Office of the Project Director
Community-based Forest Management and Livelihoods Improvement in Meghalaya
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Meghalaya Livelihood Improvement through Forest Enhancement

Meghalaya Basin Development Authority

Japan International Cooperation Agency

No. JICA/2022/1576/1018 Dated: 18th May, 2023.

From,
Shri. Gunanka DB, IFS
Additional Project Director, MegLIFE, MBDA.

To,
All The Block Project Managers,
MegLIFE, MBDA.

Subject: Detail Estimate for the Community Hall, Plastic Tank with a Circular Platform, RCC Tanks, Spring tapped Chamber.

With reference to letter no. MBDA/JICA/2023/12/1012; Dated: 06th May, 2023 concerning the procurement of materials, find attached herewith the rectified detailed estimates for "Construction of Community Hall, Plastic Tank with a Circular Platform, RCC Tank & Spring tapped Chamber in MegLIFE Project Villages", you are directed to refer to the estimates before approving the bills submitted by the VPIC.

Additionally, attaching herewith the Bill of Quantities for the SWC Structures.

This is for your reference and necessary action.

Additional Project Director
MegLIFE, MBDA, Shillong.

Copy to:

1. The Project Director, MegLIFE, MBDA, Main Secretariat Building, Shillong
2. The District Project Managers, MegLIFE, MBDA.

Additional Project Director
MegLIFE, MBDA, Shillong.

6.0 GENERAL ABSTRACT

NAME OF WORK: PROPOSED COMMUNITY HALL CONCEPT AT GARO HILLS

Rate as per the Meghalaya P.W.D (Building) S.O.R for 2021-2022

GENERAL ABSTRACT

SL.No.	DESCRIPTION	AMOUNT		REMARKS
1	Cost of material for Civil works	Rs.	14,39,996.54	
2	Cost of Labour	Rs.	6,40,401.34	
	TOTAL =	**Rs.**	**20,80,397.88**	**(A)**
2	Internal electrification and fittings	Rs.	1,11,500.00	As per detail Estimate
3	Water supply and sanitary fitting	Rs.	70,400.00	As per detail Estimate
3.1	Septic Tank (20user)	Rs.	91,081.00	As per plinth area rates
	TOTAL =	**Rs.**	**23,53,378.88**	**(B)**
4	Add 2.0% Contingencies	Rs.	47,067.58	Taking 2.0% from (B)
	GRAND TOTAL	**Rs.**	**24,00,446.46**	
	Or, Say =	**Rs.**	**24,00,000.00**	

(Rupees Twenty-Four lakhs Only.)

S. Langstang

Er. S. Langstang

Asstt. Engineer
Jwatbor Cajee & Associates
Architects : Engineers : Designers
Project Management & Turnkey Solutions

Ar. Jwatbor.S.Cajee

CEO & Chief Architect
Jwatbor Cajee & Associates
Architects:Engineers:Designers
Project Management & Turnkey Solutions

JWATBOR CAJEE & ASSOCIATES
JSCAJEE.COM
ARCHITECTS : DESIGNERS : ENGINEERS

7.0 ESTIMATE OF PROJECT

NAME OF WORK: PROPOSED COMMUNITY HALL CONCEPT- AT GARO HILLS

Rate as per the Meghalaya P.W.D (Building) S.O.R for 2021-2022

ABSTRACT OF COST

Sl. No	Particulars of Work	Quantity	Unit	Rate	Amount
1/2.1(a)	Earthwork in excavation upto a depth of 2m below the existing ground level for foundation trenches of foundations, footings of column/ walls, retaining walls, septic tank etc. including bailing out water where necessary and removal of surplus earth with all lead and lifts as directed and specified for the following classification of soils.(a) All kind of soil(Ordinary soil/hard soil/dense soil)	47.38	cum	Rs. 213.00	Rs. 10,091.30
2/12.5(b) (i)	Providing stone soling in foundation and under floor with stone/ best quality picked jhama brick, sand packed and laid to level and in panel after preparing the subgrade as directed including all labour and materials and if necessary dewatering, complete.(b) Stone soling (i)100mm	132.59	sqm	Rs. 415.00	Rs. 55,023.81
3/5.1(b)	Plain cement concrete works with coarse aggregate of sizes 13mm to 32mm in foundation bed for footing steps, walls, brick works etc. as directed and specified including dewatering if necessary, and curing complete (shuttering where necessary shall be measured and paid separately).(c) 1:3:6 (1 cement: 3 coarse sand: 6 graded stone aggregate 20mm nominal size)	11.78	cum	Rs. 7,601.00	Rs. 89,532.18
4/8.1 (a)	Random rubble masonry with hard stone in foundation and plinth including levelling up with cement concrete 1:6:12 (1 cement: 6 coarse sand; 12 grade stone aggregate 20mm nominal size) up to plinth level with : (a) cement mortar 1:6 (1 cement: 6 coarse sand)	18.63	cum	Rs. 6,098.00	Rs. 1,13,605.74
5/6.11(b)	Supplying, fitting and fixing in position reinforcement bars upto 1st floor level, conforming to relevant I.S. Code forR.C.C. work/ R.B. walling including straightening, cleaning, cutting and bending to proper shapes and length as per details, supplying and binding with 20G annealed black wire and placing in position with proper blocks, supports,chairs, spacers etc. complete.(Rates inclusive of all wastage, lappage, hooks, chairs, anchorage etc. and no measurements for the same is required) (b) High Yield Strength Deformed bars or Tor Bars	36.44	qntl	Rs. 10,936.00	Rs. 3,98,558.81

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Sl. No	Particulars of Work	Quantity	Unit	Rate	Amount
6./4	Shuttering/ Formwork Centering and shuttering including strutting, propping etc. and removal of form for all heights complete and as directed by engineer in charge				
4.1	Foundations, Footing, bases of columns, etc. for mass concrete (using steel)	28.56	sqm	Rs. 251.00	Rs. 7,168.56
4.5	Columns, Pillar, Piers, Abutment, Posts and Struts (using steel)	36.96	sqm	Rs. 609.00	Rs. 22,508.64
4.4	Lintel, Beam, Plinth beams, girder, bressumer and cantilever (using steel)	87.60	sqm	Rs. 486.00	Rs. 42,573.60
4.3	Slabs, roofs, landings, balconies and access platform, shelves (using steel).	16.84	sqm	Rs. 581.00	Rs. 9,784.04
7/6.1(b)	Providing and laying in position in position specified grade of reinforced cement concrete, excluding the cost of centering, shuttering, finishing and reinforcement- All work up plinth level: (b) M20 or 1:11/2:3 (1 cement: 11/2 coarse sand: 3 grade stone aggregate 20mm nominal size)	13.53	cum	Rs. 9,336.00	Rs. 1,26,320.75
8/6.2 (b)	Reinforced cement concrete work in walls (any thickness) including attached pilaster, buttresses, fillets, columns, pillars, post and struts etc. above plinth level up to first floor level, excluding cost of centering and shuttering, finishing and reinforcement: (b) M20 or 1:11/2:3 (1 cement: 11/2 coarse sand: 3 grade stone aggregate 20mm nominal size)	3.23	cum	Rs. 9,923.00	Rs. 32,090.98
9/6.3 (b)	Reinforced cement concrete work in beams, slab, roofs, having slope up to 15°, landings, balconies, shelve, chejjas, lintel, bands, plain window sills, staircase and spiral stair case above plinth level up to first floor level, excluding cost of centering and shuttering, finishing and reinforcement: (b) M20 or 1:11/2:3 (1 cement: 11/2 coarse sand: 3 grade stone aggregate 20mm nominal size)	8.25	cum	Rs. 10,335.00	Rs. 85,259.87
10/2.6(a)	Earthwork in filling (excluding rock) in trenches, plinth, sides of foundation etc in layer not exceeding 20cm thick including breaking of clods, consolidating each layer by ramming and watering, lead up to 50m and lift up to 1.5m. (a) with available excavated earth	24.90	cum	Rs. 141.00	Rs. 3,511.46
11/12.13	65mm thick cement concrete flooring with concrete hardener topping, under layer 50mm thick cement concrete 1:2:4 (1 cement: 2 coarse sand: 4 grade stone aggregate 20mm nominal size) and top layer 15mm thick cement hardener consisting of mix 1:2 (1 cement hardener mix: 2 graded stone aggregate, 6 nominal size) by volume, hardening compound mixed @ 2 litre per 50 kg of cement or as per manufacture's specifications. This includes cost of cement slurry, complete	89.80	sqm	Rs. 836.00	Rs. 75,070.71

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Sl. No	Particulars of Work	Quantity	Unit	Rate	Amount
12/7.10(a)	Half brick masonry with common burnt clay (non modular) 1st class bricks in superstructure above plinth level up to first floor level . (a) Cement mortar 1:3 (1 cement: 3 Coarse sand)	117.10	sqm	Rs. 1,247.00	Rs. 1,46,021.21
13/15.8(a)	15mm cement plaster on rough side of single or half brick wall finished with floating coat of neat cement of mix: (b) 1:3 (1 cement: 3 find sand)	385.82	sqm	Rs. 351.00	Rs. 1,35,423.87
14/10.1 (c)i	Providing wood works in frames of doors, window, clerestory window and other frames, wrought frame and fixed in position with hold fast lugs or with dash fasteners of required diameter and length.(c) with first class local wood (i) Pooma/ Hollock/Gamari/ and the like	1.01	cum	Rs. 85,348.00	Rs. 86,079.94
15/10.5(a)(i)	Providing and fixing panelling or panelled and glazed shutters for door, window and clerestory window fixing with butt hinges of required size with necessary screws, excluding panelling which will be paid for seperately, all complete as per direction as Engineer-in-charge. (note:- Butt hinges and necessary screws shall be paid seperately)(a) with teak wook/sissu wood (i) 35mm thick shutter	21.75	sqm	Rs. 3,640.00	Rs. 79,173.64
16/11.22 (a)	Providing, fitting and fixing steel windows (including ventilators) of standard rolled steel sections as per relevant I.S. Code, joints mitred and welded with 15x3xl00 mm lugs embedded in cement concrete block of M-10 grade including providing and fixing of projecting hinges (not more than 65 mm and not less than 15 mm wide) bolting device, steel handles, pegs, stays of 300 mm long etc. complete including providing 12xl2 mm square bars duly welded to steel frame at not more than 12 cm c/c applying a priming coat of red-lead1 1 .24 paint etc. complete as per drawing. (a)Openable	13.91	sqm	Rs. 3,941.00	Rs. 54,819.31
17/11.19 (a)	Providing and fixing glass panes with putty and glazing clips in steel doors, windows, clerestory window, all complete with: (a) 4.0mm thick glass panes.	13.91	sqm	Rs. 1,148.00	Rs. 15,968.68
18/16.8	Distempering with oil bound washable distemper of approved brand and manufacture to give an even shade: New work (two or more coats) over and including water thinnable priming coat with cement primer	371.27	sqm	Rs. 140.00	Rs. 51,978.22
19/16.36 (a)	Painting with synthetic enamel paint of approved brand and manufacture of required colour to give an even shade: (a)New work (two or more coated over an under coats over an under coat of suitable shade with ordinary paint of approved brand and manufacture)	385.18	sqm	Rs. 155.00	Rs. 59,703.37

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Sl. No	Particulars of Work	Quantity	Unit	Rate	Amount
20/16.12 (a)	Applying priming coat: (a) with ready mixed pink or grey primer of approved brand and manufacture on wood work (hard and soft wood) with ready mixed alluminium primer of approved brand and manufacture on resinous wood and plywood	21.75	sqm	Rs. 54.00	Rs. 1,174.55
21/16.22 (b)	Painting wood work with delux multi surface Paint of required shade. Two or more coats applied @ 0.9. ltr/10sqm over an under coat of primer applied @ 0.75ltr/10sqm of approved brand and manufacture	25.43	sqm	Rs. 116.00	Rs. 2,950.00
22/13.1 (c)	Providing corrugate G.S or galvanised iron sheet roofing including vertical/ curved surface fixec with polymer coated J or L hooks, bolts and nuts 8mm diameter with bitumen and G.I impact washer or with G.I. limpet washer fillet with white lead, including a coat of approved steel primer and two coats of approved paint on overlapping of sheets complete(up to any pitch in horizontal/ vertical or curved surfaces), excluding the cost of purlin, rafter and truss and including cutting to shape wherever required (d) 0.60 mm thick with zinc coating not less than 275 gin/sqm	112.58	sqm	Rs. 862.00	Rs. 97,039.65
23/13.4 (c)	Providing ridges or hips Of width 60 cm overall width plain G.S. sheet fixed with polymer coated J or L hooks, bolts and nuts 8 mm dia. G.I. limpet and bitumen washers complete. (c) 0.60 mm thick with zinc coating not less than 275 gin/sqm	11.80	Rm	Rs. 616.00	Rs. 7,268.80
24/11.2	Structural steel work riveted, bolted or welded in built up sections, trusses and frame work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete.	977.70	kg	Rs. 123.00	Rs. 1,20,257.35
25/12.45 (a)	Providing and laying Vitrified tiles in different sizes (thickness to be specified by manufacturer), with water absorption less than 0.08% and conforming to IS: 15622 , of approved make, in all colours and shade, in skirting, riser of ste4ps, over 12mm thick bed of cement mortar 1:3 (1 cement: 3 coarse sand), joining with grey cement slurry @ 3.3 Kg/sqm including grouting the joint with white cement & matching pigments etc. complete. (a) Size of tile 500x500 mm	5.04	sqm	Rs. 1,586.00	Rs. 7,993.44

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Sl. No	Particulars of Work	Quantity	Unit	Rate	Amount
26/9.27 (a)	Providing polished VITPIIFIED wall tiles of approved quality, size, shape and thickness not less than 8 mm on walls and skirting over cement mortar bed 10 mm thick in prop.1:3 (1 cement: 3 coarse sand) including cutting where necessary finished with flush pointing with adhesive or white cement slurry mixed with approved pigment to match shade of tiles complete at all levels as specified and directed.	19.80	sqm	Rs. 1,551.00	Rs. 30,709.80
27/12.4	Making plinth protection 50mm thick of cement concrete 1:3:6 (1 cement: 3 coarse sand: 6 graded stone aggregate 20 mm nominal size) over 75 mm thick bed of dry brick ballast 40 mm nominal size, well rammed and consolidated and grouted with fine sand, including necessary excavation, levelling & dressing & finishing the top smooth.	25.55	sqm	Rs. 673.00	Rs. 17,195.15
28/10.8 (f)i	Providing and fixing panelling or panelling and glazing in panelled or panelled and glazed shutters for doors, windows and clerestory windows (Area Of opening for panel inserts excluding portion inside grooves or rebates to be measured). Panelling for panelled or panelled and glazed shutters 25 mm to 40 mm thick: (f) Particle Board 12 mm thick (i) Plain particle board flat pressed, 3 layer or graded wood particle board medium density Grade I, Is:3087 marked	1.84	sqm	Rs. 1,251.00	Rs. 2,301.84
29/14.11 (c)	Providing and fixing false ceiling at all height including providing and fixing of frame work made of special sections, power pressed from M.S. sheets and galvanized with zinc coating of 120 ....(c) Fully Perforated Gypsum Plaster Board Of size 1200x2400xl2.5 mm having approx. 15% perforated area with perforation size and pattern as approved by the Engineer-in charge and as per manufacturer's specification, with all 4 side tapered and backed by acoustical tissue with NPIC-value not less than 0.60.	68.91	sqm	Rs. 1,353.00	Rs. 93,238.61
				TOTAL =	Rs. 20,80,397.89

S. Langstang

Er. S.Langstang
Asstt. Engineer
Jwatbor Cajee & Associates
Architects : Engineers : Designers
Project Management & Turnkey Solutions

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Ar. Jwatbor.S Cajee
CEO & Chief Architect
Jwatbor Cajee & Associates
Architects:Engineers:Designers
Project Management & Turnkey Solutions

NAME OF WORK : PROPOSED COMMUNITY HALL CONCEPT AT GARO HILLS

Rate as per the Meghalaya P.W.D (Building) S.O.R for 2021-2022

Detail Estimate

Sl. No	No.			L	B	D	Qnty	Unit	Rate	Amount
1/2.1(a)	Earthwork in excavation upto a depth of 2m below the existing ground level for foundation trenches of foundations, footings of column/ walls, retaining walls, septic tank etc. including bailing out water where necessary and removal of surplus earth with all lead and lifts as directed and specified for the following classification of soils.(a) All kind of soil(Ordinary soil/hard soil/dense soil)									
F1	2	1	1	1.2	1.20	1.800	5.18	cum		
F2	4	1	1	1.4	1.40	1.800	14.11	cum		
F3	2	1	1	1.6	1.60	1.800	9.22	cum		
P/B	1	1	1	5.5	0.55	0.700	2.12	cum		
	3	1	1	7.00	0.55	0.700	8.09	cum		
	2	1	1	2.5	0.55	0.700	1.93	cum		
	4	1	1	4.375	0.55	0.700	6.74	cum		
						Total	**47.38**	**cum**	**Rs.213.00**	**Rs. 10,091.30**
2/12.5(b) (i)	Providing stone soling in foundation and under floor with stone/ best quality picked jhama brick, sand packed and laid to level and in panel after preparing the subgrade as directed including all labour and materials and if necessary dewatering, complete.(b) Stone soling (i)100mm									
F1	2	1	1	1.2	1.20	-	2.88	sqm		
F2	4	1	1	1.4	1.40	-	7.84	sqm		
F3	2	1	1	1.6	1.60	-	5.12	sqm		
P/B	1	1	1	5.5	0.55	-	3.03	sqm		
	3	1	1	7.00	0.55	-	11.55	sqm		
	2	1	1	2.5	0.55	-	2.75	sqm		
	4	1	1	4.375	0.55	-	9.63	sqm		
FLOOR	1	1	1	2.5	5.50	-	13.75	sqm		
	2	1	1	4.375	7.00	-	61.25	sqm		
	1	1	1	1.20	0.80	-	0.96	sqm		
	1	1	1	2.65	0.75	-	1.99	sqm		
	2	1	1	1.55	0.80	-	2.48	sqm		
	1	1	1	1.30	0.90	-	1.17	sqm		
	1	1	1	3.00	1.60	-	4.80	sqm		
	1	1	1	3.40	1.00	-	3.40	sqm		
						Total	**132.59**	**sqm**	**Rs.415.00**	**Rs. 55,023.81**
3/5.1(b)	Plain cement concrete works with coarse aggregate of sizes 13mm to 32mm in foundation bed for footing steps, walls, brick works etc. as directed and specified including dewatering if necessary, and curing complete (shuttering where necessary shall be measured and paid separately).(c) 1:3:6 (1 cement: 3 coarse sand: 6 graded stone aggregate 20mm nominal size)									
F1	2	1	1	1.2	1.20	0.100	0.29	cum		
F2	4	1	1	1.4	1.40	0.100	0.78	cum		
F3	2	1	1	1.6	1.60	0.100	0.51	cum		

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Sl. No	No.			L	B	D	Qnty	Unit	Rate	Amount
P/B	1	1	1	5.5	0.55	0.100	0.30	cum		
	3	1	1	7.00	0.55	0.100	1.16	cum		
	2	1	1	2.5	0.55	0.100	0.28	cum		
	4	1	1	4.375	0.55	0.100	0.96	cum		
FLOOR	1	1	1	2.5	5.50	0.100	1.38	cum		
	2	1	1	4.375	7.00	0.100	6.13	cum		
						Total	**11.78**	**cum**	**Rs.7,601.00**	**Rs. 89,532.18**
4/8.1 (a)	Random rubble masonry with hard stone in foundation and plinth including levelling up with cement concrete 1:6:12 (1 cement: 6 coarse sand; 12 grade stone aggregate 20mm nominal size) up to plinth level with : (a) cement mortar 1:6 (1 cement: 6 coarse sand)									
P/B	1	1	1	5.5	0.45	0.850	2.10	cum		
	3	1	1	7.00	0.45	0.850	8.03	cum		
	2	1	1	2.5	0.45	0.800	1.80	cum		
	4	1	1	4.375	0.45	0.850	6.69	cum		
						Total	**18.63**	**cum**	**Rs.6,098.00**	**Rs. 1,13,605.74**
5/6.11(b)	Supplying, fitting and fixing in position reinforcement bars upto 1st floor level, conforming to relevant I.S. Code forR.C.C. work/ R.B. walling including straightening, cleaning, cutting and bending to proper shapes and length as per details, supplying and binding with 20G annealed black wire and placing in position with proper blocks, supports,chairs, spacers etc. complete.(Rates inclusive of all wastage, lappage, hooks, chairs, anchorage etc. and no measurements for the same is required) (b) High Yield Strength Deformed bars or Tor Bars									
	No.				**L**	**Unit weight**	**Qnty**	**Unit**		
F1										
12mmϕ	2	2	1	10	1.20	0.889	42.67	kg		
F2										
12mmϕ	4	2	1	10	1.40	0.889	99.57	kg		
F3										
12mmϕ	2	2	1	10	1.60	0.889	56.90	kg		
P/B										
16mmϕ	1	4	1	1	6.20	1.580	39.18	kg		
16mmϕ	1	1	2	1	2.07	1.580	6.53	kg		
8mmϕ	1	57.4	1	1	1.20	0.395	27.19	kg		
16mmϕ	3	4	1	1	7.70	1.580	145.99	kg		
16mmϕ	3	1	2	1	2.57	1.580	24.33	kg		
8mmϕ	3	71	1	1	1.20	0.395	100.96	kg		
16mmϕ	2	4	1	1	3.20	1.580	40.45	kg		
16mmϕ	2	1	2	1	1.07	1.580	6.74	kg		
8mmϕ	2	30	1	1	1.20	0.395	28.53	kg		
16mmϕ	4	4	1	1	5.03	1.580	127.03	kg		
16mmϕ	4	1	2	1	1.68	1.580	21.17	kg		
8mmϕ	4	47	1	1	1.20	0.395	88.51	kg		
Column										
16mmϕ	8	8	1	1	6.05	1.580	611.78	kg		

