

Renovation Work of MTB – UCEP Skills Training Institute (MUSTI) Project

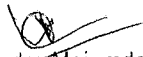
A.	Civil Work :				
Sl.	Description of Item	Quantity	Unit	Rate in (BDT)	Amount in (BDT)
1	Dismantling of unserviceable/damaged 125 mm thickness brick works, R.C.C false slab & kitchen shelf, bathtub, long pan in ground floor, first floor, second floor third floor and removal of debris to a safe distance. All complete as per approved design and direction of Engineer-in -charge. Note: a. 125 mm brick works = 1645 Sft b. False slab & shelf etc. = 350 Sft c. Bathtub & long pan = 60 Sft.	2,055.00	Sft		
2 (Provisional)	Removing existing Toilet fixture (High commode, wash basin i/c plumbing line etc.) in ground floor, first floor, second floor, third floor. All complete as per approved design and direction of Engineer-in -charge.	12.00	Nos		
3 (Provisional)	Removing existing wooden & uPVC door in ground floor, first floor, second floor, third floor. All complete as per approved design and direction of Engineer in -charge.	17.00	Nos		
4 (Provisional)	Removing existing glass partition, aluminium window & window grill in ground floor, first floor, second floor, third floor. All complete as per approved design and direction of Engineer-in -charge.	550.00	sft		
5	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 as per approved design and direction of Engineer-in -charge. (Cement: CEM-II/B-M) in ground floor, first floor, second floor, third floor.	1,300.00	sft		
6	Minimum 12 mm thick cement sand (F.M. 1.2) plaster (1:4) with fresh cement to 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 as per approved design and direction of Engineer-in -charge. (Cement: CEM-II/B-M) in ground floor, first floor, second floor, third floor.	2,300.00	sft		
7	Reinforced cement concrete works with minimum cement content relates to mix ratio 1:2:4 having maximum water cement ratio = 0.45 and minimum fcr = 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). In ground floor, first floor, second floor and third floor false slab, lintel, slab & kitchen shelf. All complete as per approved design and direction of Engineer-in -charge.	52.00	Cft		
8	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 etc. and removal of form for: In ground floor, first floor, second floor and third floor false slab, lintel, slab & kitchen shelf. All complete as per approved design and direction of Engineer-in -charge.	192.00	sft		
9	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 : In ground floor, first floor, second floor and third floor false slab, lintel, slab & kitchen shelf. All complete as per approved design and direction of Engineer-in -charge.	185.00	Kg		
Sub-Total "A"=					


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B.	Paint Work :				
Sl.	Description of Item	Quantity	Unit	Rate in (BDT)	Amount in (BDT)
1 (Provisional)	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 1 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 as per approved design and direction of Engineer-in -charge. In ground floor, first floor, second floor, third floor wall & ceiling surface.	10,800.00	sft		
2 (Provisional)	Standard 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 1 coats over single coat anti-corrosive coating including cleaning, drying, making free from dirt, grease, wax, removing all chalked and scaled materials. All complete as per approved design and direction of Engineer-in -charge. In ground floor, first floor, second floor, third floor wall & ceiling surface.	1,200.00	sft		
				Sub-Total "B"=	


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C.	Partition Work:				
Sl.	Description of Item	Quantity	Unit	Rate in (BDT)	Amount in (BDT)
1	Supplying, fitting and fixing of aluminium composite sliding/swing doors with fixed partition as per the U. S. Architectural Aluminium Manufacturer's Association (AAMA) standard specification and BDS 1879:2014 having 1.5 mm thick wall frame (size 101.60, 44.45 mm, 0.86 kg/m), 1.8 mm thick shutter side (size 54 mm, 46 mm, 1.2 kg/m), 0.99 mm thick door glass bit (size 16.54 mm, 14.49 mm, 0.115 kg/m), 1.8 mm thick closure section (size 101.54 mm, 42.93 mm, 1.20 kg/m), 1.5 thick closure cover (101.60 mm, 0.45 kg/m), 4 mm thick floor bottom (size 101.60 mm, 12.70 mm, 1 kg/m), 1.8 mm thick shutter bottom (size 86.60 mm, 43.99 mm, 0.60 kg/m), 1.8 mm thick shutter top (size 51 mm, 43.99 mm, 1.88 kg/m) 2.3mm to 4.01mm thick handle (short) (size 101.60 mm, 38.10 mm, 25.40 mm, 1.35 kg/m), minimum 1.2 mm thick top and side (size 101.60 mm, 44.45 mm, 0.934 kg/m), minimum 1.2 mm thick bottom (size 101.35 mm, 44.45 mm, 0.734 kg/m), minimum 1.2 mm thick bottom cover (44.32 mm, 19.61mm, 0.333 kg/m), minimum 1.2 mm thick groove cover (size 83.21 mm, 16.00 mm, 0.485 kg/m), 0.99 mm thick fixed glass protector (size 39.09 mm, 14.81 mm, 0.188 kg/m), 0.99 mm thick fixed glass protector bit (size 15.75 mm, 14.81 mm, 0.13 kg/m) section of all aluminum 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. (Total weight min 69.699 kg) keeping provision for 5 mm of glass panes with cost including all accessories like swing door clouser, swing door lock, swing door mohair, flush bolt, bolts and nuts including sealants, labour charge for fitting, fixing by angles, screws, mohair, washer, machinery, cost of fabrication, making the grooves, electricity etc. All complete as per approved design and direction of Engineer-in -charge. In ground floor, first floor, second floor, third floor. Anodized to any colour	450.00	sft		
2	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 mohair, 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. All complete as per approved design and direction of Engineer-in -charge. In ground floor, first floor, second floor, third floor. Anodized to any colour.	350.00	sft		
3	Supplying, fitting and fixing window grill made of 10 mm x 10 mm M.S. solid bar @ 100mm c/c with outer frame of 38 mm x 6mm F.I. bar and 25 mm x 6 mm F.I. bar for clamp as per design including fabrication, welding, cost of electricity workshop charges, carriage, cutting grooves, mending good the damages, tools and plants, finished with anti-corrosive painting (Red-Oxide) etc. . (Total weight per sqm should be approx 17 kg and add or deduct @ Tk. 100.00 for each kg/sqm excess or less respectively) in ground floor, first floor, second floor and third floor. All complete as per approved design and direction of Engineer-in -charge.	300.50	sft		
Sub-Total "C"=					


