

UCEP Bangladesh

Quantities (BoQ), Construction of One Floor Vertical Extension, UCEP Barishal TVET I
Floor Area = Approx. 6950 sft, Floor Level = 2nd Floor

Summary of Bill of Quantities (BoQ)			
Item No.	Item Description	Amount (Tk.)	Remarks
1	(Part-1) Civil Works		
2	(Part-2)-Sanitary, Water-Supply and Other Related		
3	(Part-3)-Electrical Works		
	Sub total excluding VAT		
	Add VAT As per Govt. Rules		
Grand Total Amount in Taka (Including Govt VAT & AIT)			
Grand Total Amount in Taka (Including Govt VAT & AIT)			

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UCEP Bangladesh
Bill of Quantities (BoQ), Construction of One Floor Vertical Extension, UCEP Barishal TVET Institute
Floor Area = Approx. 6950 sqft, Floor Level = 2nd Floor

Bill of Quantities (BoQ), Construction Cost Only					
Item No.	Item Description	Unit	Quantity	Unit Rate (Tk.)	Amount (Tk.)
1	Mobilization, site preparation, cleaning before commencing actual physical work and demobilization and full cleaning work after completion of the whole works accepted by Engineer in Charge and other site personnel.	Job	1.00		
2	Layout and marking work and other necessary related work accepted by the Engineer in Charge. [Plinth area of the structure shall be considered for Measurement]	sqft	6,950.00		
3	Dismantling of R.C.C. beam, lintel, column, Slab, drop wall, sun shade from any height and removal of debris to a safe distance as per instruction of Engineer in charge	cft	210.00		
4	Dismantling of brick wall of parapet wall or any other type walls any height and removal of debris to a safe distance or ground as per instruction of Engineer in charge	sqft	2,680.00		
5	Cleaning, washing, brooming, and taking away debris from the site during and or after the completion of dismantling work in all heights by any truck or any other means as per direction of Engineer in charge.	cft	1,245.00		
6	Labour for taking out CI sheet roofing, angle truss etc and place at safe side/distance or ground level as per direction Engineer in charge (Provisional item as per site base)	sqft	1,030.00		
7	Taking out and refitting of existing SS semi circular roof truss shed at 2nd floor level or required level including all necessary materials, scaffolding, accessories, welding, labours approximate sizes of the shed 21'-0"x20'-0", all complete as per direction of Engineer in charge. (Provisional item as per site base) (After taking out, it should be kept at safe place without damaging of any parts of the truss, ss plain sheet etc)	sqft	420.00		
8	RCC WORKS: 1:1.5:3 (measured on gross concrete section) (f'c = 25MPa, minimum f'cr = 33.5 MPa in nominal mix 1 : 1.5 : 3), with stone chips (100% sand of F.M. 2.2); 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, fec 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).				
8(a).	Column, Stairs, RCC Wall etc.	cft	1,048.00		
9	RCC WORKS: 1:2:4 (measured on gross concrete section) (f'c = 22 MPa, minimum f'cr = 30.5 MPa in nominal mix 1:2:4), with stone chips (100% sand of F.M. 2.2); Reinforced cement concrete works with minimum cement content relates to mix ratio 1:2:4 having maximum water cement ratio = 0.40 and minimum f'cr = 30.5 MPa, satisfying a specified compressive strength f'c = 22 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 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).				
9(a).	Floor / roof slab, Rectangular Beam, Circular Beam, Drop Wall, lintel, and any other type of RCC member etc.	cft	3,736.00		
10	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, fy (ReH) = 500 MPa and whatever is the yield strength within allowable limit as per BNBC/ ACI 318, the ratio of ultimate tensile strength fu to actual yield strength fy, shall be at least 1.25 and minimum elongation after fracture and minimum total elongation at maximum force is 17% and 8% respectively	kg	23,568.00		
11	Centering and steel shuttering work including strutting, propping etc. the form work must be rigid enough both in and out of plane to make the concrete surface true to the actual design shape ... by using ms sheet minimum 16 BWG, angles 40mmx 40mm x5mm etc flat bar & removal of form for any RCC structures like column, beam, slab, stair and any RCC Members etc.	sqft	11,170.00		
12	125 mm brick works with first class bricks with cement sand (F.M. 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-I/B-M)	sqft	9,680.00		

