

UCEP BANGLADESH

**Bill of Quantities (BOQ) for Repair and Maintenance Works of Tin-Shed Building
UCEP Chhoto Bonogram City Corporation Technical School**

209/1, Chhotobongram Professor Para, Sopura, Chandrima, Rajshahi.

Bill of Quantities (BOQ), Construction Cost

(PART-1)- Classroom Renovation Works of Tin-Shed School Building

Item No.	Description of Items	Quantity	Unit	Unit Rate (Tk.)	Amount (Tk.)
1	Labour for taking out C.I. sheet roofing. All completed as per direction of Engineer-in-charge.	3,750.00	sft	-	-
2	Supply and installation of 0.457 mm thick corrugated galvanized iron sheet (Bangladesh made-PHP-Arabian Horse/AKS-Cow Brand) having min weight 63-65 kg per bundle (2'-8" width, 10'-0" ft long) fitted and fixed on M.S. sections with 'J' hook or wooden purlin with screws, limpet washers and putty etc. (up to level-4) all complete and accepted by the Engineer-in-charge.	3,750.00	sft	-	-
3	Taking out of hard board ceiling, walling etc. All completed as per direction of Engineer-in-charge.	1,522.00	sft	-	-
4	Supplying, fitting and fixing of 9 mm thick plain gypsum board ceiling (Drop/Plain) laminated by mechanical hot press milk white PVC membrane, framing by aluminium/ powder coated aluminium T-bar of any colour and of natural anodized finish suspended in 600 mm x 600 mm grid from ceiling by 12 SWG double ply wire, fixed to the ceiling by rowel plug, screws, hooks, nails etc., maintaining straight lines and desired finished level at bottom face including vertical wooden strut as required, making holes in slabs or beams by electric drill machine and mending good the damages, if any during execution of the work, including the provisions of lighting arrangement, also including cost of all materials, electricity, accessories, scaffoldings, labour for installation, screws, nails, etc. all complete as per drawing, design and accepted by the Engineer-in-charge. Measurement will be taken as per finished surface area (Rate is excluding cost of polish/ paint etc. of any type where necessary).	1,522.00	sft	-	-
5	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/gray-oxide primer etc. (up to level-4) all complete as per drawing, specification and direction of Engineer-in-charge.	500.00	kg	-	-
6	SPMCB Supplying, assembling, fitting, fixing & installation (with effective connection) on a prepared board 250/500v/cilt grade following single/triple pole SPMCB/DPMCB/TPMCCB/TPMCCB having minimum breaking capacity 6/10/16KA with thermal over current & instantaneous electromagnetic short circuit release provision. Manufacturer of SPMCB/TPMCCB/TPMCCB (6/10/16 KA) Dorman smith (UK/ Germany) MEM (UK), ABB (Italy), Legrand (France), Hager (France)/SIEMENS (USA/Germany) or equivalent approved by the Engineer-in-charge. "SPMCB (6KA) : 32 amps (6KA) SPMCCB Manufacturer of SPMCB/TPMCCB/TPMCCB (6/10/16 KA) Dorman smith (UK/ Germany), MEM (UK), ABB (Italy), Legrand (France), SIEMENS (USA/Germany) or equivalent approved by the Engineer-in-charge."	6.00	each	-	-

