DIMENSION	QUANTITY	UNIT	DESCRIPTION
			SUB-STRUCTURE
			1. 0 EXCAVATION & EARTH WORK
25.9			Clear and remove top soil to an average depth of 20 cm.
14.23			
	368.56	m^2	TOTAL AREA
24.9			Bulk excavation in ordinary soil to reduce levels to the designed level up to 500mm .
13.23			
0.5	164.71	m^2	TOTAL AREA
73.71			#NAME?
164.71			
89.55			
	327.97	m^3	
73.71			Fill around footing and foundation columns
164.71			
89.55			
	327.97	m^3	
27.73			Deduction
2.02			
7.71			
	-37.46	m^3	
	290.51	m^3	TOTAL VOLUME
23.9			25cm basaltic stone hard core under concrete floor
12.23			
	292.30	m^2	
2.02			Deduction
15.4			
	-17.42	m^2	
	274.88	m^2	TOTAL AREA
			2)CONCRETE WORK
			Reinforced concrete grade C-25 concrete (laboratory tested) cast into formworks and vibrated around rod reinforcement bars. (Steel reinforcement and formworks measured
			I) Grade beam
0.2		m^3	GB-1

0.4			
10.95			
	2.63		TOTAL VOLUME OF GB-1
0.2		m^3	GB-2
0.4			
10.45			
	2.51	m^3	TOTAL VOLUME OF GB-2
0.2		m^3	GB-3
0.4			
23.25			
	5.58	m^3	TOTAL VOLUME OF GB-3
	10.72	m^3	TOTAL VOLUME OF ALL THE GRADE BEAM
			II) Footing
0.6		m^3	F-1
1.7			
2.5			
	15.3	m^3	
0.45		m^3	F-2
1.3			
1.95			
	11.41	m^3	
0.35			F-3
1			
1.45			
	1.015	m^3	
	27.7225	m^3	TOTAL VOLUME OF ALL THE FOOTING
			III) FOUNDATION COLUMN
1.35		m^3	
0.45			
0.25			
	2.73		
	2.73	m^3	TOTAL VOLUME FOUNDATION COLUMN
			50mm lean concrete quality C-5, 150 kg of cement/m3: under
			under foundation pad
1.75			F-1
2.55			

	26.78	m²	
1.35			F-2
2			
	27.00	m²	
1.05			F-3
2			
	3.15	m²	
	56.93	m²	TOTAL AREA of lean concrete
			under grade beam
0.2			GB-1
10.95			
	6.57		
0.2			GB-2
10.45			
	6.27		
0.2			GB-3
23.25			
	13.95		
	26.79	m²	TOTAL AREA of lean concrete
			3. MASONRY WORKS
			500mm thick hard trachytic roughly dressed stone masonry foundation wall below ground level bedded in cement mortar mix ratio (1:3)
23.25			
0.7			
	16.275	m²	
10.38			
0.7			
	7.266		
14.08		m²	
0.7			
	9.856		
14.08		m²	
0.7			
	9.856	m²	

0.5		m²	
0.7			
	0.35	m²	
9.5		m²	
0.7			
	6.65	m²	
10.95		m²	
0.7			
	7.665	m²	
	28.96	m²	TOTAL MASONARY WORK
	44.65	m	10mm thick expansion joint filler under grade beam
			4. Provide, cut and fix in position sawn zigba wood or steel formwork which ever appropriate.
			a)Grade beam
0.2		m²	GB-1
0.4			
10.95			
	39.42	m²	TOTAL AREA OF GB-1
0.2		m²	GB-2
0.4			
10.45			
	37.62	m²	TOTAL AREA OF GB-2
0.2		m²	GB-3
0.4			
23.25			
	83.70	m²	TOTAL AREA OF GB-3
	160.74	m²	TOTAL AREA OF Grade beam
			founadtion pad
2.5			F-1
1.7			
0.65			
	30.00	m²	
1.95			f-2
1.3			
0.5			
	32.50	m²	

1.45			f-3
1			
0.4			
	3.12	m^2	
	65.62	m^2	TOTAL AREA
			foundation column
0.26			F-1
0.5			
0.85			
	7.80	m^2	
0.26			F-2
0.5			
1			
	15.20	m^2	
0.26			F-3
0.5			
1.1			
	3.40	m^2	
	26.40	m^2	TOTAL AREA
	9.16	m^2	STEPS
			SUPER STRUCTURE
			1)CONCRETE WORK
			Reinforced concrete grade C-25 concrete (laboratory tested) cast into formworks and vibrated around rod reinforcement bars. (Steel reinforcement and formworks measured
			I)First floor beam
0.2		m^3	FB-1
0.4			
10.95			
	2.63		TOTAL VOLUME OF FB-1
0.2		m^3	FB-2
0.4			
10.45			
	2.51	m^3	TOTAL VOLUME OF FB-2
0.2		m^3	FB-3
0.4			