	No.				L	Unit weight	Qnty	Unit		
8mmφ	8	47	1	1	1.40	0.395	207.93	kg		
8mmφ	8	47	1	1	1.20	0.395	178.22	kg		
Beam										
20mmφ	1	4	1	1	6.30	2.470	62.24	kg		
20mmφ	1	2	2	1	2.10	2.470	20.75	kg		
20mmφ	1	2	1	1	4.70	2.470	23.22	kg		
8mmφ	1	61	1	1	1.30	0.395	31.32	kg		
20mmφ	3	4	1	1	7.80	2.470	231.19	kg		
20mmφ	3	2	2	1	2.60	2.470	77.06	kg		
20mmφ	3	2	1	1	6.20	2.470	91.88	kg		
8mmφ	3	61	1	1	1.30	0.395	93.97	kg		
20mmφ	2	4	1	1	3.30	2.470	65.21	kg		
20mmφ	2	2	2	1	1.10	2.470	21.74	kg		
20mmφ	2	2	1	1	1.70	2.470	16.80	kg		
8mmφ	2	61	1	1	1.30	0.395	62.65	kg		
20mmφ	4	4	1	1	5.18	2.470	204.52	kg		
20mmφ	4	2	2	1	1.73	2.470	68.17	kg		
20mmφ	4	2	1	1	3.58	2.470	70.64	kg		
8mmφ	4	61	1	1	1.30	0.395	125.29	kg		
Lintel										
10mmφ	4	3	1	1	2.80	0.617	20.73	kg		
8mmφ	4	19	1	1	0.55	0.395	16.22	kg		
10mmφ	4	3	1	1	4.68	0.617	34.61	kg		
8mmφ	4	31	1	1	0.55	0.395	27.08	kg		
10mmφ	2	3	1	1	7.30	0.617	27.02	kg		
8mmφ	2	49	1	1	0.55	0.395	21.15	kg		
10mmφ	1	3	1	1	5.80	0.617	10.74	kg		
8mmφ	1	39	1	1	0.55	0.395	8.40	kg		
Sill										
10mmφ	4	2	1	1	2.65	0.617	13.08	kg		
8mmφ	4	18	1	1	0.40	0.395	11.17	kg		
10mmφ	4	2	1	1	4.53	0.617	22.34	kg		
8mmφ	4	30	1	1	0.40	0.395	19.07	kg		
10mmφ	2	2	1	1	7.15	0.617	17.65	kg		
8mmφ	2	48	1	1	0.40	0.395	15.06	kg		
10mmφ	1	2	1	1	5.65	0.617	6.97	kg		
8mmφ	1	38	1	1	0.40	0.395	5.95	kg		

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	No.				L	Unit weight	Qnty	Unit		
Slab										
10mmφ	1	26	1	1	5.50	0.617	88.23	kg		
10mmφ	1	13	2	1	1.38	0.617	22.06	kg		
10mmφ	1	56	1	1	2.50	0.617	86.38	kg		
10mmφ	1	28	2	1	0.63	0.617	21.60	kg		
Chajja										
10mmφ	1	4	1	1	1.20	0.617	2.96	kg		
10mmφ	1	8	1	1	0.60	0.617	2.96	kg		
10mmφ	1	4	1	1	2.65	0.617	6.54	kg		
10mmφ	1	18	1	1	0.60	0.617	6.54	kg		
10mmφ	1	6	1	1	1.30	0.617	4.81	kg		
10mmφ	1	9	1	1	0.90	0.617	4.81	kg		
						total=	**3644.47**	kg		
						or =	**36.44**	**qntl**	**Rs.10,936.00**	**Rs. 3,98,558.81**
6./4	Shuttering/ Formwork Centering and shuttering including strutting, propping etc. and removal of form for all heights complete and as directed by engineer in charge									
4.1	Foundations, Footing, bases of columns, etc. for mass concrete (using steel)									
F1	2	4	1	1.20	-	0.300	2.88	sqm		
F2	4	4	1	1.40	-	0.300	6.72	sqm		
F3	2	4	1	1.60	-	0.300	3.84	sqm		
Column below plinth										
	8	4	1	0.35	-	1.350	15.12	sqm		
						Total	**28.56**	**sqm**	**Rs.251.00**	**Rs. 7,168.56**
4.5	Columns, Pillar, Piers, Abutment, Posts and Struts (using steel)									
	8	4	1	0.35	-	3.300	36.96	sqm		
						Total	**36.96**	**sqm**	**Rs.609.00**	**Rs. 22,508.64**
4.4	Lintel, Beam, Plinth beams, girder, bressumer and cantilever (using steel)									
P/B	1	2	1	5.50	-	0.350	3.85	sqm		
	3	2	1	7.00	-	0.350	14.70	sqm		
	2	2	1	2.50	-	0.350	3.50	sqm		
	4	2	1	4.38	-	0.350	12.25	sqm		
Beam	1	2	1	5.50	-	0.400	4.40	sqm		
	3	2	1	7.00	-	0.400	16.80	sqm		

Sl. No	No.			L	B	D	Qnty	Unit	Rate	Amount
	2	2	1	2.50	-	0.400	4.00	sqm		
	4	2	1	4.38	-	0.400	14.00	sqm		
Lintel										
	4	2	1	2.50	-	0.150	3.00	sqm		
	4	2	1	4.38	-	0.150	5.25	sqm		
	2	2	1	7.00	-	0.150	4.20	sqm		
	1	2	1	5.50	-	0.150	1.65	sqm		
						Total	**87.60**	sqm	**Rs.486.00**	**Rs. 42,573.60**
4.3	Slabs, roofs, landings, balconies and access platform, shelves (using steel).									
Slab	1	1	1	5.50	-	2.500	13.75	sqm		
Chajja										
	1	1	1	1.20	-	0.600	0.72	sqm		
	1	1	1	2.65	-	0.600	1.59	sqm		
	1	1	1	1.30	-	0.600	0.78	sqm		
						Total	**16.84**	sqm	**Rs.581.00**	**Rs. 9,784.04**
7/6.1(b)	Providing and laying in position in position specified grade of reinforced cement concrete, excluding the cost of centering, shuttering, finishing and reinforcement- All work up plinth level: (b) M20 or 1:11/2:3 (1 cement: 11/2 coarse sand: 3 grade stone aggregate 20mm nominal size)									
F1	2	1	1	1.2	1.20	0.500	1.44	cum		
F2	4	1	1	1.4	1.40	0.500	3.92	cum		
F3	2	1	1	1.6	1.60	0.500	2.56	cum		
Column	8	1	1	0.35	0.35	1.350	1.32	cum		
PB	1	1	1	5.5	0.25	0.350	0.48	cum		
	3	1	1	7.0	0.25	0.350	1.84	cum		
	2	1	1	2.5	0.25	0.350	0.44	cum		
	4	1	1	4.375	0.25	0.350	1.53	cum		
						Total	**13.53**	**cum**	**Rs.9,336.00**	**Rs. 1,26,320.75**
8/6.2 (b)	Reinforced cement concrete work in walls (any thickness) including attached pilaster, buttresses, fillets, columns, pillars, post and struts etc. above plinth level up to first floor level, excluding cost of centering and shuttering, finishing and reinforcement: (b) M20 or 1:11/2:3 (1 cement: 11/2 coarse sand: 3 grade stone aggregate 20mm nominal size)									
column	8	1	1	0.35	0.35	3.300	3.23	cum		
						Total	**3.23**	cum	Rs.9,923.00	**Rs. 32,090.98**

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Sl. No	No.			L	B	D	Qnty	Unit	Rate	Amount
9/6.3 (b)	Reinforced cement concrete work in beams, slab, roofs, having slope up to 15°, landings, balconies, shelve, chejjas, lintel, bands, plain window sills, staircase and spiral stair case above plinth level up to first floor level, excluding cost of centering and shuttering, finishing and reinforcement: (b) M20 or 1:11/2:3 (1 cement: 11/2 coarse sand: 3 grade stone aggregate 20mm nominal size)									
Beams	1	1	1	5.5	0.25	0.400	0.55	cum		
	3	1	1	7.0	0.25	0.400	2.10	cum		
	2	1	1	2.5	0.25	0.400	0.50	cum		
	4	1	1	4.375	0.25	0.400	1.75	cum		
Lintel	4	1	1	2.5	0.125	0.150	0.19	cum		
	4	1	1	4.4	0.125	0.150	0.33	cum		
	2	1	1	7.0	0.125	0.150	0.26	cum		
	1	1	1	5.5	0.125	0.150	0.10	cum		
Sill	4	1	1	2.5	0.125	0.075	0.09	cum		
	4	1	1	4.4	0.125	0.075	0.16	cum		
	2	1	1	7.0	0.125	0.075	0.13	cum		
	1	1	1	5.5	0.125	0.075	0.05	cum		
Slab	1	1	1	5.5	2.50	0.125	1.72	cum		
Chajja	1	1	1	1.2	0.60	0.100	0.07	cum		
	1	1	1	2.65	0.60	0.100	0.16	cum		
	1	1	1	1.30	0.60	0.100	0.08	cum		
						Total	**8.25**	**cum**	**Rs.10,335.00**	**Rs. 85,259.87**
10/2.6(a)	Earthwork in filling (excluding rock) in trenches, plinth, sides of foundation etc in layer not exceeding 20cm thick including breaking of clods, consolidating each layer by ramming and watering, lead up to 50m and lift up to 1.5m. (a) with available excavated earth									
F1	2	1	1	1.2	1.20	1.800	5.18	cum		
F2	4	1	1	1.4	1.40	1.800	14.11	cum		
F3	2	1	1	1.6	1.60	1.800	9.22	cum		
P/B	1	1	1	5.5	0.55	0.700	2.12	cum		
	3	1	1	7.00	0.55	0.700	8.09	cum		
	2	1	1	2.5	0.55	0.700	1.93	cum		
	4	1	1	4.375	0.55	0.700	6.74	cum		
deduction										
F1	2	1	1	1.2	1.20	0.500	-1.44	cum		
F2	4	1	1	1.4	1.40	0.500	-3.92	cum		
F3	2	1	1	1.6	1.60	0.500	-2.56	cum		
Column	8	1	1	0.35	0.35	1.350	-1.32	cum		
PB	1	1	1	5.5	0.45	0.600	-1.49	cum		
	3	1	1	7.0	0.45	0.600	-5.67	cum		
	2	1	1	2.5	0.45	0.600	-1.35	cum		
	4	1	1	4.375	0.45	0.600	-4.73	cum		
						Total	**24.90**	**cum**	**Rs.141.00**	**Rs. 3,511.46**

Sl. No	No.			L	B	D	Qnty	Unit	Rate	Amount
11/12.13	65mm thick cement concrete flooring with concrete hardener topping, under layer 50mm thick cement concrete 1:2:4 (1 cement: 2 coarse sand: 4 grade stone aggregate 20mm nominal size) and top layer 15mm thick cement hardener consisting of mix 1:2 (1 cement hardener mix: 2 graded stone aggregate, 6 nominal size) by volume, hardening compound mixed @ 2 litre per 50 kg of cement or as per manufacture's specifications. This includes cost of cement slurry, complete									
	1	1	1	2.50	5.50	-	13.75	sqm		
	2	1	1	4.38	7.00	-	61.25	sqm		
	1	1	1	1.20	0.80	-	0.96	sqm		
	1	1	1	2.65	0.75	-	1.99	sqm		
	2	1	1	1.55	0.80	-	2.48	sqm		
	1	1	1	1.30	0.90	-	1.17	sqm		
	1	1	1	3.00	1.60	-	4.80	sqm		
	1	1	1	3.40	1.00	-	3.40	sqm		
						Total	**89.80**	**sqm**	**Rs.836.00**	**Rs. 75,070.71**
12/7.10(a)	Half brick masonry with common burnt clay (non modular) 1st class bricks in superstructure above plinth level up to first floor level . (a) Cement mortar 1:3 (1 cement: 3 Coarse sand)									
	4	1	1	2.50	-	3.300	33.00	sqm		
	1	1	1	1.50	-	3.150	4.73	sqm		
	1	1	1	5.50	-	3.100	17.05	sqm		
	2	1	1	7.00	-	3.300	46.20	sqm		
	4	1	1	4.38	-	3.300	57.75	sqm		
	1	1	1	0.50	-	2.100	1.05	sqm		
deduction										
W-80	1	1	1	0.80	-	1.100	-0.88	sqm		
W-120	1	1	1	1.20	-	1.525	-1.83	sqm		
W-200	2	1	1	2.00	-	1.950	-7.80	sqm		
FW-100	2	1	1	1.00	-	1.700	-3.40	sqm		
FD-150	1	1	1	1.50	-	2.650	-3.98	sqm		
D-80	4	1	1	0.80	-	2.535	-8.11	sqm		
D-80	4	1	1	0.80	-	1.850	-5.92	sqm		
D-90	2	1	1	0.90	-	2.150	-3.87	sqm		
D-130	2	1	1	1.30	-	2.650	-6.89	sqm		
						Total	**117.10**	**sqm**	**Rs.1,247.00**	**Rs. 1,46,021.21**
13/15.8(a)	15mm cement plaster on rough side of single or half brick wall finished with floating coat of neat cement of mix: (b) 1:3 (1 cement: 3 find sand)									
Column	8	4	1	0.35	-	3.300	36.96	sqm		
Beam	1	2	1	5.50	-	0.400	4.40	sqm		
	3	2	1	7.00	-	0.400	16.80	sqm		
	2	2	1	2.50	-	0.400	4.00	sqm		
	4	2	1	4.38	-	0.400	14.00	sqm		

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Sl. No	No.			L	B	D	Qnty	Unit	Rate	Amount
Lintel										
	4	2	1	2.50	-	0.150	3.00	sqm		
	4	2	1	4.38	-	0.150	5.25	sqm		
	2	2	1	7.00	-	0.150	4.20	sqm		
	1	2	1	5.50	-	0.150	1.65	sqm		
Slab	1	1	2	5.50	-	2.500	27.50	sqm		
Chajja										
	1	1	1	1.20	-	0.600	0.72	sqm		
	1	1	1	2.65	-	0.600	1.59	sqm		
	1	1	1	1.30	-	0.600	0.78	sqm		
Brick walling										
	4	1	2	2.50	-	3.150	63.00	sqm		
	1	1	2	1.50	-	3.150	9.45	sqm		
	1	1	2	5.50	-	3.150	34.65	sqm		
	2	1	2	7.00	-	3.150	88.20	sqm		
	4	1	2	4.38	-	3.150	110.25	sqm		
	1	1	2	0.50	-	2.100	2.10	sqm		
deduction										
W-80	1	1	1	0.80	-	1.100	-0.88	sqm		
W-120	1	1	1	1.20	-	1.525	-1.83	sqm		
W-200	2	1	1	2.00	-	1.950	-7.80	sqm		
FW-100	2	1	1	1.00	-	1.700	-3.40	sqm		
FD-150	1	1	1	1.50	-	2.650	-3.98	sqm		
D-80	4	1	1	0.80	-	2.535	-8.11	sqm		
D-80	4	1	1	0.80	-	1.850	-5.92	sqm		
D-90	2	1	1	0.90	-	2.150	-3.87	sqm		
D-130	2	1	1	1.30	-	2.650	-6.89	sqm		
						Total	**385.82**	**sqm**	**Rs.351.00**	**Rs. 1,35,423.87**
14/10.1 (c)i	Providing wood works in frames of doors, window, clerestory window and other frames, wrought frame and fixed in position with hold fast lugs or with dash fasteners of required diameter and length.(c) with first class local wood (i) Pooma/ Hollock/Gamari/ and the like									
FD-150	1	1	1	8.30	0.12	0.120	0.12	cum		
FW-100	2	1	1	5.80	0.12	0.120	0.17	cum		
D-80	2	1	1	6.67	0.12	0.120	0.19	cum		
D-80	2	1	1	5.30	0.12	0.120	0.15	cum		
D-90	2	1	1	5.20	0.12	0.120	0.15	cum		
D-130	2	1	1	7.90	0.12	0.120	0.23	cum		
						Total	1.01	cum	**Rs.85,348.00**	**Rs. 86,079.94**

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Sl. No	No.			L	B	D	Qnty	Unit	Rate	Amount
15/10.5(a)(i)	Providing and fixing panelling or panelled and glazed shutters for door, window and clerestory window fixing with butt hinges of required size with necessary screws, excluding panelling which will be paid for seperately, all complete as per direction as Engineer-in-charge. (note:- Butt hinges and necessary screws shall be paid seperately)(a) with teak wook/sissu wood (i) 35mm thick shutter									
FD-150	1	1	1	1.50	-	2.650	3.98	sqm		
D-80	2	1	1	0.80	-	2.535	4.06	sqm		
D-80	2	1	1	0.80	-	1.850	2.96	sqm		
D-90	2	1	1	0.90	-	2.150	3.87	sqm		
D-130	2	1	1	1.30	-	2.650	6.89	sqm		
						Total	**21.75**	**sqm**	**Rs.3,640.00**	**Rs. 79,173.64**
16/11.22 (a)	Providing, fitting and fixing steel windows (including ventilators) of standard rolled steel sections as per relevant I.S. Code, joints mitred and welded with 15x3xl00 mm lugs embedded in cement concrete block of M-10 grade including providing and fixing of projecting hinges (not more than 65 mm and not less than 15 mm wide) bolting device, steel handles, pegs, stays of 300 mm long etc. complete including providing 12xl2 mm square bars duly welded to steel frame at not more than 12 cm c/c applying a priming coat of red-lead1 1 .24 paint etc. complete as per drawing. (a)Openable									
W-80	1	1	1	0.80	-	1.100	0.88	sqm		
W-120	1	1	1	1.20	-	1.525	1.83	sqm		
W-200	2	1	1	2.00	-	1.950	7.80	sqm		
FW-100	2	1	1	1.00	-	1.700	3.40	sqm		
						Total	**13.91**	**sqm**	**Rs.3,941.00**	**Rs. 54,819.31**
17/11.19 (a)	Providing and fixing glass panes with putty and glazing clips in steel doors, windows, clerestory window, all complete with: (a) 4.0mm thick glass panes.									
W-80	1	1	1	0.80	-	1.100	0.88	sqm		
W-120	1	1	1	1.20	-	1.525	1.83	sqm		
W-200	2	1	1	2.00	-	1.950	7.80	sqm		
FW-100	2	1	1	1.00	-	1.700	3.40	sqm		
						Total	**13.91**	**sqm**	**Rs.1,148.00**	**Rs. 15,968.68**
18/16.8	Distempering with oil bound washable distemper of approved brand and manufacture to give an even shade: New work (two or more coats) over and including water thinnable priming coat with cement primer									
Column	8	4	1	0.35	-	3.300	36.96	sqm		
Beam	1	2	1	5.50	-	0.400	4.40	sqm		
	3	2	1	7.00	-	0.400	16.80	sqm		
	2	2	1	2.50	-	0.400	4.00	sqm		
	4	2	1	4.38	-	0.400	14.00	sqm		
Lintel										
	4	2	1	2.50	-	0.150	3.00	sqm		
	4	2	1	4.38	-	0.150	5.25	sqm		
	2	2	1	7.00	-	0.150	4.20	sqm		
	1	2	1	5.50	-	0.150	1.65	sqm		
Slab	1	1	2	5.50	-	2.500	27.50	sqm		
Chajja										
	1	1	1	1.20	-	0.600	0.72	sqm		

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Sl. No	No.			L	B	D	Qnty	Unit	Rate	Amount
	1	1	1	2.65	-	0.600	1.59	sqm		
	1	1	1	1.30	-	0.600	0.78	sqm		
Brick walling										
	4	1	2	2.50	-	3.000	60.00	sqm		
	1	1	2	1.50	-	3.000	9.00	sqm		
	1	1	2	5.50	-	3.000	33.00	sqm		
	2	1	2	7.00	-	3.000	84.00	sqm		
	4	1	2	4.38	-	3.000	105.00	sqm		
	1	1	2	0.50	-	2.100	2.10	sqm		
deduction										
W-80	1	1	1	0.80	-	1.100	-0.88	sqm		
W-120	1	1	1	1.20	-	1.525	-1.83	sqm		
W-200	2	1	1	2.00	-	1.950	-7.80	sqm		
FW-100	2	1	1	1.00	-	1.700	-3.40	sqm		
FD-150	1	1	1	1.50	-	2.650	-3.98	sqm		
D-80	4	1	1	0.80	-	2.535	-8.11	sqm		
D-80	4	1	1	0.80	-	1.850	-5.92	sqm		
D-90	2	1	1	0.90	-	2.150	-3.87	sqm		
D-130	2	1	1	1.30	-	2.650	-6.89	sqm		
						Total	**371.27**	**sqm**	**Rs.140.00**	**Rs. 51,978.22**
19/16.36 (a)	Painting with synthetic enamel paint of approved brand and manufacture of required colour to give an even shade: (a)New work (two or more coated over an under coats over an under coat of suitable shade with ordinary paint of approved brand and manufacture)									
	Same Quantity as 22/16.8						371.27	sqm		
Window										
W-80	1	1	1	0.80	-	1.100	0.88	sqm		
W-120	1	1	1	1.20	-	1.525	1.83	sqm		
W-200	2	1	1	2.00	-	1.950	7.80	sqm		
FW-100	2	1	1	1.00	-	1.700	3.40	sqm		
						Total	**385.18**	**sqm**	**Rs.155.00**	**Rs. 59,703.37**
20/16.12 (a)	Applying priming coat: (a) with ready mixed pink or grey primer of approved brand and manufacture on wood work (hard and soft wood) with ready mixed alluminium primer of approved brand and manufacture on resinous wood and plywood									
FD-150	1	1	1	1.50	-	2.650	3.98	sqm		
D-80	2	1	1	0.80	-	2.535	4.06	sqm		
D-80	2	1	1	0.80	-	1.850	2.96	sqm		
D-90	2	1	1	0.90	-	2.150	3.87	sqm		
D-130	2	1	1	1.30	-	2.650	6.89	sqm		
						Total	**21.75**	**sqm**	**Rs.54.00**	**Rs. 1,174.55**

