


**UCEP BANGLADESH**  
**Bill of Quantities (BOQ) for Repair, Maintenance & Renovation Works of Two-Storeyed RCC School Building & Others.**

**UCEP Char Chakral Technical School**  
 Mia Khan Nagar, Bakalia, Chattogram-4000.  
 Bill of Quantities (BOQ), Construction Cost  
**Summary of Bill of Quantities (BoQ)**

SI No.	Name of the Items	Amount	Remarks
1	(PART-1)-Rigid Pavement for School Ground Assembly Area.	-	
2	(PART-2)- Repair and Maintenance of Semi-Pacca Tin Shed Buildings (Grade-Six to Eight)	-	
3	(PART-3)- Civil Works-Repair and Maintenance of Two-Story RCC Frame School Building	-	
4	(PART-4)-Electrical Maintenance Works	-	
5	(PART-5)-Construction of Three New Washrooms	-	
6	(Part 6)-Boundary Wall Height Extension with Barbed Wire Installation Work - 150 RFT and 9 Columns (12" x 12")	-	0
<b>Grand Total Amount (In/C Govt VAT &amp; AIT)</b>		-	

- \*NOTE :**
- Contractors should not be quoted for Miscellaneous items.
  - Contractors are requested to provide rate quotes for each item inclusive of VAT and AIT as per Govt. rules.
  - Items quantity and number of items subject to change based on physical site conditions (as per site need base).
  - The contractor shall perform all standard conventional material tests as directed by the engineer in charge.
  - Contractor bill will be paid as per physical field measurement by MB entry.


  
**Nikhil Chandro Mojumder**  
 Deputy Manager, Infrastructure Development  
 Society for Empowerment & Development  
 UCEP Bangladesh

**UCEP BANGLADESH**  
**Bill of Quantities (BOQ) for Repair, Maintenance & Renovation Works of Two-Stored RCC School Building & Others.**  
**UCEP Char Chakral Technical School**  
**Mia Khan Nagar, Bakalia, Chatoogram-4000.**  
**Bill of Quantities (BOQ), Construction Cost**


<b>[PART-1]- Rigid Pavement for School Ground Assembly Area</b>		<b>Description of Items</b>			<b>Quantity</b>	<b>Unit</b>	<b>Unit Rate (Tk.)</b>	<b>Amount (Tk.)</b>
1	Demolition of H.B.B. Brick soling and removal of debris to a safe distance all complete approved and accepted by the Engineer-in-charge.				1,650.00	sft		-
2	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.				1,650.00	sft		-
3	<b>RCC WORKS: 1:2:4 (measured on gross concrete section) (f<sub>c</sub> = 19 MPa, minimum f<sub>tr</sub> = 26 MPa in normal mix 1:2:4), with brick-chips (Sand of F.M. 1.2 and F.M. 2.2 in equal proportion). Reinforced concrete works with minimum cement content relates to mix ratio 1:2:4 having maximum water cement ratio = 0.45 and minimum f<sub>tr</sub> = 26 MPa, satisfying a specified compressive strength f<sub>cc</sub> = 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, 42.5N (42.5 MPa) / ASTM-C-150 Type -1, best quality sand (50% quantity of best local sand (F.M. 1.2) and 50% quantity of Spher 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 includ 1g 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 casing-shuttering after specified time approved, including cost of water, electricity, other charges etc. all complete, approved and accepted by the Engineer-in-charge.</b>				550.00	cft		-