Item No.	Description of Items	Quantity	Unit	Unit Rate (Tk.)	Amount (Tk.)
7	TUBELIGHT FITTINGS WITH STAND: Providing & fixing the 4' x 40 watt tube light fitting with superior quality electronic driver of one year guarantee, holder, necessary wiring with 2 X 0.4 sq. mm PVC insulated (stranded) flexible FR wire, earth terminal etc. (except lamp), 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). Brand: SuperStar, Light source: 20W LED T-8 tube Material: MS Sheet L- 1235mm, B- 50mm, P-40mm Gloria cat no-GTF (LED) 751 X1 X 20W Energy +EPIL-43001 Cosmo Cat No-ACS-335 X1 X 40W Crescent-CTLS-7x1x40 Watt or equivalent	12.00	each	-	-
8	BRB Cable: 1C- 1 x 1.5 Sq. mm BYA (7W)	18.00	Coil	-	-
9	BRB Cable: 1C- 1 x 2.5 Sq. mm BYA (7W)	6.00	Coil	-	-
10	UPVC Pipe for Electric Conduit: Wall grade 3/4"/ 19 mm dia pipe, 1.2mm thick	60.00	pcs	-	-
11	CEILING FAN 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 casing 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. Brand: Click (RFL)/BRB 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. (1442 mm. (56") Sweep Input power (Maximum 65 watt.)	20.00	each	-	-
12	Supply & Install of Pvc Electric Circular/Round Junction box (4" x 4"), Brand: SuperStar/Pran-Rfl	72.00	each	-	-
13	Supply, Fitting & Fixing of Pvc Electric Tee (3/4"), Brand: SuperStar/Pran-Rfl	30.00	each	-	-
14	Supply, Fitting & Fixing of 2 pin 5 Amps socket outlet, Brand: SuperStar/ Pran-Rfl	12.00	pcs	-	-
15	Supply, Fitting & Fixing of Pvc Electric Elbow (3/4"), Brand: SuperStar/Pran-Rfl	60.00	pcs	-	-
16	Supply & Install of 10 Gang/Hole Piano Type Switch Board, Brand: Click	6.00	pcs	-	-
17	Supply & Install of SPST Switch, Brand: Click/ SuperStar	60.00	each	-	-
18	Supply & Install of 6A Fuse Cut Out Piano Switch Socket, Brand: SuperStar	6.00	each	-	-
19	Supply & Install of Ceiling Rose , Brand: SuperStar	42.00	each	-	-
20	Supply & Install of Electrical Distribution/MCB BOX – 2 TO 3 WAY, Brand: SuperStar	6.00	pcs	-	-
21	Supply, Fitting & Fixing of Emergency LED light (AC/DC, 18W, B22/PIN), Brand: Walton	12.00	pcs	-	-
22	Supply, Fitting & Fixing of Batten Holder, Brand: SuperStar	24.00	pcs	-	-

Item No.	Description of Items	Quantity	Unit	Unit Rate (Tk.)	Amount (Tk.)
23	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. Part-1 (In/c Govt. VAT & AIT)					


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Item No.	Description of Items	Quantity	Unit	Unit Rate (Tk.)	Amount (Tk.)
(PART-2)-Construction of Three New Washrooms					
1	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.	145.00	sft	-	-
2	Brick works with first class bricks with cement sand (F.M. 1:2) mortar (1:4) in foundation, plinth & Superstructure, 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)	250.00	cft	-	-
3	125 mm brick works with first class bricks with cement sand (F.M. 1:2) mortar (1:4) and making bond with connected walls including necessary scaffolding, raking out joints, cleaning and soaking the bricks for at least 24 hours before use and washing of sand, curing at least for 7 days in all floors including cost of water, electricity and other charges etc. all complete and accepted by the Engineer-in-charge. (Cement: CEM-II/B-M) In ground floor	775.00	sft	-	-
4	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	-	-
5	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-M)	1,350.00	sft	-	-
6	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 including laboratory test fees, the cost of reinforcement and its fabrication, placing, binding etc. and the cost of shuttering & centering)(Grade beam, Tie Beam, Column, Footing, lintel, Sunshade and other structural component etc.	292.00	cft	-	-
7	FORMWORK (Wooden): Centering and shuttering, including strutting, propping etc. The formwork must be rigid enough both in and out of plane, to make the concrete surface true to the designed shape and size by using necessary etc. and removal of form for: Grade beam, lintel, Sunshade and other structural component etc.	390.00	sft	-	-


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Item No.	Description of Items	Quantity	Unit	Unit Rate (Tk.)	Amount (Tk.)
8	Supplying, fabrication and fixing to detail as per design : Grade 400 (B400DWR / B420DWR: complying BDS ISO 6935-2:2016 / ASTM A615) ribbed or deformed bar produced and marked including straightening and cleaning rust, if any, bending and binding in position with supply of G.I. wires, conducting necessary laboratory tests etc. (excluding splices or laps) complete in all respect and accepted by the Engineer-in-charge (Measurement shall be recorded only on standard mass per unit length of bars, while dia of bars exceeds its standard) according to Bangladesh standard, with minimum yield strength, fy (ReH)= 400 MPa but fy not exceeding 480 MPa and whatever is the actual yield strength within allowable limit as per BNBC/ACI 318, the ratio of ultimate tensile strength fu to 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 : up to ground floor.ribbed or deformed bar reinforcement (excluding laboratory test fees) for Reinforced concrete, produced and marked in accordance with BDS ISO 6935-2:2016 (or standard subsequently released from BSTI)	1,005.00	kg	-	-
9	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)	45.00	cft	-	-
10	Supplying, fitting and fixing country made GP(Gress Porcellanto) - glazed or unglazed homogeneous floor tiles complying BDS ISO 13006: 2015, water absorption $\leq 0.5\%$, 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-II/B-M). In ground floor (GP-homogeneous) 300 mm x 300 mm floor tiles)	160.00	sft	-	-
11	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.	450.00	sft	-	-



