


**DEPARTMENT OF DISASTER MANAGEMENT**  
**Details Estimate of Construction of Disaster Resilient Houses'**


Sl.	Description of item	No.	Length(M)	Breadth(M)	Height(M)	Qty.	Unit	Rate	Amount
1	Earthwork in excavation of foundation trenches, including layout, by excavating earth to the lines, grades and elevation as shown in the drawing providing center lines, local bench mark pillars, fixing bamboo spikes and marking layout with chalk powder filling baskets, carrying and disposing of all excavated materials at a safe distance designated by the E-I-C in all types of soils except rocky, gravelly, slushy or organic soil, leveling, ramming, dressing and preparing the base, etc. all complete for an initial excavation depth of 2m and an initial lead not exceeding 20m, including arranging all necessary tools and equipment at work site, etc. complete as per direction of the E-I-C.								
	Main Room	1	18.00	0.60	0.600	6.480	Cum		
	Short wall	1	3.00	0.60	0.600	1.080	Cum		
	Ver- wall	1	10.00	0.60	0.600	3.600	Cum		
	Kitchen	1	12.00	0.60	0.600	4.320	Cum		
	Passage	1	3.00	0.60	0.600	1.080	Cum		
	Plinth	1	6.00	4.50	0.600	16.200	Cum		
		1	4.00	1.80	0.600	4.320	Cum		
		1	1.50	1.50	0.600	1.350	Cum		
						38.430	Cum	160.00	6148.80
2	Brick work with 1st class bricks in cement mortar (1:6) in foundation and plinth with Portland Composite cement (CEM II/AM, 42.5N) and best quality sand (minimum FM1.2), filling the interstices tightly with mortar, raking out joints, cleaning and soaking bricks at least for 24 hours before use, washing of sand, curing for requisite period, etc. all complete as per direction of the E-I-C.								
	Main Room-Long wall	2	6.10	0.38	0.150	0.686	Cum		
	Main Room-short wall	1	3.00	0.25	0.150	0.113	Cum		
	Main Room-Long wall	1	6.10	0.25	0.750	1.144	Cum		
	Main Room-short wall	1	3.00	0.25	0.600	0.450	Cum		
	Ver- wall	2	1.50	0.25	0.750	0.563	Cum		
	Stair	2	0.75	0.25	0.600	0.225	Cum		
	Stair	3	0.25	0.25	0.150	0.028	Cum		
	Passage	2	1.50	0.25	0.750	0.563	Cum		
	Toilet -kitchen	1	6.00	0.25	0.750	1.125	Cum		
	Pillar	10	0.25	0.25	2.700	1.688	Cum		
	Pillar-toilet-kitchen	6	0.25	0.25	2.100	0.788	Cum		
	Pillar-ver	2	0.25	0.25	2.250	0.281	Cum		
						7.652	Cum	5900.00	45146.06
3	125mm brick work with 1st class bricks in cement mortar (1:4) with Portland Composite cement (CEM II/AM, 42.5N) and best quality sand (minimum FM1.2) and making bond with connected walls with uniform width and depth joints, true to vertical and horizontal lines in/c necessary scaffolding, raking out joints, cleaning and soaking the bricks at least for 24 hours before use, washing of sand, curing for requisite period, etc. all complete as per direction of the E-I-C.								
	5" Brick work								
	Main Room-Long wall	2	6.00	2.70	1.000	32.400	sqm		
	Main Room-short wall	3	3.00	2.70	1.000	24.300	sqm		
	Kitchen	1	6.00	0.90	1.000	5.400	sqm		
	Latrine	1	7.32	2.40	1.000	17.568	sqm		
	Deduction - Door	2	0.75	1.80	1.000	-2.700	sqm		
	Window	6	0.90	1.00	1.000	-5.400	sqm		
		1	0.75	1.80	1.000	-1.350	sqm		
						70.218	sqm	950.00	66707.10

*Handwritten Signature*  
২৫/৩/২০১৯  
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সহকারী প্রকৌশলী  
দুর্যোগ ব্যবস্থাপনা ও ত্রাণ মন্ত্রণালয়  
গণপ্রজাতন্ত্রী বাংলাদেশ সরকার


