

UCEP BANGLADESH

Project Name: Construction of a Semi-Pucca Building for Technical School

UCEP Mohsin Khulna Technical School

Address: Junction Road, Boikali, Boyra, GPO-9000, Khulna.

Summary

Sl No.	Name of the Items	Amount	Remarks
1	(Part-A): Civil Works		
2	(Part-B): Sanitary & Water Supply Works		
3	(Part-C): Electrical Works		
	Total Amount (In/c Govt. VAT)		
	Add Govt AIT		
	Total Amount (In/c VAT & AIT)		
In Words (Taka):			

01/08/21
Nikhil Chandra Majumder
Deputy Manager
Infra. Development
UCEP Bangladesh

UCEP BANGLADESH

Project Name: Construction of a Semi-Pucca Building for Technical School

UCEP Mohsin Khulna Technical School

Address: Junction Road, Boikali, Boyra, GPO-9000, Khulna.

BoQ

(Part-A): Civil Works					
Item No.	Description of Items	Quantity	Unit	Rate In Tk.	Amount In Tk.
01.(a)	Layout and marking for earthwork in excavation in foundation accepted by the Engineer-in-charge. [Plinth area of the structure shall be considered for measurement]	4,898.00	sft		-
01.(b)	Earth work in excavation in all kinds of soil for foundation trenches including layout, providing center lines, local bench-mark pillars, levelling, ramming and preparing the base, fixing bamboo spikes and marking layout with chalk powder, providing necessary tools and plants, protecting and maintaining the trench dry etc., stacking, cleaning the excavated earth at a safe distance out of the area enclosed by the layout etc. all complete and accepted by the Engineer-in-charge, subject to submit method statement of carrying out excavation work to the Engineer-in-charge for approval. However, engineer's approval shall not relieve the contractor of his responsibilities and obligations under the contract. Earthwork in excavation in foundation trenches up to 1.5 m depth and maximum 10 m lead	4,800.00	cft		-
02.	Sand filling in foundation trenches and plinth with sand having minimum F.M. 0.5 in 150 mm 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.	10,036.00	cft		-
03.	One layer brick flat soling in foundation or in floor with first class/picked jhama bricks (BDS 208) including preparation of bed and filling the interstices with local sand, leveling etc. complete and accepted by the Engineer-in-charge	5,400.00	sft		-
04.	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)	276.62	cft		-
05.	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) (75 mm thick damp proof course (1:1.5:3) with cement, Sylhet sand (F.M. 2.2) and stone chips.)	314.88	sft		-
06.	Brick works with first class bricks with cement sand (F.M. 1:2) mortar (1:6) 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)	1,034.62	cft		-


 04.03.26
 Nikhil Chandro Mojumder
 Deputy Manager
 Infra. Development
 UCEP Bangladesh

Item No.	Description of Items	Quantity	Unit	Rate In Tk.	Amount In Tk.
07.	Exposed 125 mm thick pointing ornamental brick work with automatic machine made 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	6,770.25	sft	-	-
08.	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 $f_{cu} = 19$ 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). Individual footing, Pedestal, column, Grade Beam, Floor slab, lintel, sunshade, false ceiling, stair case slab and step etc. up to ground floor.	3,404.11	cft	-	-
09.	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.	8,431.82	sft	-	-
10.	FORMWORK (Wooden): Centering and shuttering, including strutting, propping etc. (The formwork must be rigid enough both in and out of plane etc. and removal of form for: Individual footing, Pedestal, column, Grade Beam, Floor slab, lintel, sunshade, false ceiling, stair case slab and step etc. up to ground floor. etc.	6,169.63	sft	-	-
11.	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.	10,797.58	Kg	-	-