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Item No.	Item Description	Unit	Quantity	Unit Rate (Tk.)	Amount (Tk.)
13	Minimum 12 mm thick cement sand (F.M. 1:2) plaster (1:4) having with fresh cement to both inner and outer surface of wall, finishing the edges and corners 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-V)	sft	24,800.00		
14	Providing brick works for 200 mm x 50 mm facing in superstructure with 200 mm x 50 mm x 50 mm machine made hard pressed klinker facing red or maroon strips of approved quality with 20 mm thick cement sand (F.M. 1:2) mortar (1:4), 10 mm thick cement mortar in adjacent sides including racking out joints and cutting the bricks to required sizes wherever necessary with high class recessed pointing, cleaning and soaking the bricks for at least 24 hours before use and washing of sand, necessary scaffolding, curing at least for 7 days for all floors up to 4th floor including cost of water, electricity and other charges etc. all complete and accepted by the Engineer-in-charge. (Cement: CEM-II/B-M)	sft	1,645.00		
15	Supplying and making door and window frames (Chowkat) for all floors in/c wall side groove cutting, moulding by CNC machine or any other means with matured Mehgon/Iron wood seasoned wood of required size including painting two coats of coal tar to the surface in contact with wall, fitting and fixing in position etc. all complete and accepted by the Engineer-in-charge. (All sizes of wood are finished). Frame made from seasoned Mehgoni wood (Chemically treated)	cft	32.00		
16	Supplying, fitting and fixing M.S. flat bar clamp of 150 mm x 38 mm x 6 mm size having bifurcated ends to door and window frames with necessary rowel plug, screws etc. including cutting grooves in chowkat if necessary etc. all complete and accepted by the Engineer-in-charge.	each	96.00		
17	Supplying, fitting and fixing of 38 mm thick well matured seasoned (moisture content should be between 12% to 16%) solid wood (Gamari/Mehgoni/equivalent) single leaf door shutter having stile section 100mm x 38mm, top rail section 125mm x 38mm, lock rail section 100mm x 38mm and bottom rail section 225mm x 38mm (made from minimum 250mm wide plank) with 4nos 100mm long, 3mm thick hinge, 12mm dia 250mm long tower bolt, 12mm dia 200mm long socket bolt, 2nos 150mm long handle, hinged cleats and buffer blocks. All complete in all floors and accepted by the Engineer-in-charge. (All sizes of wood are finished)	sft	368.00		
18	Supplying, fitting and fixing best quality heavy type 19 mm dia and 300 mm long SS Hasp Bolt including cutting grooves in door shutter and frames, screws etc. all complete approved and accepted by the Engineer-in-charge.	each	15.00		
19	Supplying, fitting and fixing mortice door lock with lever handle of approved quality including all necessary tools and accessories etc. all complete approved and accepted by the Engineer-in-charge.	each	4.00		
20	Supplying, fitting and fixing hydraulic door closer (big size) of approved quality including all necessary tools and accessories etc. all complete and accepted by the Engineer-in-charge.	each	4.00		
21	Window work including grill work as per design and drawing by client choice (supplying, fabricating, fixing, fitting etc including all charges and accessories)	sft	1,120.00		
22	Supplying, fitting and fixing of Aluminum sliding window as per the U.S. Architectural Aluminum Manufacturer's (AAMA) Standard specification having 1.2 mm thick outer bottom (size 75.50 mm, 32 mm), 1.2 mm thick outer top (size 75.50 mm, 16.80 mm), 1.2 mm thick shutter to (size 33 mm, 26.80, 22 mm), 1.2 mm thick shutter bottom (size 60mm, 24.40 mm), 1.2 mm thick outer side (size 75.50 mm, 19.90 mm), 1.2 mm thick sliding fixed side (size 31 mm, 26 mm), 1.2 mm thick shutter lock (size 49.20 mm 26.20mm) and 1.2 mm inter lock (size 34.40 mm, 32.10 mm) sections all aluminum members (total weight kg/sqm) will be anodized to aluminum bronze/silver color with a coat not less than 15 micron in thickness and density of 4 mg per square cm etc. including all accessories like sliding door key lock, sliding door wheel, sliding door, mohair, sliding door neoprene, bolts and nuts including sealants, keeping provision for fitting 5 mm thick glass including labor 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.	sft	1,440.00		
23	Supplying fitting and fixing of aluminium corrugated curtain wall as per the U.S. Architectural Aluminum Manufacturer's Association (AAMA) standard specification and BDS 1879:2014 having minimum 1.2 mm thick bottom cover (size 17.40 mm 31.78 mm, 0.250 kg/m), minimum 1.2 mm thick fixed bottom (size 76.20 m 38.10 mm, 0.640 kg/m), minimum 1.2 mm thick groove cover (size 57.15 mm, 15.80 mm 0.362 kg/m), minimum 1.2 mm thick top and side (size 76.2 mm, 57.15 mm, 0.769 kg/m) and 1.5 mm thick spandrel (7.14 mm) sections of will be anodized to aluminum bronze/silver/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 rivet, screws fixed neoprene etc. complete in all respect as per drawing and accepted by the Engineer-in-charge.	sft	235.00		