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Sl. No	No.			L	B	D	Qnty	Unit	Rate	Amount
21/16.22 (b)	Painting wood work with delux multi surface Paint of required shade. Two or more coats applied @ 0.9. ltr/10sqm over an under coat of primer applied @ 0.75ltr/10sqm of approved brand and manufacture									
FD-150	1	1	1	1.50	-	2.650	3.98	sqm		
D-80	2	1	1	0.80	-	2.535	4.06	sqm		
D-80	2	1	1	0.80	-	1.850	2.96	sqm		
D-90	2	1	1	0.90	-	2.150	3.87	sqm		
D-130	2	1	1	1.30	-	2.650	6.89	sqm		
	2	2	1	4.00	0.60	-	9.60	sqm		
deduction	2	2	1	0.80	1.85	-	-5.92	sqm		
						Total	**25.43**	**sqm**	**Rs.116.00**	**Rs. 2,950.00**
22/13.1 (c)	Providing corrugate G.S or galvanised iron sheet roofing including vertical/ curved surface fixec with polymer coated J or L hooks, bolts and nuts 8mm diameter with bitumen and G.I impact washer or with G.I. limpet washer fillet with white lead, including a coat of approved steel primer and two coats of approved paint on overlapping of sheets complete(up to any pitch in horizontal/ vertical or curved surfaces), excluding the cost of purlin, rafter and truss and including cutting to shape wherever required (d) 0.60 mm thick with zinc coating not less than 275 gin/sqm									
	1	1	1	11.85	9.50	-	112.58			
						Total	**112.58**	**sqm**	**Rs.862.00**	**Rs. 97,039.65**
23/13.4 (c)	Providing ridges or hips Of width 60 cm overall width plain G.S. sheet fixed with polymer coated J or L hooks, bolts and nuts 8 mm dia. G.I. limpet and bitumen washers complete. (c) 0.60 mm thick with zinc coating not less than 275 gin/sqm									
	1	1	1	1.00	11.80	-	11.80			
						Total	**11.80**	**Rm**	**Rs.616.00**	**Rs. 7,268.80**
24/11.2	Structural steel work riveted, bolted or welded in built up sections, trusses and frame work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete.									
	No.			**L**	**Size**	**Unit weight**	**Qnty**	**Unit**		
	3	1	1	7.30	60x40	4.980	109.06	kg		
	3	2	1	4.00	60x40	4.980	119.52	kg		
	3	1	1	1.80	50x25	3.240	17.50	kg		
	3	2	1	1.65	50x25	3.240	32.08	kg		
	3	2	1	1.00	50x25	3.240	19.44	kg		
	3	2	1	1.10	50x25	3.240	21.38	kg		
	3	2	1	0.60	50x25	3.240	11.66	kg		
	6	2	1	11.35	50x25	3.490	475.34	kg		
	6	1	1	2.55	50x25	3.240	49.57	kg		
	2	2	1	8.75	50x25	3.490	122.15	kg		
						Total	**977.70**	**kg**	**Rs.123.00**	**Rs. 1,20,257.35**
25/12.45 (a)	Providing and laying Vitrified tiles in different sizes (thickness to be specified by manufacturer), with water absorption less than 0.08% and conforming to IS: 15622 , of approved make, in all colours and shade, in skirting, riser of steps, over 12mm thick bed of cement mortar 1:3 (1 cement: 3 coarse sand), joining with grey cement slurry @ 3.3 Kg/sqm including grouting the joint with white cement & matching pigments etc. complete. (a) Size of tile 500x500 mm									
	1	1	1	1.80	2.80	-	5.04			

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Sl. No	No.			L	B	D	Qnty	Unit	Rate	Amount
						Total	5.04	sqm	Rs.1,586.00	Rs. 7,993.44
26/9.27 (a)	Providing polished VITPIIFIED wall tiles of approved quality, size, shape and thickness not less than 8 mm on walls and skirting over cement mortar bed 10 mm thick in prop.1:3 (1 cement: 3 coarse sand) including cutting where necessary finished with flush pointing with adhesive or white cement slurry mixed with approved pigment to match shade of tiles complete at all levels as specified and directed.									
	4	1	1	1.50	1.80	-	10.80			
	2	1	1	2.50	1.80	-	9.00			
						Total	19.80	sqm	Rs.1,551.00	Rs. 30,709.80
27/12.4	Making plinth protection 50mm thick of cement concrete 1:3:6 (1 cement: 3 coarse sand: 6 graded stone aggregate 20 mm nominal size) over 75 mm thick bed of dry brick ballast 40 mm nominal size, well rammed and consolidated and grouted with fine sand, including necessary excavation, levelling & dressing & finishing the top smooth.									
	2	1	1	11.25	0.70	-	15.75			
	2	1	1	7.00	0.70	-	9.80			
						Total	25.55	sqm	Rs.673.00	Rs. 17,195.15
28/10.8 (f)i	Providing and fixing panelling or panelling and glazing in panelled or panelled and glazed shutters for doors, windows and clerestory windows (Area Of opening for panel inserts excluding portion inside grooves or rebates to be measured). Panelling for panelled or panelled and glazed shutters 25 mm to 40 mm thick: (f) Particle Board 12 mm thick (i) Plain particle board flat pressed, 3 layer or graded wood particle board medium density Grade I, Is:3087 marked									
	2	1	1	4.00	0.60	-	4.80			
deduction	2	1	1	0.80	1.85	-	-2.96			
						Total	1.84	sqm	Rs.1,251.00	Rs. 2,301.84
29/14.11 (c)	Providing and fixing false ceiling at all height including providing and fixing of frame work made of special sections, power pressed from M.S. sheets and galvanized with zinc coating of 120 ....(c) Fully Perforated Gypsum Plaster Board Of size 1200x2400xl2.5 mm having approx. 15% perforated area with perforation size and pattern as approved by the Engineer-in charge and as per manufacturer's specification, with all 4 side tapered and backed by acoustical tissue with NPIC-value not less than 0.60.									
	1	1	1	9.25	7.45	-	68.91			
						Total	68.91	sqm	Rs.1,353.00	Rs. 93,238.61
									GRAND TOTAL=	₹ 20,80,397.89

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NAME OF WORK: PROPOSED COMMUNITY HALL CONCEPT - AT GARO HILLS

Bill of Quantities

Sl.no	Items	Qnty	Units
1	Earthwork in foundation	1672	cu.ft
2	Earthwork in filling	880	cu.ft
3	Steel reinforcement		
(i)	20mm	9.53	qntls
(ii)	16mm	10.5	qntls
(iii)	12mm	2	qntls
(iv)	10mm	4	qntls
(v)	8mm	10.5	qntls
	Total =	**36.53**	qntls
4	Shuttering plank	1830	sq.ft
5	Stone masonry	658	cu.ft
6	Soling	1427	sq.ft
7	Cement	351	bags
8	River sand	700	cu.ft
9	Stone aggregates	1400	cu.ft
10	Hill sand	200	cu.ft
11	Bricks	7318	nos
12	Door chowkat	36	cu.ft
13	Door shutter	234	sq.ft
14	glaze shutter for door	20	sq.ft
15	Steel grill windows	150	sq.ft
16	Glass panes	150	sq.ft
17	Painting Works		
17.1	Primer	29	lits
17.2	Paint (distemper)	11	lits
18	tiles work		
18.1	floor tiles (toilet)	54	sq.ft
18.2	wall tiles (toilet)	214	sq.ft
19	Steel Roof truss	9.8	qntls
20	sheet roofing	1212	sq.ft
21	gutter/ridge	39	R.ft
22	False ceiling (gypsum plaster board)	742	sq.ft

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8.0 INTERNAL ELECTRIFICATION ESTIMATE OF COMMUNITY HALL AT GARO HILLS

Rate As Per PWD SOR 2021-2022

Sl No	Items	Unit	Quantity	Rate	Amount	Remarks
1	Wiring in looping system with copper PVC cable 250/440 Volt grade of size 1.5 sqmm of approved quality using PVC casing capping including 5 amperes switch Indian best quality ceiling rose etc. capable to a highest point.					SOR No 1
	(a) Long point wiring upto 10mtrs	each	15	₹ 2,255.00	₹ 33,825.00	
	(b) Medium point wiring upto 6mtrs	each	4	₹ 1,804.00	₹ 7,216.00	
	(c) Short point wiring upto 3mtrs	each	6	₹ 1,438.00	₹ 8,628.00	
2	Wiring as in item NO.1 complete to a light plug point when fixed elsewhere with continous earth wire complete.					SOR No 2
	(a) Long point wiring upto 10mtrs	each	2	₹ 2,625.00	₹ 5,250.00	
3	Wiring to a Power Plug as in item No.1 above with continous earth wire complete.					SOR No 4
	(a) Long point wiring upto 10mtrs	each	2	₹ 3,628.00	₹ 7,256.00	
4	Drawing of Main and Sub-main line with DGSD approved VIR or PVC 250/440 Volt grade in PVC casing caping complete with all accessories.					SOR No 9
	(b) With 2x4 mm² Copper Conductor.	per mtr	60	₹ 283.00	₹ 16,980.00	
6	Supplying & fixing of Load Kontaket Miniature Circuit Breakers DX3 MCB's for AC application till 63 A					SOR No 52
	(a) 6-32 Amp	each	6	₹ 407.00	₹ 2,442.00	
7	Supplying, fitting and fixing of DX3 Isolatora for AC applications upto 125 A.					SOR No 53
	(A) Double Pole					
	(a) 32 Amp	each	1	₹ 628.00	₹ 628.00	
8	Supplying, fitting and fixing of Distribution Board SPN DB's for MCB, Isolator, RCCB and RCBO.					SOR No 59
	B. IP 43 - #1K 09 with metal door.					
	(b) 8 Way + 8 Module	each	1	₹ 2,498.00	₹ 2,498.00	
9	Supplying, fitting & fixing complete polish brass bracket, 16mm dia and 23cm long with cast backplate and brass lamp holder with LED bulb surface or wall mounted with all necessary accessories.					SOR No 63
	(a) Bulb					
	(v) 12 W	each	6	₹ 385.00	₹ 2,310.00	

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Sl No	Items	Unit	Quantity	Rate	Amount	Remarks
10	Supplying, fitting & fixing of LED RETROFIT LAMPS surface or wall mounted with all necessary accessories.					SOR No 65
	(b) Regal batten for LED tube (Universal batten for T5 & T8 lamps)					
	(i) 8 upto 1x22 w	each	9	₹ 512.00	₹ 4,608.00	
11	Supplying, fitting & fixing of LED PANEL LIGHTING surface or wall mounted with all necessary accessories.					SOR No 66
	(a) 2x2 (595x595x65)mm LED luminair.					
	(ii) 24 W	each	10	₹ 989.00	₹ 9,890.00	
12	Supplying, fitting and fixing with G.I pipe of 200cm lay 40" dia. Including all accessories & providing masonry enclosure with cover plate having locking arrangement etc with charcoal salt complete as required.					SOR No 142
	(a) G.I Pipe electrode.	each	1	₹ 5,601.00	₹ 5,601.00	
13	Supplying amd laying of 15mmx5mm G.I/Copper Strip at 0.50mts, below ground.					SOR No 155
	(d) With 25mmx5mm G.I strip	per mtr	30	₹ 144.00	₹ 4,320.00	
				Total	***₹ 1,11,452.00***	
				Say	***₹ 1,11,500.00***	

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NAME OF WORK: PROPOSED COMMUNITY HALL CONCEPT AT GARO HILLS

Rate as per the Meghalaya P.W.D (Building) S.O.R for 2021-2022

9.0 PLUMBING ESTIMATE FOR COMMUNITY HALL CONCEPT AT GARO HILLS

GENERAL ABSTRACT

SL.No.	DESCRIPTION	AMOUNT	REMARKS
1	Sanitary Fittings	Rs. 25,240.00	As per detail Estimate
2	Internal Water Supply Pipeline	Rs. 35,154.00	
3	Polyethylene Water Tank (Sintex)	Rs. 10,000.00	
	TOTAL=	**Rs. 70,394.00**	
	OR SAY=	**Rs. 70,400.00**	

(Rupees Seventy Thousand and Four Hundred) Only.

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NAME OF WORK: PROPOSED COMMUNITY HALL CONCEPT AT GARO HILLS

9.1 SANITARY FITTINGS

Rate as per the Meghalaya P.W.D (Building) S.O.R for 2021-2022

Sl.No	Items of work	Unit	Qnty	Rate	Amount
1/20.7(a)	Providing and fixing wash basin with C.I. brackets, 15 mm C.P. brass pillar taps, 32 mm C.P. brass waste of standard pattern. including painting of fittings and brackcts, cutting and making good the walls wherever require: **White Vitreous China Wash basin size 630x450 mm with a pair of 15 mm C.P. brass pillar taps**	Each	2	₹ 2,880.00	₹ 5,760.00
3/20.72	Providing and fixing PTMT Waste Coupling for wash basin and sink, Of approved quality and colour.	Each	2	₹ 116.00	₹ 232.00
4/21.50(a)	Providing and fixing C.P. brass stop cock (concealed) Of standard design and Of approved make conforming to Is:893 **(a)115 mm nominal bore**	Each	4	₹ 997.00	₹ 3,988.00
5/21.56(a)	Providing and fixing PTMT pillar cock of approved quality and colour **15 mm nominal bore, 107 mm long, weighing not less than 110 gins**	Each	2	₹ 335.00	₹ 670.00
6/21.63	Providing and fixing PTMT soap Dish Holder having length of 138 mm, breadth 102 mm, height of 75 mm with concealed fitting arrangements, weighing not less than 106 gins	Each	2	₹ 251.00	₹ 502.00
9/20.1(a)	Providing and fixing water closet squatting pan (Indian type W.C. pan) with 100 mm sand Cast Iron P or S trap, 10 litre low level white P.V.C. flushing cistern, including flush pipe, with manually controlled device (handle lever) conforming to Is:7231, with all fngs and fixtures complete. including cutting and making good the walls and floors wherever required: **(a)White Vitreous china Orissa pattern W.C, pan of size 580x440 mm with integral type foot rests**	Each	2	₹ 5,021.00	₹ 10,042.00

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Sl.No	Items of work	Unit	Qnty	Rate	Amount
11/20.38	Providing and fixing Toilet paper holder: C.P brass.	Each	2	₹ 523.00	₹ 1,046.00
12/20.21(a)	Supplying, fitting and fixing PVC flushing cistern with manually controlled device (hand lever) conforming to IS:7231, with all fittings and fixture complete. **(a) 10 Litre capacity-white**	Each	2	₹ 921.00	₹ 1,842.00
14/21.58(a)(i)	Providing and fixing PTMT grating of approved quality and colour. **(i)100 mm nominal diameter**	Total=	2	₹ 79.00	₹ 158.00
15	Multi floor trap	Total=	2	₹ 500.00	₹ 1,000.00
				Grand Total=	**₹ 25,240.00**

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NAME OF WORK: PROPOSED COMMUNITY HALL CONCEPT AT GARO HILLS

9.2 INTERNAL WATER SUPPLY PIPELINE

Rate as per the Meghalaya P.W.D (Building) S.O.R for 2021-2022

Sl.No	Items of work	Unit	Quantity	Rate	Amount
1/34.36 (SOR 2015-16)	Supplying, fitting and fixing PVC pipes/ bends/ Junctions etc. of Supreme/Prince or other ISI approved make, including joining ,fitting and fixing with clamps etc. as necessary complete at all levels including below G.L as directed and specified.				
34.36.1 (SOR 2015-16)	**PVC pipes of 6 Kg/cm2 as directed and specified. (b)110mm dia. (Soil pipe)**	Rm	17	₹ 575.00	₹ 9,775.00
	(d) 75mm dia (Waste pipe)	Rm	19	₹ 433.00	₹ 8,227.00
2/34.36.2 (SOR 2015-16)	87.5 degree PVC bend as directed and specified				
(b)	**110mm dia**	Each	3	₹ 384.00	₹ 1,152.00
(d)	**75 mm dia.**	Each	6	₹ 328.00	₹ 1,968.00
3/34.36.3(a) (SOR 2015-16)	87.5 degree PVC bend with door as directed and specified.				
(ii)	**110mm dia**	Each	1	₹ 466.00	₹ 466.00
4/34.36.4(a) (SOR 2015-16)	45degree PVC bend as directed and specified. (a) In exposed surfaces or in trenches.				
(ii)	**110mm dia**	Each	2	₹ 384.00	₹ 768.00
(iv)	**75 mm dia.**	Each	2	₹ 328.00	₹ 656.00
5/34.36.7(a) (SOR 2015-16)	PVC single 'Y' as directed and specified. (a) In exposed surfaces or in trenches.				
(ii)	**110 mm dia.**	Each	2	₹ 537.00	₹ 1,074.00
(iv)	**75 mm dia.**	Each	2	₹ 477.00	₹ 954.00

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Sl.No	Items of work	Unit	Quantity	Rate	Amount
6/34.36.14(a) (SOR 2015-16)	PVC reducer as directed and specified.				
(viii)	**75mm x 63mm**	Each	1	₹ 211.00	₹ 211.00
6/21.8	Providing and fixing chlorinated polyvjnyl chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, including fixing the pipe with clamps at 1.00 in spacing. This includes jointing Of pipes & fittings with one step CPVC solvent cement and testing of joints complete as per direction of Engineer in Charge				
(iv)	**32 mm nominal outer diameter pipes**	Rm	8	₹ 583.00	₹ 4,664.00
(iii)	**25 mm nominal outer diameter pipes**	Rm	13	₹ 403.00	₹ 5,239.00
				Grand Total=	**₹ 35,154.00**

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NAME OF WORK: PROPOSED COMMUNITY HALL CONCEPT AT GARO HILLS

9.3 POLYETHYLENE WATER TANK (SINTEX)

Rate as per the Meghalaya P.W.D (Building) S.O.R for 2021-2022

Sl.No	Items of work	Unit	Quantity	Rate	Amount
1/21.46	Providing and placing on terrace (at all floor levels) polyethylene water storage tank, Is:12701 marked, with cover and suitable locking arrangement and making necessary holes for inlet, outlet and overflow pipes but without fittings and the base support for tank.				
	500 litre capacity	Each	2	(@ Rs.10/Litre)	₹ 10,000.00
				Grand Total=	**₹ 10,000.00**

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6.0 GENERAL ABSTRACT

NAME OF WORK: PROPOSED ESTIMATE FOR COMMUNITY HALL AT KHASI & JAINTIA HILLS

Rate as per the Meghalaya P.W.D (Building) S.O.R for 2021-2022

GENERAL ABSTRACT

SL.No.	DESCRIPTION	AMOUNT		REMARKS
1	Costl of material for Civil works	Rs.	14,39,318.41	
2	Cost of Labour	Rs.	6,45,040.79	
	TOTAL =	**Rs.**	**20,84,359.20**	**(A)**
3	Internal electrification and fittings	Rs.	1,02,532.00	As per detail Estimate
4	Water supply and sanitary fitting	Rs.	75,500.00	As per detail Estimate
4.1	Septic Tank (20user)	Rs.	91,081.00	As per plinth area rates
	TOTAL =	**Rs.**	**23,53,472.20**	**(B)**
5	Add 2.0% Contingencies	Rs.	47,069.44	Taking 2.0% from (B)
	GRAND TOTAL	**Rs.**	**24,00,541.64**	
	Or, Say =	**Rs.**	**24,00,000.00**	

(Rupees Twenty-Four lakhs Only.)