 Nikhil Chakrabarty
 Deputy Manager
 Infra. Development
 UCEP Bangladesh

Item No.	Description of Items	Quantity	Unit	Rate In Tk.	Amount In Tk.
12.	Supplying, fitting and fixing country made GP(Gross Porcellanto) - glazed or unglazed homogeneous floor tiles complying BDS ISO 13006: 2015, water absorption $\leq$ 0.5%, modulus of rupture (MOR) $\geq$ 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-II/B-M). In ground floor. GP (homogeneous) 400 mm x 400 mm floor tiles	4,541.32	sft		-
13.	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-II/B-M). In ground floor. Wall tiles less than, equal or equivalent to 250 mm x 330 mm in sizes	851.06	sft		-
14.	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 rft 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.	5,767.20	sft		-
15.	Colored: 0.27 mm thick galvanized iron plain sheet ridding with 300 mm lap on either side fitted and fixed with galvanized bolts and nuts etc. all complete and accepted by the Engineer-in-charge.	220.00	rft		-
16.	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.	3,542.38	Kg		-
17.	Supplying, fitting and fixing of best quality PVC board false ceiling (Drop/Plain) of size 600 mm x 600 mm of approved design, minimum PVC content of 35%, 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. (6 mm thick PVC board false ceiling)	2,833.63	sft		-


 04.03.20
 Nikhil Chandro Mojumder
 Deputy Manager
 Infra. Development
 UCEP Bangladesh

Item No.	Description of Items	Quantity	Unit	Rate In Tk.	Amount In Tk.
18.	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.	2,620.75	sft	-	-
19.	Silicon based water repellent of approved quality delivered from authorized local agent of the manufacturer in a sealed container; 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 3 coats of silicon based water repellent on exposed brick surface/fair face surface 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	13,806.75	sft	-	-
20.	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.	1,502.50	sft	-	-
21.	Premium Synthetic Enamel paint of approved best quality and colour delivered from authorized local agent of the manufacturer (Berger robbialac supergloss synthetic enamel/Elite lucky seven/ Asian apcolipe premium paint or equivalent brand) in a sealed container, having highly water resistant, high bondability, flexibility property; using specified brand thinner applying to metallic surface by 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 accepted by the Engineer-in-charge. (payment shall be made on structural steel weight basis)	3,542.38	Kg	-	-


 Nikhil Chandra Mojumder
 Deputy Manager
 Infra. Development
 UCEP Bangladesh

Item No.	Description of items	Quantity	Unit	Rate In Tk.	Amount In Tk.
22.	Supplying, fitting and fixing window grills of any design made with 20 mm x 5 mm F.I. bar @ 100 mm c/c as inner and outer section; including fabricating, welding, cost of electricity and tools and plants, finished with anti-corrosive painting (Red-Oxide), carriage, cutting grooves, mending good the damages etc. complete for all floors accepted by the Engineer-in-charge. (Total weight per sqm should be approx. 11 kg. and add or deduct. @ Tk. 100.00 for each kg/sqm excess or less respectively)	488.25	sft		-
23.	Supplying and laying of single layer polythene sheet weighing one kilogram per 6.5 square meter in floor or any where below cement concrete complete in all respect and accepted by Engineer-in-charge.	4,898.00	sft		-
24.	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 chowkat 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. (Rate is excluding the costs of painting).	147.00	sft		-
25.	Supplying, fitting and fixing of the best quality any sizes upVC plastic door shutter with frame having specific gravity of 1.35 - 1.45, panel wall thickness 1.7 mm-2.2 mm, shutter/panel thickness 37.5 mm & weighing 17.25 kg/m2 and other physical, chemical, thermal, fire resistivity properties etc. as per BSTI approved manufacturer standards and ASTM, BS/ISO/IS 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 Ncs. Ø 3.17 mm and 3.97 mm 12.7 mm long rivets, 12 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 inner joint, 234.95 mm x 127 mm clamp, 76.2 mm x 57.15 mm, 6 Ncs. GI clamp, 2 nos. outer GI joint clamp making necessary grooves and mending good the damages, finishing, curing, carrying the same to the site and local carriage etc. complete in all respect and accepted by the Engineer-in-charge	122.50	sft		-


 Nikhil Chandro Mojumder
 Deputy Manager
 Infra. Development
 UCEP Bangladesh

Item No.	Description of Items	Quantity	Unit	Rate In Tk.	Amount In Tk.
26.	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. (Rate is excluding the cost of paint).	80.00	sft	-	-
27.	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.	852.25	sft	-	-
28.	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 mohlar, 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.) Anodized to any colour	488.25	sft	-	-