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Item No.	Item Description	Unit	Quantity	Unit Rate (Tk.)	Amount (Tk.)
24	Supplying, fitting and fixing of aluminium sliding doors 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, 17.79 mm, 0.47 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 shutter bottom (size 60 mm, 24 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), 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/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 handle, sliding door key lock, sliding door wheel, sliding door mohlar, sliding door neoprene, bolts and nuts including sealants, keeping provision for fitting 5mm 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.	sft	45.00		
25	Supplying, fitting and fixing country made GP (Gress Porcellanto) -glazed or unglazed homogeneous floor tiles complying BDS ISO 13006: 2015, water absorption ≤ 0.5%, modulus of rupture (MOR) ≥ 27 N/mm ² , irrespective of color &/or design, with 20 mm thick cement sand (F.M. 1:2) mortar (1:4) base and raking out the joints with white cement including cutting and laying the tiles in proper way and finishing with care etc. all complete and accepted by the Engineer-in-charge. (Cement: CEM-I/II/B-M). GP (homogeneous) 600 mm x 600 mm floor tiles or any sizes.	sft	6,350.00		
26	Supplying, fitting and fixing country made glazed wall tiles complying BDS ISO 13006: 2015, irrespective of color &/or design, with 20 mm thick cement sand (F.M. 1:2) mortar (1:3) base and raking out the joints with white cement including cutting, laying and hire charge of machine and finishing with care etc. including cost of water, electricity and other charges complete in all respect and accepted by the Engineer-in-charge. (Cement: CEM-I/II/B-M). In floor, Stair, Wall tiles more than 250 mm x 330 mm & less than or equal to 250 mm x 400 mm in sizes.	sft	2,570.00		
27	Interior standard acrylic emulsion paint (plastic or matt finish) of approved best quality and colour delivered from authorized local agent of the manufacturer in a sealed container; applying to interior wall and ceiling with surface preparation including cleaning, drying, making free from dirt, grease, wax, removing all chalked and scaled materials, fungus, mending good the surface defects using sand paper and necessary scaffolding; applying necessary interior sealer of specified brand on prepared surface; then applying necessary interior putty of specified brand for levelling, spot filling, crack filling and cutting by sand paper/zero water paper; finally applying 2 coats of interior emulsion paint spreading by brush/roller/spray & necessary scaffolding etc. upto desired finishing, elapsing specified time for drying or recoating; all complete in all floors and accepted by the Engineer-in-charge.	sft	15,215.00		
28	Exterior standard acrylic emulsion paint of approved best quality and color having water resisting properties and resistance properties against fungi, fading & flaking delivered from authorized local agent of the manufacturer in a sealed container; applying to exterior surface with surface preparation including cleaning, drying, making free from dirt, grease, wax, removing all chalked and scaled materials, fungus, mending good the surface defects using sand paper and necessary scaffolding; applying necessary exterior sealer of specified brand on prepared surface; then applying necessary exterior putty of specified brand for levelling, spot filling, crack filling and cutting by sand paper/zero water paper; finally applying 2 coats of exterior emulsion paint spreading by brush/roller/spray & necessary scaffolding etc. upto desired finishing, elapsing specified time for drying or recoating; all complete in all floors and accepted by the Engineer-in-charge.	sft	15,345.00		
29	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 brush/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	1,120.00		
30	Premium French polishing to door and window frames, shutter and any other wooden surface by three coats over a coat of priming including putty, cleaning, finishing and polishing with sand paper etc. all complete in all floors and accepted by the Engineer-in-charge.	sft	616.00		
31	Supplying, fitting and fixing stainless steel (SS) stair railing of standard height with 2 mm thick 5C mm dia SS pipe for hand-rail, 2 mm thick 40 mm dia 5 nos vertical SS pipes in each flight, 1.5 mm thick 20 mm dia 5 nos horizontal SS pipes as per drawing, design including carrying, polishing, fabricating, welding and fixing with tread by 25 mm long royal bolt etc. all complete and accepted by the Engineer-in-charge.	sft	185.00		
32	Supplying, fitting and fixing verandah railing of standard height with 2 mm thick 50 mm dia SS pipe for hand-rail, 2 mm thick 40mm dia vertical SS post having pipe holder to provide hand rail and SS knob for horizontal pipe @ 900mm c/c: fitting by welding on 150 mm x 150 mm x 6 mm SS anchor plate at base, base plate fitting with the floor by 50mm long royal bolt, 1.5 mm thick 20 mm dia 8 nos horizontal SS pipes fitting with SS knob of vertical post including carrying, polishing fabricating etc. all complete and accepted by the Engineer-in-charge.	sft	185.00		
33	38 mm thick artificial patent stone (1:2:4) flooring with cement, best quality coarse sand (50% quantity of Sylhet sand or coarse sand equivalent F.M. 2.2 and 50% best quality local sand of FM 1.2) and 12 mm down well graded brick chips including breaking chips, screening, laying the concrete in alternate panels, compacting and finishing the top with neat cement and 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-I/II/B-M)	sft	6,770.00		