23.25			
	5.58	m^3	TOTAL VOLUME OF FB-3
	10.72	m^3	TOTAL VOLUME OF ALL THE FIRST BEAM
			II) Top tie beam
0.2		m^3	TB-1
0.4			
10.95			
	2.63		TOTAL VOLUME OF TB-1
0.2		m^3	TB-2
0.4			
10.45			
	2.51	m^3	TOTAL VOLUME OF TB-2
0.2		m^3	TB-3
0.4			
23.25			
	5.58	m^3	TOTAL VOLUME OF TB-3
	10.72	m^3	TOTAL VOLUME OF ALL THE TOP TIE BEAM
			III)STAIR BEAM
0.2		m^3	STB1 AND STB2
0.4		m^3	
2.75		m^3	
	0.44	m^3	VOLUME OF STB1
		m^3	B) COLUMN Reinforced concrete grade C-25 concrete (laboratory tested) cast into formworks and vibrated around rod reinforcement bars. (Steel reinforcement and formworks measured separately).
0.25		m^3	C1
0.45			
6.9			
	6.21	m^3	VOLUME OF C1
0.25		m^3	C2
0.45			
9.4			
	4.23	m^3	VOLUME OF C2

0.25		m^3	C3
0.45			
6.9			
	0.78	m^3	VOLUME OF C3
3.14		m^3	C4 (cirular column area= $\prod R^2$)
0.04			
6.9			
	2.60	m^3	VOLUME OF C4
	13.82	m^3	TOTAL VOLUME OF COLUMNS
			VI) Slab
			Reinforced concrete grade C-25 concrete (laboratory tested) cast into formworks and vibrated around rod reinforcement bars. (Steel reinforcement and formworks measured separately).
			a) Ground slab
6.23			b/n axis 1-2, 2-3 & A-B
4.5			
0.15			
	8.41	m^3	VOLUME
4.73			b/n axis 1-2, 2-3 & B-C
4.73			
0.15			
	6.71	m^3	VOLUME
5.73			b/n axis 3-4 & A-B
2.5			
0.15			
	14.33	m^3	VOLUME
4.73			b/n axis 3-4 & B-C
2.5			
0.15			
	11.83	m^3	VOLUME
5.73			b/n axis 4-5 & A-B
5.5			
0.15			
	4.73	m^3	VOLUME
4.73			b/n axis 4-5 & B-C
5.5			

0.15			
	3.90	m^3	VOLUME
5.73			b/n axis 5-6 & A-B
4.5			
0.15			
	3.87	m^3	VOLUME
4.73			b/n axis 5-6 & B-C
4.5			
0.15			
	3.19	m^3	VOLUME
10.44			under axis 6 (balcony)
1.65			
0.15			
	2.58	m^3	VOLUME
	59.55	m^3	TOTAL VOLUME OF GROUND FLOOR
			b) Floor slab
6.23			b/n axis 1-2, 2-3 & A-B
4.5			
0.15			
	8.41	m^3	VOLUME
4.73			b/n axis 1-2, 2-3 & B-C
4.73			
0.15			
	6.71	m^3	VOLUME
5.73			b/n axis 3-4 & A-B
2.5			
0.15			
	14.33	m^3	VOLUME
4.73			b/n axis 3-4 & B-C
2.5			
0.15			
	11.83	m^3	VOLUME
5.73			b/n axis 4-5 & A-B
5.5			
0.15			
	4.73	m^3	VOLUME
4.73			b/n axis 4-5 & B-C

5.5			
0.15			
	3.90	m^3	VOLUME
5.73			b/n axis 5-6 & A-B
4.5			
0.15			
	3.87	m^3	VOLUME
4.73			b/n axis 5-6 & B-C
4.5			
0.15			
	3.19	m^3	VOLUME
10.44			under axis 6 (balcony)
1.65			
0.15			
	2.58	m^3	VOLUME
	59.55	m^3	Volume of floor slab
			c) Flat roof
5.73			b/n axis 3-4 & A-B
2.5			
0.15			
	14.33	m^3	VOLUME
4.73			b/n axis 3-4 & B-C
2.5			
0.15			
	11.83	m^3	VOLUME
5.73			b/n axis 4-5 & A-B
5.5			
0.15			
	4.73	m^3	VOLUME
4.73			b/n axis 4-5 & B-C
5.5			
0.15			
	3.90	m^3	VOLUME
5.73			b/n axis 5-6 & A-B
4.5			
0.15			
	3.87	m^3	VOLUME