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7.0 ESTIMATE OF PROJECT

NAME OF WORK: PROPOSED COMMUNITY HALL CONCEPT AT KHASI & JAINTIA HILLS

Rate as per the Meghalaya P.W.D (Building) S.O.R for 2021-2022

ABSTRACT OF COST

Sl. No	Particulars of Work	Qnty	Unit	Rate	Amount
1/2.1 (a)	Earthwork in excavation by manual means up to a depth of 2m below the existing ground level for foundation trenches of foundations, footings of column/ walls, retaining walls, septic tank etc. including bailing out water where necessary and removal of surplus earth with all lead and lifts as directed and specified for the following classification of soils.	49.64	cum	₹ 213.00	₹ 10,573.32
2/12.5 (b.i)	Providing soling with stone/best quality picked jhama brick, sand packed and laid to level and in panel after preparing the subgrade as directed including all labour and materials and if necessary dewatering, complete.	108.02	sqm	₹ 415.00	₹ 44,828.30
3/5.1 (b)	Plain cement concrete works in foundation bed for footing steps, walls, brick works etc below plinth level as directed and specified including dewatering if necessary, and curing complete (shuttering where necessary shall be measured and paid separately).	1.69	cum	₹ 7,601.00	₹ 12,845.69
4/6.11 (b)	Supplying, fitting and fixing in position reinforcement bars up to 1st floor level, conforming to relevant I.S. Code for R.C.C. work/RB walling including straightening, cleaning, cutting and bending to proper shapes and length as per details, supplying and binding with 20G annealed black wire and placing in position with proper blocks, supports, chairs, spacers etc. complete. (Rates inclusive of all wastage, lappage, hooks, chairs, anchorage etc. and no measurement for the same is required)	40.19	qntl	₹ 10,936.00	₹ 4,39,517.84
5/4.0	Centering and shuttering including strutting, propping etc. and removal of form for all heights complete and as directed by Engineer in charge.				
4.1	Water supply & sanitary fittings	40.00	sqm	₹ 251.00	₹ 10,040.00
4.16	Lintels, beams, plinth beams, girders, bressumers and cantilevers with water proof ply 12 mm thick	102.04	sqm	₹ 595.00	₹ 60,713.80
4.5	Columns, Pillars, Piers, Abutments, Posts and struts (using steel).	42.00	sqm	₹ 609.00	₹ 25,578.00
4.3	Slabs, roofs, landings, balconies and access platform, shelves (using steel)	25.08	sqm	₹ 581.00	₹ 14,571.48
4.14	Weather shade. Chajjas, corbels etc., including edges (using timber)	7.20	sqm	₹ 705.00	₹ 5,076.00
6/6.1 (b)	Providing and laying in position specified grade of reinforced cement concrete, excluding the cost of centering, shuttering, finishing and reinforcement. All work up to plinth level: (b) M20 or 1:11/2:3 (1 cement: 1.5 coarse sand: 3 graded stone aggregate 20 mm nominal size)	12.30	cum	₹ 9,336.00	₹ 1,14,832.80
7/6.2 (b)	Reinforced cement concrete work in walls (any thickness), including attached pilasters, buttresses, fillets, columns, pillars, posts and struts etc. above plinth level up to first floor level, excluding cost of centering, shuttering, finishing and reinforcement:	3.68	cum	₹ 9,923.00	₹ 36,516.64

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Sl. No	Particulars of Work	Qnty	Unit	Rate	Amount
8/6.3 (b)	Reinforced cement concrete work in beams, slabs, roofs having slope up to 15°, landings, balconies, shelves, chajjas, lintels, bands, plain window sills, staircases and spiral staircases above plinth level up to first floor level, excluding the cost of centering, shuttering, finishing and reinforcement (b) M20	17.77	cum	₹ 10,335.00	₹ 1,83,652.95
9/8.1	Random rubble masonry with hard stone in foundation and plinth including levelling up with cement concrete 1:6:12 (1 cement: 6 coarse sand: 12 graded stone aggregate 20 mm nominal size) up to plinth level with:	20.76	cum	₹ 6,098.00	₹ 1,26,594.48
10/2.6 (a)	Earthwork in filling (excluding rock) in trenches, plinth, sides of foundation etc in layers not exceeding 20cm thick including breaking of clods, consolidating each layer by ramming and watering, lead up to 50m and lift up to 1.5m.	34.91	cum	₹ 141.00	₹ 4,922.31
11/12.12	50 mm thick cement concrete flooring with concrete hardener topping, under layer 38 mm thick cement concrete 1:3:6 (1 cement: 3 coarse sand: 6 graded stone aggregate 20 mm nominal size) and top layer 12 mm thick cement hardener consisting of mix 1 :2 (1 cement hardener mix: 2 graded stone aggregate 6 mm nominal size) by volume, hardening compound mixed @ 2 litre per 50 kg of cement or as per manufacturer's specifications. This includes cost of cement slurry, complete.	91.12	sqm	₹ 548.00	₹ 49,933.76
12/12.4	Making plinth protection 50mm thick of cement concrete 1:3:6 (1cement: 3coarse sand: 6 graded stone aggregate 20 mm nominal size) over 75mm thick bed of dry brick ballast 40 mm nominal size, well rammed and consolidated and grouted with fine sand, including necessary excavation, levelling & dressing & finishing the top smooth.	10.77	sqm	₹ 673.00	₹ 7,248.21
13/13 (a) PAR 2021-2022	Providing Open Drain of Size (150x150mm)	23.93	Rm	₹ 853.00	₹ 20,412.29
14/7.10	Half brick masonry with common burnt clay (non modular) 1st class bricks in superstructure above plinth level up to first floor level (b) Cement mortar 1 :4 (1 cement: 4 coarse sand)	98.54	sqm	₹ 1,212.00	₹ 1,19,430.48
15/10.1 (c.i)	Providing wood work in frames of doors, windows, clerestory windows and other frames, wrought trained and fixed in position with hold fast lugs or with dash fasteners of required diameter & length.	0.57	cum	₹ 85,348.00	₹ 48,648.36
16/10.21 (b)/10.24	Providing and fixing ISI marked flush door shutters conforming to IS:2202 (Part I) decorative type, core of block board construction with frame of 1st class hard wood and well matched teak 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters.(b) 30 mm thick including Isl marked Stainless Steel butt hinges with necessary screws	16.56	sqm	₹ 3,045.00	₹ 50,425.20
17/10.11 (c.I.ii)	Providing and fixing glazed shutters for doors, windows and clerestory windows using 4 mm thick float glass panes, including ISI marked M.S. pressed butt hinges bright finished of required size with necessary screws. (c) With 1st class Local wood (i) Pooma/ Hollock/ Gamariand the like) (ii) 30 mm thick	0.84	sqm	₹ 2,837.00	₹ 2,383.08

Sl. No	Particulars of Work	Qnty	Unit	Rate	Amount
18/11.22	Providing, fitting and fixing steel windows (including ventilators) of standard rolled steel sections as per relevant I.S. Code, joints mitred and welded with 15x3x100 mm lugs embedded in cement concrete block of M-10 grade including providing and fixing of projecting hinges (not more than 65 mm and not less than 15 mm wide) bolting device, steel handles, pegs, stays of 300 mm long etc. complete including providing 12x12 mm square bars duly welded to steel frame at not more than 12 cm c/c applying a priming coat of red-lead 1 1 .24 paint etc. complete as per drawing.	22.37	sqm	₹ 3,941.00	₹ 88,160.17
19/15.2 (a)	15 mm cement plaster on the rough side of single or half brick wall of mix: (a) 1 :4 (1 cement: 4 fine sand)	321.36	sqm	₹ 277.00	₹ 89,016.72
20/11.14	Steel work in built up tubular (round, square or rectangular hollow tubes etc.) trusses etc including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer, including welding and bolted with special shaped washers etc. complete.	1151.00	Kg	₹ 263.00	₹ 3,02,713.00
21/13.21	Providing and fixing pre-coated galvanised iron profile sheets (size, shape and pitch of corrugation as approved by Engineer-in-charge) 0.50 mm(+0.05 %) total coated thickness with zinc coating 120 grams per sqm as per IS:277, in 240 MPa steel grade, 5-7 microns epoxy primer on both side Of the sheet and polyester top coat 15-18 microns. Sheet should have protective guard film of 25 microns minimum to avoid scratches during transportation and should be supplied in single length up to 12 meter or as desired by Engineer-in charge. The sheet shall be fixed using self-drilling/self-tapping screws of size (5.5x55 mm) with EPDM seal, complete up to any pitch in horizontal/vertical or curved surfaces, excluding the cost of purlins. rafters and trusses and including cutting to size and shape wherever required.	90.66	sqm	₹ 711.00	₹ 64,459.26
22/13.22	Providing and fixing pre-coated galvanised steel sheet roofing accessories 0.50 mm (+0.05 %) total coated thickness, Zinc coating 120 grams per sqm as per IS:277, in 240 MPa Steel grade, 5-7microns epoxy primer on both side of the sheet and polyester top coat 15-18 microns using self-drilling/ self-tapping screws complete:				
(f)	Gutter (600 mm over all girth)	13.80	Rm	₹ 963.00	₹ 13,289.40
23/16.11	Applying one coat of water thinnable cement primer of approved brand and manufacture on surfaces:	321.36	sqm	₹ 56.00	₹ 17,996.16
24/16.19	Wall painting with acrylic emulsion pain of approved brand and manufacture to give an even shade:	321.36	sqm	₹ 105.00	₹ 33,742.80
25/16.12	Applying priming coat:				
(a)	With ready mixed pink or Grey primer of approved brand and manufacture on wood work (hard and soft wood)/ with ready mixed aluminium primer of approved brand and manufacture on resinous wood and plywood	45.23	sqm	₹ 54.00	₹ 2,442.26
(b)	With ready mixed red oxide zinc chromate primer of approved brand and manufacture on steel galvanised iron/ steel works	105.65	sqm	₹ 44.00	₹ 4,648.51
26/16.36 (a)	Painting with synthetic enamel paint of approved brand and manufacture of required colour to give an even shade	150.87	sqm	₹ 155.00	₹ 23,385.61

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Sl. No	Particulars of Work	Qnty	Unit	Rate	Amount
27/12.41 (b)	Providing and laying vitrified floor tiles in different sizes (thickness to be specified by the manufacturer) with water absorption less than 0.08% and conforming to IS:15622, of approved make, in all colours and shades laid on 20 mm thick cement mortar 1:4 (1 cement: 4 coarse sand), jointing with grey cement slurry @ 3.3 kg/sqm including grouting the joints with white cement and matching pigments etc., complete. (b) Size of Tille 600x600 mm	5.68	sqm	₹ 1,531.00	₹ 8,696.08
28/9.25 (a)	Providing and fixing ISI quality ceramic glazed wall tiles conforming to IS:15622 (thickness to be specified by the manufacturer), of approved make, in all colours and shades of any size as approved by Engineer-in-Charge, in walls, skirting, risers of steps and dados, over 12 mm thick bed of cement mortar 1 :3 (1 cement: 3 coarse sand) and jointing with grey cement slurry @ 3.3 kg per sqm, including pointing in white cement mixed with pigment of matching shade complete. (a) Normal range	28.44	sqm	₹ 1,325.00	₹ 37,683.00
29/27.20 (b)	Providing and fixing bright finished brass tower bolts (barrel type) with necessary screws etc. complete: (b) 200x10 mm	11.00	Each	₹ 299.00	₹ 3,289.00
30/27.27 (b)	Providing and fixing bright finished brass handles with screws etc. complete: (b)100 mm	22.00	Each	₹ 189.00	₹ 4,158.00
31/27.21 (b)	Providing and fixing bright finished brass door latch with necessary screws etc. complete: (b) 250x16x5 mm	8.00	Each	₹ 258.00	₹ 2,064.00
				TOTAL =	₹ 20,84,488.96

Er. A. Mawlong
Asstt. Engineer
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Architects : Engineers : Designers
Project Management & Turnkey Solutions

Ar. Jwatbor S. Cajee
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NAME OF WORK: PROPOSED COMMUNITY HALL CONCEPT AT KHASI & JAINTIA HILLS

Rate as per the Meghalaya P.W.D (Building) S.O.R for 2021-2022

DETAILED ESTIMATE

Sl.No	Particulars	Nos			Length	Breadth	Height	Qnty	unit	Rate	Amount
1/2.1 (a)	Earthwork in excavation by manual means up to a depth of 2m below the existing ground level for foundation trenches of foundations, footings of column/ walls, retaining walls, septic tank etc. including bailing out water where necessary and removal of surplus earth with all lead and lifts as directed and specified for the following classification of soils.										
	FOOTINGS										
	F1	1	1	10	1.30	1.30	2.20	37.18	cum		
	PLINTH BEAM										
	Water supply & sanitary fittings	1	1	3	2.50	0.40	0.60	1.80	cum		
		1	1	2	5.00	0.40	0.60	2.40	cum		
		1	1	2	5.20	0.40	0.60	2.50	cum		
		1	1	4	3.00	0.40	0.60	2.88	cum		
	PB1	1	1	2	6.00	0.40	0.60	2.88	cum		
							Total	**49.64**	**cum**	**₹ 213.00**	**₹ 10,572.47**
2/12.5 (b.i)	Providing soling with stone/best quality picked jhama brick, sand packed and laid to level and in panel after preparing the subgrade as directed including all labour and materials and if necessary dewatering, complete.										
	Isolated Footings										
	F1	1	1	10	1.30	1.30	-	16.90	sqm		
	Flooring	1	1	1	12.70	6.00	-	76.20	sqm		
	Ramp: Sides	1	1	2	2.70	1.10	-	5.94	sqm		
	Ramp: Front	1	1	1	2.00	1.00	-	2.00	sqm		
		1	1	1	0.80	1.10	-	0.88	sqm		
	Verandah Steps	1	1	1	2.70	1.10	-	2.97	sqm		
	Side Steps	1	1	2	1.50	0.75	-	2.25	sqm		
	Back Steps	1	1	1	1.33	0.66	-	0.88	sqm		
							Total	**108.02**	**sqm**	**₹ 415.00**	**₹ 44,827.67**
3/5.1 (b)	Plain cement concrete works in foundation bed for footing steps, walls, brick works etc below plinth level as directed and specified including dewatering if necessary, and curing complete (shuttering where necessary shall be measured and paid separately).										
	Isolated Footings										
	F1	1	1	10	1.30	1.30	0.10	1.69	cum		
							Total	1.69	cum	**₹ 7,601.00**	**₹ 12,845.69**

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Sl.No	Particulars	Nos			Nos of bars	Length	Unit weight	Qnty	unit	Rate	Amount
4/6.11 (b)	Supplying, fitting and fixing in position reinforcement bars up to 1st floor level, conforming to relevant I.S. Code for R.C.C. work/RB walling including straightening, cleaning, cutting and bending to proper shapes and length as per details, supplying and binding with 20G annealed black wire and placing in position with proper blocks, supports, chairs, spacers etc. complete. (Rates inclusive of all wastage, lappage, hooks, chairs, anchorage etc. and no measurement for the same is required)										
	FOOTINGS										
	F1										
	10mmΦ :	1	10	1	10	1.20	0.620	71.42	kg		
		1	10	1	10	1.20	0.620	71.42	kg		
	COLUMNS										
	20mmΦ :	1	1	10	4	6.15	2.470	607.62	kg		
	16mmΦ :	1	1	10	4	6.15	1.580	388.68	kg		
	8mmΦ :	1	1	10	56	1.40	0.395	306.92	kg		
		1	1	10	56	1.00	0.395	219.23	kg		
	PLINTH BEAM										
	PB: L = 2.50m										
	16mmΦ :	1	1	3	4	2.50	1.580	47.40	kg		
	12mmΦ :	1	1	3	2	2.50	0.890	13.35	kg		
	8mmΦ :	1	1	3	20	1.20	0.395	28.77	kg		
	PB: L = 5.00m										
	16mmΦ :	1	1	2	4	5.00	1.580	63.20	kg		
	12mmΦ :	1	1	2	2	5.00	0.890	17.80	kg		
	8mmΦ :	1	1	2	39	1.20	0.395	37.41	kg		
	PB: L = 5.20m										
	16mmΦ :	1	1	2	4	5.20	1.580	65.73	kg		
	12mmΦ :	1	1	2	2	5.20	0.890	18.51	kg		
	8mmΦ :	1	1	2	41	1.20	0.395	38.87	kg		
	PB: L = 3.00m										
	16mmΦ :	1	1	4	4	3.00	1.580	75.84	kg		
	12mmΦ :	1	1	4	2	3.00	0.890	21.36	kg		
	8mmΦ :	1	1	4	24	1.20	0.395	45.65	kg		
	PB1: L = 6.00m										
	16mmΦ :	1	1	2	6	6.00	1.580	113.76	kg		
	8mmΦ :	1	1	2	47	1.40	0.395	52.15	kg		

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Sl.No	Particulars	Nos			Nos of bars	Length	Unit weight	Qnty	unit	Rate	Amount
	BEAM										
	B: L =2.50m										
	16mmΦ :	1	1	3	4	3.10	1.580	58.78	kg		
		1	1	3	4	1.03	1.580	19.59	kg		
		1	1	3	2	1.03	1.580	9.80	kg		
	8mmΦ :	1	1	3	26	1.20	0.395	36.97	kg		
	B: L =3.00m										
	16mmΦ :	1	1	4	4	3.60	1.580	91.01	kg		
		1	1	4	4	1.20	1.580	30.34	kg		
		1	1	4	2	1.20	1.580	15.17	kg		
	8mmΦ :	1	1	4	31	1.20	0.395	58.78	kg		
	B1: L =5.00m										
	20mmΦ :	1	1	2	4	5.70	2.470	112.63	kg		
		1	1	2	4	1.90	2.470	37.54	kg		
		1	1	2	2	1.90	2.470	18.77	kg		
	8mmΦ :	1	1	2	51	1.30	0.395	52.38	kg		
	B1: L =5.20m										
	20mmΦ :	1	1	2	4	5.90	2.470	116.58	kg		
		1	1	2	4	1.97	2.470	38.86	kg		
		1	1	2	2	1.97	2.470	19.43	kg		
	8mmΦ :	1	1	2	53	1.30	0.395	54.43	kg		
	B1: L =6.00m										
	20mmΦ :	1	1	2	4	6.70	2.470	132.39	kg		
		1	1	2	4	2.23	2.470	44.13	kg		
		1	1	2	2	2.23	2.470	22.07	kg		
	8mmΦ :	1	1	2	61	1.30	0.395	62.65	kg		
	SLAB										
	10mmΦ :	1	2	1	39	3.30	0.617	158.82	kg		
		1	2	2	20	0.83	0.617	39.70	kg		
		1	2	1	34	3.80	0.617	159.43	kg		
		1	2	2	17	0.95	0.617	39.86	kg		
	LINTEL										
	10mmΦ :	1	1	2	4	12.70	0.617	62.69	kg		
		1	1	3	4	6.00	0.617	44.42	kg		
	6mmΦ :	1	1	2	85	0.55	0.220	20.49	kg		

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Sl.No	Particulars	Nos			Nos of bars	Length	Unit weight	Qnty	unit	Rate	Amount
		1	1	3	40	0.55	0.220	14.52	kg		
	SILL										
	10mmΦ :	1	1	2	2	12.70	0.617	31.34	kg		
		1	1	3	2	6.00	0.617	22.21	kg		
	6mmΦ :	1	1	2	85	0.45	0.220	16.76	kg		
		1	1	3	40	0.45	0.220	11.88	kg		
	CHAJJAS										
	10mmΦ :	1	1	4	5	1.65	0.617	20.36	kg		
		1	1	4	11	0.75	0.617	20.36	kg		
	10mmΦ :	1	1	2	5	1.50	0.617	9.26	kg		
		1	1	2	10	0.75	0.617	9.26	kg		
							Total	**4018.74**	**kg**		
							or =	**40.19**	**qntl**	**₹ 10,936.00**	**₹ 4,39,489.36**

5/4.0	Centering and shuttering including strutting, propping etc. and removal of form for all heights complete and as directed by Engineer in charge.
4.1	Foundations, footings, bases of columns, etc. for mass concrete (using steel).

Sl.No	Particulars	Nos			Length	Breadth	Height	Qnty	unit	Rate	Amount
	FOOTINGS										
	F1	1	1	10	4.80	-	0.25	12.00	sqm		
	BASES OF COLUMNS										
		1	1	10	1.40	-	2.00	28.00	sqm		
							Total	**40.00**	**sqm**	**₹ 251.00**	**₹ 10,040.00**

4.16	Lintels, beams, plinth beams, girders, bressumers and cantilevers with water proof ply 12 mm thick

	PLINTH BEAM										
	PB	1	1	3	2.50	-	0.70	5.25	sqm		
		1	1	2	5.00	-	0.70	7.00	sqm		
		1	1	2	5.20	-	0.70	7.28	sqm		
		1	1	4	3.00	-	0.70	8.40	sqm		
	PB1	1	1	2	6.00	-	0.80	9.60	sqm		
	BEAM										
	B	1	1	3	2.50	-	0.70	5.25	sqm		
		1	1	4	3.00	-	0.70	8.40	sqm		
	B1	1	1	2	5.00	-	0.90	9.00	sqm		

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Sl.No	Particulars	Nos			Length	Breadth	Height	Qnty	unit	Rate	Amount
		1	1	2	5.20	-	0.90	9.36	sqm		
		1	1	2	6.00	-	0.90	10.80	sqm		
	LINTEL										
		1	1	2	12.70	-	0.30	7.62	sqm		
		1	1	3	6.00	-	0.30	5.40	sqm		
	SILL										
		1	1	2	12.70	-	0.20	5.08	sqm		
		1	1	3	6.00	-	0.20	3.60	sqm		
							Total	**102.04**	**sqm**	**₹ 595.00**	**₹ 60,713.80**
4.5	Columns, Pillars, Piers, Abutments, Posts and struts (using steel).										
	COLUMNS										
		1	1	10	1.40	-	3.00	42.00	sqm		
							Total	**42.00**	**sqm**	**₹ 609.00**	**₹ 25,578.00**
4.3	Slabs, roofs, landings, balconies and access platform, shelves (using steel)										
	SLAB										
		1	1	2	3.30	3.80	-	25.08	sqm		
							Total	**25.08**	**sqm**	**₹ 581.00**	**₹ 14,571.48**
4.14	Weather shade. Chajjas, corbels etc., including edges (using timber)										
	CHAJJAS										
		1	1	4	1.65	0.75	-	4.95	sqm		
		1	1	2	1.50	0.75	-	2.25	sqm		
							Total	**7.20**	**sqm**	**₹ 705.00**	**₹ 5,076.00**
6/6.1 (b)	Providing and laying in position specified grade of reinforced cement concrete, excluding the cost of centering, shuttering, finishing and reinforcement. All work up to plinth level: ***(b) M20 or 1:11/2:3 (1 cement: 1.5 coarse sand: 3 graded stone aggregate 20 mm nominal size)***										
	FOOTINGS										
	F1	1	1	10	1.20	1.20	0.25	3.60	cum		
		1	10	0.07	1.44	0.12	0.42	1.32	cum		
	BASES OF COLUMNS										
		1	1	10	0.35	0.35	2.00	2.45	cum		

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Sl.No	Particulars	Nos			Length	Breadth	Height	Qnty	unit	Rate	Amount
	PLINTH BEAM										
	PB	1	1	3	2.50	0.25	0.35	0.66	cum		
		1	1	2	5.00	0.25	0.35	0.88	cum		
		1	1	2	5.20	0.25	0.35	0.91	cum		
		1	1	4	3.00	0.25	0.35	1.05	cum		
	PB1	1	1	2	6.00	0.30	0.40	1.44	cum		
							Total	**12.30**	**cum**	**₹ 9,336.00**	**₹ 1,14,860.03**
7/6.2 (b)	Reinforced cement concrete work in walls (any thickness), including attached pilasters, buttresses, fillets, columns, pillars, posts and struts etc. above plinth level up to first floor level, excluding cost of centering, shuttering, finishing and reinforcement:										
Sl.No	**Particulars**	**Nos**			**Length**	**Breadth**	**Height**	**Qnty**	**unit**	**Rate**	**Amount**
	COLUMNS										
		1	1	10	0.35	0.35	3.00	3.68	cum		
							Total	**3.68**	**cum**	**₹ 9,923.00**	**₹ 36,467.03**
8/6.3 (b)	Reinforced cement concrete work in beams, slabs, roofs having slope up to 15°, landings, balconies, shelves, chajjas, lintels, bands, plain window sills, staircases and spiral staircases above plinth level up to first floor level, excluding the cost of centering, shuttering, finishing and reinforcement ***(b) M20***										
	BEAM										
	B	1	1	3	2.50	0.25	0.35	0.66	cum		
		1	1	4	3.00	0.25	0.35	1.05	cum		
	B1	1	1	2	5.00	0.30	0.45	1.35	cum		
		1	1	2	5.20	0.30	0.45	1.40	cum		
		1	1	2	6.00	0.30	0.45	1.62	cum		
	SLAB										
		1	1	2	3.30	3.80	0.13	3.14	cum		
	LINTEL										
		1	1	2	12.70	0.13	0.15	0.48	cum		
		1	1	3	6.00	0.13	0.15	0.34	cum		
	SILL										
		1	1	2	12.70	0.13	0.10	0.32	cum		
		1	1	3	6.00	0.13	0.30	0.23	cum		