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Item No.	Item Description	Unit	Quantity	Unit Rate (Tk.)	Amount (Tk.)
34	Safety net with G.I Wire. Supply, fabrication, installation and taking out temporary horizontal safety net around construction work place where public safety is likely to be endangered due to construction activities, which shall be made of Chain link net with 24 BWG wire fitted at 15'-0" height horizontally of the outer periphery of the building with 75mmx40mmx5mm MS Channel post and purlin, 20mm MS Rod and 40mmx40mmx6mm MS Angle as ties etc. by standard anchoring and welding, nut-bolts etc., all complete and accepted by the Engineer-in-charge (Salvage materials shall be the contractors property after completion of work.) (Emergency portion of the building side)	sft	800.00		
35	Miscellaneous work, labours, materials test, any type of work, materials and accessories if necessary during construction. (In case of required set of Concrete Cylinder test, BUET or any other Govt organisations test fees shall be only paid to contractor by UCEP after submitting the money receipt along with test reports and any other materials test will be performed by the contractor's own cost.	LS	-		
(Part-2)-Sanitary & Water-Supply Works		Sub-Total Amount (Part-1)-(Inlc Govt. VAT)			
1	Supplying, fitting and fixing of European type country made best quality glazed porcelain combi closet (two piece), including plastic seat cover with soft closing, cistern system, water consumption 6 litre, siphon wash down/siphon jet single or dual flushing system which reduce water consumption, hygienic glaze in toilet bowl, glaze in inner waste line, round bowl, outlet range 280-305 mm. 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 with cement concrete and with wire mesh or rods if necessary, in all floors including making holes wherever required and mending good the damages and fitting, finishing, complete with all necessary fittings and connection approved and accepted by the Engineer-in-charge.				
1(a)	Approx. 668~750 x 356 ~430 mm size, minimum 37.0 kg of weight, Equivalent to COTTO C1390/Stella Isabella /RAK: Washington / RAK: Jumairah or similar brand	pcs	4.00		
2	Moving type push shower: Supplying and fitting-fixing stainless steel hand / push shower for ablution including hoister etc. all complete approved and accepted by the Engineer-in-charge.	pcs	4.00		
3	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, finishing etc. complete with all necessary fittings and connections approved and accepted by the Engineer-in-charge.				
3(a)	Approx. 554 X 439. X 249 mm size, minimum 12.5 kg of weight	each	2.00		

