

Abstract of Machang Ghor in Hilly Area

As per Rates obtained from PWD Schedule of July'2022 & Market rates

a. Construction Machang Ghor	=	tk.	276,987.79
b. Construction of Latrine	=	tk.	40,619.46
Sub-Total - A	=	tk.	317,607.25
Deduction of VAT, IT & Contractor's Profit (19.5%)	=	tk.	61,933.41
Sub-Total - B	=	tk.	255,673.83
Grand-Total	=	tk.	255,673.83
Say,	tk		255670.00



মোঃ আবুল বাশার মোল্লা
সহকারী প্রকৌশলী
আশ্রয়ণ-২ প্রকল্প
প্রধানমন্ত্রীর কার্যালয়



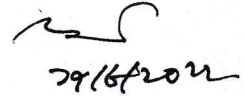
মোঃ আনোয়ার রহমান
উপ-প্রকল্প প্রকৌশলী
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মোঃ জাকিউর রহমান
০৭/৬/২২

মোঃ জাকিউর রহমান
প্রকল্প প্রকৌশলী
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০৭/৬/২০২২
মোঃ মাহমুদ মাহমুদুল হক
উপ-প্রকল্প পরিচালক (উপসচিব)
আশ্রয়ণ-২ প্রকল্প
প্রধানমন্ত্রীর কার্যালয়



আবু হালিম মোহাম্মদ হোসেন হক
প্রকল্প পরিচালক (উপসচিব)
আশ্রয়ণ-২ প্রকল্প
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Detailed Estimate For Machang Ghor in Hilly Area

PWD Schedule of Rates July'2022 and market rates

CODE	Componant	Length	Breadth	Height	Numbr	Quantity	Unit	Rate	Amount
02.1.2	Earthwork in excavation in foundation trenches up to 1.5 m depth and maximum 10 m lead: in soft clayey soil / loose sand / silt etc.								
	Base	0.81	0.81	3.000	32	62.99 Cft			
						62.99 cft			
						1.78 m3		168.09	299.79

Analysis Supplying of wooden ballah having an average diameter not less than 150 mm (without barks) at one third distance from larger end with a minimum end diameter of 100 mm for retaining purpose and driving to a depth as per design and drawing by any method including all arrangement for staging, hoisting, carrying etc. complete and accepted by the Engineer-in-charge. Best quality *Mehiguni/gazari/jam* etc. Bullah pile free from rots, knots, sap etc. A portion of ballah which is under earth should make sure three coats of Tar(Alkatra) and be wrapped with polythine water tightly.

Post	15.00				15	225.00 Rft			
	14.00				10	140.00 Rft			
	6.00				7	42.00 Rft			
Total						124.05 Rm		318.44	39501.70


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 loacally available equivalent quality wood

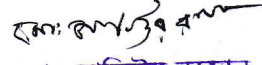
Wall plate(4"*3")	124.00	0.33	0.25	1	10.23 cft				
Tie Beam(4"*3")	10.50	0.33	0.25	4	3.47 cft				
Rafter Ver(2"*2")	5.83	0.16	0.16	8	1.19 cft				
Rafter Kit(2"*2")	8.00	0.16	0.16	4	0.82 cft				
Rafter Main Chala(2"*2")	7.30	0.16	0.16	10	1.87 cft				
	3.00	0.16	0.16	16	1.23 cft				
Purlin Ver(2"*1")	21.00	0.16	0.08	3	0.81 cft				
Purlin Kit(2"*1")	12.00	0.16	0.08	4	0.61 cft				
Purlin Main Chala(2"*1")	200.00	0.16	0.08	1	2.56 cft				
Wooden Rafter(2"*2")	8.50	0.16	0.16	5	1.09 cft				
					23.87 cft				
					0.68 m3			42965.05	29046.37

Analysis Supply and making well matured natural seasoned solid wood works in frames of roof truss, floor, wall batten etc. including two coats of **Vernish**, all complete and accepted by the Engineer-in-charge. **Best quality** Garjan/Chapalish/Mehogoni wood.

Floor Tie Beam(4"*4")	22.81	0.33	0.33	4	9.94 cft				
	15.81	0.33	0.33	2	3.44 cft				
Floor Tie Beam(3"*5")	20.00	0.25	0.41	4	8.20 cft				
	11.00	0.25	0.41	2	2.26 cft				
Floor Batten(1" thick)	20.00	22.81	0.08	1	36.50 cft				
Deduction	9.00	7.00	0.08	-1	-5.04 cft				
Wall batten(1"*3")	96.50	0.08	0.25	4	7.72 cft				
Wall batten									
Verendah(1"*3")	27.08	0.08	0.25	2	1.08 cft				

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Vertical batten at wall	3.00	0.08	0.25	7	0.42 cft
Deduction(wall batten)	3.00	0.08	0.25	-6	-0.36 cft
Stair(3"*4")	5.00	0.25	0.33	2	0.83 cft
Stair tread(1"*10")	3.00	0.08	0.81	6	1.17 cft
Stair railing(2"*2")	3.50	0.16	0.16	6	0.54 cft
					66.68 cft
Total				1.89 m3	54667.79
					103225.26

Analysis Supplying, fitting and fixing Wooden window with 3"x2" size wooden outer frame, 2"x1" shutter frame, 10mm dia vertical ms rod @ 5"c/c & 22 Gauge(0.57kg/sft) Plane Sheet Shutter as per drawing & design. Stiffener & painting the window with two coats of synthetic enamel paint, hing, cleat etc, all complete as per direction of the E-I-C.

