BoQ of Tin Shed at UCEP Jatrabari TVET Institute Premises **Bill of Quantities (BoQ) of (Part-01)**

SI No	Item Description	Unit	Quantity	Rate in BDT	Amount in BDT	Remarks
(Part-A) Civil Work (BoQ), Total Floor Area: Approximately 2950 sft including 4 feet wide Veranda						
1	Sand filling in foundation trenches and plinth with sand having minimum F.M. 1.2 in 150 mm in layers including leveling, watering and compaction to achieve minimum dry density of 95% with optimum moisture content (Modified proctor test) by ramming each layer up to finished level as per design supplied by the design office only, all complete and accepted by the Engineer-in-charge.	cft	2,965.00			
2	One layer brick flat soiling in foundation or in floor with first class/picked jhama bricks including preparation of bed and filling the interstices with local sand, leveling etc. complete and accepted by the Engineer-in-charge	sft.	2,965.00			
3	Lean / blinding concrete (1:3:6) in foundation or in floor with cement, sand (F.M. 1.2) and picked jhama brick chips including breaking of chips, screening, mixing, laying, compacting to required level and curing for at least 7 days including the supply of water, electricity, costs of tools & plants and other charges etc. all complete and accepted by the Engineer-in-charge. (Cement: CEM-II/B-M)	cft	75.00			
4	75 mm thick Damp proof course (DPC) (1:1.5:3) of cement concrete with cement, sand and picked jhama brick chips or stone chips including breaking of chips, screening, centering, shuttering, casting, curing and finishing with a coat of bitumen including the supply of water, electricity, costs of tools & plants and other charges etc. all complete and accepted by Engineer-in-charge. (Cement: CEM-II/B-M)	sft	360.00			
5	Reinforced cement concrete works with minimum cement content relates to mix ratio 1:1.5:3 having maximum water cement ratio = 0.40 and minimum $f_{cr} = 33.5$ MPa, satisfying a specified compressive strength $f_c = 25$ MPa at 28 days on standard cylinders as per standard practice of Code ACI/BNBC/ASTM, Cement conforming to BDS EN-197-1-CEM-I, 52.5N (52.5 MPa) / ASTM-C 150 Type - I, best quality Sylhet sand or coarse sand of equivalent F.M. 2.2 and 20 mm down well graded stone chips conforming to ASTM C-33 (Aggregate grading as per table shown in technical specification), conducting necessary tests, making and placing shutter in position and maintaining true to plumb, making shutter water-tight properly, placing reinforcement in position, mixing with standard mixer machine with hopper, fed by standard measuring boxes, casting in forms, compacting by vibrator machine and curing at least for 28 days, removing centering-shuttering after specified time approved, including cost of water, electricity, other charges etc. all complete, approved and accepted by the Engineer-in-charge. (Rate is excluding laboratory test fees, the cost of reinforcement and its fabrication, placing, binding etc. and the cost of shuttering & centering)					
5(e)	Grade beam, Column etc.	cft	425.00			