4	<b>Subbling, fabrication and fixing MS rod, to detail as per design, Grade 400 (B400DVR / B-20DWR; 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, <math>\gamma_s</math> (F<sub>yk</sub>) = 400 MPa but by 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 (t<sub>u</sub>) to yield strength (F<sub>y</sub>) 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 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)</b>				1,335.00	kg		-
5	Sand filling in foundation trenches and plinth with sand having minimum F.M. 0.8 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.				2,475.00	cft		-
6	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, site 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 550 mm x 550 mm, 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.)				3.00	each		-
7	Supplying and laying UPVC pipe (150 mm dia with wall thickness 4.5 mm - 6.6 mm UPVC pipe) for underground including fitting, fixing etc. all complete approved and accepted by the Engineer-in-charge.				60.00	ft		-
8	Miscellaneous work, any type of work, Additional materials, labor and other accessories if necessary, during construction. (Site need bases)				1.00	L.S		-
<b>[PART-2]- Repair and Maintenance of Semi-Paces, Tin Shed Buildings (Grade-Six to Eight)</b>					<b>Sub-Total Amount [Part-1]-(In/c VAT &amp; AIT)</b>			
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.				945.00	sft		-
2	Sand filling in foundation trenches and plinth with sand having minimum F.M. 0.8 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.				1,415.00	cft		-
3	Stripping of unserviceable plaster including racking out joints, cleaning etc. all complete as per direction of the E.-C.				250.00	sft		-
4	<b>Plaster (2cm)</b> 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)				550.00	sft		-
5	Renewing of Exterior standard acrylic emulsion paint of approved brand and quality 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 interior sealer and necessary scaffolding, applying necessary exterior sealer of specified brand on prepared surface, then applying necessary exterior putty of specified brand for leveling, spot filling, crack filling and cutting by sand paper/zero water paper, finally applying 2 coats of exterior emulsion paint spread by brush/roller/spray & necessary scaffolding etc. upto desired finishing, elapsing specified time for drying or receding, all complete in all floors and accepted by the Engineer-in-charge.				1,350.00	sft		-
6	Renewing of Interior super premium acrylic emulsion painting (odorless) to walls and ceiling 2 coat (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 leveling, spot filling, crack filling and cutting by sand paper/zero water paper, finally applying 2 coats of interior emulsion paint spread by brush/roller/spray & necessary scaffolding etc. upto desired finishing, elapsing specified time for drying or receding, all complete in all floors and accepted by the Engineer-in-charge.				1,275.00	sft		-
7	Labour for taking out C.I. sheet roofing all complete as per direction of the E.-C.				1,750.00	sft		-
8	Supply and installation of 0.457 mm thick corrugated galvanized iron sheet (Bangladesh make-P-IP-Arabian Horse/ACS-Cow Brand) having min weight 63-65 kg per bundle (2'-8" width, 10'-0" 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.				1,750.00	sft		-