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Item No.	Description of Items	Quantity	Unit	Unit Rate (Tk.)	Amount (Tk.)
12	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.	695.00	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)	80.00	sft	-	-
14	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/m ² 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 Nos. 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 Nos. 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	6.00	nos.	-	-
15	Supplying, fitting and fixing of country made glazed vitreous W/H wash basin of any color including pedestal. (Approx. 584 x 437 mm, minimum weight 20 kg) including fitting fixing the same in position with heavy type C.I. brackets, 44mm dia PVC waste water pipe with brass coupling (not exceeding 750mm in length), 12mm dia plastic connection pipe with brass coupling, 12mm dia brass stop cock, 12mm dia C.P. pillar cock, 30mm dia C.P. Basin waste with chain plug including making holes in walls and floors and fitting with royal plug, screws and mending good the damages etc. all complete as per direction of the E-I-C. 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 sanitary ware shall conform BDS1162:2014.)	3.00	nos.	-	-

Item No.	Description of Items	Quantity	Unit	Unit Rate (Tk.)	Amount (Tk.)
16	Glass plate Shelf: 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.	3.00	nos.		-
17	Long Oriental Pan: Supplying, fitting and fixing superior quality Asian Water Closet (Long Oriental Pan) with foot rest of vitreous China and preparing the base of pan with cement concrete (1:2:4) and with wire net or rods including making holes wherever required and mending good the damages, The sanitary ware shall conform BDS1162:2014. 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. (Approx. 554 X 439. X 249 mm size, minimum 12.5 kg of weight)	3.00	nos.		-
18	Supplying, fitting and fixing of plastic low-down (Asian cistern) of any color, on walls or directly over water closet with necessary accessories (C.I. brackets including supplying best quality 40mm dia PVC flush pipe with brass coupling (not exceeding 1.80m in length), 12mm dia plastic connection pipe with brass coupling, 12mm dia brass stop cock, 12mm dia ball cock and pulling chain etc.), 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	nos.		-
19	Towel rail: Supplying, fitting and fixing of country made best quality towel railing/shelf minimum 20 mm in dia with C.P. holder including making holes in walls and mending good the damages with cement mortar (1:4) etc. all complete approved and accepted by the Engineer- in- charge.(600 mm long C.P. single towel rail)	3.00	nos.		-
20	Mirror: 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)(Size:450mmx300mm)	3.00	nos.		-
21	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.(C.P iron bracket toilet paper holder-Size: 150mmx150mmx126mm)	3.00	nos.		-
22	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)	3.00	nos.		-
23	Floor Gratings: Supplying, fitting and fixing 100 mm dia Stainless steel floor Gratings on floor drains with cement mortar (1:4) including making holes in walls or floors and mending good the damages etc. all complete as per direction of the E-I- C	3.00	nos.		-

Item No.	Description of Items	Quantity	Unit	Unit Rate (Tk.)	Amount (Tk.)
24	Groove cutting in brick work and R.C.C work , including cost for concealing of water distribution & Electric 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)	15.00	meter	-	-
25	Bib cock: 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. Round headed CP Conceal Bib Cock short body (Essco/coaster/star/diamond/delux/deco/orbed/delin/triple/master/classic headed or similar head)	6.00	each	-	-
26	CENTRIFUGAL PUMP MOTOR SET: 1HP, Discharge (Liter/min): 20-100, Head (meter): (32-20), Suction Dia: 25mm, Delivery Dia: 25mm SINGLE STAGE (SINGLE PHASE) (For lower capacity/smaller household requirement) Providing of single stage (2800-2900) RPM monoblock type Centrifugal water pump motor set (reservoir to overhead tank) manufactured according to relevant BDS standard and ISO 9906:2012, GRADE 3B/ DIN/ NEMA/ IEC/ BS/ VDE/ .11S/CEI 2-3/ CSA/ GS/ SONCAP/ ROHS & ISO 9001 (Quality) ISO 14001 (Environment and Safety) standard of following capacity suitable for operation at single phase, 230 V ± 5 %, 50 VIZ AC having insulation: B & protection: IPX4 (minimum) & CE certified Country of Manufacture: Bangladesh/ China/ Vietnam/ Malaysia as per sample accepted / approved by the Engineer-in-charge.	1.00	set	-	-
27	INSTALLATION OF WATER PUMP MOTOR (Up to 3 HP): Installation, testing and commissioning of the following capacity centrifugal water pump-motor set on 304.8 mm (1") high (152.4 mm below and 152.4 mm above floor level) CC (1:2.4) base of required size with 12.7 mm (h") thick (1 :4) cement plastering and neat cement finishing over the exposed CC surface, providing and fixing necessary bolts, nuts, vibration isolator with making all electrical and pipe connection as per direction of the Engineer-in-charge.	1.00	job	-	-


