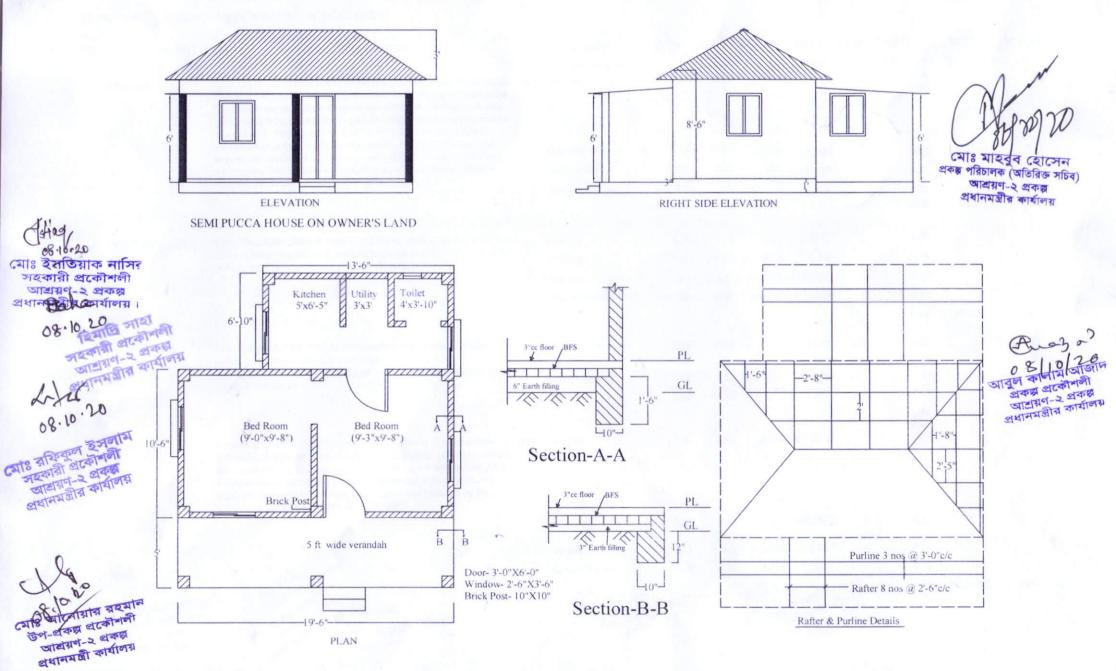
Design of Semi pucca house (2 Room) With Kitchen & Toilet

Estimated Cost: Taka 1,71,000.00



Detail estimate of Semi pucca house (2 Room) with Kitchen & Toilet

(Based on PWD rate schedule-2018 & Market price)

SL	Item Code No.	Description of Work	Unit	Location /	Length	Width	Height /	Area /	No of	Total Qty	Unit	Amount
				Component			Depth	Volume		of Works	Rate	
1 PWD CES 02.1.2	PWD CES 02.1.2	Earthwork in excavation of foundation trenches, including layout, by excavating	cum	Main wall	17	0.25	0.3	1.275	1	1.28		
		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,						90				
		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		Verandah wall	8.35	0.25	0.3	0.62625	1	0.63		
		not exceeding 20m, including arranging all necessary tools and equipment at		Partition wall	2.9	0.25	0.3	0.2175	1	0.22		
		work site, etc. complete as per direction of the E-I-C.		Toilet & Kitchen	9.5	0.25	0.3	0.7125	1	0.71		
										2.83	88.00	249.15
2	PWD CES02.16.4.1	Earth filling inside plinth in 150mm layers with earth available within 90m	cum	Room 1	2.74	2.93	0.15	1.20423	1	1.20		
1		of the building site, watering, leveling and consolidating each layer up to finished level, etc. all complete as per direction of the E-I-C		Room 2	2.82	2.93	0.15	1.23939	1	1.24		
		Thisned level, etc. all complete as per direction of the L-1-c		Varanda	5.62	1.33	0.076	0.5680696	1	0.57		
				Kitchen & toilet	3.8	1.92	0.076	0.554496	1	0.55		
										3.57	302.00	1076.99
3	PWD CES 03.1	picked jhama bricks including preparation of bed and filling the	sqm	Room 1	2.74	2.93		8.0282	1	8.03		
			,	Varanda	5.62	1.33		7.4746	1	7.47		
		interstices with local sand, leveling etc. complete and accepted by the Engineer -in-charge.		Kitchen & toilet	3.8	1.92		7.296	1	7.30		
				Room 2	2.82	2.93		8.2626	1	8.26		
										31.06	420.00	13045.79
4 Analysis	Analysis	Mass concrete (1:3:6) in foundation or floor with cement, sand (F.M. 1.2) and picked jhama chips including breaking chips, screening, mixing, laying, compacting to levels and curing for at least 7 days including the supply of water, electricity and other charges and costs of tools and plants etc. including NCF in floor, all complete and accepted by the	cum	Room 1	2.74	2.93	0.075	0.602115	1	0.60		
		Engineer -in- charge. (Cement: CEM-II/A-M)		Doom 2	2.02	2.02	0.075	0.610605		0.63		
				Room 2	2.82	2.93	0.075	0.619695	1	0.62		
	4.11	1 ×		Varanda	5.62	1.5	0.075	0.63225	1	0.63		
6	stra9	C D Carte		Kitchen & toilet	3.8	2.05	0.075	0.58425	1	0.58		
#10	ন <i>পু</i> ন্তি 2 0 কন্তিয়াক নাসির	Charles and the second		124:2	D		Aug 2/11	PZATA	আজা	2.44	6579.00	16041.64