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6	Reinforced cement concrete works with minimum cement content relates to mix ratio 1:2:4 having maximum water cement ratio = 0.45 and minimum $f_{cr} = 26$ MPa, satisfying a specified compressive strength $f_c = 19$ MPa at 28 days on standard cylinders as per standard practice of Code ACI/BNBC/ASTM, cement conforming to BDS EN-197-1 CEM-I, 52.5N (52.5 MPa) / ASTM-C 150 Type - I, best quality sand [50% quantity of best local sand (F.M. 1.2) and 50% quantity of Sylhet sand or coarse sand of equivalent F.M. 2.2] and 20 mm down well graded picked jhama brick chips conforming to ASTM C-33 including conducting necessary tests, breaking chips and screening, making and placing shutter in position maintaining true to plumb, making shutter water-tight properly, placing reinforcement in position; mixing in standard mixer machine with hopper fed by standard measuring boxes, casting in forms, compacting by vibrator machine and curing at least for 28 days, removing centering-shuttering after specified time approved; including cost of water, electricity, other charges etc. all complete, approved and accepted by the Engineer-in-charge. (Rate is excluding laboratory test fees, the cost of reinforcement and its fabrication, placing, binding etc. and the cost of shuttering & centering).					
6 (a)	Floor slab, lintel, Sunshade, stair case slab and step etc.	cft	890.00			
7	FORMWORK (Wooden): Centering and shuttering, including strutting, propping etc. (The formwork must be rigid enough both in and out of plane, to make the concrete surface true to the designed shape and size etc. and removal of form for: Column, Floor Slab, Grade Beam, Lintel, Sunshade, Stair case Slab & Step Etc.	sft	2,045.00			
8	Grade 500 (B500DWR): complying BDS ISO 6935-2:2016 / ASTM A615 ribbed or deformed bar produced and marked according to Bangladesh standard, with minimum yield strength, f_y (ReH)= 500 MPa and whatever is the yield strength within allowable limit as per BNBC/ ACI 318, the ratio of ultimate tensile strength f_u to actual yield strength f_y , shall be at least 1.25 and minimum elongation after fracture and minimum total elongation at maximum force is 17% and 8% respectively : up to ground floor.	kg	2,970.00			
9	125 mm brick works with first class bricks with cement sand (F.M. 1:2) mortar (1:4) and making bond with connected walls including necessary scaffolding, raking out joints, cleaning and soaking the bricks for at least 24 hours before use and washing of sand, curing at least for 7 days in all floors including cost of water, electricity and other charges etc. all complete and accepted by the Engineer-in-charge. (Cement: CEM-II/B-M) In ground floor	sft.	4,040.00			
10	Brick works with first class bricks with cement sand (F.M. 1:2) mortar (1:4) in foundation and plinth, filling the joints/interstices fully with mortar, racking out the joints, cleaning and soaking the bricks at least for 24 hours before use and curing at least for 7 days etc. all complete including cost of water, electricity and other charges and accepted by the Engineer-in-charge. (Cement: CEM-II/B-M)	cft	1,685.00			
11	Minimum 12 mm thick cement sand (F.M. 1:2) plaster (1:4) with fresh cement to both inner-and outer surface of wall, finishing the corner and edges including washing of sand, cleaning the surface, curing at least for 7 days, cost of water, electricity, scaffolding and other charges etc. all complete in all respect as per drawing and accepted by the Engineer-in-charge. (Cement: CEM-II/B-M) ground floor.	sft.	9,100.00			