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Sl.No	Particulars	Nos			Length	Breadth	Height	Qnty	unit	Rate	Amount
	CHAJJAS										
		1	1	4	1.65	0.75	0.10	4.95	cum		
Sl.No	**Particulars**	**Nos**			**Length**	**Breadth**	**Height**	**Qnty**	**unit**	**Rate**	**Amount**
		1	1	2	1.50	0.75	0.10	2.25	cum		
							Total	**17.77**	**cum**	**₹ 10,335.00**	**₹ 1,83,668.45**
9/8.1	Random rubble masonry with hard stone in foundation and plinth including levelling up with cement concrete 1:6:12 (1 cement: 6 coarse sand: 12 graded stone aggregate 20 mm nominal size) up to plinth level with:										
	PLINTH BEAM										
	PB	1	1	3	2.50	0.40	1.00	3.00	cum		
		1	1	2	5.00	0.40	1.00	4.00	cum		
		1	1	2	5.20	0.40	1.00	4.16	cum		
		1	1	4	3.00	0.40	1.00	4.80	cum		
	PB1	1	1	2	6.00	0.40	1.00	4.80	cum		
							Total	**20.76**	**cum**	**₹ 6,098.00**	**₹ 1,26,594.48**
10/2.6 (a)	Earthwork in filling (excluding rock) in trenches, plinth, sides of foundation etc in layers not exceeding 20cm thick including breaking of clods, consolidating each layer by ramming and watering, lead up to 50m and lift up to 1.5m.										
	Foundation	-	-	-	-	-	-	13.19	cum		
	Flooring	1	1	1	12.70	6.00	0.29	21.72	cum		
							Total	**34.91**	**cum**	**₹ 141.00**	**₹ 4,922.32**
11/12.12	50 mm thick cement concrete flooring with concrete hardener topping, under layer 38 mm thick cement concrete 1:3:6 (1 cement: 3 coarse sand: 6 graded stone aggregate 20 mm nominal size) and top layer 12 mm thick cement hardener consisting of mix 1 :2 (1 cement hardener mix: 2 graded stone aggregate 6 mm nominal size) by volume, hardening compound mixed @ 2 litre per 50 kg of cement or as per manufacturer's specifications. This includes cost of cement slurry, complete.										
	Flooring	1	1	1	12.70	6.00	-	76.20	sqm		
	Ramp:Sides	1	1	2	2.70	1.10	-	5.94	sqm		
	Ramp:Front	1	1	1	2.00	1.00	-	2.00	sqm		
		1	1	1	0.80	1.10	-	0.88	sqm		
	Verandah Steps	1	1	1	2.70	1.10	-	2.97	sqm		
	Side Steps	1	1	2	1.50	0.75	-	2.25	sqm		
	Back Steps	1	1	1	1.33	0.66	-	0.88	sqm		
							Total	**91.12**	**sqm**	**₹ 548.00**	**₹ 49,932.92**

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Sl.No	Particulars	Nos			Length	Breadth	Height	Qnty	unit	Rate	Amount
12/12.4	Making plinth protection 50mm thick of cement concrete 1:3:6 (1cement: 3coarse sand: 6 graded stone aggregate 20 mm nominal size) over 75mm thick bed of dry brick ballast 40 mm nominal size, well rammed and consolidated and grouted with fine sand, including necessary excavation, levelling & dressing & finishing the top smooth.										
		1	1	2	8.80	0.45	-	7.92	sqm		
		1	1	1	1.65	0.45	-	0.74	sqm		
		1	1	1	4.68	0.45	-	2.10	sqm		
							Total	**10.77**	**sqm**	**₹ 673.00**	**₹ 7,245.69**
Sl.No	**Particulars**	**Nos**			**Length**	**Breadth**	**Height**	**Qnty**	**unit**	**Rate**	**Amount**
13/13 (a) PAR 2021-2022	Providing Open Drain of Size (150x150mm)										
		1	1	2	8.80	-	-	17.60	Rm		
		1	1	1	1.65	-	-	1.65	Rm		
		1	1	1	4.68	-	-	4.68	Rm		
							Total	**23.93**	**Rm**	**₹ 853.00**	**₹ 20,408.03**
14/7.10	Half brick masonry with common burnt clay (non modular) 1st class bricks in superstructure above plinth level up to first floor level ***(b) Cement mortar 1 :4 (1 cement: 4 coarse sand)***										
		1	1	2	12.7	-	3.00	76.20	sqm		
		1	1	3	6.00	-	3.00	54.00	sqm		
		1	1	2	1.35	-	3.00	8.10	sqm		
	DEDUCTION										
	Doors:										
	D1	1	1	1	1.20	-	2.55	-3.06	sqm		
	D2	1	1	2	1.20	-	2.15	-5.16	sqm		
	D3	1	1	1	0.90	-	2.55	-2.30	sqm		
	D4	1	1	4	0.80	-	2.15	-6.88	sqm		
	windows:										
	W1	1	1	4	1.65	-	1.80	-11.88	sqm		
	W2	1	1	6	0.75	-	1.80	-8.10	sqm		
	W3	1	1	1	0.75	-	1.80	-1.35	sqm		
	V1	1	1	2	1.30	-	0.40	-1.04	sqm		
							Total	**98.54**	**sqm**	**₹ 1,212.00**	**₹ 1,19,424.42**
15/10.1 (c.i)	Providing wood work in frames of doors, windows, clerestory windows and other frames, wrought trained and fixed in position with hold fast lugs or with dash fasteners of required diameter & length.										
	D1	1	1	1	7.50	0.125	0.10	0.09	cum		

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Sl.No	Particulars	Nos			Length	Breadth	Height	Qnty	unit	Rate	Amount
	D2	1	1	2	5.50	0.125	0.10	0.14	cum		
	D3	1	1	1	6.64	0.125	0.10	0.08	cum		
	D4	1	1	4	5.10	0.125	0.10	0.26	cum		
							Total	**0.57**	**cum**	**₹ 85,348.00**	**₹ 48,584.35**
16/10.21 (b)/10.24	Providing and fixing ISI marked flush door shutters conforming to IS:2202 (Part I) decorative type, core of block board construction with frame of 1st class hard wood and well matched teak 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters.***(b) 30 mm thick including Isl marked Stainless Steel butt hinges with necessary screws***										
	D1	1	1	1	1.20	-	2.15	2.58	sqm		
	D2	1	1	2	1.20	-	2.15	5.16	sqm		
	D3	1	1	1	0.90	-	2.15	1.94	sqm		
Sl.No	**Particulars**	**Nos**			**Length**	**Breadth**	**Height**	**Qnty**	**unit**	**Rate**	**Amount**
	D4	1	1	4	0.80	-	2.15	6.88	sqm		
							Total	**16.56**	**sqm**	**₹ 3,045.00**	**₹ 50,409.98**
17/10.11 (c.I.ii)	Providing and fixing glazed shutters for doors, windows and clerestory windows using 4 mm thick float glass panes, including ISI marked M.S. pressed butt hinges bright finished of required size with necessary screws. ***(c) With 1st class Local wood (I) Pooma/ Hollock/ Gamariand the like) (ii) 30 mm thick***										
	D1	1	1	1	1.20	-	0.40	0.48	sqm		
	D3	1	1	1	0.90	-	0.40	0.36	sqm		
							Total	**0.84**	**sqm**	**₹ 2,837.00**	**₹ 2,383.08**
18/11.22	Providing, fitting and fixing steel windows (including ventilators) of standard rolled steel sections as per relevant I.S. Code, joints mitred and welded with 15x3x100 mm lugs embedded in cement concrete block of M-10 grade including providing and fixing of projecting hinges (not more than 65 mm and not less than 15 mm wide) bolting device, steel handles, pegs, stays of 300 mm long etc. complete including providing 12x12 mm square bars duly welded to steel frame at not more than 12 cm c/c applying a priming coat of red-lead 1 1 .24 paint etc. complete as per drawing.										
	windows										
	W1	1	1	4	1.65	-	1.80	11.88	sqm		
	W2	1	1	6	0.75	-	1.80	8.10	sqm		
	W3	1	1	1	0.75	-	1.80	1.35	sqm		
	V1	1	1	2	1.30	-	0.40	1.04	sqm		
							Total	**22.37**	**sqm**	**₹ 3,941.00**	**₹ 88,160.17**
19/15.2 (a)	15 mm cement plaster on the rough side of single or half brick wall of mix: ***(a) 1 :4 (1 cement: 4 fine sand)***										
	COLUMNS										
		1	1	10	1.40	-	3.00	42.00	sqm		

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Sl.No	Particulars	Nos			Length	Breadth	Height	Qnty	unit	Rate	Amount
	BEAM										
	B	1	1	3	2.50	-	0.70	5.25	sqm		
		1	1	4	3.00	-	0.70	8.40	sqm		
	B1	1	1	2	5.00	-	0.90	9.00	sqm		
		1	1	2	5.20	-	0.90	9.36	sqm		
		1	1	2	6.00	-	0.90	10.80	sqm		
	SLAB										
		1	1	2	3.30	3.80	-	25.08	sqm		
	WALLING										
		1	1	1	2	-	98.54	197.07	sqm		
Sl.No	**Particulars**	**Nos**			**Length**	**Breadth**	**Height**	**Qnty**	**unit**	**Rate**	**Amount**
	CHAJJAS										
		2	1	4	1.65	0.75	-	9.90	sqm		
		2	1	2	1.50	0.75	-	4.50	sqm		
							Total	**321.36**	**sqm**	**₹ 277.00**	**₹ 89,016.72**
20/11.14	Steel work in built up tubular (round, square or rectangular hollow tubes etc.) trusses etc including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer, including welding and bolted with special shaped washers etc. complete.										
Sl. No	**Particulars**	**Nos.**			**Nos. of bars**	**Length**	**Unit Wt.**	**Qnty**	**Unit**	**Rate**	**Amount**
	ROOF										
	Rafter - 80x40x4 mm	1	1	1	5	14.30	6.710	479.77	Kg		
	Purlins - 49.5x49.5x4.5 mm	1	1	1	13	6.90	5.950	533.72	Kg		
	Verandah Cover										
	Member 1 49.5x49.5x4.5 mm	1	1	1	9	0.80	5.950	40.80	Kg		
	Member 3 49.5x49.5x4.5 mm	1	1	1	9	1.30	5.950	66.30	Kg		
	Member 2(Purlins) -25x25x2.6 mm	1	1	1	3	6.00	1.690	30.42	Kg		
							Total =	**1151.00**	**Kg**	**₹ 263.00**	**₹ 3,02,713.00**

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Sl. No	Particulars	Nos.			Nos. of bars	Length	Unit Wt.	Qnty	Unit	Rate	Amount
21/13.21	Providing and fixing pre-coated galvanised iron profile sheets (size, shape and pitch of corrugation as approved by Engineer-in-charge) 0.50 mm(+0.05 %) total coated thickness with zinc coating 120 grams per sqm as per IS:277, in 240 MPa steel grade, 5-7 microns epoxy primer on both side Of the sheet and polyester top coat 15-18 microns. Sheet should have protective guard film of 25 microns minimum to avoid scratches during transportation and should be supplied in single length up to 12 meter or as desired by Engineer-in charge. The sheet shall be fixed using self-drilling/self-tapping screws of size (5.5x55 mm) with EPDM seal, complete up to any pitch in horizontal/vertical or curved surfaces, excluding the cost of purlins. rafters and trusses and including cutting to size and shape wherever required.										
	ROOF	1	1	1	7.20	11.40	-	82.08	sqm		
	Verandah Cover	1	1	1	1.30	6.60	-	8.58	sqm		
							Total	**90.66**	**sqm**	**₹ 711.00**	**₹ 64,459.26**
22/13.22	Providing and fixing pre-coated galvanised steel sheet roofing accessories 0.50 mm (+0.05 %) total coated thickness, Zinc coating 120 grams per sqm as per IS:277, in 240 MPa Steel grade, 5-7microns epoxy primer on both side of the sheet and polyester top coat 15-18 microns using self-drilling/ self-tapping screws complete:										
(f)	***Gutter (600 mm over all girth)***										
Sl.No	**Particulars**	**Nos**			**Length**	**Breadth**	**Height**	**Qnty**	**unit**	**Rate**	**Amount**
	ROOF	1	1	1	7.20	-	-	7.20	Rm		
	Verandah Cover	1	1	1	6.60	-	-	6.60	Rm		
							Total	**13.80**	**Rm**	**₹ 963.00**	**₹ 13,289.40**
23/16.11	Applying one coat of water thinnable cement primer of approved brand and manufacture on surfaces:										
	same as qnty 19/15.2 (a)							**321.36**	**sqm**		
							Total	**321.36**	**sqm**	**₹ 56.00**	**₹ 17,996.16**
24/16.19	Wall painting with acrylic emulsion pain of approved brand and manufacture to give an even shade:										
	same as qnty 23/16.11						**Total**	**321.36**	**sqm**	**₹ 105.00**	**₹ 33,742.80**
25/16.12	Applying priming coat:										
(a)	With ready mixed pink or Grey primer of approved brand and manufacture on wood work (hard and soft wood)/ with ready mixed aluminium primer of approved brand and manufacture on resinous wood and plywood										
	Door	1	1	2.6		17.40	-	45.227	sqm		
							Total	**45.227**	**sqm**	**₹ 54.00**	**₹ 2,442.26**
(b)	With ready mixed red oxide zinc chromate primer of approved brand and manufacture on steel galvanised iron/ steel works										
	Windows	1	1	0.67		22.37	-	14.99	sqm		
	Truss	1	1	1		90.66	-	90.66	sqm		
							Total	**105.65**	**sqm**	**₹ 44.00**	**₹ 4,648.51**
26/16.36 (a)	Painting with synthetic enamel paint of approved brand and manufacture of required colour to give an even shade										
	Same qnty as 30/16.12						**Total**	**150.87**	**sqm**	**₹ 155.00**	**₹ 23,385.61**
27/12.41 (b)	Providing and laying vitrified floor tiles in different sizes (thickness to be specified by the manufacturer) with water absorption less than 0.08% and conforming to IS:15622, of approved make, in all colours and shades laid on 20 mm thick cement mortar 1:4 (1 cement: 4 coarse sand), jointing with grey cement slurry @ 3.3 kg/sqm including grouting the joints with white cement and matching pigments etc., complete. *(b)* ***Size of Tille 600x600 mm***										
	Toilet	1	1	2	2.84	1.35	-	5.68	sqm		
							Total	**5.68**	**sqm**	**₹ 1,531.00**	**₹ 8,696.08**

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Sl.No	Particulars	Nos			Length	Breadth	Height	Qnty	unit	Rate	Amount
28/9.25 (a)	Providing and fixing ISI quality ceramic glazed wall tiles conforming to IS:15622 (thickness to be specified by the manufacturer), of approved make, in all colours and shades of any size as approved by Engineer-in-Charge, in walls, skirting, risers of steps and dados, over 12 mm thick bed of cement mortar 1 :3 (1 cement: 3 coarse sand) and jointing with grey cement slurry @ 3.3 kg per sqm, including pointing in white cement mixed with pigment of matching shade complete. ***(a) Normal range***										
	Toilet	1	2	4	1.35	-	1.50	16.20	sqm		
		1	2	2	2.84	-	1.50	17.04	sqm		
	Deduction for doors	1	2	2	0.80	-	1.50	-4.80	sqm		
							Total	**28.44**	**sqm**	**₹ 1,325.00**	**₹ 37,683.00**
29/27.20 (b)	Providing and fixing bright finished brass tower bolts (barrel type) with necessary screws etc. complete: ***(b) 200x10 mm***										
	D1	1	1	2	-	-	-	2	Each		
	D2	1	2	2	-	-	-	4	Each		
	D3	1	1	1	-	-	-	1	Each		
	D4	1	4	1	-	-	-	4	Each		
							Total	**11**	**Each**	**₹ 299.00**	**₹ 3,289.00**
30/27.27 (b)	Providing and fixing bright finished brass handles with screws etc. complete: ***(b)100 mm***										
	D1	1	1	4	-	-	-	4	Each		
	D2	1	2	4	-	-	-	8	Each		
	D3	1	1	2	-	-	-	2	Each		
	D4	1	4	2	-	-	-	8	Each		
							Total	**22**	**Each**	**₹ 189.00**	**₹ 4,158.00**
31/27.21 (b)	Providing and fixing bright finished brass door latch with necessary screws etc. complete: ***(b) 250x16x5 mm***										
	D1	1	1	1	-	-	-	1	Each		
	D2	1	2	1	-	-	-	2	Each		
	D3	1	1	1	-	-	-	1	Each		
	D4	1	4	1	-	-	-	4	Each		
							Total	**8**	**Each**	**₹ 258.00**	**₹ 2,064.00**

Er. A. Mawlong
Asstt. Engineer
Jwatbor Cajee & Associates
Architects : Engineers : Designers
Project Management & Turnkey Solutions

Ar. Jwatbor S. Cajee
CEO & Chief Architect
Jwatbor Cajee & Associates
Architects: Engineers: Designers
Project Management & Turnkey Solutions

Name of Work- Internal Electrification Estimate of Community Hall (Khasi & Jaintia Hills)						
Rate As Per PWD SOR 2021-2022						
8.0 INTERNAL ELECTRIFICATION ESTIMATE						
Sl No	**Items**	**Unit**	**Quantity**	**Rate**	**Amount**	**Remarks**
1	Wiring in looping system with copper PVC cable 250/440 Volt grade of size 1.5 sqmm of approved quality using PVC casing capping including 5 amperes switch Indian best quality ceiling rose etc. capable to a highest point.					SOR No 1
	(a) Long point wiring upto 10mtrs	each	10	₹ 2,255.00	₹ 22,550.00	
	(b) Medium point wiring upto 6mtrs	each	5	₹ 1,804.00	₹ 9,020.00	
	(c) Short point wiring upto 3mtrs	each	4	₹ 1,438.00	₹ 5,752.00	
2	Wiring as in item NO.1 complete to a light plug point when fixed elsewhere with continous earth wire complete.					SOR No 2
	(a) Long point wiring upto 10mtrs	each	2	₹ 2,625.00	₹ 5,250.00	
3	Wiring to a Power Plug as in item No.1 above with continous earth wire complete.					SOR No 4
	(a) Long point wiring upto 10mtrs	each	2	₹ 3,628.00	₹ 7,256.00	
4	Drawing of Main and Sub-main line with DGSD approved VIR or PVC 250/440 Volt grade in PVC casing caping complete with all accessories.					SOR No 9
	(b) With 2x4 mm² Copper Conductor.	per mtr	90	₹ 283.00	₹ 25,470.00	
5	Supplying & fixing of Load Kontaket Miniature Circuit Breakers DX3 MCB's for AC application till 63 A					SOR No 52
	(a) 6-32 Amp	each	4	₹ 407.00	₹ 1,628.00	
6	Supplying, fitting and fixing of DX3 Isolator for AC applications upto 125 A.					SOR No 53
	(A) Double Pole					
	(a) 32 Amp	each	1	₹ 628.00	₹ 628.00	
7	Supplying, fitting and fixing of Distribution Board SPN DB's for MCB, Isolator, RCCB and RCBO.					SOR No 59
	B. IP 43 - #1K 09 with metal door.					
	(b) 8 Way + 8 Module	each	1	₹ 2,498.00	₹ 2,498.00	
8	Supplying, fitting & fixing complete polish brass bracket, 16mm dia and 23cm long with cast backplate and brass lamp holder with LED bulb surface or wall mounted with all necessary accessories.					SOR No 63
	(a) Bulb					
	(v) 12 W	each	4	₹ 385.00	₹ 1,540.00	

Sl No	Items	Unit	Quantity	Rate	Amount	Remarks
9	Supplying, fitting & fixing of LED RETROFIT LAMPS surface or wall mounted with all necessary accessories.					SOR No 65
	(b) Regal batten for LED tube (Universal batten for T5 & T8 lamps)					
	(i) 8 upto 1x22 w	each	8	₹ 512.00	₹ 4,096.00	
10	Supplying, fitting & fixing of LED PANEL LIGHTING surface or wall mounted with all necessary accessories.					SOR No 66
	(a) 2x2 (595x595x65)mm LED luminair.					
	(ii) 24 W	each	7	₹ 989.00	₹ 6,923.00	
11	Supplying, fitting and fixing with G.I pipe of 200cm lay 40" dia. Including all accessories & providing masonry enclosure with cover plate having locking arrangement etc with charcoal salt complete as required.					SOR No 142
	(a) G.I Pipe electrode.	each	1	₹ 5,601.00	₹ 5,601.00	
12	Supplying and laying of 15mmx5mm G.I/Copper Strip at 0.50mts, below ground.					SOR No 155
	(d) With 25mmx5mm G.I strip	per mtr	30	₹ 144.00	₹ 4,320.00	
				Total	***₹ 1,02,532.00***	
Rupees One Lakh Two Thousand Five Hundred Thirty-two Only.						

