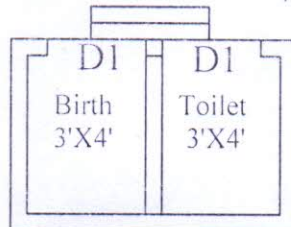
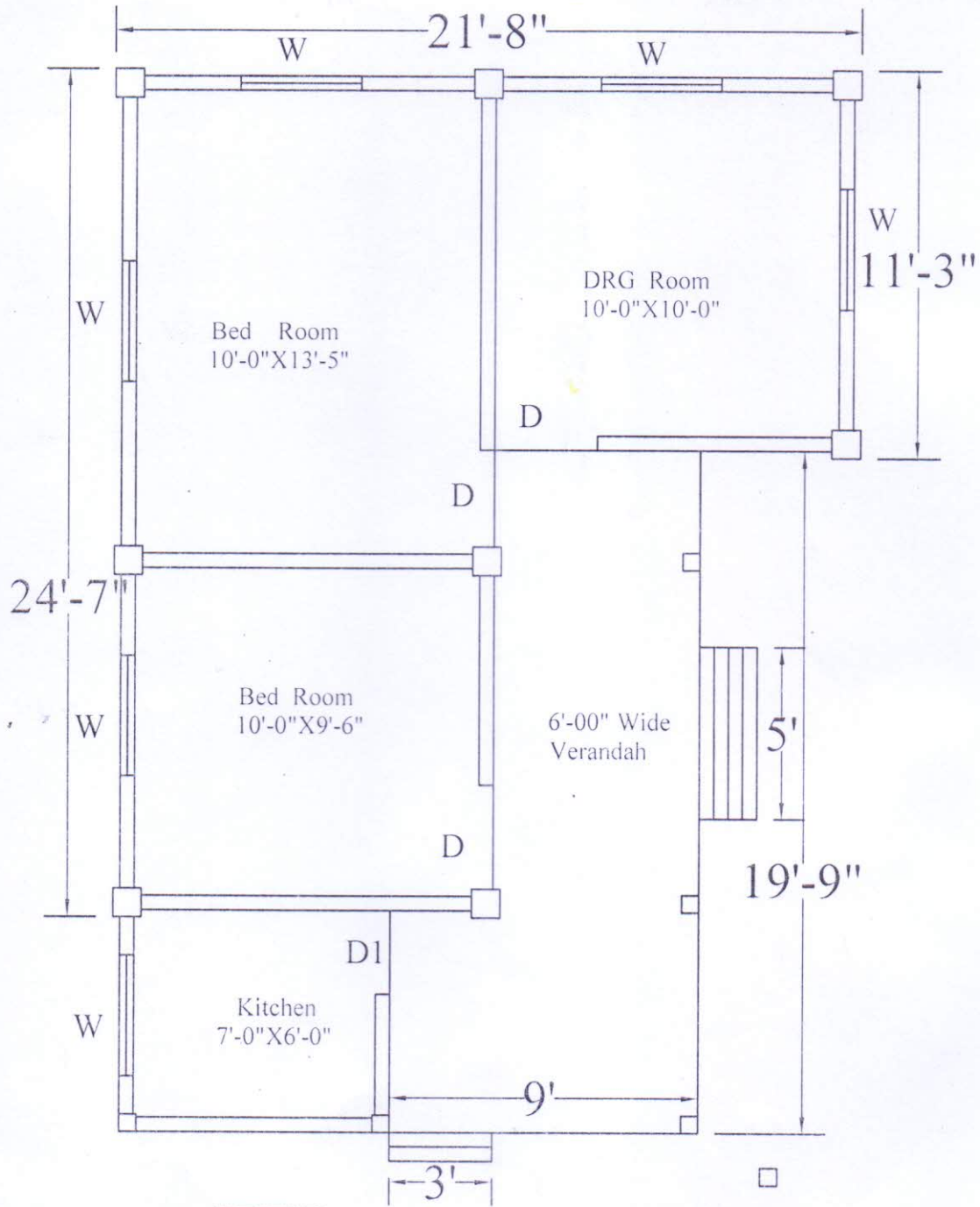


Design/Drawing of Special Houses For Tribal People



D=3'X7'
D1=2.5'X7'
W=3.5'X4'

Floor Area=574 sft.

Toilet Area=35 sft.

Total area=609 sft.

[Signature]
12.05.2020
মোঃ আবুল বাশার মোল্লা
সহকারী প্রকৌশলী
আশ্রয়ণ-২ প্রকল্প
প্রধানমন্ত্রীর কার্যালয়।

[Signature]
22/5/20
মোঃ আনোয়ার রহমান
উপ-প্রকল্প প্রকৌশলী
আশ্রয়ণ-২ প্রকল্প
প্রধানমন্ত্রী কার্যালয়

[Signature]
12/5/20
আবুল কালাম আজাদ
প্রকল্প প্রকৌশলী
আশ্রয়ণ-২ প্রকল্প
প্রধানমন্ত্রীর কার্যালয়

Detailed Estimate

Local Government Engineering Department

Scheme Code : 48458-20-10001

Road Code :

Financial Year : 2019-2020

Name of the Scheme : Construction of Residential building for Trival People.