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12	Colour wash with yellow orchard/any other colour pigment by two coats over a prime coat of white wash, lime mixture prepared at least 12 hours before use, slacking stone lime, supplying of gums, blue, stirring thoroughly, removing the floating materials from the mixer, surface cleaning to free from all foreign materials before application of each coat, applying one vertical and one horizontal wash for each coat and successive coat is to be applied after drying up of previous coat including hair brass, providing necessary scaffolding and cleaning plinth, floors, doors, windows, portions and ventilators by washing, rubbing, oiling if necessary after white wash for all floors including cost of water, electricity and other charges etc. complete in all respect in all floors and accepted by the Engineer-in-charge.	sft.	9,100.00			
13	MS door: Supplying, fitting and fixing M.S. door shutters made with 38 mm x 38 mm x 6 mm angle outer frame, inner member 25 mm x 6 mm F.I. bar, cladding with 16 BWG M.S. sheet, 04 nos 75 mm long hinge, 02 nos. locking arrangement with 50 mm x 50 mm x 6 mm M.S. angle chowket including all charges for welding, riveting etc. including cost of supplying all essential fittings like iron hinges, socket bolts, clamps, for fitting and fixing the frame, making necessary holes in brick walls and R.C.C works and fitting with C.C. (1:2:4) and mending good the damages including all cost of carriage, workshop charges, electricity and labour for fittings, fixing, curing etc. all complete and accepted by the Engineer-in-charge.	sft	192.50			
14	Supplying, fitting and fixing of the best quality any size UPVC plastic door shutter with frame having specific gravity of 1.35 - 1.45, panel wall thickness 24 mm-2.76 mm, shutter/panel thickness 37.5 mm & weighing 27.00 kg/m ² and other physical, chemical, thermal, fire resistivity properties etc. as per BSTI approved manufacturer standards or ASTM, BS/ISO/IS standards and cosmic /Foam /aristocrat or equivalent standards of different sizes UPVC plastic door shutter with UPVC plastic frame (frame size:150mm x 62.50mm) fitting - fixing in brick wall/R.C.C wall with at least 3 Nos. SS hinges by min 64 Nos. Ø 3.17 mm and 3.97 mm 12.7 mm long rivets, 24 nos. 25.4 mm SS screws, Ø 9.38 mm, 150 mm long SS tower bolts 2 nos., 146 mm SS handle by rivet, 6 Nos. G.I clamp, 6 Nos. G.I inner joint, 234.95 mm x 127 mm clamp, 76.2 mm x 57.15 mm, including making necessary grooves and mending good the damages, finishing, curing, local carriage etc. complete in all respect and accepted by the Engineer-in-charge.	sft	70.00			
15	Supplying, fitting and fixing window grill made of 10 mm x 10 mm M.S. solid bar @ 100mm c/c with outer frame of 38 mm x 6mm F.I. bar and 25 mm x 6 mm F.I. bar for clamp as per design including fabrication, welding, cost of electricity workshop charges, carriage, cutting grooves, mending good the damages, tools and plants, finished with anti-corrosive painting (Red-Oxide) etc. complete for all floors approved and accepted by the Engineer-in-charge. (Total weight per sqm should be approx 17 kg and add or deduct @ Tk. 100.00 for each kg/sqm excess or less respectively)	sft.	295.00			

Sl No	Item Description	Unit	Quantity	Rate in BDT	Amount in BDT	Remarks
16	Supplying, fitting and fixing veranda grill made of 10 mm dia M.S. rod provided @ 100 mm c/c in any position both ways as per design with outside frame 25 mm x 25 mm x 6 mm M.S. angle including fabricating, welding in each point, painting a coat of anti-corrosive painting (Red-Oxide), including cost of electricity, tools and plants, workshop charges, carriage of the same including cutting grooves in the R.C.C. or brick work, mending good the damages with C.C. (1:1.5:3) etc. complete for all floors accepted by the Engineer-in-charge. (Total weight per sqm should be approx. 17 kg and add or deduct @ Tk. 100.00 for each kg/sqm excess or less respectively)	sft	378.75			
17	Supplying, fitting and fixing of aluminium sliding window as per the U.S. Architectural Aluminium Manufacturer's Association (AAMA) standard specification and BDS 1879:2014 having minimum 1.2 mm thick outer bottom (size 75.50 mm, 32mm,0.605 kg/m), minimum 1.2 mm thick outer top (size 75.50 mm, 28.50 mm,0.705 kg/m), minimum 1.2 mm thick shutter top (size 33 mm,26.80 mm,0.42 kg/m), minimum 1.2 mm thick shutter bottom (size 60mm, 24.40 mm,0.589 kg/m), minimum 1.2 mm thick outer side (size 75.50 mm,19.90 mm,0.52 kg/m), minimum 1.2 mm thick shutter lock (size 49.20 mm 25.80 mm,0.543 kg/m) and minimum 1.2 mm thick inter lock (size 34.40 mm, 32.13 mm,0.562 kg/m) sections all aluminium members will be anodized to aluminium bronze/silver/ss/black colour with a coat not less than 15 microns in thickness or powder coated to any colour with a coat not less than 25 microns in thickness and density of 4 mg per square cm etc. including all accessories like sliding door key lock, sliding door wheel, sliding door mohar, sliding door neoprene, bolts and nuts including sealants, keeping provision for fitting 5 mm thick glass including labour charge for fitting of accessories, making grooves and mending good damages, carriage, and electricity complete in all respect as per drawing and accepted by the Engineer-in-charge; Size up to: 1500 mm x 1400 mm.	sft	295.00			
18	Premium synthetic enamel paint of approved best quality and colour delivered from authorized local agent of the manufacturer in a sealed container, having high water resistance, high bondability, flexibility property; using specified brand thinner applying to metallic or wooden surface by brass/roller/spray in two coats over single coat anti-corrosive coating including cleaning, drying, making free from dirt, grease, wax, removing all chalked and scaled materials, all complete in all floors and accepted by the Engineer-in-charge.	sft	650.00			