  
**Nikmil Chandro Mojumdar**  
 Deputy Manager, Infra. Development  
 UCEP Bangladesh


Item No.	Description of Items	Quantity	Unit	Unit Rate (Tk.)	Amount (Tk.)
9	0.27 mm thick galvanized iron plain sheet (Colored) ridging 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.	85.00	ft		-
10	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 sqm excess or less respectively)	300.00	sqft		-
11	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.	342.00	sqft		-
12	Taking out of Pyrogypsum board ceiling etc. All completed as per direction of Engineer-in-charge.	1,750.00	sqft		-
13	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 or any colour and of natural anodized finish suspended in 600 mm x 600 mm grid from ceiling by 12 SWG double dry wire, fixed to the ceiling by rowel plug, screws, hooks, nails etc., maintaining straight lines and desired finish 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 excavation of the work, including the provisions of lighting arrangement, also including cost of all materials, electricity, accessories, scaffolding, 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	1,750.00	sqft		-
14	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-I/II/B-M)	150.00	sqft		-
15	RCC WORKS: 1:2:4 (measured on gross concrete section): (FC = 19 MPa, minimum fcr = 26 MPa in nominal mix 1:2:4), with brick-chips (Sand of F.M. 1:2 and F.M. 2:2 in equal proportion)-Reinforced concrete concrete works with minimum cement content relate to mix ratio: 1:2:4 having maximum water cement ratio = 0.45 and minimum fcr = 26 MPa, satisfying a specified compressive strength fcr = 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 -1, 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 pocked bituma 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. (Footing, Column, Linel, Floor etc.)	436.00	cu		-
16	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, Inlet, Sunshade and other structural component etc.	1,325.00	sqft		-
17	Supplying, fabrication and fixing to detail as per design: Grade 400 (B400D)/Fcr: 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 3% 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)	1,965.00	kg		-
18	Miscellaneous work: any type of work, Additional materials, labor and other accessories if necessary during construction. (Site head base)	1	LS		-
<b>PART-3: Civil Works: Repair and Maintenance of Two-Story RCC Frame School Building</b>		Sub-Total Amount (Part-2) (inc VAT & AIT)			-
1	Renewing of Exterior standard acrylic emulsion paint of approved brand and quality 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 speed red brand on prepared surface, then applying necessary exterior putty of specified brand for leveling, 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 recasting; all complete in all floors and accepted by the Engineer-in-charge.	4,475.00	sqft		-
2	Renewing of Interior super premium acrylic emulsion painting (odorless) to walls and ceiling 2 coat (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 leveling, 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 recasting; all complete in all floors and accepted by the Engineer-in-charge.	7,725.00	sqft		-
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-I/II/B-M)	290.00	sqft		-
4	Stripping of unserviceable plaster including raking out joints, cleaning etc. all complete as per direction of the E-I-C.	1,130.00	sqft		-