Morningstar Sun
(Assistant Electrical Engineer)

Asst. Electrical Engineer
Jwatbor Cajee & Associates
Architects:Engineers:Designers

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Architects : Engineers : Designers
Project Management & Turnkey Solutions

Jwatbor **S.Cajee**
(CEO & Chief Architect)

CEO & Chief Architect
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Architects:Engineers:Designers
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NAME OF WORK: PROPOSED COMMUNITY HALL CONCEPT- AT KHASI & JAINTIA HILLS

Rate as per the Meghalaya P.W.D (Building) S.O.R for 2021-2022

9.0 PLUMBING GENERAL ABSTRACT

SL.No.	DESCRIPTION	AMOUNT		REMARKS
1	Sanitary Fittings	Rs.	15,778.00	As per detail Estimate
2	Internal Water Supply Pipeline	Rs.	49,670.80	
3	Polyethylene Water Tank (Sintex)	Rs.	10,000.00	
	TOTAL=	**Rs.**	**75,448.80**	
	OR SAY=	**Rs.**	**75,500.00**	

(Rupees Seventy-Five Thousand and Five Hundred) Only.

Er.Naki .Gatphoh
Asstt. Engineer
Jwatbor Cajee & Associates
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NAME OF WORK: PROPOSED COMMUNITY HALL CONCEPT- KHASI & JAINTIA HILLS

9.1 SANITARY FITTINGS

Rate as per the Meghalaya P.W.D (Building) S.O.R for 2021-2022

Sl.No	Items of work	Unit	Qnty	Rate	Amount
1/20.7(a)	Providing and fixing wash basin with C.I. brackets, 15 mm C.P. brass pillar taps, 32 mm C.P. brass waste of standard pattern. including painting of fittings and brackets, cutting and making good the walls wherever require: **White Vitreous China Wash basin size 630x450 mm with a pair of 15 mm C.P. brass pillar taps**	Each	2	₹ 2,880.00	₹ 5,760.00
3/20.72	Providing and fixing PTMT Waste Coupling for wash basin and sink, Of approved quality and colour.	Each	2	₹ 116.00	₹ 232.00
4/21.50(a)	Providing and fixing C.P. brass stop cock (concealed) Of standard design and Of approved make conforming to Is:893 **(a)115 mm nominal bore**	Each	4	₹ 997.00	₹ 3,988.00
5/21.56(a)	Providing and fixing PTMT pillar cock of approved quality and colour **15 mm nominal bore, 107 mm long, weighing not less than 110 gins**	Each	2	₹ 335.00	₹ 670.00
6/21.63	Providing and fixing PTMT soap Dish Holder having length of 138 mm, breadth 102 mm, height of 75 mm with concealed fitting arrangements, weighing not less than 106 gins	Each	2	₹ 251.00	₹ 502.00
10/21.53(d)	Providing and fixing PTMT bib cock of approved quality and colour 15 mm nominal bore, 90 mm long, weighing not less than 93 gins (with nozzle)	Each	2	₹ 290.00	₹ 580.00
11/20.38	Providing and fixing Toilet paper holder: C.P brass.	Each	2	₹ 523.00	₹ 1,046.00
12/20.21(a)	Supplying, fitting and fixing PVC flushing cistern with manually controlled device (hand lever) conforming to IS:7231, with all fittings and fixture complete. **(a) 10 Litre capacity-white**	Each	2	₹ 921.00	₹ 1,842.00

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Sl.No	Items of work	Unit	Qnty	Rate	Amount
14/21.58(a)(i)	Providing and fixing PTMT grating of approved quality and colour. **(i)100 mm nominal diameter**	Total=	2	₹ 79.00	₹ 158.00
15	Multi floor trap	Total=	2	₹ 500.00	₹ 1,000.00
				Grand Total=	**₹ 15,778.00**

Er.Naki .Gatphoh
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NAME OF WORK: PROPOSED COMMUNITY HALL CONCEPT- KHASI & JAINTIA HILLS

9.2 INTERNAL WATER SUPPLY PIPELINE

Rate as per the Meghalaya P.W.D (Building) S.O.R for 2021-2022

Sl.No	Items of work	Unit	Quantity	Rate	Amount
1/34.36 (SOR 2015-16)	Supplying, fitting and fixing PVC pipes/ bends/ Junctions etc. of Supreme/Prince or other ISI approved make, including joining ,fitting and fixing with clamps etc. as necessary complete at all levels including below G.L as directed and specified.				
34.36.1 (SOR 2015-16)	**PVC pipes of 6 Kg/cm2 as directed and specified. (b)110mm dia. (Soil pipe)**	Rm	26	₹ 575.00	₹ 14,950.00
	(d) 75mm dia (Waste pipe)	Rm	8.6	₹ 433.00	₹ 3,723.80
2/34.36.2 (SOR 2015-16)	87.5 degree PVC bend as directed and specified				
(b)	**110mm dia**	Each	5	₹ 384.00	₹ 1,920.00
(d)	**75 mm dia.**	Each	10	₹ 328.00	₹ 3,280.00
3/34.36.3(a) (SOR 2015-16)	87.5 degree PVC bend with door as directed and specified.				
(ii)	**110mm dia**	Each	4	₹ 466.00	₹ 1,864.00
4/34.36.4(a) (SOR 2015-16)	45degree PVC bend as directed and specified. (a) In exposed surfaces or in trenches.				
(ii)	**110mm dia**	Each	6	₹ 384.00	₹ 2,304.00
(iv)	**75 mm dia.**	Each	3	₹ 328.00	₹ 984.00
5/34.36.7(a) (SOR 2015-16)	PVC single 'Y' as directed and specified. (a) In exposed surfaces or in trenches.				
(ii)	**110 mm dia.**	Each	4	₹ 537.00	₹ 2,148.00
(iv)	**75 mm dia.**	Each	4	₹ 477.00	₹ 1,908.00
6/34.36.14(a) (SOR 2015-16)	PVC reducer as directed and specified.				
(viii)	**75mm x 63mm**	Each	3	₹ 211.00	₹ 633.00
6/21.8	Providing and fixing chlorinated polyvinyl chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, including fixing the pipe with clamps at 1.00 in spacing. This includes jointing Of pipes & fittings with one step CPVC solvent cement and testing of joints complete as per direction of Engineer in Charge				

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Sl.No	Items of work	Unit	Quantity	Rate	Amount
(iv)	32 mm nominal outer diameter pipes	Rm	17	₹ 583.00	₹ 9,911.00
(iii)	25 mm nominal outer diameter pipes	Rm	15	₹ 403.00	₹ 6,045.00
				Grand Total=	₹ 49,670.80

Er.Naki .Gatphoh
Asstt. Engineer
Jwatbor Cajee & Associates
Architects : Engineers : Designers
Project Management & Turnkey Solutions

Ar.Jwatbor.S.Cajee
CEO & Chief Architect
Jwatbor Cajee & Associates
Architects:Engineers:Designers
Project Management & Turnkey Solutions

JWATBOR CAJEE & ASSOCIATES
JSCAJEE.COM
ARCHITECTS : DESIGNERS : ENGINEERS

NAME OF WORK: PROPOSED COMMUNITY HALL CONCEPT- KHASI & JAINTIA HILLS

9.3 POLYETHYLENE WATER TANK

Rate as per the Meghalaya P.W.D (Building) S.O.R for 2021-2022

Sl.No	Items of work	Unit	Quantity	Rate	Amount
1/21.46	Providing and placing on terrace (at all floor levels) polyethylene water storage tank, Is:12701 marked, with cover and suitable locking arrangement and making necessary holes for inlet, outlet and overflow pipes but without fittings and the base support for tank.				
	500 litre capacity	Each	2	(@ Rs.10/Litre)	₹ 10,000.00
				Grand Total=	**₹ 10,000.00**

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JWATBOR CAJEE & ASSOCIATES
ARCHITECTS DESIGNERS ENGINEERS
JSCAJEE.COM

NAME OF WORK :
PROPOSED COMMUNITY HALL FOR KHASI-JAINTIA AND GARO HILLS

Rate as per the Meghalaya P.W.D (Building) S.O.R for 2021-2022

GENERAL ABSTRACT

SL.No.	DESCRIPTION	AMOUNT	REMARKS
1	Civil Work	Rs. 91,054.36	As per detail Estimate
	GRAND TOTAL=	**Rs. 91,054.36**	

(Rupees Ninety One Thousand Fitfy Four and Thirty Six paisa only)

Er. N.Gatphoh

Ar.Jwatbor S.Cajee

NAME OF WORK :

PROPOSED COMMUNITY HALL FOR KHASI-JAINTIA AND GARO HILLS

SEPTIC TANK & FILTER BED

Rates are as per Meghalaya P.W.D Building S.O.R 2021-2022

Detailed Estimate

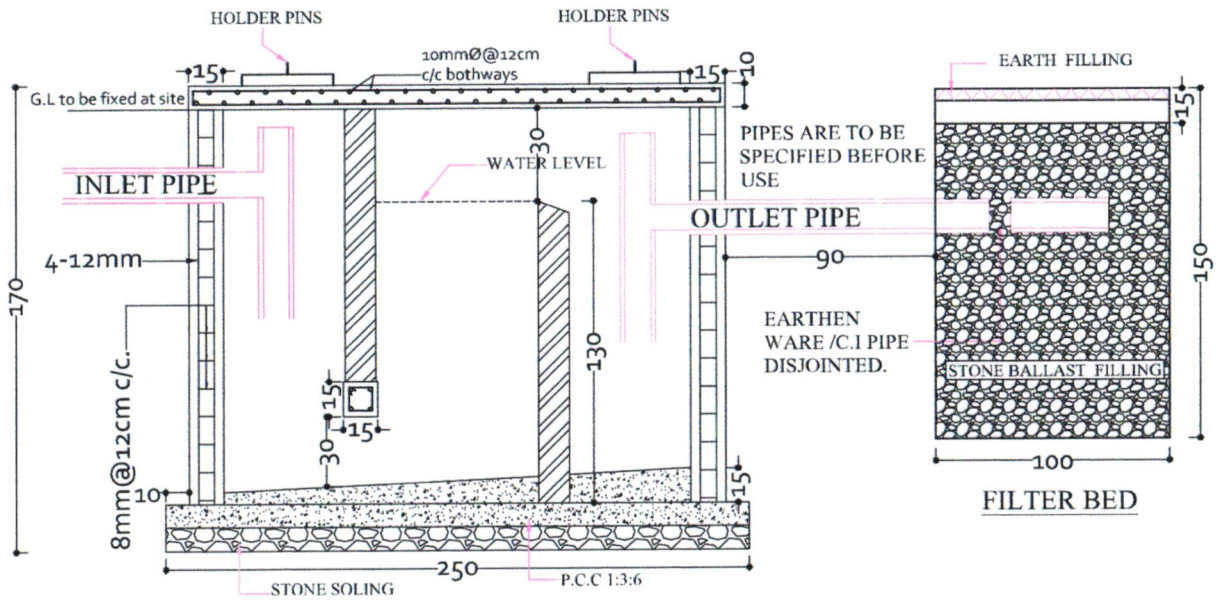
Sl.no	No's	Length	Breadth	Height	Qnty	Unit	Rate	Amount
1/2.1(b)	Earthwork in excavation by manual means up to a depth of 2m below the existing ground level for foundation trenches of foundations, footings of column/ walls, retaining walls, septic tank etc. including bailing out water where necessary and removal Of surplus earth with all lead and lifts as directed and specified for the following classification of soils. **(b)In ordinary rock (soft rock/ medium rock/ hard shale)**							
Septic Tank	1	2.7	1.5	1.7	6.89	cum		
Filter bed	1	1.00	1.00	1.5	1.50	cum		
				Total=	**8.39**	**cum**	**Rs. 414.00**	**₹ 3,471.39**
2/12.5(b)(i)	Providing soling with stone/ best quality picked jhama brick, sand packed and laid to level and in panel after preparing the subgrade as directed including all labour and materials and if necessary dewatering, complete.**(i) 100 mm**							
Septic Tank	1	1	2.5	1.3	3.25	sqm		
				Total=	**3.25**	**sqm**	**₹ 415.00**	**₹ 1,348.75**
3/5.1(b)	Plain cement concrete works in foundation bed for footing steps, walls, brick works etc below plinth level as directed and specified including dewatering if necessary, and curing complete (shuttering where necessary shall be measured and paid separately). **(b)1 :3:6 (1 Cement: 3 coarse sand: 6 graded stone aggregate 20 mm nominal size)**							
Septic Tank	1	2.5	1.3	0.1	0.33	cum		
				Total=	**0.33**	**cum**	**₹ 7,601.00**	**₹ 2,470.33**
4/2.6(a)	Earthwork in filling (excluding rock) in trenches, plinth, sides of foundation otc in layers not exceeding 20 cm thick including breaking Of clods, consolidating each layer by ramming and watering, lead up to 50 in and lift up to 1.5 in . **(a) With available excavated earth**							
Septic Tank	1	2.7	1.5	1.7	6.89	cum		
Deduction	1	2.3	1.1	1.7	-4.30	cum		
				Total=	**2.58**	**cum**	**₹ 141.00**	**₹ 364.34**
5/6.11(b)	Supplying, fitting and fixing in position reinforcement bars up to Ist floor level, conforming to relevant I.S. Code for Ft.C.C. work/ a.a. walling including straightening, cleaning, cutting and bending to proper shapes and length as per details, supplying and binding with 20 G annealed black wire and placing in position with proper blocks, supports, chairs, spacers etc. complete. (Rates inclusive of all wastage, lappage, hooks, chairs, anchorage etc. and no measurement for the same is required) **(b) High Yield Strength Deformed bars or Tor Bars**							

Sl.no	No's	Length	Breadth	Height	Qnty	Unit	Rate	Amount
Post								
12mmØ	4	4	2.2	0.888	31.26	kg		
8mmØ	4	21	0.6	0.395	19.91	kg		
Slab								
10mmØ	2	1.3	22	0.617	35.29	kg		
10mmØ	2	2.5	12	0.617	37.02	kg		
Beam								
12mm Ø	1	4	1.1	0.888	3.91	kg		
8mm Ø	1	12	0.6	0.395	2.84	kg		
				Total=	**130.23**	**kg**		
				or	**1.30**	**qntl**	**₹ 10,936.00**	**₹ 14,216.80**
6	Providing shuttering including centering for flat surface such as slabs, shelves, chajja and for vertical faces such as columns,walls ends of beams etc with dressed plank not less than 25cm thick firmly fixed etc complete as directed.							
4.4	Lintels, beams, plinth beams, girders, bressumers and cantilevers (using steel)							
Post	4	1	0.6	1.7	4.08	sqm		
Beam	1	1	1.1	0.6	0.66	sqm		
				Total=	**4.74**	**sqm**	**₹ 486.00**	**₹ 2,303.64**
4.3	Slabs, roofs, landings, balconies and access platform, shelves (using steel).							
Slab	1	1	2.4	1.2	2.88	sqm		
				Total=	**2.88**	**sqm**	**₹ 581.00**	**₹ 1,673.28**
8/6.3(b)	Reinforced cement concrete work in beams, slabs, roofs having slope up to 15°, landings, balconies, shelves, chajjas, lintels, bands, plain window sills, staircases and spiral stair cases above plinth level up to first flcor level, excluding the cost of centering, shuttering, finishing and reinforcement.: **(b)M20 or 1 :11/2:3 (1 cement: 11/2 coarse sand: 3 graded stone aggregate 20 mm nominal size)**							
Post	4	0.15	0.15	1.7	0.15	cum		
Beam	1	0.15	0.15	1.1	0.02	cum		
Slab	1	1.1	2.3	0.125	0.32	cum		
				Total=	**0.49**	**cum**	**₹ 10,335.00**	**₹ 5,105.49**
8/7.10(a)	Half brick masonry with common burnt clay (non modular) Ist class bricks in superstructure above plinth level up to first floor level,							
2.30 Wall	2	1	2.00	1.70	6.80	sqm		
1.10 Wall	2	1	0.85	1.70	2.89	sqm		
Partiton	1	1	0.85	1.20	1.02	sqm		
	1	1	0.85	1.30	1.11	sqm		

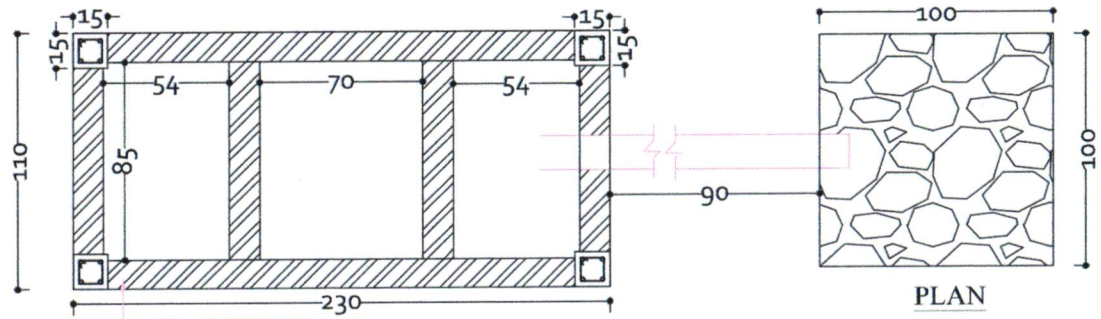
Sl.no	No's	Length	Breadth	Height	Qnty	Unit	Rate	Amount
				Total=	**11.82**	**sqm**	**₹ 1,247.00**	**₹ 14,733.31**
9/15.8(b)	15 mm cement plaster on rough side Of single or half brick wall finished with a floating coat Of neat cement Of mix: (b)1 :4 (1 cement: 4 fine sand)							
Post	1	4	0.6	1.7	4.08	sqm		
Beam	1	1	0.6	1.1	0.66	sqm		
Slab	2	1	2.4	1.2	5.76	sqm		
2.30 Wall	2	1	2	1.7	6.80	sqm		
1.10 Wall	2	1	0.85	1.7	2.89	sqm		
Partiton	2	1	0.85	1.2	2.04	sqm		
	2	1	0.85	1.3	2.21	sqm		
				Total=	**24.44**	**sqm**	**₹ 330.00**	**₹ 8,065.20**
10/12.9(b)	Cement concrete floor topping 1:3:6 (1 cement: 3 coarse sand: 6 stone aggregate) finished with a tloating coat Of neat cement, including cement slurry, complete.(b) 20 mm thick							
Base	1	1	2.3	1.1	2.53	sqm		
				Total=	**2.53**	**sqm**	**₹ 328.00**	**₹ 829.84**
11/22.30	Making soak pit 2.5 in diameter 3,0 metre deep with 45x45 cm dry brick honey comb shaft with bricks and S.W. drain pipe 100 mm diamcter,1.8 in long complete as per standard design							
	1	1	1	1	1.00	Each		
				Total=	**1.00**	**Each**	**₹ 36,472.00**	**₹ 36,472.00**
							TOTAL=	**₹ 91,054.36**

Er. N.Gatphoh

Ar. Jwatbor S Cajee



LONGITUDINAL SECTION



PLAN

PLAN

NAME OF WORK: **PROPOSED COMMUNITY HALL** **:KHASI-JAINTIA AND GARO HILLS**	*This design/ drawing is the property of* ***M/S JWATBOR CAJEE & ASSOCIATES.*** *Duplication or Reproduction is liable to legal action.*	CONTENTS: SEPTIC TANK DETAILS SCALE :-NTS	PROJECT ARCHITECTS : *Jwatbor S Cajee* email id: jcajeeassociates@gmail.com	PROJECT ENGINEER : N.Gatphoh	**JWATBOR CAJEE & ASSOCIATES** ARCHITECTS:ENGINEERS:DESIGNERS PROJECT MANAGEMENT & TURNKEY SOLUTIONS GREEN PATCH VILLA, ARIUTENGT ROAD, NONGRIMMAW, LAITUMKHRAH, SHILLONG ALL DIMENSIONS ARE IN CENTIMETERS EXCEPT OTHERWISE MENTIONED		Drg. No.:- JCA/XY/237/23/ST-01 Date: 10-03-2023

NAME OF WORK :

PROPOSED COMMUNITY HALL FOR KHASI-JAINTIA AND GARO HILLS

SEPTIC TANK & FILTER BED

Rates are as per Meghalaya P.W.D Building S.O.R 2021-2022

ABSTRACT OF COST

sl.no	Item of work	Qnty	Units	Rates	Amount
1/2.1(b)	Earthwork in excavation by manual means up to a depth of 2m below the existing ground level for foundation trenches of foundations, footings of column/ walls, retaining walls, septic tank etc. including bailing out water where necessary and removal Of surplus earth with all lead and lifts as directed and specified for the following classification of soils. (b)In ordinary rock (soft rock/ medium rock/ hard shale)	8.39	cum	₹ 414.00	₹ 3,471.39
2/12.5(b)(i)	Providing soling with stone/ best quality picked jhama brick, sand packed and laid to level and in panel after preparing the subgrade as directed including all labour and materials and if necessary dewatering, complete.(i) 100 mm	3.25	sqm	₹ 415.00	₹ 1,348.75
3/5.1(b)	Plain cement concrete works in foundation bed for footing steps, walls, brick works etc below plinth level as directed and specified including dewatering if necessary, and curing complete (shuttering where necessary shall be measured and paid separately). (b)1 :3:6 (1 Cement: 3 coarse sand: 6 graded stone aggregate 20 mm nominal size)	0.33	cum	₹ 7,601.00	₹ 2,470.33
4/2.6(a)	Earthwork in filling (excluding rock) in trenches, plinth, sides of foundation otc in layers not exceeding 20 cm thick including breaking Of clods, consolidating each layer by ramming and watering, lead up to 50 in and lift up to 1.5 in . (a) With available excavated earth	2.58	cum	₹ 141.00	₹ 364.34