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D.	Floor Finish Work :				
Sl.	Description of Item	Quantity	Unit	Rate in (TK)	Amount in (TK)
1	Supplying, fitting and fixing country made mirror polished 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 as per approved design and direction of Engineer-in -charge. (Cement: CEM-II/B-M) In ground floor in ground floor, first floor, second floor and third floor. GP (mirror polished) 600 mm x 600 mm floor tiles.	925.00	sft		
2	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 as per approved design and direction of Engineer-in -charge. (Cement: CEM-II/B-M) In ground floor In ground floor, first floor, second floor and third floor. GP (homogeneous) 300 mm x 300 mm floor tiles.	400.00	sft		
3	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. All complete as per approved design and direction of Engineer-in -charge. (Cement: CEM-II/B-M) In ground floor In ground floor, first floor, second floor and third floor. GP (homogeneous) 300 mm x 300 mm floor tiles (Kitchen and toilet).	1,500.00	sft		
Sub-Total "D"=					
E.	Door Work :				
Sl.	Description of Item	Quantity	Unit	Rate in (BDT)	Amount in (BDT)
1 (Provisional)	Supplying, fitting and fixing of the best quality Glass swing door for Admission booth.	1.00	Nos		
2 (Provisional)	Supplying, fitting and fixing of the best quality any size Single leaf wooden door shutter with frame for guard bed room .	1.00	Nos		
3	Re-fitting and fixing work of existing wooden door shutter and frame in ground floor, first floor, second floor & third floor.	5.00	Nos		
4	Supplying, fitting and fixing of the best quality any size uPVC plastic door shutter with frame having specific gravity of 1.35 - 1.45, panel wall thickness 2.4 mm-2.76 mm, shutter/panel thickness 37.5 mm & weighing 27.00 kg/m ² and other physical, chemical, thermal, fire resistivity properties etc. as per BSTI approved manufacturer standards or ASTM, BS/ISO/IS standards and cosmic /Foam /aristocrat or equivalent standards of different sizes uPVC plastic door shutter with uPVC plastic frame (frame size:150mm x 62.50mm) fitting - fixing in brick wall/ R.C.C wall with at least 3 Nos. SS hinges by min 64 Nos. Ø 3.17 mm and 3.97 mm 12.7 mm long rivets, 24 nos. 25.4 mm SS screws, Ø 9.38 mm, 150 mm long SS tower bolts 2 nos., 146 mm SS handle by rivet ,6 Nos. GI clamp, 6 Nos. G.I inner joint, 234.95 mm x 127 mm clamp, 76.2 mm x 57.15 mm, including making necessary grooves and mending good the damages, finishing, curing, local carriage etc . All complete as per approved design and direction of Engineer-in -charge. In ground floor In ground floor, first floor, second floor and third floor. Quantity of doors 8 Nos.	140.00	sft		
5	Supplying, fitting and fixing hydraulic door closer (big size) of approved quality including all necessary tools and accessories etc. All complete and accepted by the Engineer-in-charge. Standard Quality	12.00	Nos.		
Sub-Total "E"=					


