

Office of the Executive Engineer
MODS Zone-7, Dhaka WASA
Dhaka WASA

Section: 6 (Bill of Quantities with technical specification)

Name of the Work: Repair and maintenance Sub-Store of Mods Zone-7 Dhaka WASA.

Item No.	Group	Item Code.	Description of Items of Works	Unit	Quantity	Unit rates or prices	Amount
1	2	3	4	5	6	7	8
1	Civil	1.7	Mobilization and cleaning site before commencing actual physical work and during contract period and demobilization after completion of the works under contract to be accepted by the Engineer-in-charge. This work shall also cover cleaning and clearing, cutting or filling, dressing the project area on and in the ground to an extent that all the events of works of the project can be executed smoothly in a working environment with a particular attention on safety and security in all respects, and to stockpile the end outcome to a place for disposal agreed by the Engineer-in-charge, where, payments are to be based on ground area determined by the Engineer-in-charge and be proportionate to the percentage progress of work under contract as a	sqm	65.428	218	14263.304
2	Civil	32.5.1.1	Dismantling of unserviceable/damaged brick works (with cement or lime mortar) of thickness 250 mm in foundation and superstructure and removal of debris to a safe distance.	sqm	32.714	538	17600.132
3	Civil	32.1	Stripping of unserviceable plaster including racking out joints, cleaning etc.	sqm	231.970	31	7191.07
4	Civil	4.3	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-II/B-M) In ground floor	cum	4.888	10097	49352.94677
5	Civil	15.1.1	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.	sqm	231.970	315	73070.55

Item No.	Group	Item Code.	Description of Items of Works	Unit	Quantity	Unit rates or prices	Amount
6	Civil	15.3	Minimum 12 mm thick cement sand (F.M. 1:2) plaster with neat cement finishing to dado with cement (1:4) up to 150 mm including washing of sand, finishing the edges and corners and 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.	sqm	28.996	395	11453.42
7	Civil	16.1.1	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. up to desired finishing, elapsing specified time for drying or recoating; all complete in all floors and accepted by the Engineer-in-charge.	sqm	231.970	274	63559.78
8	Electrical	1.2.1(ii)	Concealed conduit wiring with following PVC insulated and sheathed stranded cable (BYM) & PVC insulated green/white coloured ECC wire (BYA) through PVC conduit (Lira brand or equivalent product of other reputed manufacturer) complete with 18 SWG GP sheet. Cables manufactured by Eastern Cables Ltd or equivalent approved by the Engineering-in-Charge. b) 1C-2x2.5 sq. mm. (BYM) cable with 2.5 sq. mm (BYA) ECC wire through PVC pipe of min. inner dia 16 mm having wall thickness of 1.5 mm	rm	150.000	138	20700
9	Electrical	1.1.6(i)	Concealed conduit wiring for following point looping at the switch board with earth terminal with 1C-2x1.5 sqmm PVC insulated and sheathed stranded cable (BYM) & same size PVC insulated ECC (BYA) (Green / White color) including circuit wiring with 1C-2x2.5 sqmm PVC insulated and sheathed stranded cable (BYM) & same size PVC insulated ECC (BYA) Green / White color through PVC conduit (one conduit from switch board to common point on ceiling is considered to draw 3 pair of cable) of reputed manufacturer of minimum 25 mm Dia. & 1.5 mm wall thickness complete with 18 SWG GP sheet / PVC switch	nos	4.000	919.001	3676.004