মোঃ ইস্তিয়াক নাসির সহকারী প্রকৌশলী আশ্রয়ণ-২ প্রকল্প প্রধানমন্ত্রীর কার্যালয়।

প্রতিষ্ঠিত কর্মান প্রতিত্ব সাহা সহকারী প্রকৌশলী সহকারী প্রকৌশলী সাধ্যমণ-২ প্রকল্প আশ্রমণ-২ প্রকল্প र्भाः १० १० व्यापात्र १९:१० १० व्यापात्र स्वार्थने स्वार्थने स्वार्थने क्रिकार के अपने के अप

মোঃ মাহবুব হোসেন প্রকল্প পরিচালক (অতিরিক্ত সচিব) আশ্রয়ণ-২ প্রকল্প প্রধানমন্ত্রীর কার্যালয়

5 PWD CES 04.1		cum	Main foundation	17	0.25	0.45	1.9125	1	1.91									
	foundation and plinth with Portland Composite cement (CEM II/AM, 42.5N) and best quality sand (minimum FM1.2), filling the interstices		Verandha foundation	8.35	0.25	0.3	0.62625	1	0.63									
	tightly with mortar, raking out joints, cleaning and soaking bricks at least		partition wall	2.9	0.25	0.45	0.32625	1	0.33									
	for 24 hours before use, washing of sand, curing for requisite period, etc. all complete as per direction of the E-I-C.		Kitchen & toilet	9.5	0.25	0.3	0.7125	1	0.71									
	cal all complete as par all calls in a late 2.7 di		Stair(3'x2'-6")	0.9	0.76	0.3	0.2052	1	0.21									
			Pillar 1	2.59	0.25	0.25	0.161875	6	0.97									
ac district			Pillar 2	1.83	0.25	0.25	0.114375	5	0.57									
									5.33	6040.00	32167.98							
6 PWD CES 04.15	125mm brick work with Kiln 1st class bricks/automatic machine made 1st class bricks in cement mortar (1:6) with machine made 1st class bricks in cement mortar (1:6) with machine made 1st class bricks in	sqm	Main wall	2.59	2.69		6.9671	3	20.90									
	cement mortar (1:6) with Portland Composite cement (CEM II/AM, 42.5N) and best quality sand (minimum FM1.2) and making bond with			5.18	2.59		13.4162	2	26.83									
	connected walls with uniform width and depth joints, true to vertical and		Kitchen & toilet	1.82	2.05		3.731	2	7.46									
	horizontal lines in/c necessary scaffolding, raking out joints, cleaning and soaking the bricks at least for 24 hours before use, washing of sand,			3.6	1.9		6.84	1	6.84									
1	curing for requisite period, etc. all complete as per direction of the E-I-C.											1.22	2		2.44	3	7.32	
			door	0.91	1.82		1.6562	-3	-4.97									
				0.76	1.82		1.3832	-1	-1.38									
			Window	0.76	1.06		0.8056	-5	-4.03									
			Mark A						58.98	917.00	54080.90							

মোঃ ইস্তিয়াক নাসির সহকারী প্রকৌশলী আশ্রয়ণ-২ প্রকল্প প্রধানমন্ত্রীর কার্যালয়।

त्याः जारमास्य व्यक्ताः कर्णाः कर्णाः कर्णाः कर्णाः व्यक्ताः कर्णाः व्यक्ताः कर्णाः व्यक्ताः विष्टिः व