Mohammad Guljar Hossain
Regional Manager
UCEP Dhaka South Region

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19	Manufacturing, supplying, fitting and fixing M.S. collapsible gate of any design and shape made of 20 mm x 20 mm x 3 mm M.S. angle placed @ 112 mm c/c vertically and connecting the same with each other by 20 mm x 3 mm M.S. flat bar scissors 525 mm, 600 mm long provided in 3 rows including cutting the different M.S. members to required sizes, fabricating, welding, riveting with required size rivets, providing required size wheels, pulling handles on both sides, suitable locking arrangement, electrodes, grease and finally placing the same in position in between 2 (two) nos. 50 mm x 50 mm x 6 mm M.S. tee rail made by welding 2 nos. 50 mm x 6 mm M.S. flat bar fitted and fixed at top and bottom with R.C.C. lintel/roof slab, floors and side wall with required Nos. 150 mm to 225 mm long 38 mm x 6 mm M.S. flat bar clamps one end welded with the gate member and the other end bifurcated and embedded in C.C. at the respective point including cutting holes and mending good the damages by pouring concrete (1:2:4) into the holes and finishing, etc. complete, painting 2 (two) coats with approved best quality synthetic enamel paint over a coat of anticorrosive painting, both end carriage, including greasing, electrodes, curing etc. complete as per drawing and design and accepted by the Engineer-in-charge.	sft	50.50			
20	Supply and installation of 0.457 mm thick corrugated galvanized iron sheet (Bangladesh made) having min weight 63-65 kg per bundle (2'-6" width, 70 – 72 ft long) fitted and fixed on M.S. sections with 'J' hook or wooden purlin with screws, limpet washers and putty etc. (up to level-4) all complete and accepted by the Engineer-in-charge.	sft	3,645.00			
21	8 mm thick melamine board ceiling (RFL or Equivalent) : Supplying, fitting and fixing of Melamine/ Plain gypsum/ veneered board false ceiling (Drop/Plain) laminated by mechanical hot press milk white PVC membrane, framing by aluminium/ powder coated aluminium T-bar of any colour and of natural anodized finish suspended in 600 mm x 600 mm grid from ceiling by 12 SWG double ply wire, fixed to the ceiling by rowel plug, screws, hooks, nails etc., maintaining straight lines and desired finished level at bottom face including vertical wooden strut as required, making holes in slabs or beams by electric drill machine and mending good the damages, if any during execution of the work, including the provisions of lighting arrangement, also including cost of all materials, electricity, accessories, scaffoldings, labour for installation, screws, nails, etc. all complete as per drawing, design and accepted by the Engineer-in-charge. Measurement will be taken as per finished surface area (Rate is excluding cost of polish/ paint etc. of any type where necessary).	sft	1,975.00			
22	Supply, fabrication and installation of hot rolled structural grade steel channel and angle in roof truss or any form of structure of any thickness conforming to ASTM A36 with a minimum yield strength of 250 MPa, including the cost of testing, application of red/grey-oxide primer etc. (up to level-4) all complete as per drawing, specification and direction of Engineer-in-charge.	kg	1,075.00			
23	Miscellaneous work , materials test, any type of work, materials and accessories if necessary during construction. (Site need base)	LS	-			
Sub-Total Civil Work (PART-A)						