 Nikhil Chandro Majumder
 Deputy Manager
 Infra. Development
 UCEP Bangladesh

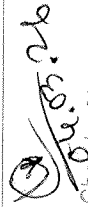
Item No.	Description of Items	Quantity	Unit	Rate In Tk.	Amount In Tk.
29.	Supplying, fitting and fixing in Aluminium door frames, windows, partitions and curtain wall distortion free glass of approved quality and shade including cost of fitting fixing all necessary accessories etc. complete in all respect as per drawing and accepted by the Engineer-in-charge. (5 mm thick clear glass)	488.25	sft		-
30.	Miscellaneous work; any type of work, Additional materials, labor and other accessories if necessary during construction. (Site need base)	1.00	LS		-
Sub Total Amount (Tk.) For (Part-A) - Civil Works (In/C Govt. VAT)					
(Part-B): Sanitary & Water Supply Works					
Item No.	Description of Items	Quantity	Unit	Rate In Tk.	Amount In Tk.
01.	Supplying of country made glazed vitreous W/H wash basin of any color including pedestal. (Approx. 648 x 488 mm, minimum weight 20 kg) 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.	9.00	each		-


 Nikhil Chandra Majumder
 Deputy Manager
 Infra. Development
 UCEP Bangladesh

Item No.	Description of Items	Quantity	Unit	Rate In Tk.	Amount In Tk.
02.	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. (Approx. 520 X 406.4 X 223.52 mm size, minimum 10.0 kg of weight)	3.00	each		-
03.	Supplying, fitting and fixing of plastic low-down of any color, on walls or directly over water closet with necessary accessories, 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.	3.00	each		-


 Nikhil Chandra Mojumder
 Deputy Manager
 Infra. Development
 UCCEP Bangladesh

Item No.	Description of Items	Quantity	Unit	Rate In Tk.	Amount In Tk.
04.	Supplying, fitting and fixing of European type country made best quality glazed porcelain combi closet (two piece) (Approx. 639~670 X 370 ~399 mm size, minimum 32.5 kg of weight, Equivalent to RAK :Orient Standard /Stella: Verso or similar brand), 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 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 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, fixing, finishing, complete with all necessary fittings and connection approved and accepted by the Engineer- in- charge.	3.00	each	-	-
05.	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. (Groove size 40 mm x 40 mm (For laying 12 mm to 20 mm dia pipes)	120.00	rft	-	-
06.	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. (Local Mirror, 5 mm thickness)	36.00	sft	-	-
07.	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.	9.00	each	-	-


 Nikhil Chandro Mojumder
 Deputy Manager
 Infra. Development
 UCEP Bangladesh

Item No.	Description of Items	Quantity	Unit	Rate In Tk.	Amount In Tk.
08.	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. (C.P iron bracket toilet paper holder)	6.00	each		-
09.	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. C.P. soap tray of standard size	9.00	each		-
10.	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. (12 mm CP open Bib Cock)	6.00	each		-
11.	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. CP angle stop cock	12.00	each		-


 Nikhil Chandro Mojumder
 Deputy Manager
 Infra. Development
 UCEP Bangladesh

Item No.	Description of Items	Quantity	Unit	Rate In Tk.	Amount In Tk.
12.	Supplying, fitting and fixing of best quality pillar cock made from copper or copper alloy, chromium plated materials. 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. (CP Round headed fixed Pillar cock)	9.00	each		-
13.	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. (600 mm long C.P. single towel rail)	6.00	each		-
14.	Supplying and fitting-fixing stainless steel hand / push shower for ablution including holder etc. all complete approved and accepted by the Engineer- in- charge. (Moving type push shower)	3.00	each		-
15.	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 (Approx. 100 mm x 100 mm stainless steel floor grating net)	9.00	each		-
16.	Supplying, fitting and fixing of best quality G.I. gate valve with sealant etc. complete approved and accepted by the Engineer- in- charge. (25 mm brass gate valve)	3.00	each		-
17.	Supplying, fitting and fixing of food graded plastic overhead water reservoir /tank including all necessary fittings, hardware and consumables etc. all complete approved and accepted by the Engineer- in- charge. (1000 liter capacity)	1.00	each		-
18.	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.				
18(a)	Clear 450 mm x 450 mm and depth 450 mm to 600 mm, average 525 mm for single 150 mm dia R.C.C. pipes and 400 mm PVC pipe.	10.00	each		-
18(b)	(Master-pit of Size: Clear 600 mm x 500 mm and average 750 mm depth for Septic tank.)	2.00	each		-