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Item No.	Item Description	Unit	Quantity	Unit Rate (Tk.)	Amount (Tk.)
4	Supplying, fitting and fixing of European type glazed porcelain low-down. 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 on walls or directly over water closet by necessary accessories, rowel plugs, 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.				
4(a)	Approx. 490 X 190 X 345 mm size, minimum 11.00 kg of weight	each	2.00		
5	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	24.00		
6	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	6.00		
7	Supplying, fitting and fixing of G.I. pipe with all special fittings, such as bends, elbows, sockets, reducing sockets, Tee, unions, joints etc. including cutting trenches where necessary and fitting the same with earth duly rammed and fixing in walls with holder bats and making hole in floors, walls and consequent mending good the damages etc. all complete in all respects approved and accepted by the Engineer-in-charge.				
7(a)	20 mm dia G.I. pipe with wall thickness 2.65 mm, outside diameter min 25.3 mm, weight 1.7 kg/m, can withstand min 50 kg/cm2 hydraulic pressure.	ft	60.00		
7(b)	25 mm dia G.I. pipe with wall thickness 3.35 mm, outside diameter min 31.7 mm, weight 2.59 kg/m, can withstand min 50 kg/cm2 hydraulic pressure.	ft	140.00		
7(c)	40 mm dia G.I. pipe with wall thickness 3.25 mm, outside diameter min 46.5 mm, weight 3.83 kg/m, can withstand min 50 kg/cm2 hydraulic pressure.	ft	60.00		
8	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.				
8(a)	19 mm dia, minimum wall thickness 3.5 mm	ft	120.00		
8(b)	25 mm dia, minimum wall thickness 4.4 mm	ft	40.00		
9	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 2.4 mm-2.76 mm, shutter/panel thickness 37.5 mm & weighing 27.00 kg/m2 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. GI 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	140.00		
10	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.				
10(a)	Groove size 40 mm x 40 mm (For laying 12 mm to 20 mm dia pipes)	ft	120.00		
11	Punching or cutting hole of any diameter in RCC floor for sanitary works.	pcs	~2.00		
12	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 BSTI 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	195.00		

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Item No.	Item Description	Unit	Quantity	Unit Rate (Tk.)	Amount (Tk.)
13	Supplying, fitting and fixing of 100 mm inside diameter & wall thickness 2.7 mm - 3.4 mm best quality uPVC rain water down pipe fitting, fixed in position with head and shoes, bends, min.20 mm width F.I. Bar clamp and nails, and including all accessories such as round grating/domed roof grating, bands, sockets approved and accepted by the Engineer-in-charge.	ft	75.00		
14	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.				
14(a)	CP angle stop cock	pcs	14.00		
15	C.P. towel shelf (600 mm long): Supplying, fitting and fixing of country made best quality towel rail/ring/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	6.00		
16	Porcelain 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	6.00		
17	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		
18	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				
18(a)	Approx. 100-125 mm dia stainless steel floor grating net	pcs	6.00		
19	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 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.				
19(a)	Round headed CP Conceal Bib Cock short body (Essco/coaster/star/diamond/delux/deco/orbed/delin/triple/master/classic headed or similar head)	each	12.00		
20	Supplying, fitting and fixing of best quality G.I. gate valve with sealant etc. complete approved and accepted by the Engineer-in-charge.				
20(a)	25 mm brass gate valve	each	4.00		
21	Supplying of country made glazed vitreous W/H wash basin 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 BSI 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. 457 x 406 mm. minimum weight 15.3 kg	each	6.00		