(Part-B)-Sanitary & Water-Supply Works

SI No	Item Description	Unit	Quantity	Rate in BDT	Amount in BDT	Remarks
1	Supplying, fitting and fixing of food graded plastic overhead water reservoir /tank (1000 liter capacity) including all necessary fittings, hardware and consumables etc. all complete approved and accepted by the Engineer- in- charge.	each	1.00			
2	Supplying, fitting and fixing of Bangladesh pattern, long pan with foot-rest . The sanitary ware shall conform BDS1162:2014. The glaze shall be thoroughly fused to body. The minimum thickness of body at any section shall be 5 mm. When assembled together and when examined from a distance of 60 cm, the outer surface shall not show to the unaided eye, blemishes or defects in excess of those listed in BDS standard. The mean value of water absorption shall not be greater than 0.5% of the ware when dry. When tested with chemical solutions (Acetic acid, Citric acid, Detergent, Hydrochloric acid, Sodium hydroxide, Sodium stearate and Sulfuric acid of various strength) as per BDS1162:2014 procedure, none of the test pieces should suffer any loss of reflectivity on the glaze. There shall be no crazing and no stain on the ware. The materials used for making glaze shall not contain lead compound. In case of certain coloring oxides used for making colored glaze, the lead content, if any, shall not exceed 5 percent of the weight of the glaze materials. Appliances shall be clearly and indelibly marked at a prominent place, visible even after the appliances are installed with the following: a) manufacturer's name and/or registered trademark, b) the number of Bangladesh standard and c) country of origin. Each product shall also be marked with the BSTI Certification Mark. The fixture should be placed in position preparing the base of pan with cement mortar (1:4) and with wire mesh or rods, if necessary in all floors including making holes wherever required and mending good the damages and fitting, fixing, finishing etc. complete with all necessary fittings and connections approved and accepted by the Engineer- in- charge.					
2(a)	Approx. 554 X 439. X 249 mm size, minimum 12.5 kg of weight	each	4.00			
3	Local Mirror (5 mm thickness): Supplying, fitting and fixing of 5 mm thick unframed super quality double coated mirror with all necessary fitting including making holes in walls and mending good the damages with cement mortar (1:4) etc. all complete approved and accepted by the Engineer-in-charge.	sft	16.00			
4	Supplying, fitting and fixing of super quality 600 x 125 mm white glass (plate) shelf having 5 mm thickness with fancy C.P. brackets, screws and frames including making holes in walls and mending good the damages with cement mortar (1:4) etc. all complete approved and accepted by the Engineer- in- charge.	each	4.00			
5	Supplying, fitting and fixing of PP-R Pipe for water supply sustaining minimum water pressure PN 20, fulfilling corresponding standard dimension ratio SDR meeting the performance & long-term strength requirements as per DIN 8077 /78 or ASTM F 2983 including nipple, elbow, reducers, Tee, end cap, plug, socket etc as per manufacturer instruction. all complete accepted by the Engineer- in- charge.					
5(a)	19 mm dia, minimum wall thickness 3.5 mm	ft	100.00			
5(b)	38 mm dia, minimum wall thickness 6.9 mm	ft	100.00			
5(c)	25 mm dia, minimum wall thickness 4.4 mm	ft	80.00			