 Nikhil Chandra Mojumder
 Deputy Manager
 Infra. Development
 UCEP Bangladesh

Item No.	Description of Items	Quantity	Unit	Rate In Tk.	Amount In Tk.
19.	Supplying different inside dia best quality CPVC pressure pipe for water supply having specific gravity 1.35 - 1.45, 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, with all accessories such as round grating/domed roof grating, bends, sockets etc. approved and accepted by the Engineer-in-charge. 3/4" or 19 mm dia CPVC pipe for plumbing purpose (19 mm dia wall thickness 2.9 mm - 3.4 mm)	250.00	rft		-
20.	Supplying different inside dia 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. (50 mm inside dia wall thickness 2.5 mm - 3.0 mm)	110.00	rft		-
21.	Supplying different inside dia 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. (100 mm inside dia wall thickness 3.4 - 4.0 mm)	170.00	rft		-
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 soiling 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 sealer 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 50 users)	1.00	each		-


 M. Khil Chaitro Mojumder
 Deputy Manager
 Infra Development
 UCCF Bangladesh

Item No.	Description of Items	Quantity	Unit	Rate In Tk.	Amount In Tk.
23.	Construction of soak well of different sizes (as per detail drawing attached in annexure) (medium and large sizes) with 250 mm thick solid brick work and 250 mm honey comb brick work with cement mortar (1:6) as per design over R.C.C. (1:2:4) well curb with 1% reinforcement up to the depth as per drawing with 450 mm dia water sealed heavy type. C.I. manhole cover with locking arrangement, filling the well up to the required depth with graded khoa including supplying and fabricating M.S. rod, casting, curing including necessary earth work in excavation, side filling and bailing out water including cost of all materials etc. all complete as per drawing, design approved and accepted by the (Rate is including cost of reinforcement and its fabrication, binding and placing) Engineer- in- charge. (For 50 users)	1.00	each		-
Sub Total Amount (Tk.) For (Part-B) -Sanitary & Plumbing Works (In/C Govt. VAT)					
(Part-C): Electrical Works					
Item No.	Description of Items	Quantity	Unit	Rate In Tk.	Amount In Tk.
01.	SURFACE CONDUIT POINT WIRING (BYA) (WITHOUT SWITCH) Surface 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 Switch Board) 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 inner dia with L5 mm wall thickness complete with 18 SW/G GP sheet / PVC switch board and pull box (preferably concealed) with 3 mm thick ebonite sheet cover, without switch, fixing materials, other accessories etc. as required including mending the damages good. All electrical contacts shall be of brass / copper connected through connector or soldering (no twisting shall be allowed) and cables shall be manufactured and tested according to IEC / BS / VDE standards along with relevant BDS standard as per detailed specification mentioned in Annexure- 1. The work shall be carried out as per direction & approval of the Engineer In Charge. Cable manufacturer(s) must have valid type test certificate (within last seven years) from internationally accredited laboratory (like CPRI, KEMA etc) accepted / approved by the Engineer In Charge.				
1(a).	Light/Exhaust or wall bracket fan point	50.00	Point		-
1(b).	Fan Point	36.00	Point		-


 Nikhil Chandra Mojumder
 Deputy Manager
 Infra. Development
 UCCEP Bangladesh

Item No.	Description of Items	Quantity	Unit	Rate In Tk.	Amount In Tk.
02.	CELLING FAN (1442 mm. (56") Sweep): Supplying & fixing AC capacitor type ceiling fan (without regulator) of following specifications and sizes complete with minimum 305 mm (1 ft) long and 0.75 -1.0" dia, 2.3 mm thickness MS pipe down rod, tempered cast aluminum blades, 2.5 µf 400V AC capacitor, canopy, double Z ball bearing, best quality silicon sheet core, best quality copper made super enamel wire, aluminum alloyed casting body / metal body having safety pin with powder coated heat / docu paint as required as per BDS 818 etc. connecting PVC wire complete as required. (BRB/Energy pac/Client Requirement) Rated voltage : 230 volts Rated frequency : 50 Hz Rated speed : 300 rpm ± 5 % Service value : Minimum 3.5 m3 / min / watt Temperature rise : Maximum 55°C Class of Insulation : Minimum E Noise level : Maximum 60 db at a distance of 1 meter. Input power : Maximum 70 watt.	36.00	each		-