Arshad

Item No.	Item Description	Unit	Quantity	Unit Rate (Tk.)	Amount (Tk.)
22	Construction of septic tank of different sizes with walls of brick work in cement mortar (1:6) having a lining of minimum 125 mm R.C.C cast against the walls as per approved type plan over a brick flat soling and 150 mm thick reinforced cement concrete flooring (1:2.4) with 125 mm thick walls in partition and 12 mm thick cement plaster (1:4) with N.C.F. to insides of walls on floor and all around outside walls by 450 mm height at top including supplying, fitting and fixing of two R.C.C. Tees and providing 450 mm dia water sealed heavy type C.I. manhole cover with locking/unlocking arrangement and 100 mm thick R.C.C (1:2.4) top slab, including centering, shuttering, fabricating, casting and curing etc. complete up to required depth including necessary earth work in excavation and shoring, bailing out water and side filling including the cost of all materials, operations and incidental charges, etc. all complete as per type plan approved and accepted by the Engineer-in-charge (Rate is including cost of reinforcement and its fabrication, binding and placing). For 100 users	each	1.00		
23	Construction of masonry inspection pit with 250 mm thick brick work in cement mortar (1:4) including necessary earth work, side filling and one layer brick flat soling, 75 mm thick (1:3:6) base concrete for making invert channel and 12 mm thick (1:2) cement plaster with neat finishing etc. all complete up to a depth of 700 mm approved and accepted by the Engineer-in-charge (Clear 525 mm x 525 mm and depth 675 mm to 825 mm, average 750 mm for single 225 mm dia R.C.C. pipes and 400 mm PVC pipe with pit cover and 450 mm dia C.I. man-hole cover.)	each	12.00		
24	Miscellaneous work: any type of labour, materials and accessories if necessary during construction. (Site need base)	LS	-		
(Part-3)-Electrical Works		Sub-Total Amount (Part-2)-(In/c Govt. VAT)			
1	CONCEALED CONDUIT POINT WIRING (BYA WITHOUT SWITCH) Concealed conduit wiring for following point looping at the switch board with earth terminal with IC-2x1.5 sqmm PVC insulated cable (BYA) & IC-2x1.5 sqmm PVC insulated ECC (BYA) Green / Yellow bi-colour including circuit wiring (From SDB to Switchboard) with IC-2x2.5 sqmm PVC insulated cable (BYA) & IC-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 ebonyite sheet cover, fixing materials etc.				
1. a	Light/Exhaust or wall bracket fan point	point	94.00		
1. b	Fan Point	point	40.00		
2	56" Ceiling Fan: BRB/Energy pac/Client requirement -Input power (maximum 70 watt)	Each	40.00		
3	10" Exhaust fan plastic body (foreign made accepted / approved by the Engineer)	Each	6.00		
4	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 18 SWG galvanized plain sheer / PVC board (Self extinguishing 650 Degree Centigrade) of 76.2 mm (3") depth all electrical contacts shall be of brass / coppe				
4. a	4 Gang Switch	Each	15.00		
4. b	Gang Type Fan Regulator. Assembled and made in BANGLADESH / CHINA / INDIA / TURKEY / VIETNAM	Each	40.00		
5	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				
5. a	13 / 15/20 Single Switch socket. Assembled and made in BANGLADESH / CHINA / INDIA / TURKEY / VIETNAM	Each	20.00		
5. b	5/10 Single Switch socket. Assembled and made in BANGLADESH / CHINA / INDIA / TURKEY / VIETNAM	Each	15.00		
6	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.				
6. a	IC-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	190.00		