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6	Groove cutting in brick work and R.C.C work, including cost for concealing of water distribution pipe work (12 mm and 20 mm dia) in brick wall by cutting groove in wall, lintel, beam etc. by any means carefully without damaging the structure and filling the grooves with C.C (4:2:1) after laying of pipe including cost of scaffolding, finishing, curing etc. all complete approved and accepted by the Engineer-in-charge.					
6(a)	Groove size 40 mm x 40 mm (For laying 12 mm to 20 mm dia pipes)	ft	100.00			
7	Supplying 100 mm inside dia wall thickness 3.4- 4.0 mm best quality uPVC soil, waste and ventilation pipe having specific gravity 1.35 - 1.45, wall thickness 2.5 mm - 3.0 mm, and other physical, chemical, thermal, fire resistivity properties etc. as per BSI approved manufacturer standards or ASTM, BS/ISO/IS standards fitting and fixing in position with sockets, bends, of uPVC Pipe with all accessories such as Round grating /domed roof grating bands, sockets etc. approved and accepted by the Engineer-in-charge.	ft	100.00			
8	Supplying, fitting and fixing of best quality surface mounted or conceal stop cock/angle stop cock (lever or round headed) with wall flange chromium plated. The faucet conforms BDS EN 200:2009. The faucet tap shall be free from any leakage, permeation and other abnormalities. The water hammer value shall be 1.47 Mpa or under. The faucet after it has been operated 100000 times it shall be free from a seat-leakage and shall satisfy the reverse flow preventing performance. The inside and outside surfaces of the faucet shall be smooth and be free from blowholes, fissures, remarkable flows or injurious defects. The chromium plating on the faucet shall be of class 2 grade 1. The final coating should be done with chromium of minimum 0.1 micron. The faucet shall be made leak proof and fixing in position with selected tape etc., all complete approved and accepted by the Engineer-in-charge.					
8(a)	CP angle stop cock	pcs	4.00			
9	C.P. towel shelf (600 mm long): Supplying, fitting and fixing of country made best quality towel railing/shelf minimum 20 mm in dia with C.P. holder including making holes in walls and mending good the damages with cement mortar (1:4) etc. all complete approved and accepted by the Engineer-in-charge.	pcs	4.00			
10	C.P. iron bracket toilet paper holder : Supplying, fitting and fixing of best quality toilet paper holder of standard size including making holes in walls and mending good the damages with cement mortar (1:4) etc. all complete approved and accepted by the Engineer-in-charge.	pcs	4.00			
11	Stainless steel soap tray: Supplying, fitting and fixing of standard size country made soap tray including making holes in walls and mending good the damages with cement mortar (1:4) etc. all complete approved and accepted by the Engineer-in-charge.	pcs	6.00			
12	Supplying, fitting and fixing of floor grating net in traps or in drains including making holes in walls/floors and mending good the damages with cement mortar (1:4) etc. all complete approved and accepted by the Engineer-in-charge. of following type					
12(a)	Approx. 100~125 mm dia stainless steel floor grating net	pcs	6.00			



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13	Supplying, fitting and fixing of best quality country made 12 mm bib cock made from copper or copper alloy, chromium plated. The faucet conforms BDS EN 200:2009. The faucet tap shall be free from any leakage, permeation and other abnormalities. The water hammer valve shall be 1.47 Mpa or under. The faucet after it has been operated 100000 times it shall be free from a seat- leakage and shall satisfy the reverse flow preventing performance. The inside and outside surfaces of the faucet shall be smooth and be free from blowholes, fissures, remarkable flows or injurious defects. The chromium plating on the faucet shall be of class 2 grade 1. The final coating should be done with chromium of minimum 0.1 micron. The faucet shall be made leak proof and fixing in position with selected tape etc. , all complete approved and accepted by the Engineer-in-charge.					
13(a)	Round headed CP Conceal Bib Cock short body (Essco/coaster/star/diamond/delux/decolorbed/delint/triple/master/classic headed or similar head)	each	8.00			
14	Supplying, fitting and fixing of best quality G.I. gate valve with sealant etc. complete approved and accepted by the Engineer-in-charge.					
14(a)	25 mm brass gate valve	each	2.00			
15	Supplying of country made glazed vitreous W/H wash basin (Approx. 564 x 419 mm, minimum weight 18.8 kg) of any color including pedestal. The sanitary ware shall conform BDS1162:2014. The glaze shall be thoroughly fused to body. The minimum thickness of body at any section shall be 5 mm. When assembled together and when examined from a distance of 60 cm, the outer surface shall not show to the unaided eye, blemishes or defects in excess of those listed in BDS standard. The mean value of water absorption shall not be greater than 0.5% of the ware when dry. When tested with chemical solutions (Acetic acid, Citric acid, Detergent, Hydrochloric acid, Sodium hydroxide, Sodium stearate and Sulfuric acid of various strength) as per BDS1162:2014 procedure, none of the test pieces should suffer any loss of reflectivity on the glaze. There shall be no crazing and no stain on the ware. The materials used for making glaze shall not contain lead compound. In case of certain coloring oxides used for making colored glaze, the lead content, if any, shall not exceed 5 percent of the weight of the glaze materials. Appliances shall be clearly and indelibly marked at a prominent place, visible even after the appliances are installed with the following: a) manufacturer's name and/or registered trademark, b) the number of Bangladesh standard and c) country of origin. Each product shall also be marked with the BSTI Certification Mark. The fixture should be placed in position with heavy type C.I. Brackets. 30 mm dia PVC waste water pipe with brass coupling (not exceeding 750 mm in length), basin waste with chain plug including making holes in walls and floors and fitting with wall, screws and mending good the damages, finishing etc. all complete approved and accepted by the Engineer-in-charge. (Approx. 559 x 483 mm, minimum weight 24.5 kg)	each	4.00			
16	Pit of Size: Clear 600 mm x 500 mm and average 750 mm depth for Septic tank. Construction of masonry inspection pit with 250 mm thick brick work in cement mortar (1:1.4) including necessary earth work, side filling and one layer brick flat soiling. 75 mm thick (1:3:6) base concrete for making invert channel and 12 mm thick (1:2) cement plaster with neat finishing etc.	each	2.00			

