

Detail estimate of CI Sheet Single House (2 Room) with Kitchen & Toilet (For Char Area)
(Based on PWD rate schedule & Market price)

SL	Item Code No.	Description of Work	Unit	Location / Component	Length	Width	Height /Depth	Area / Volume	No of	Total Qty of Works	Unit/Rate	Amount	
1	PWD CES 2.1.	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 Engineer-in- charge.	cum	Outer Wall Kitchen Ver Partition Wall Toilet Side Filling 1/3rd of excavation	18.287 8.485 8.991 2.794	0.500 0.500 0.500 0.500	0.305 0.305 0.305 0.305	2.789 1.294 1.371 0.426 1.960	1.00 1.00 1.00 1.00 1.00	2.789 1.294 1.371 0.426 1.960	7.840	88.000	689.915
2	Analysis	Sand filling in foundation trenches and plinth with sand having F.M. 0.5 to 0.8 in 150mm layers including leveling, watering and compaction to achieve minimum dry density of 95% with optimum moisture content (Modified proctor test) by ramming each layer up to finished level as per design supplied by the design office only etc. all complete and accepted by the Engineer-in- charge.	cum	Room Floor Kitch Ver	5.437 3.608 5.437	2.694 1.932 1.270	0.300 0.266 0.266	4.394 1.854 1.837	1.00 1.00 1.00	4.394 1.854 1.837	8.085	380.00	3072.340
3	Analysis	One layer of brick flat soling in foundation or in floor with first class or picked jhama bricks including preparation of bed and filling the interstices with local sand, leveling etc. complete and accepted by the Engineer -in-charge.	sqm	Column bottom Room-1 Room2 Varanda Kitchen and Toilet	0.250 2.610 2.560 5.450 3.610	0.250 2.690 2.690 1.170 1.920		0.063 7.021 6.886 6.377 6.931	21	1.313 7.021 6.886 6.377 6.931	28.528	471.35	13446.437
4	Analysis	Mass concrete (1:2:4) 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 Engineer -in- charge. (Cement: CEM-II/A-M)	cum	Outer Wall Kitchen Ver Partition Wall Toilet Room Floor Kitch Ver Deduction	18.287 8.485 8.991 2.794 5.437 3.608 5.437 0.150	0.250 0.250 0.250 0.500 2.694 1.932 1.270 0.150	0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076	0.347 0.161 0.171 0.106 1.113 0.530 0.525 0.002	1.00 1.00 1.00 1.00 1.00 1.00 1.00 -1.00	0.347 0.161 0.171 0.106 1.113 0.530 0.525 -0.002	2.952	8320.00	24558.154
5	Analysis	250mm 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	Outer Wall Kitchen Ver Partition Wall Toilet step Pillar of toilet Deduction	18.287 8.485 8.991 2.794 1.000 1.980 0.150	0.250 0.250 0.250 0.500 0.500 0.250 0.150	0.609 0.533 0.533 0.533 0.450 0.250 0.609	2.784 1.131 1.198 0.745 0.225 0.124 0.014	1.00 1.00 1.00 1.00 2.00 1.00 -21.00	2.784 1.131 1.198 0.745 0.450 0.124 -0.288	6.143	6330.96	38894.071
6	Analysis	125mm brick work with Kiln 1st class bricks/automatic machine made 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.	sqm	Partition Wall Toilet single layer outside	4.827 19.000	0.761 0.075		3.673 1.425	1.00 1.00	3.673 2.375	6.048	945.29	5717.442

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7	Analysis	RCC:1:1.5:3, 20MPa, 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 $f_c = 17$ 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	cum	Pliiar (Long)	0.150	0.150	3.657	0.082	12.000	0.987	8740.00	13888.013
				Pliiar (Short)	0.150	0.150	2.971	0.067	9.000	0.602		
8	PWD CES 3.7	Supplying and laying of single layer polythene sheet weighing one kilogram per 6.5 square meter in floor or any where below cement concrete complete in all respect and accepted by the EIC.	sqm	Room Floor	5.437	2.694		14.647	1.00	14.647	42.00	1197.963
				Kitch	3.608	1.932		6.971	1.00	6.971		
				Ver	5.437	1.270		6.905	1.00	6.905		
											28.523	
9	Analysis	Supplying and fabrication of Ribbed or deformed barreinfocement for all types of RCC work including straightening, removing ruts, cleaning, cutting, hooking, bending, lapping and/or welding wherever required as directed, placing in position, tying 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 the work 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/m ³ (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, f_y (ReH) = 300 MPa, but the tested yield strength shall not exceed f_y by more than the 125 MPa and the ratio of tested ultimate strength, f_u (Re) to tested elongation after fracture (A5.65) & minimum total elongation at maximum force (Agt) is 16% and 2.5% respectively.	kg	12mm Dia	3.800	0.888	4	13.498	12	161.971	101.00	43204.159
				6mm Dia	0.600	0.222	25	3.330	12	39.960		
				12mm Dia	3.200	0.888	4	11.366	9	102.298		
				6mm Dia	0.600	0.222	20	2.664	9	23.976		
				window 10 mm	0.761	0.617	6	2.817	5	14.086		
				12 mm rod for anchor	0.508	0.880			21	0.447		
				bolt	0.200	0.888	4	0.710	100	71.040		
				Faoundation	1.00	0.222	3	0.666	21	13.986		