Window	Each			4	1950.00	7800.00
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Analysis Supplying, fitting and fixing Wooden Door with 3"x2.5" size wooden frame & 1" Thick wooden Shutter as per drawing & design. Stiffener & painting the door with two coats of synthetic enamel paint, hing, cleat, haze bolt, handle etc, all complete as per direction of the E-I-C.

Door	Each			2	3484.00	6968.00
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Analysis Supplying, fitting and fixing 0.36 mm thick corrugated galvanized colour(Maroon, Blue, Green) iron sheet (Bangladesh made) having min weight 53-55 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. all complete and accepted by the Engineer.(Galvanized C.I. sheet:)

Roof(Main Chala)	0.50	21.81	7.3	2	159.21 Sft	
	0.50	32.00	7.3	2	233.60 Sft	
Roof(Ver Chala)	21.00	5.33		1	111.93 Sft	
Roof(Kit Chala)	11.75	7.33		1	86.13 Sft	
					590.87 Sft	
					54.91 m2	732.67
						40233.56

Analysis 0.36 mm thick galvanized colour(Maroon, Blue, Green) iron plain sheet ridging with 300 mm lap on either side fitted and fixed with galvanized bolts and nuts etc. all complete and accepted by the Engineer in-charge. Galvanized

Ridging	43.32			1	43.32 Rft	
					13.21 Rm	280.00
						3698.05

Analysis Supplying, making and fixing well matured natural seasoned Bamboo tarja fencing tight with G.I Ware including necessary all fittings & well vernishing etc. All complete and accepted by the Engineer.

Tarja Fencing at Ghor	95.00	8.58		1	815.10 Sft	
Tarja Fencing at Ver	27.08	2.50		1	67.70 Sft	
Deduction for door	9.50	6.00		-1	-57.00 Sft	
Deduction for window	3.00	2.50		-4	-30.00 Sft	
					795.80 Sft	
					73.96 m2	610.00
						45115.06

Analysis Chemical imulsion with kerosene (like Matir tel/Alkatra) polishing to wood Roof 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 EIC.

LS				1	1100.00	1100.00
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Amount TK= 276987.79

Say Amount TK= 276990.00

IN WARDS : TWO LAC SEVENTY SIX THOUSAND NINE HUNDRED NINETY TAKA ONLY.

মোঃ জাকিউর রহমান
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Detailed Estimate of Latrine For Machang Ghor

PWD Rate schedule July'2022 and market prices

CODE	Componant	Length	Breadth	Height	Number	Quantity	Unit	Rate	Amount
2.1.2	Earthwork in excavation in foundation trenches up to 1.5 m depth and maximum 10 m lead: in soft clayey soil / loose sand / silt								
	Foundation	17.50	1	1.500	1	26.25 Cft			
	Soak pit	4.91	1	10.500	1	51.54 Cft			
	Step	2.00	0.81	0.250	1	0.41 Cft			
						78.20 Cft			
						2.21 M3		168.09	372.20

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 90% with optimum moisture content (Modified proctor test) by ramming each layer u

	Foundation	0.33	26.25	1.000	1	8.75 Cft			
	Floor	4.00	3.81	0.750	1	11.43 Cft			
						20.18 Cft			
						0.57 m3		405.39	231.65

3.7 Supplying and laying 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 Engineer.


	Floor	4.00	3.81		1	15.24 Sft			
	Foundation	17.50	0.81		1	14.18 Sft			
						29.42 Sft			
						2.73 m2		46.85	128.08

03.5.1 Mass concrete in foundation (1:3:6) in foundation or in floor with cement, sand (F.M. 1.2) and picked jhama brick chips including breaking of chips, screening, mixing, laying, compacting to required level and curing for at least 7 days including the supply of water, electricity, costs of tools & plants and other charges etc. all complete and accepted by the Engineer-in-charge.(Cement: CEM-II/B-M)

	Foundation	17.50	0.81	0.250	1	3.54 Cft			
	Floor	4.65	4.81	0.250	1	5.59 Cft			
						9.14 Cft			
						0.26 m3		7832.76	2026.20

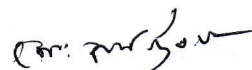
4.1 Brick works with first class bricks in cement sand (F.M. of sand 1.2) mortar (1:6) in foundation and plinth, filling the joints/interstices fully with mortar, racking out the joints, cleaning and soaking the bricks at least for 24 hours before use and curing well.