  
 Nikhil Chandro Moulinda  
 Deputy Manager, Infra. Development  
 Social Enterprise Development  
 UCEP Bangladesh

Item No.	Description of Items	Quantity	Unit	Unit Rate (Tk.)	Amount (Tk.)
5	<b>Plaster(2mm)</b> 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	1,130.00	sft	-	-
6	About for taking out C.I. sheet roofing all complete as per direction of the E-I-C	440.00	sft	-	-
7	Supply and installation of <b>0.457 mm thick corrugated galvanized iron sheet</b> (Bangladesh make-PHP-Arabian Horse/ACS-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 pulin with screws, Impet washers and putty etc. (up to level-4) all complete and accepted by the Engineer-in-charge.	440.00	sft	-	-
8	<b>Wooden frame</b> Supplying and making door and window frames with seasoned wood of required size inc. painting two coats of coal tar to the surface in contact with wall, fitted and fixed in position and mending good any damage. (All sizes of wood are finished for all floors etc. all complete as per direction of the E-I-C. Methason wood, Upto Size 0-2" x 0-6" (finished)	4.00	cft	-	-
9	<b>Door shutter(wooden)</b> Supplying, fitting and fixing of 38 mm thick well matured seasoned (moisture content should be between 12% to 16%, solid wood 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 nos. 100mm long, 3mm thick hinge, 12mm dia 250mm long lower bolt, 12mm dia 200mm long socket bolt, 2nos 153mm long handle, hinged details and buffer blocks. All complete in all floors and accepted by the Engineer-in-charge.	40.50	sft	-	-
10	<b>Wood varnishing (Matt)</b> of approved quality and colour delivered from authorized local agent of the manufacturer in a sealed container using brand specified thinner to door and window frame and shutter in three coats, applied with brush including cleaning oil, grease, dirt, making dry, sand papering, if required washing with weak detergent solution, stippling, out the colour strags, finishing the surface, etc. all complete in all floors and accepted by the Engineer-in-charge.	525.00	sft	-	-
11	<b>MS door</b> , 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 chowka 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.	70.00	sft	-	-
12	<b>Wall tiles</b> Supplying, fitting and fixing glazed wall tiles-complying BDS (ISO 13006: 2015, irrespective of color &/or design, with 20mm thick cement mortar (1:3) with Portland Composite cement (CEM II/AM, 42.5N) and best quality sand (minimum FM1.2) base, raking out the joints and filling with white cement inc. cleaning the existing surface, cutting, strapping and laying the tiles in proper way, level and finishing with care, etc. all complete as per direction of the E-I-C. Glazed wall tiles, tiles less than or equivalent to 250mmx330mm in size	215.00	sft	-	-
13	<b>Homogeneous floor tiles</b> Supplying, fitting and fixing GP (Homogeneous) glazed homogeneous floor tiles complying BDS (ISO 13006: 2015, water absorption ≤ 0.5%, modulus of rupture (MOR) ≥ 27 N/mm <sup>2</sup> , irrespective of colour or design (country made) on 20mm thick cement mortar (1:4) with Portland Composite cement (CEM II/AM, 42.5N) and best quality sand (minimum FM1.2) base, raking out the joints and filling with white cement inc. cleaning the existing surface, cutting, strapping and laying the tiles in proper way, level and finishing with care, etc. all complete as per direction of the E-I-C GP (Homogeneous) 300x300 mm size glazed floor tiles on skirting.	265.00	sft	-	-
14	Taking out old unserviceable <b>MS window shutter/grill</b> etc. All completed as per direction of Engineer-in-charge	28.00	Each	-	-
15	Supplying, fitting and fixing <b>window grills</b> of any design made with 20 mm x 5 mm F.I. bar @ 130 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.	425.00	sft	-	-
16	(Total weight per ssm should be approx. 11 kg. and add or deduct @ Tk. 100.00 for each kds/ssm excess or less respectively) Supplying, fitting and fixing of <b>aluminum sliding window</b> as per the U.S. Architectural Aluminum Manufacturer's Association (AAWMA) 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 (s/z 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, 0.389 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 inner lock (size 34.40 mm, 32.13 mm, 0.562 kg/m) sections all aluminum members will be anodized to aluminum bronze/silver/stock colour with a coat not less than 15 microns in thickness or powder coated to any colour with a coat not less than 25 microns in thickness and density of 4 mg per square cm etc. including all accessories like sliding door key lock, sliding door wheel, sliding door mohar, sliding door neoprene, bolts and nuts including sealants, keeping provision for fitting 5 mm thick glass including labour charge for fitting of accessories, making grooves and mending good damages, carriage, and electricity complete in all respect as per drawing and accepted by the Engineer-in-charge.	275.00	sft	-	-
17	<b>Premium synthetic enamel paint</b> 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 <b>metallic or wooden surface</b> by brass/roll/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.	875.00	sft	-	-
18	Miscellaneous work, any type of work, Additional materials, labor and other accessories if necessary during construction. (Site need based)	1.00	L.S	-	-
<b>PART-4: Electrical Maintenance Works</b>		Sub-Total Amount (Part-3)-(Inc VAT & AIT)			
1	<b>CIRCUIT BREAKER (DPMC-30 amps-6KA)</b> Supplying, assembling, fitting, fixing & installation (with effective connection) on a prepared board 250/500volt grade (allowing single/double/triple pole SPMCB/DPMC/TPMCB/TPMCCB having minimum breaking capacity 6/10/16KA with thermal over current & instantaneous electromagnetic short circuit release provision, Manufacturer of SPMC/TPMCB/TPMCCB (6/10/16 KA) Dorman smith (UK/Germany) MEM (Lk), ABB (Italy), Legrand (France), Hager (France)/SIEMENS (USA/Germany) or equivalent approved by the Engineer-in-charge.	6.00	each	-	-