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SL	Item Code No.	Description of Work	Unit	Location / Component	Length	Width	Height /Depth	Area / Volume	No of	Total Qty of Works	Unit/Rate	Amount
10	Analysis	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 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 locally available equivalent quality wood	cum	Wall plate	18	0.075	0.075	0.1013	1	0.10		
				Tie beam	3.2	0.075	0.075	0.0180	4	0.07		
				Rafter	2.006	0.05	0.05	0.0050	8	0.04		
				Rafter(Verandha)	1.89	0.05	0.05	0.0047	8	0.04		
				Wall plate for varanda	5.94	0.075	0.075	0.0334	2	0.07		
				Purline(Varanda)	6.25	0.05	0.025	0.0078	3	0.02		
				Tie Triangle portion	2.49	0.05	0.05	0.0062	4	0.02		
				Triangle Portion rafter	1.04	0.05	0.05	0.0026	8	0.02		
				Triangle portion for rafter(av)	0.899	0.05	0.05	0.0022	10	0.02		
				Tie for ridge	2.438	0.05	0.05	0.0061	1	0.01		
				Purlin(long chala)	3.944	0.05	0.025	0.0049	8	0.04		
				Purline(short chala)(av)	2.438	0.05	0.025	0.0030	6	0.02		
				Latrine wall plate	8.48	0.075	0.075	0.0477	1	0.05		
				Rafter(latrine)	2.28	0.05	0.05	0.0057	4	0.02		
				Purline(latrine)	4.22	0.05	0.025	0.0053	3	0.02		
				CI fencing at wall Room 1 (front & back	5.12	0.05	0.025	0.0064	4	0.03		
				Side	2.44	0.05	0.025	0.0031	4	0.01		
				Partition Wall	2.23	0.05	0.025	0.0028	4	0.01		
				Room 2 (front & back)	2.03	0.05	0.025	0.0025	4	0.01		
				side	2.38	0.05	0.025	0.0030	4	0.01		
				Toilet	1.42	0.05	0.025	0.0018	4	0.01		
				Toilet side	1.37	0.05	0.025	0.0017	2	0.00		
				Toilet inside	1.37	0.05	0.025	0.0017	2	0.00		
				Toilet	1.42	0.05	0.025	0.0018	2	0.00		
				Toilet	2.61	0.05	0.025	0.0033	4	0.01		
										0.661	42965.05	28412.895
11(a)	Analysis	Supplying, fitting and fixing 0.36mm thick galvanized iron corrugated locally available color (Maroon, Blue, Green) sheet (Bangladesh made) having minimum weight 50 kg per bundle (2'-6"width 70 - 72 rft long) roofing fitted and fixed on MSsections with 'J' hook or wooden purlins with screws, limpet washers, bitumen washers and putty etc. all complete as per direction of the E-I-C.	sqm	CI Sheet Roof	4.038	2.133		8.613	2.00	17.226		
					1.904	1.828		3.481	2.00	6.961		
					6.400	1.828		11.699	1.00	11.699		
					4.520	2.440		11.029	1.00	11.029		
										46.915	714.97	33542.912
(b)	Analysis	Supplying, fitting and fixing 0.36mm thick galvanized iron corrugated locally available sheet (Bangladesh made) having minimum weight 50 kg per bundle (2'-6"width 70 - 72 rft long) roofing fitted and fixed on MSsections with 'J' hook or wooden purlins with screws, limpet washers, bitumen washers and putty etc. all complete as per direction of the E-I-C.	sqm	Fencing	18.287	2.600		47.546	1.00	47.546		
				Fencing	3.200	2.600		8.320	1.00	8.320		
				Fencing	8.485	2.000		16.970	1.00	16.970		
				P/W	2.740	1.220		3.343	1.00	3.343		
				door	0.900	1.820		1.638	-3.00	-4.914		