Nikhil Chandra Mojumder
Deputy Manager
Infra. Development
UCEP Bangladesh

	Item No.	Description of Items	Quantity	Unit	Rate In Tk.	Amount In Tk.
	03.	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 sheet/ PVC board (Self-extinguishing 650 Degree Centigrade) of 76.2 mm (3") depth. All electrical contacts shall be of brass / copper. ASSEMBLED AND MADE IN BANGLADESH / CHINA / INDIA / TURKEY / VIETNAM				
	3(a).	1 Gang Switch	20.00	Each		-
	3(b).	2 Gang Switch	2.00	Each		-
	3(c).	4 Gang Switch	18.00	Each		-
	3(d).	One gang switch & one 5/10 Amps. 2-pin socket combined	10.00	Each		-
	3(e).	Gang Type Fan Regulator, Assembled and made in BANGLADESH / CHINA / INDIA / TURKEY / VIETNAM	36.00	Each		-
	04.	UNIVERSAL COMBINED SWITCH SOCKET 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.				
	4(a).	13 / 15/20 Single Switch socket- Assembled and made in BANGLADESH / CHINA / INDIA / TURKEY / VIETNAM	30.00	each		-
	05.	TUBE LIGHT FITTINGS (LED): Providing & fixing the 4' x 40 watt tube light fitting with superior quality electronic driver of one year guarantee, holder, necessary wiring with 2x0.4 sq. mm PVC insulated (stranded) flexible FR wire, earth terminal etc. (except lamp) The Fittings shall be suitable for use of LED lamp and complete sample to be accepted / approved by the Engineer-in-charge (with 2 years warranty). Light source 20W LED T-8 tube Material : MS Sheet L-1235mm B-50mm P-40mm Gloria cat no-GTF (LED) 751x1x20W Energy + EPIL-43001 Cosmo cat no-BDTCL-TLF-02 Asha Cat no-ACS-335x1x40W CRESCENT CITLS-7x1x40 Watt or equivalent.	36.00	each		-


 Nikhil Chandra Mojamder
 Deputy Manager
 Infra. Development
 UCEP Bangladesh

Item No.	Description of Items	Quantity	Unit	Rate In Tk.	Amount In Tk.
06.	LED BULBS: Supply & fixing of the following LED bulbs & tube lamps manufacturers by OSRAM / SIGNIFY (PHILIPS) ENERGY PAC / CBE / CORONA / HAVELLS / GE / EDISON / EASTREN / PRODIP / MEP / METRO / MEGAMAN / WALTON / HARMONICS / SUPERSTER / TRANSTEC / ENERGY+ / GLORIA / ADEX / PASHA / SQ / COSMO or equivalent brand accepted / approved by the Engineer-in-charge (with 2 years warranty). LED Bulb -15 watt (Washroom)	9.00	each	-	-
07.	CIRCUIT BREAKER (SPMCB): 5 - 40 Amps (minimum 6 KA) Providing & fixing on a prepared board 250 volt grade following single pole miniature circuit breaker (SPMCBs) having minimum breaking capacity 6-KA / 10 KA with thermal over-current and instantaneous electromagnetic short circuit release provision as per BDS IEC and IEC / VDE / NEMA / BS / JIS standards. SPMCBs accepted/ approved by the Engineer-in-Charge.				
08.	TP MCB (5 - 60 Amps): Providing & fixing on a prepared board 500 volt grade following Triple pole miniature circuit breaker (TP MCB) having minimum breaking capacity 6-KA / 10 KA with thermal over-current and instantaneous electromagnetic short circuit release provision as per BDS IEC and IEC / VDE / NEMA / BS / JIS standards. TP MCBs accepted/ approved by the Engineer-in-Charge.	22.00	each	-	-
09.	TP MCCB (15 - 100 Amps): Providing & fixing on a prepared board 500 volt grade following Triple pole molded case circuit breaker (TP MCCB) having minimum breaking capacity 6-KA / 10 KA with thermal over-current and instantaneous electromagnetic short circuit release provision as per BDS IEC and IEC / VDE / NEMA / BS / JIS standards. TP MCCBs accepted/ approved by the Engineer-in-Charge.	6.00	each	-	-
10.	Cable Works from LT Panel to Main Distribution Board, Sub-distribution Boards: WIRING (NYY/THROUGH PVC PIPE) Providing & laying of the following PVC insulated & sheathed cable (NYY) / (XLPE) insulated & PVC sheathed cable (2XXY) with PVC insulated Green / Yellow bi-colour ECC wire (BYA) connecting at both ends, through PVC pipe & accessories in the following manner. All electrical contacts shall be of brass / copper connected through connector or soldering (no twisting shall be allowed) and cables shall be manufactured and tested according to IEC / BS / VDE standards along with relevant BDS standard as per detailed specification mentioned in Annexure-1. The work shall be carried out as per direction & approval of the Engineer in Charge. In kutcha ground by cutting 45.70 cm width x 91.40 cm depth trench with necessary brick or tile protection and mending the damages good by refilling trench with proper compaction. In pucca floor through PVC pipe by cutting trench of necessary size and mending the damages good by brick soling. 75 mm (1.2:4) CC work with neat cement finishing etc. Cable manufacturer(s) must have valid type test certificate (within last seven years) from internationally accredited laboratory (like CPRI, KEMA etc.) accepted / approved by the Engineer In Charge.	3.00	each	-	-