  
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 Deputy Manager, Infra. Development  
 Social Enterprise Development  
 UCEP Bangladesh

Item No.	Description of Items	Quantity	Unit	Unit Rate (Tk.)	Amount (Tk.)
2	<b>TPMCCB: 63 amps-10KA)</b> Supplying, assembling, fitting, fixing & installation (with effective connection) on a prepared board 500 volt grade following triple pole TPMCCB having minimum breaking capacity 6/10/16KA with thermal over current & instantaneous electromagnetic short circuit release provision. Manufacturer of TPMCCB (6/10/16 KA) Dornan smith (UK/ Germany) MEM (UK), ABB (Italy), Legrand (France), Hager (France)/SIEMENS (USA/Germany) or equivalent approved by the Engineer-in-charge.	1.00	each	-	-
3	<b>SOCKET OUTLETS: 3-Pin (13 / 15 / 16 / 20 Amps.)</b> Providing & fixing 250 volt single phase 3-pin combined switch socket outlet (surface / Concealed type) Manufactured / Assembled and tested in accordance with IEC / VDE / NEMA / BS / JIS along with relevant BDS IEC standard, mounted on required size 18 SWG galvanized plain sheet board / Plastic Board (Self-extinguishing 650 degree centigrade) of 76.2 mm, (3") depth. (Manufacturer shall have certificate of stancard which they follow). Assembled and made in BANGLADESH / CHINA / INDIA / TURKEY / VIETNAM/Brand: SuperStar/Pran-Riti or equivalent.	22.00	Each	-	-
4	<b>SOCKET OUTLETS: 2-Pin (5- 10 Amps.)</b> Providing & fixing 250 volt single phase 2-pin combined switch socket outlet (surface / Concealed type) Manufactured / Assembled and tested in accordance with IEC / VDE / NEMA / BS / JIS along with relevant BDS IEC standard, mounted on required size 18 SWG galvanized plain sheet board / Plastic Board (Self-extinguishing 650 degree centigrade) of 76.2 mm, (3") depth. (Manufacturer shall have certificate of stancard which they follow). Assembled and made in BANGLADESH / CHINA / INDIA / TURKEY / VIETNAM/Brand: SuperStar/Pran-Riti or equivalent.	13.00	Each	-	-
5	<b>TUBE LIGHT FITTINGS WITH STAND:</b> Providing & fixing the 4' x 4' 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 +EPL-43001 Cosmo Cat No-ACS-335 X1 X 40W Crescent-CTS-ZX1X40 Watt or equivalent.	13.00	each	-	-
6	<b>ELECTRICAL WIRING</b> BYA Cable: Surface channel wiring/concealed Conduit 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/BR3 or equivalent according to the Specification & direction of the Engineer-in-charge. BRB-BYA-FFR 1c-2X1.5 Sq.mm (BYA ) Cable (200mm) with 1.3 Sq.mm (100mm) (BYA) ECC wire through PVC Pipe/Channel of 25 mm Width.	300.00	meter	-	-
7	<b>ELECTRICAL WIRING</b> 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 or equivalent according to the Specification & direction of the Engineer-in-charge. BRB-BYA-FFR 1C-2X4 sq. mm (BYA) cable with 4 sqmm (BYA) ECC wire through PVC Pipe/Channel of 25 mm Width.	40.00	meter	-	-
8	<b>CELLING FAN</b> 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 ft 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 / dcou 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 (55") Sweeep Inout power (Maximum 65 watt )	15.00	each	-	-
9	<b>Ebonite Sheet:</b> Providing and fixing of 3mm thick ebonite sheet cover including making hole / groove etc. as required.	1.00	Per sqm	-	-
10	<b>CUT-OUT/PYANO FUSE</b> Supply & fixing 250 volt grade rewirable fuse link Plano Switch Socket outlet (Country made) on prepared board of the following ratings: 6 amp Rating. Brand: SuperStar or equivalent.	5.00	each	-	-
11	<b>PVC Electric Pipe Channel/Electric cable casing:</b> (Minimum Width 25 mm & minimum wall thickness 1mm.) Supply & fixing of following 25 mm Width PVC Electric Pipe Channel/Electric cable casing (best quality PVC Channel of reputed manufacturer like RFL or Equivalent) is installed along walls or ceilings to conceal and safeguard wiring for lighting fixtures, outlets, and switches, etc. with all accessories & fixing materials etc. as required including tending the damages good. The work shall be carried out as per direction & approval of the Engineer In Charge.	120.00	feet	-	-
12	<b>LIGHT FITTINGS:</b> Supply and installation of LED light fittings of the following types: 20W LED Bulb (Pin Type). Brand: (Super Star/Translec/ EnergyPac) complete with all other accessories as per specification, standard and approval of the Engineer.	50.00	each	-	-
13	<b>LIGHT FITTINGS:</b> Supply and installation of LED light fittings of the following types: 5W LED Bulb (Pin Type). Brand: (Super Star/Translec/ EnergyPac) complete with all other accessories as per specification, standard and approval of the Engineer.	10.00	Each	-	-
14	<b>SPST Switch:</b> Supplying, assembling, fitting, fixing & installation (with effective connection) on prepared board 250 volt 6 amp SPST type switch (Click/SuperStar or equivalent) Brand: mounted on Ebonite sheet board with other accessories as per drawing, specification & direction of the Engineer-in-charge.	66.00	Each	-	-
15	<b>WALL BRACKET FAN: 16" sweep (steel body and blade)</b> Providing and fixing of wall bracket fan of following sizes 16" sweep (steel body and blade) complete with blade, frame, built-in regulator, PVC insulated connecting wire etc. as required as per direction of the Engineer. (Foreign made)	4.00	Each	-	-