Arshad

Item No.	Item Description	Unit	Quantity	Unit Rate (Tk.)	Amount (Tk.)
6. b	1C-2x4.0 sqmm (BYA) cable with 4 sqmm (BYA) ECC wire through PVC pipe of minimum inner dia 16 mm having wall thickness of 1.5 mm	Meter	~60.00		
7	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.				
7. a	1C-4x35 sqmm (NYY) with 16 sqmm (BYA) ECC wire through PVC pipe of minimum inner dia 50 mm & wall thickness of 2.5 mm	Meter	~5.00		
7. b	1C-4x16 sqmm (NYY) with 16 sqmm (BYA) ECC wire through PVC pipe of minimum inner dia 40 mm & wall thickness of 2.2 mm	Meter	35.00		
7. c	1C-2x6 sqmm (NYY) with 4 sqmm (BYA) ECC wire through the PVC pipe of minimum inner dia 25 mm & wall thickness 1.7 mm	Meter	~5.00		
8	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, built-in type locking arrangement, Copper bar capacity 200-300 A, Size 12"1"1"6mm(4 No's) and 6"1"1"5mm(1 No) mounted on insulator at both ends, copper blocks for neutral and earth terminal, TPMCCBs 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.				
8. a	100A TPDB Incoming: 1x100A TPMCCB (10 KA) Outgoing: 3x63 TPMCCB (10 KA), 1x32 DPMCCB(10 ka)	set	1.00		
8. b	63A TPSDB Incoming: 1x63A TPMCCB (10 KA) Outgoing: 6x25 TPMCCB (10 KA), 6x16 SP-mcb(10 ka)	set	3.00		
8. c	32A DB-SDB Incoming: 1x32 A DP-MCCB(10 KA) Outgoing: 6x20 DPMCCB (10 KA), 6x16 SP-MCB(10ka)	set	1.00		
9	EARTHING: Earthing the electrical installation with 40 mm (1.5") dia G.I pipe (earth electrode) having 6.35 mm. dia hole across the pipe at 305 mm. interval securely bonded by soldering with 2 nos. of No-2 SWG HDBC earth leads (at the top of the electrode) with its protection by 20 mm. (3/4") dia G.I. pipe up-to plinth level run at a depth of 609.6 mm (2 ft) below G.L up-to main board to be earthen including necessary connecting copper sockets, bolts, nuts, etc. complete for maintaining earth resistance within 1 ohm Depth of bottom of main electrode at 37338 mm (122 5 ft) from G.L & length of electrode 36576 mm. (120 ft). 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 Ceiling round panel light, 24 Watt (Best quality) Wall light, 23 Watt (Best quality) Tube Light : (Best quality) 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).				
9. a	Material :MS sheet, Aluminium reflector, L-1210 mm B-100 mm.	each	13.00		
10	Material :MS sheet, Aluminium reflector, L-1210 mm B-100 mm.	each	13.00		
10. a	Material :MS sheet, Aluminium reflector, L-1210 mm B-100 mm.	each	13.00		
10. b	Material :MS sheet, Aluminium reflector, L-1210 mm B-100 mm.	each	13.00		
11	Material :MS sheet, Aluminium reflector, L-1210 mm B-100 mm.	each	13.00		
11. a	Material :MS sheet, Aluminium reflector, L-1210 mm B-100 mm.	each	13.00		
11. b	Material :MS sheet, Aluminium reflector, L-1210 mm B-100 mm.	each	13.00		
12	Material :MS sheet, Aluminium reflector, L-1210 mm B-100 mm.	each	13.00		
Sub-Total Amount (Part-3)-(In/c Govt. VAT)					

Item No.	Item Description	Unit	Quantity	Unit Rate (Tk.)	Amount (Tk.)
			Sub Total Amount	(Part-1+2+3)-(without VAT)	
				Add VAT as per Govt Rules	
				Add VAT as per Govt. Rules	
			Grand Total Amount	In/C Govt. VAT & AIT as per Govt. Rules	
				Say, Total Amount (In/C Govt. VAT & AIT)	
*NOTE :					
1. Contractors should not be quoted of any type of miscellaneous items.					
2. Contractors are requested to provide each unit rate inclusive Govt. VAT					
3. Items quantity and number of items of this BoQ subject to change based on physical site conditions					
4. The contractor shall perform all standard conventional material tests as directed by the engineer in charge.					
5. Contractor's bill will be made as per physical work progress and joint measurement by MB entry.					

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