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Item No.	Group	Item Code.	Description of Items of Works	Unit	Quantity	Unit rates or prices	Amount
10	Electrical	1.1.6(ii)	Concealed conduit wiring for following point looping at the switch board with earth terminal with 1G-2x1.5 sqmm PVC insulated and sheathed stranded cable (BYM) & same size PVC insulated ECC (BYA) (Green / White color) including circuit wiring with 1G-2x2.5 sqmm PVC insulated and sheathed stranded cable (BYM) & same size PVC insulated ECC (BYA) Green / White color through PVC conduit (one conduit from switch board to common point on ceiling is considered to draw 3 pair of cable) of reputed manufacturer of minimum 25 mm Dia. & 1.5 mm wall thickness complete with 18 SWG GP sheet / PVC switch board & pull box with 3mm thick ebonite sheet cover, without switch, fixing materials etc.(without switch) 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 relevant IEC / BDS / BS / VDE standards and as per detailed specification mentioned in Annexure-1. The work shall be carried out as per direction & approval of the Engineer. Cables manufactured by govt of BANGLADESH owned / shared company ltd. (Eastern cables) Providing & fixing the 1 x 4' x 40 watt fluorescent tube light fitting of following manufacturers model & catalogue number with superior quality electronic ballast 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) complete sample accepted / approved by the Engineer. GLORIA cat No. GTF-755x1x40 watt Dgn or equivalent product of ENERGY+. CRESCENT. SHWASH. ASHA.	nos	1,000	919.001	919.001
11	Electrical	6A.6.(i).(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 µf 400V AC capacitor, canopy, double Z ball bearing, best quality silicon sheet core, best quality copper made super enamel wire, aluminum alloyed casting body having safety pin with powder coated heat / docu paint as required etc. connecting PVC wire complete as required.Rated voltage : 220 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 : Class-F,Noise level: 60 db at a distance 1 meter 1400 mm (56") Sween	nos	4,000	1050	4200
12	Electrical	18.1.1		nos	2,000	4045.001	8090.002

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Item No.	Group	Item Code.	Description of Items of Works	Unit	Quantity	Unit rates or prices	Amount
13	Electrical	6A.9.(iii)(c)	FLOOD LIGHT FITTINGS (LED) Supply & fixing of LED flood light fitting of the following features and model with all necessary elements such as driver, chips etc. complete. Model & sample shall be approved by the Engineer. (i) ENERGY + model No - EPFDL - 17001 / 150 W or equivalent product of ENERGY +, GLORIA etc. (ii) Rated life : 50,000 hr. (minimum) (iii) Luminux flux : 100 + 1m/w (iv) LED chips : EDISON / EPISTOR / OSRAM / PHILIPS / CREE / BRIDGELUX. (v) Driver: MEANWELL / OSRAM / PHILIPS / IEC standard. (vi) Body: Aluminium body	nos	1.000	9539.001	9539.001
14	Civil	19.6	Supplying, fitting and fixing of rolling shutter of any design and shape made of 24 SWG G.P. sheet unit minimum 69 mm width having 10 mm and 12 mm dia circular folding at ends, rolled in machine, locked together properly to form rolling shutter, top of the shutter to be fitted with circular spring box made of 26 BWG sheet, containing best quality spring made in China, nutted with 38 mm G.I. pipe at one end and the other end nutted to shutter including fitting the G.I. pipe again with 375 mm x 300 mm x 6 mm pankha at ends with side guide channel (side channel consist of 50 mm x 100 mm x 6 mm M.S. plate with 2 mm x 19 mm x 3 mm F.I. bar, middle channel consist of 2 mm x 150 mm x 6 mm M.S. plate with 2 mm x 19 mm x 6 mm fixed to wall or column with clamps embedded in R.C.C. part by cement concrete (1:2:4) including cutting holes (minimum 3 mm x 25 mm x 6 mm) mending the damages, finishing, curing, bottom end of shutter fitted to folded G.P. sheet (min 125 mm width in two layers), which is again fitted to 25 mm x 25 mm x 3 mm angle, providing handle with F.I. bar 25 mm x 6 mm and locking	sqm	5.205	6420	33417.60857
15	Civil	13.10	Supplying, fitting, fixing fail pattern M.S window grill made of 25 mm dia M.S Plain Rod @ 75 mm c/c fitted and fixed with M.S Angle frame 65 mm x 65 mm x 6 mm size placed 5 Nos. Horizontally and 2 Nos. Vertically including fabricating, welding, drilling, cutting and riveting the F.I bar and M.S angle clamp 10 Nos. including making holes in RCC Column/ Brick wall, fixing the clamps and mending good the damages with C.C (1:1.5:3), finished with anti-corrosive paint (Red-Oxide painting) etc. all complete as per direction by Engineer-in-Charge.	sqm	2.324	9631	22380.18664