SI No	Item Description	Unit	Quantity	Rate in BDT	Amount in BDT	Remarks
(Part-C)-Electrical Works						
Sub-Total Sanitary & Water Supply Works (Part-B)						
	1 CONCEALED CONDUIT POINT WIRING (BYA WITHOUT SWITCH)					
	Concealed conduit wiring for following point looping at the switch board with earth terminal with 1C-2x1.5 sqmm PVC insulated cable (BYA) & 1C-2x1.5 sqmm PVC insulated ECC(BYA) Green Yellow bi-colour including circuit wiring (From SDB to Switchboard) with 1C-2x2.5 sqmm PVC insulated cable (BYA) & 1C-2x2.5 sqmm PVC insulated ECC (BYA) (Green / Yellow bi-colour) through PVC conduit (one conduit from switch board to common point on ceiling is considered to draw 3 pair of cable) of reputed manufacturer of minimum 25 mm dia & 1.7 mm wall thickness complete with 18 SWG GP sheet / PVC switch board pull box with 3mm thick ebonite sheet cover. fixing materials etc.					
1(b).	Ceiling Fan Point	point	18.00			
2	Supply and installation of A/C capacitor ceiling fan completed with fan Double Z blade, suspension rod, canopy, nuts & bolt etc. similar to GEC deluxe or equivalent.					
2(a).	Ceiling Fan 56"-Input power (maximum 70 watt)	Each	18.00			
3	Ceiling Light Fitting: Providing and fixing the 20-23 w, fluorescent light fitting, necessary wiring, earth terminal etc. Brand : Pasa, Superstar, transtec, Click or equivalent with 2 years warranty					
3(a).	Ceiling round panel light 24 w	Each	18.00			
3(b).	20 watt LED bulb	Each	6.00			
3(c).	12 watt LED bulb	Each	6.00			
4	Tube Light : Providing & fixing the 4' *40 watt tube light Fitting with superior quality electronic driver of one year warranty, holder, necessary wiring with 2 * 0.4 sq. mm pvc insulator (stranded) flexible FR wire, earth terminal etc. (except lamp). The fittings shall be suitable for use of LED lamp end complete sample to be accepted approved by the Engineer-in-charge (with 2 years warranty).					
4(a)	Material :MS sheet, Aluminium reflector, L-1210 mm B-100 mm. H-90mm	Each	3.00			
	Crescent -CTLS-197*140W or equivalent					
5	Gang Switch . Providing & fixing 250 volts, 5 / 6 amps (minimum) concealed type following switch / switch socket Manufactured / Assembled and tested in accordance with IEC / VDE / NEMA / BS / JIS along with relevant BDS IEC standards mounted on required size lg SWG galvanized plain sheer / PVC board (Self extinguishing 650 Degree Centigrade) of 76.2 mm (3") depth all electrical contacts shall be of brass / copper)					
5(a).	2 Gang Switch	Each	5.00			
5(b).	Gang Type Fan Regulator, Assembled and made in BANGLADESH / CHINA / INDIA / TURKEY / VIETNAM	Each	18.00			