5/6.11(b)	Supplying, fitting and fixing in position reinforcement bars up to lst floor level, conforming to relevant I.S. Code for Ft.C.C. work/ a.a. walling including straightening, cleaning, cutting and bending to proper shapes and length as per details, supplying and binding with 20 G annealed black wire and placing in position with proper blocks, supports, chairs, spacers etc. complete. (Rates inclusive of all wastage, lappage, hooks, chairs, anchorage etc. and no measurement for the same is required) (b) High Yield Strength Deformed bars or Tor Bars	1.30	qntl	₹ 10,936.00	₹ 14,216.80
6	Providing shuttering including centering for flat surface such as slabs, shelves, chajja and for vertical faces such as columns,walls ends of beams etc with dressed plank not less than 25cm thick firmly fixed etc complete as directed.				
4.4	Lintels, beams, plinth beams, girders, bressumers and cantilevers (using steel)	4.74	sqm	₹ 486.00	₹ 2,303.64
4.3	Slabs, roofs, landings, balconies and access platform, shelves (using steel).	2.88	sqm	₹ 581.00	₹ 1,673.28
8/6.3(b)	Reinforced cement concrete work in beams, slabs, roofs having slope up to 15°, landings, balconies, shelves, chajjas, lintels, bands, plain window sills, staircases and spiral stair cases above plinth level up to first flcor level, excluding the cost of centerlng, shuttering, finishing and reinforcement.: (b)M20 or 1 :11/2:3 (1 cement: 11/2 coarse sand: 3 graded stone aggregate 20 mm nominal size)	0.49	cum	₹ 10,335.00	₹ 5,105.49
8/7.10(a)	Half brick masonry with common burnt clay (non modular) lst class bricks in superstructure above plinth level up to first floor level,	11.82	sqm	₹ 1,247.00	₹ 14,733.31
9/15.8(b)	15 mm cement plaster on rough side Of single or half brick wall finished with a floating coat Of neat cement Of mix: (b)1 :4 (1 cement: 4 fine sand)	24.44	sqm	₹ 330.00	₹ 8,065.20
10/12.9(b)	Cement concrete floor topping 1:3:6 (1 cement: 3 coarse sand: 6 stone aggregate) finished with a tloating coat Of neat cement, including cement slurry, complete.(b) 20 mm thick	2.53	sqm	₹ 328.00	₹ 829.84
11/22.30	Making soak pit 2.5 in diameter 3,0 metre deep with 45x45 cm dry brick honey comb shaft with bricks and S.W. drain pipe 100 mm diamcter,1.8 in long complete as per standard design	1.00	Each	₹ 36,472.00	₹ 36,472.00
				TOTAL =	**₹ 91,054.36**

Er. N.Gatphoh

Ar. Jwatbor S Cajee

NAME OF WORK: PROPOSED COMMUNITY HALL CONCEPT AT KHASI & JAINTIA AND GARO HILLS

Bill of Quantities (BOQ)

Sl.no	Items	Qnty	Units
	(D) PHASE 4		
	Septic Tank		
1	Earthwork in foundation	269.07	cu.ft
2	Steel reinforcement		
(i)	12mm	0.35	qntls
(ii)	10mm	0.72	qntls
(iii)	8mm	0.23	qntls
3	Shuttering plank	82.02	sq.ft
4	Stone Soling	34.983	sqft
5	Cement	18	bags
6	River sand	13.10	cu.ft
7	stone aggregates	26.27	cu.ft
8	Bricks	1553	nos
9	Hill sand	60.04	cu.ft
10	Earthwork in Filling	91.25	cu.ft

CEO & Chief Architect
Jwatbor Cajee & Associates
Architects : Engineers : Designers
& Project Management Consultants

Ar. Jwatbor S . Cajee

ESTIMATE FOR CONSTRUTION OF SPRING TAPPED CHAMBER UNDER MegLIFE, AT

(Based as per Chief Engineer PWD (Buildings) Meghalaya Schedule of Rates 2021-2022)

Sl. No. Item No.	Particulars											Amount	
1	Clearing jungle including uprooting of rank vegetation, grass, brush wood, trees and saplings of girth up to 30 cm measured at a height of 1 in above ground level and removal of rubbish up to a distance of 50 in outside the periphery of the area cleared.												
				2.5	x	2.5	x		=	6.25	m^2	8.00 /m2	Rs. 50.00
1/2.1(a)	Earthwork in excavation in ordinary soil, etc.												
	Tank:			2.00	x	2.00	x	0.50	=	2.00	m^3		
	Platform:			2.00	x	1.40	x	0.25	=	0.7	m^3		
	Footing:	4	x	0.80	x	0.80	x	1.00	=	2.56	m^3		
										5.26	m^3		
										@	Rs	213.00 /m^3	Rs. 1,120.38
2/12.5 b	Providing soling with stone/ best quality picked jhama brick, sand packed and laid to level and in panel after preparing the subgrade as directed including all labour and materials and if necessary dewatering, complete.												
	Stone Soling 100mm												
	Footing	4	x	0.80	x	0.80	x	0.10	=	0.26			
	Platform			1.2	x	2.2	x	0.10	=	0.26			
										0.52			
										@	Rs	415.00 /m^2	Rs. 215.80
3/5.1 (a)	Providing and laying cement concrete in proportion 1:4:8 including curing complete in foundation.												
	Footing:	4	x	0.80	x	0.80	x	0.10	=	0.26	m^3		
										@	Rs	6831.00 /m^3	Rs. 1,748.74
4 4.5	Providing shuttering including centering for flat surface such as slabs, etc with dressed plank not less than 25 mm thick firmly fixed etc.												
	Columns:												
		2	x	0.63	x	-	x	2.30	=	2.89	m^2		

Sl. No. Item No.	Particulars										Amount	
		2	x	0.63	x	-	x	2.68	=	3.37 m^2		
										6.25 m^2		
									@	Rs 175.00 /m^2	Rs.	1,094.60
4.3	Sides of beams & slabs:											
	Tie Beams	4	x	2	x	-	x	0.60	=	4.80 m^2		
	Beam	4	x	2	x	-	x	0.60	=	4.80 m^2		
	Slab	1	x	1	x	2.50	x	2.00	=	5.00 m^2		
										14.60 m^2		
									@	Rs 426.00 /m^2	Rs.	6,219.60
5/6.1 (a)	Providing and laying cement concrete in proportion 1:2:4 corresponding to M15 including necessary curing complete, in foundation.											
	Footing:	4	x	0.80	x	0.80	x	0.20	=	0.51 m^3		
	Columns:	2	x	1	x	0.10	x	0.75	=	0.05 m^3		
		2	x	1	x	0.10	x	0.75	=	0.05 m^3		
	Tie Beams:	2	x	2.00	x	0.20	x	0.20	=	0.16 m^3		
		2	x	2.00	x	0.20	x	0.20	=	0.16 m^3		
										0.93 m^3		
									@	Rs. 8,658 /m^3	Rs.	8,019
6/6.1 (b)	Providing and laying cement concrete in proportion 1:1.5:3 corresponding to M20 including curing complete in beams, slabs, etc.											
	Beam	2	x	2.00	x	0.20	x	0.20	=	0.16 m^3		
		2	x	2.00	x	0.20	x	0.20	=	0.16 m^3		
	Slab	1	x	2.50	x	2.00	x	0.10	=	0.50 m^3		
	Columns:	2	x	1	x	0.10	x	1.40	=	0.09 m^3		
		2	x	1	x	0.10	x	1.78	=	0.11 m^3		
										1.02 m^3		

Sl. No. Item No.	Particulars									Amount	
									@ Rs. 9,336 /m^3	Rs.	9,520
7/5.1 (b)	Providing and laying cement concrete in proportion 1:3:6 corresponding to M100 including curing complete.										
	Platform:			2.00	x	1.20	x	0.15	= 0.36 m^3		
									0.36 m^3		
									@ Rs 6831.00 /m^3	Rs.	2,459.16
8/6.11 (b)	Providing other ISI approved TMT reinforcement bar in RCC work in slab including cutting, bending, cranking and tying in position with binding wire, 20 gauge, as shown in drawings.										
							10mm dia bar				
	Slab	1	x	1	x	2.50	x	14	= 35		
		1	x	1	x	2.00	x	17	= 33.33		
									68.33		
							Unit Weight		= 0.62		
									= 42.18		
							12mm dia bar				
	Footing	4	x	2	x	0.80	x	8	= 51.2		
	Tie Beam	2	x	1	x	2.00	x	4	= 16		
		2	x	1	x	2.00	x	4	= 16		
	Beams	2	x	1	x	2.00	x	4	= 16		
		2	x	1	x	2.00	x	4	= 16		
	Column	2	x	1	x	2.16	x	4	= 17.28		
		2	x	1	x	2.54	x	4	= 20.28		
									152.76		
							Unit Weight		= 0.89		
									= 135.79		
							8mm Dia Bar				
	Beam Stirrup	2 x		2 x		0.7	x	11	= 31.73		
		2 x		2 x		0.7	x	11	= 31.73		
	tie beams stirrups	2 x		2 x		0.7	x	11	= 31.73		

Sl. No. Item No.	Particulars									Amount
		2 x	2 x	0.7	x	11	=	31.73		
	Column Stirrup	2 x	1 x	0.48	x	12	=	11.90		
	Column Stirrup	4 x	1 x	0.48	x	15	=	28.61		
								167.45		
						Unit Weight	=	0.40		
								66.15		
								244.12	Kg	
								2.44	Qtl	
									Rs. 10,936 /qtl	Rs. 26,696.85
9/7.10 a	Half brick masonry with common burnt clay (non modular) Isd class bricks in superstructure above plinth level up to first floor level,									
	Wall		1.6 x	-	x	1.40	=	2.24 m^2		
	Wall		0.8 x	-	x	2.00	=	1.6 m^2		
	Wall		1.6 x	-	x	1.7	=	2.72 m^2		
	Wall		1.6 x	-	x	1.7	=	2.72 m^2		
								9.28 m^2	Rs. 1,247 m^2	11,572.16
10/5.1 (b)	12mm cement plaster of mix 1:6 Exterior:									
	Wall		1 x	1.6 x		x	1.70 =	2.72 m^3		
	Wall		1 x	0.8 x		x	1.20 =	0.96 m^3		
	Wall		1 x	1.6 x		x	1.85 =	2.96 m^3		
	Wall		1 x	1.6 x		x	1.85 =	2.96 m^3		
	Slab	2	x	2.70 x	2.4	x	=	12.96 m^3		
	Side Slab	1	x	2.00 x	0.1	x	=	0.20 m^3		
	Interior:									

Sl. No. Item No.	Particulars										Amount
	Wall	1	x	1.48	x		x	0.50	=	0.74 m^3	
		1		0.68				0.80		0.54 m^3	
		1		1.48				1.85		2.74 m^3	
		1		1.48				1.85		2.74 m^3	
	column	2	x	0.80	x		x	1.40	=	2.24 m^3	
		2	x	0.80	x		x	2.00	=	3.20 m^3	
										34.00 m^3	
										@ Rs 224.00 /m^3	Rs. 7,616.00
11/21.13 iii.	Providing and fixing G.I. pipes complcte with G.I. fittings including trenching and refilling etc. 32mm Diameter nominal bore									1 Rm Rs. 433 /Rm	433.00
12/16.11 a.	Applying one coat of water thinnable cement primer of approved brand and Water thinnable cement primer										
	Wall		x	2	x		x	1.30	=	2.6 m^2	
	Wall		x	2	x		x	1.20	=	2.4 m^2	
	Wall		x	2	x		x	1.65	=	3.3 m^2	
	Wall		x	2	x		x	1.65	=	3.3 m^2	
	Slab	1	x	2.50	x	2.00	x		=	5 m^2	
	Shade	2	x	2.00	x	0.3	x		=	1.2 m^2	
	Shade	2	x	2.00	x	0.1	x		=	0.4 m^2	
										18.2 m^2 Rs. 56 m^2	1,019.20
13/16.19	Wall painting with acrylic emulsion pain of approved brand and manufacture to give an even shade: New work (two or more coats)										
	Wall		x	1	x		x	1.30	=	1.3 m^2	
	Wall		x	1	x		x	1.20	=	1.2 m^2	
	Wall		x	1	x		x	1.65	=	1.65 m^2	
	Wall		x	1	x		x	1.65	=	1.65 m^2	

Sl. No. Item No.	Particulars									Amount
		2 x	2 x	0.7	x	11	=	31.73		
	Column Stirrup	2 x	1 x	0.48	x	12	=	11.90		
	Column Stirrup	4 x	1 x	0.48	x	15	=	28.61		
								167.45		
						Unit Weight	=	0.40		
								66.15		
								244.12	Kg	
								2.44	Qtl	
									Rs. 10,936 /qtl	Rs. 26,696.85
9/7.10 a	Half brick masonry with common burnt clay (non modular) Isd class bricks in superstructure above plinth level up to first floor level,									
	Wall		1.6 x	-	x	1.40	=	2.24 m^2		
	Wall		0.8 x	-	x	2.00	=	1.6 m^2		
	Wall		1.6 x	-	x	1.7	=	2.72 m^2		
	Wall		1.6 x	-	x	1.7	=	2.72 m^2		
								9.28 m^2	Rs. 1,247 m^2	11,572.16
10/5.1 (b)	12mm cement plaster of mix 1:6 Exterior:									
	Wall		1 x	1.6 x		x	1.70 =	2.72 m^3		
	Wall		1 x	0.8 x		x	1.20 =	0.96 m^3		
	Wall		1 x	1.6 x		x	1.85 =	2.96 m^3		
	Wall		1 x	1.6 x		x	1.85 =	2.96 m^3		
	Slab	2	x	2.70 x	2.4	x	=	12.96 m^3		
	Side Slab	1	x	2.00 x	0.1	x	=	0.20 m^3		
	Interior:									

Sl. No. Item No.	Particulars										Amount
	Wall	1	x	1.48	x		x	0.50	=	0.74 m^3	
		1		0.68				0.80		0.54 m^3	
		1		1.48				1.85		2.74 m^3	
		1		1.48				1.85		2.74 m^3	
	column	2	x	0.80	x		x	1.40	=	2.24 m^3	
		2	x	0.80	x		x	2.00	=	3.20 m^3	
										34.00 m^3	
										@ Rs 224.00 /m^3	Rs. 7,616.00
11/21.13 iii.	Providing and fixing G.I. pipes complcte with G.I. fittings including trenching and refilling etc. 32mm Diameter nominal bore									1 Rm Rs. 433 /Rm	433.00
12/16.11 a.	Applying one coat of water thinnable cement primer of approved brand and Water thinnable cement primer										
	Wall		x	2	x		x	1.30	=	2.6 m^2	
	Wall		x	2	x		x	1.20	=	2.4 m^2	
	Wall		x	2	x		x	1.65	=	3.3 m^2	
	Wall		x	2	x		x	1.65	=	3.3 m^2	
	Slab	1	x	2.50	x	2.00	x		=	5 m^2	
	Shade	2	x	2.00	x	0.3	x		=	1.2 m^2	
	Shade	2	x	2.00	x	0.1	x		=	0.4 m^2	
										18.2 m^2 Rs. 56 m^2	1,019.20
13/16.19	Wall painting with acrylic emulsion pain of approved brand and manufacture to give an even shade: New work (two or more coats)										
	Wall		x	1	x		x	1.30	=	1.3 m^2	
	Wall		x	1	x		x	1.20	=	1.2 m^2	
	Wall		x	1	x		x	1.65	=	1.65 m^2	
	Wall		x	1	x		x	1.65	=	1.65 m^2	

Sl. No. Item No.	Particulars										Amount
	Slab	1	x	1.25	x	2.00	x	=	2.5 m^2		
	Shade	2	x	1.00	x	0.3	x	=	0.6 m^2		
	Shade	2	x	1.00	x	0.1	x	=	0.2 m^2		
									9.1 m^2	Rs. 105 m^2	955.50
14/11.22 a.	Providing, fitting and fixing steel windows (including ventilators) of standard rolled steel sections as per relevant I.S. Code, joints mitred and welded with 15x3xl00 mm lugs embedded in cement concrete block of M-10 grade including providing and fixing of Openable										
	Gate	1	x	0.8	x	-	x	1.4 =	1.12 m^2	Rs. 3,941 m^2	4,413.92
15/21.47	Providing and fixing C.P. brass bib cock of approved quality conforming to Is:8931 : a. 15mm nominal bore										
									1 Nos	Rs. 321 m^2	321.00
											Rs. 83,424.91
										Deducting 15 % contractor's profit	13,313.91
											70,111.00

ESTIMATE FOR CONSTRUCTION OF SPRING TAPPED CHAMBER UNDER MegLIFE, AT .....

(Based as per Chief Engineer PWD (Buildings) Meghalaya Schedule of Rates 2021-2022)

Sl. No. Item No.	Particulars										Amount	
1	Clearing jungle including uprooting of rank vegetation, grass, brush wood, trees and saplings of girth up to 30 cm measured at a height of 1 in above ground level and removal of rubbish up to a distance of 50 in outside the periphery of the area cleared.											
			3.5	x	2.5	x		=	8.75 m^2	8.00 /m2	Rs.	70.00
1/2.1(a)	Earthwork in excavation in ordinary soil, etc.											
	Tank:		3.00	x	2.00	x	0.50	=	3.00 m^3			
	Platform:		3.00	x	1.40	x	0.25	=	1.05 m^3			
	Footing:	4 x	0.80	x	0.80	x	1.00	=	2.56 m^3			
									6.61 m^3			
								@	Rs	213.00 /m^3	Rs.	1,407.93
2/12.5 b	Providing soling with stone/ best quality picked jhama brick, sand packed and laid to level and in panel after preparing the subgrade as directed including all labour and materials and if necessary dewatering, complete.											
	Stone Soling 100mm											
	Footing	4 x	0.80	x	0.80	x	0.10	=	0.26			
	Platform		1.2	x	2.2	x	0.10	=	0.26			
									0.52			
								@	Rs	415.00 /m^2	Rs.	215.80
3/5.1 (a)	Providing and laying cement concrete in proportion 1:4:8 including curing complete in foundation.											
	Footing:	4 x	0.80	x	0.80	x	0.10	=	0.26 m^3			
								@	Rs	6831.00 /m^3	Rs.	1,748.74
4	Providing shuttering including centering for flat surface such as slabs, etc with dressed plank not less than 25 mm thick firmly fixed etc.											
4.5	Columns:											
		2 x	0.63	x	-	x	2.40	=	3.01 m^2			
		2 x	0.63	x	-	x	2.78	=	3.49 m^2			

Sl. No. Item No.	Particulars										Amount	
									6.50 m^2			
								@	Rs	175.00 /m^2	Rs.	1,137.50
4.3	Sides of beams & slabs:											
	Tie Beams	4	x	3	x	-	x	0.60	=	7.20 m^2		
	Beam	4	x	2	x	-	x	0.60	=	4.80 m^2		
	Slab	1	x	1	x	2.60	x	2.20	=	5.72 m^2		
										17.72 m^2		
								@	Rs	426.00 /m^2	Rs.	7,548.72
5/6.1 (a)	Providing and laying cement concrete in proportion 1:2:4 corresponding to M15 including necessary curing complete, in foundation.											
	Footing:	4	x	0.80	x	0.80	x	0.20	=	0.51 m^3		
	Columns:	2	x	1	x	0.10	x	0.75	=	0.05 m^3		
		2	x	1	x	0.10	x	0.75	=	0.05 m^3		
	Tie Beams:	2	x	3.00	x	0.20	x	0.20	=	0.24 m^3		
		2	x	2.00	x	0.20	x	0.20	=	0.16 m^3		
										0.98 m^3		
									@ Rs.	8,658 /m^3	Rs.	8,485
6/6.1 (b)	Providing and laying cement concrete in proportion 1:1.5:3 corresponding to M20 including curing complete in beams, slabs, etc.											
	Beam	2	x	3.00	x	0.20	x	0.20	=	0.24 m^3		
		2	x	2.00	x	0.20	x	0.20	=	0.16 m^3		
	Slab	1	x	2.60	x	2.20	x	0.10	=	0.57 m^3		
	Columns:	2	x	1	x	0.10	x	1.40	=	0.09 m^3		
		2	x	1	x	0.10	x	1.78	=	0.11 m^3		
										1.15 m^3		
									@ Rs.	9,336 /m^3	Rs.	10,736
7/5.1												

Sl. No. Item No.	Particulars									Amount
(b)	Providing and laying cement concrete in proportion 1:3:6 corresponding to M100 including curing complete.									
	Platform:			3.00	x	1.20	x	0.15	= 0.54 m^3	
									0.54 m^3	
									@ Rs 6831.00 /m^3	Rs. 3,688.74
8/6.11 (b)	Providing other ISI approved TMT reinforcement bar in RCC work in slab including cutting, bending, cranking and tying in position with binding wire, 20 gauge, as shown in drawings.									
							10mm dia bar			
	Slab	1	x	1	x	2.60	x	11	= 28.6	
		1	x	1	x	2.20	x	13	= 28.6	
									56.2	
							Unit Weight		= 0.62	
									= 34.69	
							12mm dia bar			
	Footing	4	x	2	x	0.80	x	8	= 51.2	
	Tie Beam	2	x	1	x	3.00	x	4	= 24	
		2	x	1	x	2.00	x	4	= 16	
	Beams	2	x	1	x	3.00	x	4	= 24	
		2	x	1	x	2.00	x	4	= 16	
	Column	2	x	1	x	2.1	x	4	= 16.8	
		2	x	1	x	2.50	x	4	= 20	
									165	
							Unit Weight		= 0.89	
									= 146.67	
							8mm Dia Bar			
	Beam Stirru		2 x		2 x	0.86	x	20	= 68.80	
			2 x		2 x	0.86	x	13	= 45.87	
	tie beams stirrups		2 x		2 x	0.86	x	15	= 51.60	
			2 x		2 x	0.86	x	10	= 34.40	
	Column Stirr		2 x		1 x	0.64	x	11	= 13.44	