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নায়লা আহমেদ  
উপসচিব (প্রকৌশল সেল, অতিরিক্ত দায়)  
দুর্যোগ ব্যবস্থাপনা ও ত্রাণ মন্ত্রণালয়  
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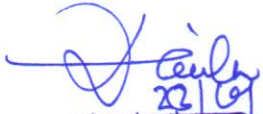
4	Supplying and making well matured natural seasoned solid wood works in frames of roof truss of required length and size with wall plates as per design in/c supplying, fabricating, hoisting, scaffolding, fitting and fixing in position with bolts and nuts full complete as per direction of the E-I-C.							
	Wooden work							
	Tie beam	2 × 0.13 × 0.08 × 3.300	0.062	Cum				
	Wall plate (long)	2 × 0.10 × 0.08 × 6.600	0.099	Cum				
	Wall plate (short)	3 × 0.10 × 0.08 × 3.300	0.074	Cum				
	Passage	2 × 0.13 × 0.08 × 1.500	0.028	Cum				
	Ver	2 × 0.13 × 0.08 × 2.400	0.045	Cum				
	Rafter main room	26 × 0.05 × 0.05 × 2.400	0.156	Cum				
	Rafter ver	2 × 0.05 × 0.05 × 2.400	0.012	Cum				
	Kitchen-wall plate	2 × 0.08 × 0.08 × 4.000	0.045	Cum				
		2 × 0.08 × 0.08 × 1.800	0.020	Cum				
	Passage	3 × 0.10 × 0.08 × 1.500	0.034	Cum				
	Rafter kitchen	7 × 0.05 × 0.05 × 1.800	0.032	Cum				
	Purlin	8 × 0.03 × 0.04 × 6.000	0.046	Cum				
		8 × 0.03 × 0.04 × 3.000	0.023	Cum				
	Kitchen	4 × 0.03 × 0.04 × 1.000	0.004	Cum				
		5 × 0.03 × 0.04 × 2.400	0.011	Cum				
	Door frame long	5 × 1.83 × 0.08 × 0.050	0.034	Cum				
	Door frame short	5 × 0.76 × 0.08 × 0.050	0.014	Cum				
	window frame long	6 × 3.80 × 0.08 × 0.050	0.086	Cum				
	Door shutter	5 × 0.76 × 0.03 × 1.800	0.171	Cum				
	Window shutter	6 × 0.90 × 0.03 × 0.900	0.122	Cum				
			1.117	Cum			47935	53539.20
5	Supplying, fitting and fixing 0.46mm thick galvanized iron corrugated sheet (Bangladesh made) roofing fitted and fixed on MS sections with 'J' hook or wooden purlins with screws, limpet washers and putty etc. all complete as per direction of the E-I-C.							
	26 BWG sheet- Main room	2 × 7.00 × 2.40 × 1.000	33.600	sqm				
		2 × 3.00 × 0.65 × 1.000	3.900	sqm				
		1 × 5.00 × 2.70 × 1.000	13.500	sqm				
	Passage	1 × 1.50 × 2.10 × 1.000	3.150	sqm				
	Ver	1 × 3.00 × 2.40 × 1.000	7.200	sqm				
			61.350	sqm			581	35644.35
	Galvanized ridging		15.00	m			300.82	4512.30
6	Screw		6.00	kg			500	3000.00
	Wire nail		10.00	Kg			150	1500.00
7	Minimum 12mm thick cement plaster (1:6) with Portland Composite cement (CEM II/AM, 42.5N) and best quality sand (minimum FM1.2) to wall both inner and outer surface, finishing the corner and edges in/c washing of sand cleaning the surface, scaffolding and curing for the requisite period etc all complete as per direction of the E-I-C.							
	Plaster		140.44	sqm			160	22469.76
8	White washing three coats over a coat of priming with slacked stone lime mixed with gums, blue Lime mix prepared at least 12 hours before use, in/c removing the floating materials from the mixture, surface cleaning to free 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 i/c cost of hair brush, providing necessary scaffolding and necessary cleaning the plinth, floors, doors, windows, partitions and ventilators by washing, rubbing as if necessary before and after the wash, polishing the surface with sand paper etc. all complete for all floors i/c cost of all materials as per direction of the E-I-C.							
	Painting-white wash		140.44	sqm			21	2949.16

  
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9	Painting to door and window frames, shutters and any type of MS rod, FI bar, MS box, MS angle grill, gate etc. in two coats with synthetic enamel paint of best quality and approved colour over a coat of priming. Applying one vertical and one horizontal coat.					
	Painting-door window		18.90	sqm	60	1134.00
10	Mass concrete work in foundation or floor with Portland Composite Cement (CEM II/AM, 42.5N), sand (minimum FM 1.20) and 20mm down well graded 1st class/picked brick chips (LAA value not exceeding 38), including shuttering, mixing by concrete mixer machine, casting, laying compacting with mechanical vibrator machine and curing for the requisite period breaking bricks into chips etc. all complete as per direction of the E-I-C. Cylinder crushing strength of concrete should not be less than 10.5Mpa at 28 days of curing (suggested mix proportion 1:3:6). Additional quantity of cement to be added if required to attain the strength at the contractors own cost. Mass concrete in floor (1:3:6) with Portland Composite Cement (CEM II/AM, 42.5N), sand (minimum FM 1.20) and 20mm down well graded 1st class/picked brick chips.					
	C.C in floor	1 × 6.10 × 3.00 × 0.075	1.373	Cum	7126.31	9780.86
11	Manufacturing and supplying of RCC ring of 40mm wall thickness and 1m internal diameter and 0.3m of height including casting, curing for requisite period, fixing in position etc. all complete as per direction of the E-I-C.					
	Latrine (Pan, Ring)	LS				3000.00
12	Carrying contingency	LS				3000.00
					Total Amount Tk. =	258531.59

  
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 ২৫/৩/২০  
 নায়না আহমেদ  
 উপসচিব (প্রকৌশল সেল, অতিঃ দাঃ)  
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