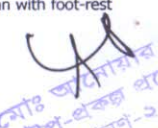
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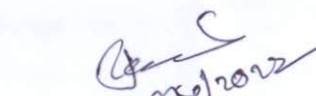
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SL	Item Code No.	Description of Work	Unit	Location / Component	Length	Width	Height /Depth	Area / Volume	No of	Total Qty of Works	Unit/Rate	Amount
				door	0.750	1.820		1.365	-2.00	-2.730		
				win	0.760	0.910		0.692	-5.00	-3.458		
				Wall	3.950	0.750		2.963	-1.00	-2.963		
										62.115	620.00	38510.990
12	Analysis	0.46mm (SWG) thick galvanized iron plain sheet ridging with 300mm 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)	m	Ridge	2.740			2.740	5	13.700	280.00	3836.000
13	Analysis	Minimum 12 mm thick cement sand (F.M. 1.2) plaster with neat cement finishing to plinth wall (1:4) with cement up to 150 mm below ground level with neat cement finishing including washing of sand, finishing the edges and corners and curing at least for 7 days, cost of water, electricity and other charges etc. all complete in all respect as per drawing and accepted by the Engineer-in-charge. (Cement: CEM-II/A-M). Ground floor.	sqm	Outer Wall	25.700	0.518		13.313	1	13.313		
				On Single Brick	19.000	0.833		15.827	1	15.827		
				Step	1.500	1.000		1.500	2	3.000		
				Toilet Wall	4.065	0.761		3.093	2	6.187		
				Deduction	0.150	0.150		0.023	-1	-0.023		
										38.304	237.19	9085.333
14	Analysis	Supplying, fitting and fixing I window Wooden frame with MS plain sheet shutter with frames & MS Rod grill , etc for all floors. all complete as per direction	Each	Window						5.00	1950.00	9750.000
15	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 E-I-C.	Each	Door D1						2.00	4200.00	8400.000
				Door D2						1.00	3600.00	3600.000
16	Analysis	Supplying, fitting, fixing of uPVC hollow or solid plastic door shutter etc. all complete as per drawing and direction of E-I-C.	Each	Door D3						1.00	3050.00	3050.000
17	Analysis	Chemical imulsion with kerosene (like Matir tel/Alkatra) polishing to wood frames and truss by three coats over a coat of priming including putty, cleaning, finishing and polishing with sand paper etc. all complete in all floors and accepted by the Engineer-in-charge.	L/S	For Wooden Truss						1.00	1100.00	1100.000
18	Analysis	Construction of twin pit latrine, Manufacturing and Supplying of 10 nos RCC ring (inner dia. of ring 750 mm, thickness 40 mm, height 300 mm) including RCC slab with porcelin pan with footrest, necessary UPvc pipe and trap and earth cutting, filling, fixing all necessary fittings etc. including Y junction, all complete as per direction of the E-I-C. (- RCC Ring for Soak Pit =10 nos - Earth work excavation and Sand Filling (1'-0") of 2 Nos of Soak Pit bottom - RCC Slab for Soak Pit=2 nos -Y-Junction with necessary PVC Pipe and trap 25mm dia. 6'-0 high Gas Ventilation pipe - Supplying, fitting and fixing Bangladesh pattern long pan with foot-rest made of Vitreous China and preparing the base of pan)	L/S	Toilet						1.00	6250.00	6250.000

Total Amount **290206.62**
 Total Amount after deducting Contractor's profit, Vat & IT (10+9.5= 19.5%) **233616.33**
Say = Taka 2,33,600.00


 মোঃ জাকিউর রহমান
 প্রকল্প প্রকৌশলী
 আশ্রয়ন-২ প্রকল্প
 প্রধানমন্ত্রীর কার্যালয়


 ০৪/০৭/২০২২
 মোহাম্মদ মাহমুদ হক
 উপ-প্রকল্প পরিচালক (উপসচিব)
 আশ্রয়ন-২ প্রকল্প
 প্রধানমন্ত্রীর কার্যালয়
 বাবু ছালেহ মোহাম্মদ কেরাউল খান
 প্রকল্প পরিচালক (মুশালতিব)
 আশ্রয়ন-২ প্রকল্প
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