Sl. No. Item No.	Particulars									Amount
	Column Stirr	4 x	1 x	0.64	x	13	=	32.00		
								246.00		
					Unit Weight		=	0.40		
								97.19		
								278.54	Kg	
								2.79	Qtl	
									Rs. 10,936 /qtl	Rs. 30,461.49
9/7.10 a	Half brick masonry with common burnt clay (non modular) Isd class bricks in superstructure above plinth level up to first floor level,									
	Wall		2.6 x	-	x	1.40	=	3.64 m^2		
	Wall		1.8 x	-	x	1.75	=	3.15 m^2		
	Wall		1.6 x	-	x	1.575	=	2.52 m^2		
	Wall		1.6 x	-	x	1.575	=	2.52 m^2		
	Wall	2 x	2.6 x	-	x	0.5	=	2.6 m^2		
	Wall	2 x	1.6 x	-	x	0.5	=	1.6 m^2		
								16.12 m^2	Rs. 1,247 m^2	20,101.64
10/5.1 (b)	Providing 12 mm thick cement plaster in proportion 1:6 including cleaning the surface and curing complete as directed.									
	Exterior:									
	Wall	1 x	2.6	x	x	1.40	=	3.64 m^3		
	Wall	1 x	1.8	x	x	1.75	=	3.15 m^3		
	Wall	1 x	1.6	x	x	1.575	=	2.52 m^3		
	Wall	1 x	1.6	x	x	1.575	=	2.52 m^3		
	Slab	2 x	2.60	x	x	2.20	=	11.44 m^3		
	Side Slab	1 x	2.20	x	x	0.10	=	0.22 m^3		
	Interior:									
	Wall	1 x	2.48	x	x	0.50	=	1.24 m^3		

Sl. No. Item No.	Particulars											Amount
	Wall		1	x	1.68	x		x	0.50	=	0.84 m^3	
	Wall		1	x	1.48	x		x	0.5	=	0.74 m^3	
	Wall		1	x	1.48	x		x	0.5	=	0.74 m^3	
	Wall		2		2.6	x		x	0.5	=	2.60 m^3	
	Wall		2		1.6	x		x	0.5	=	1.60 m^3	
	column	2		x	0.31	x		x	1.40	=	0.88 m^3	
		2		x	0.31	x		x	1.75	=	1.10 m^3	
											31.70 m^3	
											@ Rs 224.00 /m^3	Rs. 7,100.80
11/21.13 iii.	Providing and fixing G.I. pipes complcte with G.I. fittings including trenching and refilling etc. 32mm Diameter nominal bore										2 Rm Rs. 433 /Rm	866.00
12/16.11 a.	Applying one coat of water thinnable cement primer of approved brand and Water thinnable cement primer											
	Wall			x	3	x		x	1.20	=	3.6 m^2	
	Wall			x	3	x		x	1.55	=	4.65 m^2	
	Wall			x	2	x		x	1.375	=	2.75 m^2	
	Wall			x	2	x		x	1.375	=	2.75 m^2	
	Slab		1	x	2.60	x	2.20	x		=	5.72 m^2	
	Shade		2	x	2.20	x	0.3	x		=	1.32 m^2	
	Shade		2	x	2.20	x	0.1	x		=	0.44 m^2	
											21.3 m^2 Rs. 56 m^2	1,192.80
13/16.19	Wall painting with acrylic emulsion pain of approved brand and manufacture to give an even shade: New work (two or more coats)											
	Wall			x	1.5	x		x	1.20	=	1.8 m^2	
	Wall			x	1.5	x		x	1.55	=	2.325 m^2	
	Wall			x	1	x		x	1.375	=	1.375 m^2	
	Wall			x	1	x		x	1.375	=	1.375 m^2	
	Slab		1	x	1.30	x	2.20	x		=	2.86 m^2	

Sl. No. Item No.	Particulars											Amount
	Shade	2	x	1.10	x	0.3	x	=	0.66 m^2			
	Shade	2	x	1.10	x	0.1	x	=	0.22 m^2			
									10.6 m^2	Rs.	105 m^2	1,113.00
14/11.22 a.	Providing, fitting and fixing steel windows (including ventilators) of standard rolled steel sections as per relevant I.S. Code, joints mitred and welded with 15x3xl00 mm lugs embedded in cement concrete block of M-10 grade including providing and fixing of projecting hinges (not Openable											
	Gate	1	x	0.8	x	-	x	0.8	= 0.64 m^2	Rs.	3,941 m^2	2,522.24
15/21.47	Providing and fixing C.P. brass bib cock of approved quality conforming to ls:8931 : a. 15mm nominal bore											
									1 Nos	Rs.	321 m^2	321.00
											Rs.	95,162.14
										Deducting 15 % contractor's profit		14,274.32
												80,887.82
										Say		80,890.00

ESTIMATE FOR CONSTRUCTION OF RCC WATER TANK UNDER MegLIFE AT

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(Based as per Chief Engineer PWD (Buildings) Meghalaya Schedule of Rates 2021-2022)

Capacity = 20,000 Ltrs

Length =3.00 m

Breadth =3.00m

Depth =2.50m

Footing size= 1.00x1.00m

Beam Size =0.25x0.25m

Column Size =0.3x0.3 m

Platform = 2.00x3.00 m

Freeboard = 0.20 m

DETAILED ESTIMATE FOR 1 NO OF RCC TANK

Sl. No	Items	Nos				L		B		D		Qnty		Rate	Unit	Amount
1/19.23	Clearing jungle including uprooting of rank vegetation, grass, brush wood, trees and saplings of girth up to 30 cm measured at a height of 1 in above ground level and removal of rubbish up to a distance of 50 in outside the periphery of the area cleared.															
		1	x	1	x	3.5	x	3.5	x	-	=	**12.25**	**sqm**			
													@	**₹ 8.00**	**/sqm**	**₹98.00**
2/2.1 (a)	Earthwork in excavation by manual means up to a depth of 2m below the existing ground level for foundation trenches of foundations, footings of column/ walls, retaining walls, septic tank etc. including bailing out water where necessary and removal of surplus earth with all lead and lifts as directed and specified for the following classification of soils															
	Tank	1	x	1	x	3	x	5	x	0.15	=	2.25	cum			
	Footing	1	x	4	x	1	x	1	x	1	=	4	cum			
	Plinth wall	1	x	4	x	3	x	0.4	x	0.6	=	2.88	cum			
										Total	=	**9.13**	**cum**			
													@	**₹ 213.00**	**/cum**	**₹1,944.69**
3/12.5	Providing soling with stone/ best quality picked jhama brick, sand packed and laid to level and in panel after preparing the subgrade as directed including all labour and materials and if necessary dewatering, complete.															
b.	*(i)100mm*															
	Tank	1	x	1	x	3	x	3	x	-	=	9	sqm			

	Footing	1	x	4	x	1	x	1	x	-	=	4	sqm			
	Platform	1	x	1	x	3	x	2	x	-	=	6	sqm			
										Total	=	**19**	**sqm**			
													@	**₹ 415.00**	**/sqm**	**₹7,885.00**
4/5.1	Plain cement concrete works in foundation bed for footing steps, walls, brick works etc below plinth level as directed and specified including dewatering if necessary, and curing complete (shuttering where necessary shall be measured and paid separately).															
a.	*1:04:08*															
	Floor	1	x	1	x	3	x	3	x	0.1	=	0.9	cum			
	Footing	1	x	4	x	1	x	1	x	0.1	=	0.4	cum			
										Total	=	**1.3**	**cum**			
													@	**₹ 6,831.00**	**/cum**	**₹8,880.30**
5/5.1	Plain cement concrete works in foundation bed for footing steps, walls, brick works etc below plinth level as directed and specified including dewatering if necessary, and curing complete (shuttering where necessary shall be measured and paid separately).															
b	*1:03:06*															
	Platform	1	x	1	x	3	x	2	x	0.1	=	0.6	cum			
										Total	=	**0.6**	**cum**			
													@	**₹ 7,601.00**	**/cum**	**₹4,560.60**
6/6.11 (b)	Supplying, fitting and fixing in position reinforcement bars up to 1st floor level, conforming to relevant I.S. Code for R.C.C. work/RB walling including straightening, cleaning, cutting and bending to proper shapes and length as per details, supplying and binding with 20 G annealed black wire and placing in position with proper blocks, supports, chairs, spacers etc. complete. (b) High Yield Strength Deformed bars or Tor Bars															
Sl. No	**Items**	**Nos**				**L**		**No of bars**		**unit Weight**		**Qnty**		**Rate**	**Unit**	**Amount**
		Footing 10mm Dia Bar @100mm c/c														
	Jalli	4	x	2	x	1	x	11	x	0.62	=	54.56	kg			
		Column (300 x 300)mm 4#12mm dia bar														
	Main Bars	1	x	4	x	3.55	x	4	x	0.89	=	50.55	kg			
	8mm dia Stirrup bars @10cm c/c	1	x	4	x	1.2	x	30	x	0.395	=	56.88	kg			
		Beam (250 x 250)mm 4#12mm dia														
	Plinth Beam															
	Main Bars	1	x	4	x	3.5	x	4	x	0.89	=	49.84	kg			

	8mm dia Stirrups	1	x	4	x	1	x	29	x	0.395	=	45.82	kg			
	Beam															
	Main Bars	1	x	4	x	3.5	x	4	x	0.89	=	49.84	kg			
	8mm dia Stirrups	1	x	4	x	1	x	29	x	0.395	=	45.82	kg			
		Slab 10mm Dia Bar														
	10mm Dia Bars @100mm c/c spacing	1	x	1	x	3	x	32	x	0.62	=	59.52	kg			
		1	x	1	x	3	x	32	x	0.62	=	59.52	kg			
		Wall														
	12mm Dia Bars @100mm c/c	1	x	2	x	2.7	x	31	x	0.89	=	148.99	kg			
		1	x	2	x	2.7	x	31	x	0.89	=	148.99	kg			
	10mm Dia Bars @150mm c/c	1	x	2	x	3.5	x	18	x	0.62	=	78.12	kg			
		1	x	2	x	3.5	x	18	x	0.62	=	78.12	kg			
										Total	=	**926.56**	**kg**			
										or	=	**9.27**	**qntl**			
													@	**₹ 10,936.00**	**/qntl**	**₹1,01,329.04**
7/4.0	Centering and shuttering including strutting, propping etc. and removal of form for all heights complete and as directed by Engineer in charge.															
4.5	Columns, Pillars, Piers, Abutments, Posts and struts (using steel).															
	Columns	1	x	4	x	1.2	x	-	x	3.55	=	17.04	sqm			
										Total	=	**17.04**	**sqm**			
													@	**₹ 609.00**	**/sqm**	**₹10,377.36**
4.4	Lintels, beams, plinth beams, girders, bressumers and cantilevers (using steel).															
	Plinth Beam	1	x	4	x	3.5	x	0.75	x	-	=	10.5	sqm			
	Beam	1	x	4	x	3.5	x	0.75	x	-	=	10.5	sqm			
										Total	=	**21**	**sqm**			
													@	**₹ 486.00**	**/sqm**	**₹10,206.00**
4.3	Slabs, roofs, landings, balconies and access platform, shelves (using steel)															
	Slabs	1	x	1	x	3	x	3	x	-	=	9	sqm			

						3				**Total**	=	**9**	**sqm**			
													@	**₹ 581.00**	**/sqm**	**₹5,229.00**
4.2	Walls (any thickness) including attached pilasters, buttresses, plinth and string courses etc (using steel)															
	Walls	2	x	4	x	3.1	x	1.6	x	-	=	39.68	sqm			
										Total	=	**39.68**	**sqm**			
													@	**₹ 490.00**	**/sqm**	**₹19,443.20**
8/6.1	Providing and laying in position specified grade of reinforced cement concrete, excluding the cost Of centering, shuttering, finishing and reinforcement-All work upto plinth level															
b	M20 or 1:11/2:3 (1 cement: 11/2 coarse sand: 3 graded stone aggregate 20 mm nominal size)															
	Column	1	x	4	x	0.3	x	0.3	x	1.05	=	0.38	cum			
	Footings	1	x	4	x	1	x	1	x	0.2	=	0.8	cum			
		1	x	4	x	0.15/3 (1.00+0.09+0.30)					=	0.28	cum			
										Total	=	**1.46**	**cum**			
													@	**₹ 9,336.00**	**/cum**	**₹13,593.22**
9/6.2	Reinforced cement concrete work in walls (any thickness), including attached pillasters, butresses, fillets, columns, pillars, post and struts etc. above plinth level upto first floor level, excluding cost of centering, shuttering, finishing and reinforcement:															
b	M20 or 1:11/2:3 (1 cement: 11/2 coarse sand: 3 graded stone aggregate 20 mm nominal size)															
	Column	1	x	4	x	0.3	x	0.3	x	2.5	=	0.9	cum			
	Wall	1	x	2	x	2.9	x	0.2	x	1.85	=	2.15	cum			
		1	x	2	x	2.9	x	0.2	x	1.85	=	2.15	cum			
										Total	=	**5.19**	**cum**			
													@	**₹ 9,923.00**	**/cum**	**₹51,520.22**
10/6.3	Reinforced cement concrete work in beams, slab, roofs, having slope up to 15°, landings, balconies, shelve, chejjas, lintel, bands, plain window sills, staircase and spiral stair case above plinth level up to first floor level, excluding cost of centering and shuttering, finishing and reinforcement:															
b	*M20 or 1:11/2:3 (1 cement: 11/2 coarse sand: 3 graded stone aggregate 20 mm nominal size)*															
	Plinth Beam	1	x	4	x	2.9	x	0.25	x	0.25	=	0.73	cum			
	Beam	1	x	4	x	2.9	x	0.25	x	0.25	=	0.73	cum			
	Slab	1	x	1	x	3.5	x	3	x	0.1	=	1.05	cum			
										Total	=	**2.5**	**cum**			
													@	**₹ 10,335.00**	**/cum**	**₹25,837.50**
11/15.2	15mm cement plaster on rough side of single or half brick wall of mix:															

a	1:4 (1 cement: 4 fine sand)															
	Wall	2	x	4	x	3	x	-	x	2.95	=	70.8	sqm			
	Floor	1	x	1	x	2.6	x	2.6	x	-	=	6.76	sqm			
	Slab	1	x	2	x	3	x	3	x	-	=	18	sqm			
										Total	=	**95.56**	**sqm**			
													@	**₹ 277.00**	**/sqm**	**₹26,470.12**
12/16.11	Applying one coat of water thinnable cement primer of approved brand and manufacture on surfaces: Water thinnable cement primer															
	Wall	1	x	2	x	3	x	-	x	2.95	=	17.7	sqm			
		1	x	2	x	3	x	-	x	2.5	=	15	sqm			
	Slab	1	x	1	x	3	x	3	x	-	=	9	sqm			
										Total	=	**41.7**	**sqm**			
													@	**₹ 56.00**	**/sqm**	**₹2,335.20**
13/16.19	Wall painting with acrylic emulsion pain of approved brand and manufacture to give an even shade:															
	Wall	1	x	2	x	3	x	-	x	2.95	=	17.7	sqm			
		1	x	2	x	3	x	-	x	2.5	=	15	sqm			
	Slab	1	x	1	x	3	x	3	x	-	=	9	sqm			
										Total	=	**41.7**	**sqm**			
													@	**₹ 105.00**	**/sqm**	**₹4,378.50**
14/21.47 (a)	Providing and fixing C.P. brass bib cock of approved quality conforming to Is:8931:															
a	*15mm nominal bore*	1	x	2	x	-	x	-	x	-	=	**2**	**each**	**₹ 321.00**	**/each**	**₹642.00**
15/21.13	Providing and fixing G.I. pipes complete with G.I. fittings including trenching and refilling etc.															
v	*40mm Diameter nominal bore*	1	x	1	x	25	x	-	x	-	=	**25**	**Rm**	**₹ 476.00**	**/Rm**	**₹11,900.00**
16/21.18	Providing and fixing gun metal gate valve with C.I, wheel of approved quality (screwed end):															
d	*40mm Diameter nominal bore*	1	x	1	x	-	x	-	x	-	=	**1**	**each**	**₹ 689.00**	**/each**	**₹689.00**
17/21.44	Providing and fixing G.I. Union in G.I. pipe including cutting and threading the pipe and making long screws etc. complete (New work):															
a	*15mm nominal bore*	1	x	1	x	-	x	-	x	-	=	**1**	**each**	**₹ 234.00**	**/each**	**₹234.00**

18/8.1 (a)	Random rubble masonry with hard stone in foundation and plinth including levelling up with cement concrete 1:6:12 (1cement: 6 coarse sand: 12 graded stone aggregate 20 mm nominal size) up to plinth level with: (a) Cement mortar 1 :6														
	Plinth wall	1	x	4	x	3	x	0.4	x	0.7	=	**3.36**	**cum**	**₹ 6,098.00**	**/cum**	**₹20,489.28**
															Total =	**₹3,28,042.22**
															Deducting 15% contractors profit =	*₹49,206.33*
															Grand Total =	**₹2,78,835.89**
															Say=	**₹278,847.00**
(Rupees Two Lakhs Seventy Eight Thousand Eight Hundred Forty Seven Only)																

ESTIMATE FOR CONSTRUCTION OF PCC CIRCULAR PLATFORM & 2 LAYERED PLASTIC TANK UNDER MegLIFE

(Based as per Chief Engineer PWD (Buildings) Meghalaya Schedule of Rates 2021-2022)

DETAILED ESTIMATE FOR 1 NO OF PLASTIC TANK

Sl. No	Items	Nos		L		B		D		Quantity		Rate	Unit	Amount
2/12.5	Providing soling with stone/ best quality picked jhama brick, sand packed and laid to level and in panel after preparing the subgrade as directed including all labour and materials and if necessary dewatering, complete.													
b.	*(i)100mm*													
		1	x			1.7	x	-	=	**1.7**	**sqm**			
											@	**₹ 415.00**	**/sqm**	**₹705.50**
3/4.11	Shuttering in circular work (Using Timber)													
	Platform													
		1	x	4.2				0.1	=	**0.42**	**sqm**			
											@	**₹174.00**	**/sqm**	**₹73.08**
4/5.1	Plain cement concrete works in foundation bed for footing steps, walls, brick works etc below plinth level as directed and specified including dewatering if necessary, and curing complete (shuttering where necessary shall be measured and paid separately).													
a.	*1:04:08*													
	Tank Platform	1	x			1.7	x	0.1	=	0.17	cum			
								Total	=	**0.17**	**cum**			
											@	**₹ 6,831.00**	**/cum**	**₹1,161.27**
5/15.1	12 mm cement plaster of mix													
a	*1:4 (1 cement: 4 fine sand)*													
	Tank Platform	1	x			1.7	x	-	=	1.7	sqm			
	Side Wall	1	x	4.2	x	-	x	0.12	=	0.50	sqm			
								Total	=	**2.20**	**sqm**			
											@	**₹ 242.00**	**/sqm**	**₹533.37**
7/21.17	Providing and fixing brass bib cock of approved quality:													

b	*20mm nominal bore*	1	x	-	x	-	x	-	=	1	**each**	**₹388.00**	**/each**	**₹388.00**
8/21.18	Providing and fixing gun metal gate valve with C.I, wheel of approved quality (screwed end):													
a	*25mm nominal bore*	1	x	-	x	-	x	-	=	1	**each**	**₹ 506.00**	**/each**	**₹506.00**
9/21.19	Providing and fixing ball valve (brass) of approved quality, High or low pressure, with plastic floats complete:													
c	*25mm nominal bore*	1	x	-	x	-	x	-	=	1	**each**	**₹ 420.00**	**/each**	**₹420.00**
10/21.14	Making Connection of GI distribution branch with GI main of following sizes by providing and fixing tee, including cutting and threading the pipe etc. complete													
a	*15mm to 40mm nominal bore*	1	x	-	x	-	x	-	=	1	**each**	**₹ 579.00**	**/each**	**₹579.00**
11/21.13	Providing and fixing G.I. pipes complete with G.I. fittings including trenching and refilling etc.													
v	*40mm Diameter nominal bore*	1	x	2	x	-	x	-	=	1	**Rm**	**₹ 476.00**	**/Rm**	**₹476.00**
12/16.8	Distempering with dry distemper of approved brand and manufacture to give an even shade													
	Tank Platform	1	x	1.7			x	-	=	1.7	sqm			
	Side Wall	1	x	4.2	x	-	x	0.1	=	0.42	sqm			
										2.12	**sqm**			
											@	**₹140.00**	**/sqm**	**₹296.80**
13/16.19	Wall painting with acrylic emulsion paint of approved brand and manufacture to give an even shade :													
	New work													
	Tank Platform	1	x	1.7			x	-	=	1.7	sqm			
	Side Wall	1	x	4.2	x	-	x	0.1	=	0.42	sqm			
										2.12	**sqm**			
											@	**₹70.00**	**/sqm**	**₹148.40**
													Total =	**₹5,248.42**
													Deducting 15% contractors profit =	*₹787.26*
													Total after Deduction=	**₹4,461.16**
													Adding cost of Syntex, 2000L (1No) =	*₹15,000.00*
													Total =	**₹19,461.16**

	Board =	₹5,000.00
	Grand Total =	**₹24,461.16**
	Say=	**₹24,461.00**
(Rupees Twenty Four Thousand Four Hundred Sixty One Only)		

QUANTITY OF MATERIALS FOR SWC STRUCTURES

RCC TANK

Cement Bags			
1:04:08	1.33	0.10	
1:03:06	0.60	0.06	
1:1.5:3	1.46	0.27	
	5.19	0.94	
	2.50	0.45	
1:4	95.56	19.11	
		20.94	Tons
		30	Bags

Bars		
	Kg	Qtl
10mm Dia	329.84	3.30
12mm Dia	448.21	4.48
8mm Dia	148.52	1.49

CIRCULAR PLATFORM

Cement Bags			
1:04:08	0.18	0.01	
1:4	2.71	0.54	
		0.56	Tons
		1	Bags

Cement Bags (S)			
1:03:06	0.36	0.04	
1:02:04	0.93	0.13	
1:1.5:3	1.02	0.19	
1:6	32.00	6.40	
		6.75	Tons
		10	Bags

Bars (S)		
	Kg	Qtl
10mm Dia	34.69	0.35
12mm Dia	135.79	1.36
8mm Dia	66.15	0.66

Cement Bags (B)			
1:03:06	0.54	0.05	
1:02:04	0.98	0.14	
1:1.5:3	1.15	0.21	
1:6	34.00	6.80	
		7.20	Tons
		10	Bags

Bars (B)		
	Kg	Qtl
10mm Dia	42.18	0.42
12mm Dia	146.67	1.47
8mm Dia	97.19	0.97