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নাঃ ব্যক্তিক ইসলাম
সহকারী প্রকোশলী
সাহকারী প্রকোশলী
প্রধানমন্ত্রীর কার্যালয়

আবুল কালাম আজা আবুল কালাম কালা আব্দার কালাম আব্দার কালাল আব্দার কালাল

মোঃ মাহবুব হোসেন প্রকল্প পরিচালক (অতিরিক্ত সচিব) আশ্রয়ণ-২ প্রকল্প প্রধানমন্ত্রীর কার্যালয়

RCC:1:2:4, 17MPa, Brick Chips (BC): Reinforced cement concrete works cum Lintel with minimum cement content relates to mix ratio (tentative 1:2:4) and maximum water cement ratio 0.45 having minimum required average strength, f'cr = 24 Mpa and satisfied a specified compressive strength fc = 17 Mpa at 28 days on standard cylinders as per fc = 17 Mpa at 28 days on standard cylinders as per standard practice of Code AASHTO/ ASTM and Portland Composite Cement conforming to BDS EN 197-1: 2003 CEM-II 42.5N sand of minimum FM 1.8 and 20mm down well graded picked brick chips (LAA value and maximum water absorption not exceeding 38 and 15% respectively) conforming to ASTM C 33 or Aggregate Grading Appendix-3 LGED Schedule of Rates or any other International recognized envelop in/c breaking chips and screening through proper sieves, centering, shuttering in position, making shuttering fully leak proof & shuttering with plain 16 BWG steel sheet fitted over 38mm thick wooden plank panels and Standard size Bamboo Props suitably braced, placing of reinforcement in position, mixing theaggregates with standard mixer machine with hoper, fed by standard measuring boxes, maintaining allowable slump of 50mm (without plasticizer) & 75mm to 100mm (when plasticizer use), pouring, casting, compacting by mechanical vibrator machine and curing at least for 28 days, removing centering-shuttering after approved specified time period, i/c cost of additional testing charges of materials and cylinders required. Excluding the cost of reinforcement and its fabrication, welding, coupling, placing, binding etc. Additional quantity of cement and Plasticizer i.e. Water reducing chemical admixture of complying type A under ASTM C 494 to reduce mixing water required for normal workability and to maintain low by the mix design from approved laboratory instruction by the Engineer) Additional quantity of cement to be added if required to attain the strength at the contractor's own cost) etc. all complete as per direction and approval of the Engineer in charge. Note: Using Concrete Mixer. In Tie Beam and Lintel: Below Plinth Level and in Ground Floor

1.07 0.127 0.15 0.0203835 6 0.12

মোঃ মাইবুব হোসেন প্রকল্প পরিচালক (অতিরিক্ত সচিব) আশ্রয়ণ-২ প্রকল্প প্রধানমন্ত্রীর কার্যালয়

1.22 0.127 0.15 0.023241 3 0.07

0.15 0.012198

1.07

0.076

0.24 7602.00 1830.68

0.05

্রিণীপ্র ১৯৮০ হচ মোঃ ইসতিয়াক নাসির সহকারী প্রকৌশলী আশ্রয়ণ-২ প্রকল্প প্রধানমন্ত্রীর কার্যালয়। किर्मात नार्य जिस्साति नार्य जिस्साति नार्य जिस्साति कर्मानी जास्यव-२ क्षेत्रज्ञ छोदानमञ्जीत कार्या 08.10.10

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0	PWD	CES	UB.	

Supplying and fabrication of Ribbed or deformed barreinforcement for all kg types of RCC work includingstraightening, removing ruts, cleaning, cutting, hooking, bending, lapping and/or welding wherever required as directed, placing in position, tieing with 22 BWG black annealed binding wire (PVC coated in case of FBEC rebar)double fold, cost of binding wire and anchoring to the adjoining members wherever necessary, supplying and placing with proper cover blocks (1:1), supports, chairs, spacers, splices or laps etc. including cost of all materials, cost of labour, cost of equipment & machinery, loading and unloading, transportation, all other incidental charges and work at all leads and lifts etc. to complete thework as per design, drawing, specifications and direction of the E-I-C. Measurement relating to nominal mass, dimensions and tolerances of various types of steel shall conform to relevant BDS/ ASTM codes. Reinforcement shall be measured only in lengths of bar as actually placed in position on standard weight i.e. 7850 kg/m3 (BNBC Table 6.2.1) basis. No separate payment shall be allowed for Chairs of any shape & profile, spacer bar of any shape & profile, lap/ splice unless otherwise shown in the drawing, wastages, binding wire, concrete cover blocks etc. as the cost of these is included in the unit rate. Note: Tests for reinforcing bars shall be conducted at LGED/ BUET/ CUET/ KUET/ RUET.Grade 300 (RB 300): Ribbed or Deformed bar produced and marked as per BDS ISO 6935-2:2006 with minimum yield strength, fy (ReH) = 300 MPa, but the tested yieldstrength shall not exceed fy by more than the 125 MPa and the ratio of tested ultimate strength, fu (Re) to tested elongation after fracture (A5.65) & minimum total elongation at maximum force (Agt) is 16% and 2.5% respectively.