  
 Nikhil Chandro Mojumder  
 Deputy Manager, Infra. Development  
 Social Enterprise Development  
 UCEP Bangladesh

Item No.	Description of Items	Quantity	Unit	Unit Rate (Tk.)	Amount (Tk.)
<b>16</b>	<b>MSB BOARD:</b> Supplying and fixing of airtight type 18 SWG metal board of depth 228mm (9") duly painted with powder coating with epoxy polyester resin on all surfaces of board (gray off-white) having built in push type / suitable locking arrangement including metal bridges of suitable size for fixing of all electrical control devices complete with suitable anchoring arrangement in wall / column and keeping provision for cable inlets and exits as required (only front surface of the board will be considered for measurement) accepted/approved by the Engineer-in-charge Normal board (without water tight) Dimension: (2'-0" x 1'-6")	1.00	Per sqm	-	-
<b>17</b>	<b>GANG TYPE FAN REGULATOR:</b> Supplying, assembling, fitting, fixing & installation of 250 Volt 6 amp Gang Type Fan Regulator/Dimmer. Assembled and made in BANGLADESH / CHINA / INDIA / TIBREKAY / VIETNAM	5.00	Each	-	-
<b>18</b>	<b>HEAVY DUTY INDUSTRIAL EXHAUST FAN-16"</b> Supply and installation of Wall mounted heavy duty industrial exhaust fan: Type 230V-240V/400V-415V, 50 Hz, complete with stainless steel blade steel frame, standard wall louver shutter with necessary accessories (specially used for kitchen of hospital, student hostel/hall, Prison Cell, barrack, large auditorium etc.)	2.00	Each	-	-
<b>19</b>	Miscellaneous work: any type of work. Additional materials, labor and other accessories if necessary during construction. (Site need base)	1.00	L.S	-	-
<b>Sub-Total Amount (Part-4) (inc VAT &amp; AIT)</b>					
<b>[PART-5]: Construction of Three New Washrooms</b>					
<b>1</b>	One layer brick flat soiling in foundation or in floor with first class/pocketed flama bricks (BDS 208) including preparation of bed and filling the interstices with local sand, leveling etc. complete and accepted by the Engineer-in-charge.	150.00	sft	-	-
<b>2</b>	Sand filling in foundation trenches and plinth with sand having minimum F.M. 0.8 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.	600.00	cft	-	-
<b>3</b>	Supply and installation of <b>0.457 mm thick corrugated galvanized iron sheet</b> (Bangladesh made-PHP-Arabian Horse/ACS-Cow Brand) having min weight 63-65 kg per bundle (2'-6" width, 10'-0" ft long) fitted and fixed on M.S. sections with 'J' hook or wooden pulin with screws, limpet washers and putty etc. (up to level-4) all complete and accepted by the Engineer-in-charge.	150.00	sft	-	-
<b>4</b>	Brick works with first class bricks with cement sand (F.M. 1.2) mortar (1:4) in exterior walls including filling the interstices with mortar, raking out joints, cleaning and socking the bricks at least for 24 hours before use and washing of sand, necessary scaffolding, curing at least for 7 days etc. all complete including cost of water, electricity and other charges (measurement to given as 250 mm width for one brick length and 375 mm for one brick and a half brick length) accepted by the Engineer-in-charge. (Cement: CEM-I/II/B-M)	210.00	cft	-	-
<b>5</b>	Earth work in excavation in all kinds of soil for foundation trenches including layout, providing center lines, local bench-mark pillars, leveling, 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.	280.00	cft	-	-
<b>6</b>	Supplying, fitting and fixing of PP-R Pipe (19 mm dia, minimum wall thickness 3.5 mm) 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, and cap, plug, socket etc. as per manufacturer instruction, all complete accepted by the Engineer-in-charge.	60.00	ft	-	-
<b>7</b>	Supplying, fitting and fixing of PP-R Pipe (25 mm dia, minimum wall thickness 3.5 mm) 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, and cap, plug, socket etc. as per manufacturer instruction, all complete accepted by the Engineer-in-charge.	150.00	ft	-	-
<b>8</b>	Supplying, fitting and fixing with different inside dia. (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/SISO/S 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.	150.00	ft	-	-
<b>9</b>	<b>Plaster(12mm)</b> 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-I/II/B-M)	550.00	sft	-	-
<b>10</b>	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 soiling, 75 mm thick (1:3:6) base concrete for making invert channel and 12 mm thick (1:2) cement plaster with neat finishing etc. all complete approved and accepted by the Engineer-in-charge. (Clear 550 mm x 550 mm, single 150 mm dia R.C.C. pipes and 400 mm PVC pipe with 80 cover and 450 mm dia C.I. man-hole cover.)	2.00	each	-	-
<b>11</b>	<b>MS door:</b> 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 chokwat 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.	52.50	sft	-	-
<b>12</b>	<b>Long Oriental Pan:</b> 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.	3.00	nos	-	-
<b>13</b>	The sanitary ware shall conform BDS 1162:2014. 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	-	-
<b>14</b>	<b>Total Paper holder:</b> 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	-	-

Nikhil Chandra Mojumder  
 Deputy Manager, Infra. Development  
 Social IGCIP Bangladesh






Item No.	Description of Items.	Quantity	Unit	Unit Rate (Tk.)	Amount (Tk.)
7	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.	1,800.00	sf	-	-
8	Taking out unserviceable old MS gate and refitting after minor repair (excluding cost of material) etc. All completed as per direction of Engineer-in-charge.	1.00	Each	-	-
9	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-6)-(In/c Govt VAT & AIT)			-
		Grand-Total Amount (Part 1+2+3+4+5+6)-(In/c Govt VAT & AIT)			-

**\*NOTE:**

- Contractors should not be quoted for Miscellaneous items.
- Contractors are requested to provide rate quotes for each item inclusive of VAT and AIT as per Govt. rules.
- Items quantity and number of items subject to change based on physical site conditions (as per site need base).
- The contractor shall perform all standard conventional material tests as directed by the engineer in charge.
- Contractor bill will be paid as per physical field measurement by M/A entry.

  
 Nikhil Chandio Molimdet  
 Deputy Manager, Infra. Department,  
 Social Enterprise Development,  
 UCCEP, Bangladesh