 Nikhil Chandra Mojmunder
 Deputy Manager
 Infra. Development
 UCEP Bangladesh

Item No.	Description of Items	Quantity	Unit	Rate In Tk.	Amount In Tk.
10(a).	IC-2x6 sqmm (NYY / 2XY) with 6 sqmm (BYA) ECC wire through the PVC pipe of minimum inner dia 25 mm & wall thickness 1.7 mm	100.00	rft		
11.	ELECTRICAL WIRING BYA Cable: Surface channel wiring/concealed Conduit wiring/Circuit Wiring with the following PVC insulated stranded cable (BYA) & green Colored PVC insulated ECC wire (BYA) through PVC Conduit/Channel (RFL, Aziz or equivalent) complete with fixing materials & other accessories as specified, Manufacturer of cable Eastern/BRB/RR Imperial or equivalent according to the Specification & direction of the Engineer-in-charge.				
11(a).	BRB-BYA-FR IC-2x2.5 sq. mm (BYA) cable with 2.5 sqmm (ByA) ECC wire through PVC Pipe/Channel of 25 mm Width.	600.00	rft		
12.	ELECTRICAL WIRING BYA Cable: Surface channel wiring/concealed Conduit wiring/Circuit Wiring with the following PVC insulated stranded cable (BYA) & green Colored PVC insulated ECC wire (BYA) through PVC Conduit/Channel (RFL, Aziz or equivalent) complete with fixing materials & other accessories as specified, Manufacturer of cable Eastern/BRB/RR Imperial or equivalent according to the Specification & direction of the Engineer-in-charge.				
12(a).	BRB-BYA-FR IC-2x4.0 sq. mm (BYA) cable with 4.0 sqmm (ByA) ECC wire through PVC Pipe/Channel of 25 mm Width.	300.00	rft		
13	Supply & Install of Electrical Distribution/MCB BOX – 6 TO 9 WAY, Brand: Super Star or equivalent.all complete and accepted by the Engineer-in-charge.	3.00	Each		
14	Miscellaneous work; any type of work, Additional materials, labor and other accessories if necessary during construction. (Site need base)	1.00	LS		
Sub Total Amount (Tk.) For (Part-C) -Electrical Works (In/c Govt. VAT)					
Total Amount (Tk.) (Part-A+B+C) In/c VAT					
Add Govt AIT					
Grand Total Amount (including Govt VAT & AIT)					
In Words (Taka):					

Note:

1. Quotation for miscellaneous items is not required in this financial offer.
2. Any deviation from the specified item descriptions will not be accepted.


 Nikhil Chandra Mojmunder
 Deputy Manager
 Infra. Development
 UCEP Bangladesh