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Item No.	Description of Items	Quantity	Unit	Unit Rate (Tk.)	Amount (Tk.)
28	<p>CONCEALED WIRING (BYA) Concealed conduit wiring with the following PVC insulated stranded cable (BYA) & PVC insulated Green / Yellow bi-colour ECC wire (BYA) through PVC conduit of reputed manufacturer complete with 18 SWG GP sheet pull box with 3mm thick ebonite sheet cover, 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. 1 Cables manufactured by Govt. of Bangladesh owned / shared company ltd. (Eastern cables) approved by the Engineer In Charge. (1C-2x1.5sqmm (BYA) cable with 1.5sqmm (BYA) ECC wire through PVC pipe of Minimum inner dia 20 mm & minimum wall thickness 1.5 mm)</p>	25.00	meter	-	-
29	<p>PVC Electric Conduit PIPE: (Minimum inner dia 20 mm & minimum wall thickness 1.5 mm.) Providing & laying of following PVC pipe (best quality PVC pipe of reputed manufacturer) embedded in wall / column / ceiling / floor etc. with all accessories, 18 SWG GP sheet pull box with 3 mm thick ebonite sheet cover, fixing materials etc. as required including mending the damages good.</p>	25.00	meter	-	-
30	<p>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. (19 mm dia wall thickness 2.9 mm - 3.4 mm)</p>	20.00	meter	-	-
31	<p>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)</p>	20.00	meter	-	-
32	<p>Construction of masonry inspection pits up to a depth of 700 mm with 250 mm thick brick work in cement mortar (1:4) including 100 mm thick R.C.C. top slab (1:2:4) with 1% reinforcement, man-hole cover with locking arrangement including necessary earth work, side filling and one 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 approved and accepted by the Engineer- in- charge. (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 with pit cover and 450 mm dia C.I. man-hole cover.)</p>	3.00	each	-	-


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Item No.	Description of Items	Quantity	Unit	Unit Rate (Tk.)	Amount (Tk.)
33	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 10 Users)	1.00	each		-
34	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 20 Users)	1.00	each		-
	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, Part-2 (In/c Govt. VAT & AIT)					
(PART-3)-Boundary Wall Renovation and Barbed wire installation Work- 300 rft with 40 Columns (10"x10")					
1	Dismantling of unserviceable/damaged brick works (with cement or lime mortar) of thickness 125 mm in foundation and superstructure and removal of debris to a safe distance.	640.00	sft		-
2	Dismantling of R.C.C. beam, lintel, column, Slab, drop wall, sun shade from any height and removal of debris to a safe distance.	280.00	cft		-
3	125 mm brick works with first class bricks with cement sand (F.M. 1:2) mortar (1:4) and making bond with connected walls including necessary scaffolding, raking out joints, cleaning and soaking the bricks for at least 24 hours before use and washing of sand, curing at least for 7 days in all floors including cost of water, electricity and other charges etc. all complete and accepted by the Engineer-in-charge. (Cement: CEM-II/B-M)	1,400.00	sft		-