Main bar(dia-10mm)	1.22	0.62	0.7564	12	9.08

মোঃ মাহবুব হোসেন প্রকল্প পরিচালক (অতিরিক্ত সচিব) আশ্রয়ণ-২ প্রকল্প প্রধানমন্ত্রীর কার্যালয়

	1.06	0.62	0.6572	30	19.72
Stirrup(dia-8mm)	0.45	0.39	0.1755	90	15.80

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9 Analysis

Supplying and making well matured natural seasoned solid wood works on frames of roof truss of required length and size with wall plates as per design in/c length and size with wall plates as per design in/c supplying, fabricating, hoisting, scaffolding, fitting and fixing in position with bolts and nuts for all floors etc. all complete as per direction of the E-I-C. (All sizes of wood are finished). Mehagoni/Shishu/Local sal/Silkarai or loacally available equivalent quality wood

79.00

44.59

3522.44

সম্মন্ত্রীয় কার্যালয়

Wall plate	18	0.05	0.05	0.045	1	0.05
Tie beam	3.078	0.075	0.05	0.0115425	4	0.05
Rafter	2.006	0.05	0.05	0.005015	8	0.04
Rafter(Verandha)	1.89	0.05	0.05	0.004725	8	0.04
Wall plate for varanda	5.94	0.05	0.05	0.01485	1	0.01
Purline(Varanda)	6.25	0.05	0.025	0.0078125	3	0.02
Tie Triangle portion	2.49	0.05	0.05	0.006225	4	0.02
Triangle Portion rafter	1.041	0.05	0.05	0.0026025	8	0.02
rafter(av)	0.899	0.05	0.05	0.0022475	8	0.02
Tie for ridge	2.438	0.05	0.05	0.006095	1	0.01
Purlin(long chala)	3.944	0.05	0.025	0.00493	8	0.04

अध्यम्बर्धातं कार्यानस

মোঃ ইসতিয়াক নাসির সহকারী প্রকৌশলী আশ্রয়ণ-২ প্রকল্প প্রধানমন্ত্রীর কার্যালয়।

Baha 68-10.20 विमाणि मार्चा महकाती बादकी नहीं जार्थाती कार्याना जार्थाता नार्याना बाद्यानमञ्जीत कार्याना

