

UCEP BANGLADESH

Project Name: Repair & Maintenance Works of Semi-Pacca Tin-Shed Building,

UCEP Khalishpur Technical School

Khalishpur Housing Estate, Khalishpur, Khulna.

Bill of Quantities (BOQ), Construction Cost

Item No.	Description of Items	Quantity	Unit	Unit Rate (Tk.)	Amount (Tk.)
1	Sand filling in foundation trenches and plinth with sand having minimum F.M. 1.2 in 150mm in layers including leveling, watering and compaction to achieve minimum dry density of 95% with optimum moisture content (Modified proctor test) by ramming each layer up to finished level as per design supplied by the design office only, all complete and accepted by the Engineer-in-charge.	12,750.00	cft		
2	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	6,350.00	sft		
3	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.	10,900.00	sft		

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Item No.	Description of Items	Quantity	Unit	Unit Rate (Tk.)	Amount (Tk.)
4	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) ≥ 27 N/mm ² , irrespective of color &/cr 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)	4,680.00	sft		
5	Colour wash with yellow orchard/any other colour pigment by two coats over a prime coat of white wash, lime mixture prepared at least 12 hours before use, slacking stone lime, supplying of gums, blue, stirring thoroughly, removing the floating materials from the mixer, surface cleaning to free from all foreign materials before application of each coat, applying one vertical and one horizontal wash for each coat and successive coat is to be applied after drying up of previous coat including hair brass, providing necessary scaffolding and cleaning plinth, floors, doors, windows, portions and ventilators by washing, rubbing, oiling if necessary after white wash for all floors including cost of water, electricity and other charges etc. complete in all respect in all floors and accepted by the Engineer-in-charge.	10,800.00	sft		
6	Manufacturing, supplying, fitting and fixing M.S. grill fencing as per design with outer frames having 38 mm x 38 mm x 6 mm M.S. angle and inner members having 10 mm dia M.S. rod placed @ 100 mm c/c diagonally on both direction, welding each criss-cross end of rod with corners of outer frame including cutting rods and size angles to required shapes and size and setting the entire fence with the previously installed box tube (box tube made with 2 nos. angle) post including thorough and full welding the frame with the angle box posts, painting 2 coats of synthetic enamel paint over a coat of anti-corrosive priming etc. all complete as per drawing and accepted by the Engineer-in-charge. (Rate is excluding the cost of paint)	840.00	sft		


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Item No.	Description of Items	Quantity	Unit	Unit Rate (Tk.)	Amount (Tk.)
7	<p>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, f_y (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 f_u to 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. 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)</p>	2,890.00	kg		
8	<p>Reinforced cement concrete works with minimum cement content relates to mix ratio 1:2:4 having maximum water cement ratio = 0.40 and minimum f_{cr} = 30.5 MPa, satisfying a specified compressive strength f_c = 22 MPa at 28 days on standard cylinders as per standard practice of Code ACI/BNBC/ASTM, cement conforming to BDS EN-197-1-CEM-I, 52.5N (52.5 MPa) / ASTM-C 150 Type – I, best quality Sylhet sand or coarse sand of equivalent F.M. 2.2 and 20 mm down well graded stone chips conforming to ASTM C-33 (Aggregate grading as per table shown in technical specification), conducting necessary tests, making and placing shutter in position maintaining true to plumb, making shutter water-tight properly, placing reinforcement in position; mixing in standard mixer machine with hopper fed by standard measuring boxes, casting in forms, compacting by vibrator machine and curing at least for 28 days, removing centering-shuttering after specified time approved; including cost of water, electricity, other charges etc. all complete, approved and accepted by the Engineer-in-charge. (Rate is excluding laboratory test fees, the cost of reinforcement and its fabrication, placing, binding etc. and the cost of shuttering & centering).</p>	1,880.00	cft		

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Item No.	Description of Items	Quantity	Unit	Unit Rate (Tk.)	Amount (Tk.)
9	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.	4,890.00	sft		
10	Supplying, fitting and fixing window grills made of 16 mm dia M.S. rod @ 100 mm c/c fitted with 3 (three) nos. horizontal M.S. flat bar (38 mm x 6 mm) including fabrication, welding, riveting, cost of electricity, workshop charges, carriage, fixing with clamps in wall/RCC member for all floors, finished with anti-corrosive painting (Red-Oxide) etc. complete and accepted by the Engineer-in-charge. (Total weight per sqm should be approx. 19 kg and add or deduct @ Tk. 100.00 for each kg/sqm excess or less respectively).	480.00	sft		
11	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 micrones in thickness or powder coated to any colour with a coat not less than 25 micrones in thickness and density of 4 mg per square cm etc. including all accessories like sliding door key lock, sliding door wheel, sliding door mohiar, 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.	480.00	sft		

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Item No.	Description of Items	Quantity	Unit	Unit Rate (Tk.)	Amount (Tk.)
12	Mass concrete in foundation (1:2:4) with brick chips and local sand of F.M. 1.2.	2,630.00	cft		
13	Labour charge for taking out & Installing of C.I. sheet roofing	4,500.00	sft		
14	Supplying timber (unfinished) for repairing in wood works: Teak Chambal/Other	8.50	cft		
15	C.I. Sheet (24 B.W.G.) 10'-0" X 2'-8" or any necessary size	15.50	Bundle		
16	Sanitary & Water Supply work for wash rooms and toilets	-			
17	Electrical works	-			
18	Miscellaneous work (any type of work, materials, payments as need base during construction)	-			
Total Amount including VAT & AIT as per Govt. Rules (Tk.)					

***NOTE: 1. Contractors should not be quoted for items No. 16 to No. 18.**

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.
5. Contractor bill will be paid as per physical field measurement by MB entry.

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