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Item No.	Description of Items	Quantity	Unit	Unit Rate (Tk.)	Amount (Tk.)
4	Reinforced cement concrete works with minimum cement content relates to mix ratio 1:1.5:3 having maximum water cement ratio = 0.40 and minimum f'_{cr} = 33.5 MPa, satisfying a specified compressive strength $f'_{c} = 25$ MPa at 28 days on standard cylinders as per standard practice of Code ACI/BNBC/ASTM, Cement conforming to BDS EN-197-1-CEM-I, 52.5N (52.5 MPa) / ASTM-C 150 Type - I, best quality Sylhet sand or coarse sand of equivalent F.M. 2.2 and 20 mm down well graded stone chips conforming to ASTM C-33 (Aggregate grading as per table shown in technical specification), conducting necessary tests, making and placing shutter in position and maintaining true to plumb, making shutter water-tight properly, placing reinforcement in position; mixing with standard mixer machine with hopper, fed by standard measuring boxes, casting in forms, compacting by vibrator machine and curing at least for 28 days, removing centering-shuttering after specified time approved; including cost of water, electricity, other charges etc. all complete, approved and accepted by the Engineer-in-charge. (Rate is including laboratory test fees, the cost of reinforcement and its fabrication, placing, binding etc. and the cost of shuttering & centering)(Pedestals, column, column capital, Coping Beam, Grade Beam etc. & any other Structural Component.)	335.00	cft		
5	FORMWORK (Wooden): Centering and shuttering, including strutting, propping etc. The formwork must be rigid enough both in and out of plane, to make the concrete surface true to the designed shape and size by using necessary etc. and removal of form for: Column, Coping Beam, Grade beam, intel, Sunshade and other structural component etc.	1,635.00	sft		



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Social Enterprise Development
UCEP Bangladesh

Item No.	Description of Items	Quantity	Unit	Unit Rate (Tk.)	Amount (Tk.)
6	Supplying, fabrication and fixing to detail as per design : Grade 400 (B400DWR / B420DWR: complying BDS ISO 6935-2:2016 / ASTM A615) ribbed or deformed bar produced and marked including straightening and cleaning rust, if any, bending and binding in position with supply of G.I. wires, conducting necessary laboratory tests etc. (excluding splices or laps) complete in all respect and accepted by the Engineer-in-charge (Measurement shall be recorded only on standard mass per unit length of bars, while dia of bars exceeds its standard) according to Bangladesh standard, with minimum yield strength, fy (ReH)= 400 MPa but fy not exceeding 480 MPa and whatever is the actual yield strength within allowable limit as per BNBC/ACI 318, the ratio of ultimate tensile strength fu to 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 : up to ground floor, ribbed or deformed bar reinforcement (excluding laboratory test fees) for Reinforced concrete, produced and marked in accordance with BDS ISO 6935-2:2016 (or standard subsequently released from BSTI)	1,100.00	kg		-
7	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-M)	3,050.00	sft		-
8	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 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.	3,050.00	sft		-
9	Supplying, fitting and fixing 12 BWG barbed wire (2 ply, 4 points) in fencing work @ 150 mm c/c in both horizontally and vertically, supported by 38 mm x 38 mm x 6 mm M.S. L-shape angle post (300 mm embedded in R.C.C. or in brick work with a cement concrete base of 75 mm x 75 mm x 300 mm) 600 mm vertical and 450 mm inclined or as per requirement @ 2.4 m c/c including straightening, binding the joints with 18 BWG wire, making holes in the angle etc. including supplying all necessary materials complete in all respect and accepted by the Engineer-in-charge.	1,050.00	sft		-
10	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, Part-3 (In/c Govt. VAT & AIT)			


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Item No.	Description of Items	Quantity	Unit	Unit Rate (Tk.)	Amount (Tk.)
UCEP BANGLADESH Bill of Quantities (BOQ) for Repair and Maintenance Works of Tin-Shed Building UCEP Chhoto Bonogram City Corporation Technical School 209/1, Chhotobongram Professor Para, Sopura, Chandrima, Rajshahi. Bill of Quantities (BOQ), Construction Cost Summary of Bill of Quantities (BoQ)					
Sl No.	Name of the Items	Amount in Taka	Unit	Remarks	
1	(PART-1)-Classroom Renovation Works of Tin-Shed School Building.	-	-		
2	(PART-2)-Construction of Three New Washrooms	-	-		
3	(PART-3)-Boundary Wall Renovation and Barbed wire installation Work	-	-		
Grand Total Amount (In/c Govt. VAT & AIT)					
Say, Grand Total Amount (In/c Govt. VAT & AIT)					
<p>*NOTE : 1.Contractors should not be quoted for Miscellaneous items. 2.Contractors are requested to provide rate quotes for each item inclusive of VAT and AIT as per Govt. rules. 3.Items quantity and number of items subject to change based on physical site conditions (as per site need base). 4.The contractor shall perform all standard conventional material tests as directed by the engineer in charge. (if needed) 5.Contractors bill will be paid as per physical field measurement by MB entry.</p>					


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16