Scheme Preparation Date : 10-Feb-2020

FY & Type of Rate : 2018-2019 (General)

District : RANGAMATI

Upazila : LANGADU

SL No	Item Code	Description of Work	Unit	Location / Component	Length	Width	Height / Depth	Area / Volume	No of Item	Total Qty of Works	Unit Rate	Amount
1	2	3	4	5	6	7	8	9	10	11	12	13
5.02.01		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.	cum	main column	0.900	0.900	0.900	0.729	8.00	5.832		
				Ver.column	0.750	0.750	0.900	0.506	5.00	2.530		
				Step-1	1.520	0.900	0.150	0.205	1.00	0.205		
				Step-2	1.000	0.900	0.150	0.135	2.00	0.270		
				Toilet	6.710	0.370	0.150	0.372	1.00	0.372		
2.	5.02.02	Sand filling in foundation trenches and inside plinth with sand (minimum FM 0.50) in 150mm layers in/c leveling, watering and consolidating each layer up to finished level etc. all complete as per direction of the E-I-C. Dry density after compaction shall not be less than 95% of MDD (STD).	cum	Toilet	1.830	1.220	0.150	0.335	1.00	0.335		
				Main floor	6.860	3.050	0.150	3.138	1.00	3.138		
				Main floor-1	3.050	3.050	0.150	1.395	1.00	1.395		
				Ver	8.840	1.830	0.150	2.427	1.00	2.427		
3.	5.03.04.01	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 foundation (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.	cum	Toilet	1.830	1.220	0.050	0.112	1.00	0.112		
				Main floor	6.860	3.050	0.075	1.569	1.00	1.569		
				Main floor-1	3.050	3.050	0.075	0.698	1.00	0.698		
				Ver	8.840	1.830	0.075	1.213	1.00	1.213		

SL No.	Item Code	Description of Work	Unit	Location / Component	Length	Width	Height / Depth	Area / Volume	No of Item	Total Qty of Works	Unit Rate	Amount
1	2	3	4	5	6	7	8	9	10	11	12	13
4.	5.03.09	Providing single layer polythene sheet (0.18mm thick) weighing one kilogram per 6.5 square meter in floor or any where in ground floor underneath the cement concrete, etc. all complete as per specifications and direction of the E-I-C.	sqm									
				Step	1.500	0.900		1.350	1.00	1.350		
				Main floor	11.330	3.250		36.823	1.00	36.823		
				Main floor	3.220	3.250		10.465	1.00	10.465		
				Ver	8.270	1.510		12.488	1.00	12.488		
										61.126	20.78	1270.20
5.	5.04.01	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.	cum									
				M/Wall GB	32.600	0.250	0.350	2.853	1.00	2.853		
				Verandha	14.320	0.250	0.760	2.721	1.00	2.721		
				Toilet	6.710	0.250	0.450	0.755	1.00	0.755		
										6.329	7454.47	47179.34
6.	5.04.09.01. 1	125mm brick work with Kiln 1st class bricks/automatic machine made 1st class bricks in cement mortar (1:6) 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. Kiln bricks Ground Floor	cum									
				M/Wall GB	32.600	2.740		89.324	1.00	89.324		
				Kitchen	5.790	1.830		10.596	1.00	10.596		
				Toilet	6.710	1.830		12.279	1.00	12.279		
				Deduction				0.000	1.00	0.000		
				Door	2.130	0.910		1.938	3.00 (-)	5.814		
				Door-1	1.830	0.760		1.391	3.00 (-)	4.173		
				Window	1.060	0.760		0.806	6.00 (-)	4.836		
										97.376	1126.21	109665.82

SL No	Item Code	Description of Work	Unit	Location / Component	Length	Width	Height / Depth	Area / Volume	No of Item	Total Qty of Works	Unit Rate	Amount
1	2	3	4	5	6	7	8	9	10	11	12	13

7. 5.05.01.01 RCC:1:2:4, 17MPa, Brick Chips (BC): Reinforced cement concrete works 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 $f_c = 17$ 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 the aggregates with standard mixer machine with hopper, 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 water-cement (W/C) ratio (Doses of admixture to be fixed 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 individual and continuous footing of column, raft and floor slab at plinth level.

cum

Col. Base	0.750	0.750	0.125	0.070	8.00	0.560						
Lintel	36.250	0.125	0.150	0.680	1.00	0.680						
Shed	1.060	0.300	0.062	0.020	6.00	0.120						
main col.	1.220	0.250	0.250	0.076	8.00	0.608						
main wall GB	32.600	0.250	0.250	2.038	1.00	2.038						
										4.006	10158.92	40696.63

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