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6	UNIVERSAL COMBINED SWITCH SOCKET OUTLET/AC OUTLET (SURFACE/CONCEALED TYPE) Providing & fixing 250 volt single phase universal combined switch socket outlet (surface / concealed type) Manufactured/ Assembled and tested in accordance with IEC / VDE / NEMA / BS / JIS along with relevant BDS IEC standards mounted on required size 18 SWG galvanized plain sheet board / plastic board (self-extinguishing 650 degree centigrade) of 76.2 mm. (3") depth. Sample to be approved by the Engineer-in-Charge.					
6(a).	13 /15/20 Single Switch socket- Assembled and made in BANGLADESH / CHINA / INDIA / TURKEY /VIETNAM	Each	18.00			
7	Concealed conduit wiring in wall ,column,floor,roof etc.including supply of all materials and accessories from distribution board to switch board,A/C outlets or from switch board to switch board as per wiring details no. 1.0 above with following pvc cables of Eastern cable ltd or equivalent.					
7(a).	1C-2*2.5 sqmm (BYA) cable with 2.5sqmm (BYA) ECC wire through PVC pipe of minimum inner dia 16mm having wall thickness of 1.5 mm	Meter	100.00			
7(b).	1C-2*4 sqmm (BYA) cable with 4 sqmm (BYA) ECC wire through PVC pipe of minimum inner dia 16mm having wall thickness of 1.5 mm	Meter	100.00			
8	Cable Works from LT Panel to Main Distribution Board, Sub-distribution Boards: Supplying, laying including termination of the following sizes and types of PVC insulated & PVC sheathed single core, two core or four core stranded copper conductor and accessories required as per item 1 above (Eastern /Paradise /Supersign /Poly /BRB Cables) or equivalent on floor, wall, column, beam, cable tray, cable trench etc. from LT panel, MDB, bus bar riser, tap of box to MDB, DB, SDB outlets, fixing etc. as per design, specification & direction and approval of the Engineer.					
8(a).	1C-2x6 sqmm (NY) with 4 sqmm (BYA) ECC wire through the pVC pipe of minimum inner dia 25 mm & wall thickness 1.7 mm	Meter	30.00			
9	DISTRIBUTION BOARD (DB) & Sub Distribution board: Providing & fixing 415V/220V, 50 Hz, 3-phase and Single Phase , grade following concealed type distribution board made of 18 SWG MS sheet complete with hinged type door, builtin type locking arrangement, Copper bar capacity 200-300 A, Size 12" * 1" * 6mm (4 No's) and 6" * 1" * 5mm (1 No) mounted on insulator at both ends, copper blocks for neutral and earth terminal, TPMECBs having minimum breaking capacity 10-16KA with thermal over current release, necessary arrangement for fixing of MCBs by keeping its knobs out on the top cover of the board in / c stove enamel /grey hammer painting of board etc.					
9(a).	63A TPSCB Incoming: 1x63A TPMCCB (10 KA) Outgoing: 3x25 TPMCCB (10 KA),15x20 SP-mcb(10 ka)	set	1.00			



UCEP Bangladesh

Bill of Quantities (BoQ) of Tin Shed at UCEP Jatrabari TVET Institute Premises

Summary of Bill of Quantities (BoQ)					
SL No	Description of Item	Total Floor Area in SQF	Total Rooms (Lab/ Workshop-03 and Wash Block-02	Total BoQ Amount (BDT) (Without Tiles Work)	Remarks
1	Civil Works	2950	03 and Male, Female Washrooms		Construction Cost Only
2	Electrical Works				
3	Plumbing Works (Sanitary & Water Supply)				
Grand Total Amount					
Grand Total Amount including Govt. VAT & AIT				-	
Say, Total Amount (BDT) for Part-1 (Including Govt. VAT & AIT)					
Unit rate					