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F.	Plumbing and Sanitary Work :				
Sl.	Description of Item	Quantity	Unit	Rate in (BDT)	Amount in (BDT)
1	Supplying, fitting and fixing of European type country made best quality glazed porcelain combi closet (two piece), including plastic seat cover with soft closing, cistern system, water consumption 6 litre, siphon wash down/siphon jet single or dual flushing system which reduce water consumption, hygienic glaze in toilet bowl, glaze in inner waste line, round bowl, outlet range 280~305 mm. fitting, fixing, finishing, complete with all necessary fittings and connection approved and accepted by the Engineer-in-charge. Approx. 665~ 704 X 360~ 390 mm size, minimum 31.00 kg of weight; Equivalent to CHARU: CM18/ CHARU: CM15/Stella: Marcela/ RAK: Tampa/ Stella: Marcela or similar brand.	5.00	Each.		
2	Supplying of country made glazed vitreous W/H wash basin of any color including pedestal. Approx. 513 x 432 mm, minimum weight 17.8 kg . All complete and accepted by the Engineer-in-charge.	8.00	nos.		
3	Supply, fitting & fixing of soap tray (RAK/SATTAR/ Best Quality) of approved color and quality with necessary hardware etc. All complete and accepted by the Engineer-in-charge.	8.00	nos.		
4	Supply, fitting & fixing of Towel rail (SATTAR/RAK/Best Quality) of approved color with necessary hardware etc. All complete and accepted by the Engineer-in-charge.	8.00	nos.		
5	Supply, fitting & fixing of Paper holder (SATTAR/RAK/Best Quality) of approved color with necessary hardware etc. All complete and accepted by the Engineer-in-charge.	10.00	nos.		
6	Supply, fitting & fixing of Commode shower (Best Quality) of approved color with necessary hardware etc. All complete and accepted by the Engineer-in-charge.	10.00	nos.		
7	Supply, fitting & fixing of Mirror of best quality with necessary hardware etc. All complete and accepted by the Engineer in charge.	100.00	sft		
8	Supply, fitting & fixing of Stainless Steel sink (Best Quality / PWD Standard) size 508mmx 406mm of approved quality with necessary hardware etc. All complete and accepted by the Engineer-in-charge.	2.00	nos.		
9	Sanitary fittings				
a	Sink cock (Sattar/Sharif/ Best Quality)	2.00	Nos		
b	Angle stop cock (Sattar/Sharif/ Best Quality)	30.00	nos.		
c	Conceal Bib cock (Sattar/Sharif/ Best Quality)	10.00	nos.		
d	Sink Bib cock (Sattar/Sharif/ Best Quality)	2.00			
e	Pillar cock (Sattar/Sharif/ Best Quality)	10.00	nos.		
10	Internal & Extrenal Sanitary Conduit works including cost of 1"/0.75"/4" & 3" uPVC Pipe, fittings and accessories.	1.00	job		
11	SANITARY WORK: Installation of toilet accessories with necessary hardware (connection pipe, magic pipe, and any type of labour cost etc.)	1.00	job		
				Sub-Total "F"=	


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6.	Electrical Work				
1	<u>PVC Conduit (Pipe Fitting):</u> Supplied & Fitting, Fixing of PVC pipe/flexible conduit of following sizes through brick-wall, R.C.C slab, false ceiling, etc. including groove cutting, necessary binding wire & fixing circular boxes, junction boxes, bends, sockets, fish wire, all other accessories and including mending good all damages etc. All complete and accepted by the Engineer-in-charge.				
	3/4", 1" dia PVC Conduit	1,000.00	Rft		
2	<u>EXPOSED CONDUIT</u> Supply and laying of following PVC pipe exposed on false ceiling/Tray with galvanized saddle/hanger as per routing shown in the drawing, specification and direction. The rate shall be inclusive the cost of accessories such as bends, tees, sockets, circular boxes, pull wire etc. All complete and accepted by the Engineer-in-charge.				
	3/4", 1", 1.5" dia PVC Pipe	200.00	rft		
3	<u>Cable:(BRB/SQ/Eastern Cable/ Paradise etc)</u> Supplied & Fitting, fixing of PVC insulated or PVC sheathed cable through PVC conduit in concealed, under ground, surface etc including all necessary fitting fixing PVC tape, fish wire, soldering, connection etc. All complete and accepted by the Engineer-in-charge.				
	1C-1.3 rm BYA Cable (SB to light point)	12.00	Coil		
	1C-3.0 rm BYA Cable (SDB to SB and power point)	8.00	Coil		
4	<u>Earthing wire:</u> Supplied & Fitting, fixing ECC (Earth Continuity conductor) copper wire for earthing connection through PVC conduit in concealed, under ground, surface etc including all necessary fitting fixing PVC tape, fish wire, soldering, connection etc. All complete and accepted by the Engineer-in-charge.				
	1.5 re BYA ECC wire (SB to Power point)	5.00	Coil		
5	ELECTRICAL REARRANGEMENT WORK WITH NECESSARY MATERIALS Including necessary switch, socket, power point, Circuit breaker, wiring work and other necessary works.	1.00	job		
		Sub-Total of G Tk.			


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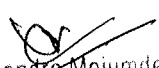

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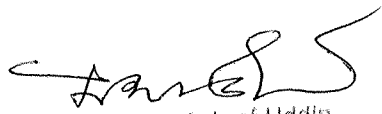
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Summary of BoQ

SI No	Description of Item	Amount in Taka	Remarks	
1	A-Civil Work			
2	B-Paint Work			
3	C-Partition Work			
4	D-Floor Finish Work			
5	E-Door Work			
6	F-Plumbing and Sanitary Work			
7	G-Electrical Work			
	Total Amount including Govt VAT			
	Add Govt AIT			
	Total Amount including Govt VAT & AIT			


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