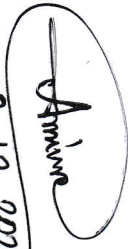
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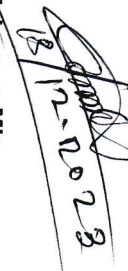
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Item No.	Group	Item Code.	Description of Items of Works	Unit	Quantity	Unit rates or prices	Amount
16	Civil	10.21	Supply and installation of 0.457 mm thick corrugated galvanized iron sheet (Bangladesh made) having min weight 63-65 kg per bundle (2'-6" width, 70 - 72 rft long) fitted and fixed on M.S. sections with "J" hook or wooden purlin with screws, limpet washers and putty etc. (up to level-4) all complete and accepted by the Engineer-in-charge.	sqm	69,899	578	40401.5467
Total:							379,814.55

In-Word: Three Lakh Seventy-Nine Thousand Eight Hundred and Fourteen Point Five Five Taka Only.


18.12.2023
Md. Aminur Rahman Siddique
Sub-Assistant Engineer
MODS Zone-7, Dhaka WASA


18.12.23
Md. Afzal Hossain
Assistant Engineer
MODS Zone-7, Dhaka WASA


18/12/2023
Md. Lemon Mia
Executive Engineer
MODS Zone-7, Dhaka WASA

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Dhaka WASA

Calculation

Name of the Work: Repair and maintenance Sub-Store of Mods Zone-7 Dhaka WASA.

Sl. No.	Item. No.	Description of work	No. of Item	Length (ft)	Width (ft)	Height / Depth (ft)	Quantity	Unit	Unit Rate (BDT)	Amount (BDT)		
1	2	3	4	5	6	7	8	9	10	11		
1	1.7	Mobilization	1	32.00	22.00		704.00					
							Total =	704.00	65.43	sqm	218.000	14263.304
2	32.5.1.1	Dismantling of Brick work	1	104.00	2.00		208.00					
			1	12.00	12.00		144.00					
							Total =	352.00	32.71	sqm	538.000	17600.132
3	32.1	Stripping of Unserviceable Plaster	2	104.00	12.00		2496.00					
							Total =	2496.00	231.97	sqm	31.000	7191.070
4	4.3	Brick Work	1	104.00	2.00	0.83	172.64					
							Total =	172.64	4.89	cum	10097.000	49352.947
5	15.1.1	Plaster	2	104.00	12.00		2496.00					
							Total =	2496.00	231.97	sqm	315.000	73070.550
6	15.3	Net Cement Finishing	1	104.00	3.00		312.00					
							Total =	312.00	29.00	sqm	395.000	11453.420
7	16.1.1	Paint	1	104.00	12.00		1248.00					
			1	104.00	12.00		1248.00					
							Total =	2496.00	231.97	sqm	274.000	63559.780
8	1.2.1(ii)	Concealed wiring 1c-2x2.5 sq.cable	150				150.00					
							Total =	150.000	150.000	rm	138.000	20700.000
9	1.1.6(i)	Electric wiring(Light Point)	4				4.00					
							Total =	4.00	4.000	nos	919.001	3,676.004
10	1.1.6(ii)	Electric wiring(Fan Point)	1				1.00					
							Total =	1.00	1.000	nos	919.001	919.001
11	6A.6.(i).(b)	Tube light	4				4.00					
							Total =	4.00	4.000	nos	1050.000	4,200.000

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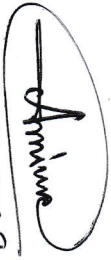
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Sl. No.	Item. No.	Description of work	No. of Item	Length (ft)	Width (ft)	Height / Depth (ft)	Quantity	Unit	Unit Rate (BDT)	Amount (BDT)
1	2	3	4	5	6	7	8	9	10	11
12	18.1.1	Ceiling Fan	2				2.00	nos	4045.001	8,090.002
							Total =			
13	6A.9.(iii).(c)	LED flood light	1				1.00	nos	9539.001	9539.001
							Total =			
14	19.6	M.S door shutter	1	7.00	8.00		56.00	sqm	6420.000	33417.609
							Total =			
15	13.10	Window grills	4	2.50	2.50		25.00	sqm	9631.000	22380.187
							Total =			
16	10.21	Corrugated galvanized iron sheet	1	32.00	22.00		704.00			
			1	12.00	4.00		48.00			
							Total =	752.00	69.90 sqm	578.000
										40401.547

Total Taka= 379,814.55

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