				Purline(short chala)(av)	2.438	0.05	0.025 0.0030475	6	0.02		
				Latrine wall plate	7.83	0.05	0.05 0.019575	1	0.02		
				Rafter(latrine)	2.28	0.05	0.05 0.019373	6	0.02		
					4.22	0.05		3	0.02		
				Purline(latrine)	4.22	0.05	0.025 0.005275	3		40000 70	47074
		A STATE OF THE STA							0.40	42958.73	17376.70
10	Analysis	Supplying, fitting and fixing steel window shutter with frames & grill as per drawing & design having requisite Nos. of vertical and horizontal standard MS angle(19mmx19mmx3mm) and 'Z' section (19mmx19mmx19mmx 3mm) for shutter and MS flat bar (25mmx4.5mm) and (19mmx10mm 3mm) and 10mmx10mm (25mmx4.5mm) and (19mmx3mm) and 10mmx10mm square bar welded horizontally @ 125mm at inside face of frame of window shutter with F.I. clamp 75mmx3mm duly embedded in Cement Concrete (1:2:4:) and mending good the damages in/c finishing the intersecting points by filling with all cost of charges for fabrication and manufacture by welding, riveting, etc. supplying all essential fittings like stopper, handle, 3 nos catch hooks, 300mm long adjustable iron cleats, 50mm long pin hinges, 150mm long clamps for fitting frame in/c supplying, fitting, fixing 22 BWG M.S. sheet in positionwelded to steel shutter with (19mmx3mm) MS flat bar stiffener and putty and painting the window with two coats of synthetic enamel paint over a coat of anticorrosive priming, etc for all floors. all	Nos	Window				5	अक	মাঃ মাহবুব পরিচালক (অ আশ্রয়ণ-২ প্রধানমন্ত্রীর ব	হোসেন তিরিক্ত সচিব) প্রকল্প কার্যালয়
		complete as per direction							5.00	2800.00	14000.00
11	Analysis	Supplying fitting and fixing steel door frame & shutter with 18 BWG MS sheet/plain plate hinged to RCC columns reinforcement with 38mmx38mmx5mm MS Angle and 25mmx6mm flat bar stiffener and putty and painting the wdoor with two coats of synthetic enamel paint over a coat of anticorrosive priming, etc. all complete as per drawing and direction of F-I-C	Nos	Door				2			
									2.00	3500.00	7000.00
12	Analysis	Supplying, fitting, fixing of uPVC hollow or solid plastic door shutter etc. all complete as per drawing and direction of E-I-C.	NOS	Door				1			
									1.00	2000.00	2000.00
12	Analysis	Supplying, fitting and fixing 0.36mm thick galvanized iron corrugated	sqm	Long chala	4.038	2.133	8.613054	2	17.23		
13	AlldiySiS	locally available color (Maroon, Blue, Green) sheet (Bangladesh made) having minimum weight 45-50 kg per bundle (2'-6"width 70 – 72 rft	Sqiii	Long Chaia	4.030	2.155	0.013034	2	17.23		
		long) roofing fitted and fixed on MSsections with 'J' hook or wooden		Short chala	1.904	1.828	3.480512	2	6.96		
		purlins with screws, limpet washers, bitumen washers and putty etc. all complete as per direction of the E-I-C.	_	Verandha	6.4	1.828	11.6992	1	11.70		
				Chala for latrine	4.52	2.58	11.6616	1	11.66		
	detical 10.20	Baha 1121		28.10.2	হস্থান	4	Della de alle	Ball	47.55 V		22096.84

মোঃ ইসতিয়াক নাসির সহকারী প্রকৌশলী আশ্রয়ণ-২ প্রকল্প প্রধানমন্ত্রীর কার্যালয়।

98-10.20 नाया अर्थान्य वाद्यान्य आर्थान्य कार्यान्य अर्थान्य कार्यान्य

মোঃ রফিকুল ইসলা সহকারী প্রকৌশলী সহকারী প্রকোশলী প্রথান-২ প্রকল প্রধানমন্ত্রীর কার্যালয়

0.46mm (SWG) thick galvanized iron plain sheet ridging with 300mm m Ridge 14 Analysis lap on either side fitted and fixed with galvanized bolts and nuts etc. all complete as per direction of the E-I-C. (Maroon, Blue, Green) Minimum 12mm thick cement plaster (1:6) with Portland Composite 15 Analysis Mark 'A' 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.

16 PWD CES 07.1.3

White washing by three coats, lime mixture prepared at least 12 hours sqm 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.

17 Analysis

Construction of single pit latrine, Manufacturing and Supplying of 6 nos Nos RCC ring of 40 mm wall thickness and internal diameter 0.30m of height including RCC slab with pan, footrest, necessary UPvc pipe and trap and earth cutting filling, fixing all necessary fittings etc, all complete as per direction of the E-I-C.

Total Amount after deducting Contractor's profit, Vat & IT (10+9.5=19.5%)

মোঃ ইস্তিয়াক নাসির সহকারী প্রকৌশলী আশ্রয়ণ-২ প্রকল্প প্রধানমন্ত্রীর কার্যালয়।

আশ্রমণ-২ প্রকল্প প্রধানমন্ত্রীর কার্যালয়

2.74 5 13.70 2.74

> 13.70 179.71 2462.05

58.98

Mark 'A' X 2

117.95

175.89

20747.05

মোঃ মাহবুদ হোসেন প্রকল্প পরিচালক (অতিরিক্ত সচিব) আশ্রয়ণ-২ প্রকল্প व्यथानमञ्जीत काशालय

Mark 'A' X 2

117.95

22.00

2594.94

1.00

1.00 2150.00 2150.00

Total

212443.14

171016.73

Say Total Amount= 1,71,000.00 Taka

মোঃ আনোয়ার রহমান উপ-প্রকল্প প্রকৌশলী আশ্রয়ণ-২ প্রকল্প

व्यथानमधी कार्याणय