	Foundation	17.50	0.81	1.75	1	24.81 Cft			
	Step	2.00	0.81	0.75	1	1.22 Cft			
	Brick Column	0.81	0.81	6.41	4	16.82 Cft			
						42.84 Cft			
						1.21 m3		7501.00	9100.11


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Analysis Supplying fitting and fixing steel door frame & shutter with 22 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.

	Door(2'-6"x6'-6")	Each			1			3650.00	3650.00
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Analysis Supplying, fitting and fixing 0.36 mm thick corrugated galvanized colour(Maroon, Blue, Green) iron sheet (Bangladesh made) having min weight 53-55 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 washer. Galvanized

Roof	6.81	6.65	1	45.29 Sft 4.21 m2	732.67	3083.65
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26.4 Supplying 100 mm inside dia best quality uPVC soil, waste and ventilation pipe having specific gravity 1.35-1.45, wall thickness 3.4- 4.0 mm, and other physical, chemical, thermal, fire resistivity properties etc. as per BSTI approved manufacturer standar

Soil Pipe	6.30		2	12.60 Rft 3.84 Rm	988.00	3793.92
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Analysis Supplying 50 mm inside dia best quality uPVC soil, waste and ventilation pipe having specific gravity 1.35-1.45, wall thickness 3.4- 4.0 mm, and other physical, chemical, thermal, fire resistivity properties etc. as per BSTI approved manufacturer standar

Vent Pipe	4		2	8 Rft 2.44 Rm	131.24	320.00
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Analysis Construction of soak or leaching pit including supplying and fitting of 760mm dia 38mm thick 305mm height RCC (1:2:4) ring with 3 layers of No. 10 BWG wire as reinforcement placing in position one above another at equal spacing, placing in position, filling interstices with local sand, placing pit, jointing with 1:6 sand-cement mortar, making hole to RCC ring for inlet pipe and vent pipe including all fittings and jointing including labour, site cleaning, all complete as per drawing and direction of E-I-C.

Ring	5		2	10 Nos	333.14	3331.4
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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. including two coats of Tar(Alkatra) 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.

Rafter Toilet(2"*2")	6.16	0.16	0.16	3	0.47 cft	
Purlin Toilet(2"*1")	6.16	0.16	0.08	3	0.24 cft	
Wall plate(2"*2")	17.50	0.16	0.16	1	0.45 cft	
	2.50	0.16	0.08	3	0.10 cft	
					1.25 cft	
Total					0.04 m3	42965.05 1525.20

26.5.1.1 Supplying, fitting and fixing Bangladesh pattern, 570 x 445 x 290 mm long pan with foot-rest, approx. 12 kg by weight, made of Vitreous China and preparing the base of pan with cement mortar (1:4) and with wire mesh or rods, if necessary in all floors inc

Pan				1 Nos	1902.00	1902.00
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4.16 125 mm brick works with first class bricks in cement sand (F.M. 1.2) mortar (1:4) and making bond with connected walls including necessary scaffolding, raking out joints, cleaning and soaking the bricks for at least 24 hours before use and washing of sand and direction of E-I-C.

Wall	10.25	6.41	1	65.70 Sft 6.11 m2	1180.00	7205.29
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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.

Wall	12.00	6.41	2	153.84 sft
GL to PL	18.00	1.00	1	18.00 sft
Floor	4.00	3.81	1	15.24 sft
			Mark-A	151.08 sft
				14.04 m2

250.64 3519.21

16.12 White Washing by three coats, line mixture prepared at least twelve hours before use, slacking stone lime, supply of gums, blue, stirring thoroughly, removing the floating materials from the mixture, surface cleaning to free from all foreign materials before application of each coat, applying one vertical & one horizontal wash for each coat & successive coat is to be applied after drying up or previous coat including hair brass, providing necessary scaffolding & cleaning plinth, floors, doors, windows, portions & ventilators by washing, rubbing, oiling if necessary after white wash for all floors including cost of water, electricity & other charge etc, and direction of E-I-C.

Wall(except floor)	Mark-A	135.84 Sft
		135.84 Sft
		12.62 m2

24.60 310.56

Analysis Ventilator	LS	1	120.00
			AMOUNT= TK 40619.46
			SAY AMOUNT= TK 40620.00

IN WARDS : FORTY THOUSAND SIX HUNDRED TWENTY TAKA ONLY.

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আবু হাদেহ মোহাম্মদ মেন্নাউল খান
প্রকল্প পরিচালক (যুগ্মসচিব)
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প্রধানমন্ত্রীর কার্যালয়