4.73			b/n axis 5-6 & B-C
4.5			
0.15			
	3.19	m^3	VOLUME
10.44			under axis 6 (balcony)
1.65			
0.15			
	2.58	m^3	VOLUME
	44.42	m^3	TOTAL FLAT SLAB VOLUME
			VII) Stairs
		m^3	Reinforced concrete grade C-25 concrete (laboratory tested) cast into formworks and vibrated around rod reinforcement bars. (Steel reinforcement and formworks measured separately).
			b/n axis B&C and 3&4
3.35			1) Soffit
1.1			
0.15			
	2.21	m^3	VOLUME
0.15			2) Tread and riser
0.15			
1.1			
	0.99	m^3	VOLUME
2.4			3)Landing
1.3			
0.15			
	0.94	m^3	VOLUME
	4.14		TOTAL VOLUME
			b/n 3&4 left of axis A
1.4			1) Soffit
2.6			
0.15			
	0.55	m^3	VOLUME
0.15			2) Tread and riser
0.15			
2.6			
	0.23	m^3	VOLUME

			b/n B&C below of axis 6
1.4			1) Soffit
3			
0.15			
	0.63	m^3	VOLUME
0.15			2) Tread and riser
0.15			
3			
	0.27	m^3	VOLUME
	9.95	m^3	TOTAL STAIR VOLUME
2.74		m^3	VIII) Water tank slab
4.3			
0.15			
	1.77	m^3	TOTAL WATER SLAB VOLUME
0.35		m^3	VIIII) Gutter
0.15			`
9.25			
	0.97	m^3	
0.6			
0.15			
9.25			
	1.67		
	4.40	m^3	TOTAL VOLUME OF GUTTER CONCRETE
		m^2	Provide, cut and fix in position sawn zigba, steel, panel wood or appropriate formwork thereto.Forms shall be constructed to fare faced, the exact sizes, shapes lines and dimensions shown and as required to obtain accurate alignment, location grade, level and plumb work in finished structures. Provision shall be made for openings, offset, sinking, keyways, recesses, moldings, reglets,
		m^2	a) To elevation columns /The form shall be made chamfered at internal edges to create nosing in the concrete column edges/.
0.25		m^2	C1
0.45			
6.9			
	77.28	m^2	TOTAL AREA OF C1

0.25		m²	C2
0.45			
9.25			
	51.8	m²	TOTAL AREA OF C2
0.25		m²	C3
0.45			
6.9			
	9.66	m²	TOTAL AREA OF C3
2		m²	C4 Circular column P=2∏r
3.14			
0.2			
	3.77		
	142.508	m²	TOTAL AREA OF COLUMN FORMWORK
			b) First floor beam
0.05		m²	FB-1
0.4			
10.95			
	29.57	m²	TOTAL AREA OF FB-1
0.05		m²	FB-2
0.4			
10.45			
	28.22	m²	TOTAL AREA OF FB-2
0.05		m²	FB-3
0.4			
23.25			
	62.78	m²	TOTAL AREA OF FB-3
	120.56	m²	TOTAL AREA OF first floor beam
			c) Top tie beam
0.2		m²	TB-1
0.4			
10.95			
	13.14	m²	TOTAL AREA OF TB-1
0.05		m²	TB-2
0.4			
10.45			
	28.22	m²	TOTAL AREA OF TB-2
0.2		m²	TB-3
0.4			

9.25			
	33.30	m²	
0.05		m²	`TB-3
0.4			
1.4			
	3.78	m²	
	78.44	m²	TOTAL AREA OF Top tie beam
			d) Slab
			First floor slab
10.95			fond b/n axis A-C & 1-3
9.2			
	100.74	m²	
0.25			deduct column size (0.25m*0.45m)
0.45			
	-0.68	m²	
	100.07	m²	TOTAL AREA OF fond b/n axis A-C & 1-3
14			fond b/n axis A-C & 3-6 and below axis-6
10.45			
	146.30	m²	
0.25			deduct column size (0.25m*0.45m)
0.45			
	-0.45	m²	
3.14			deduct column size of diameter=0.4m
0.04			
	-0.38	m²	
	145.47	m²	TOTAL AREA OF fond b/n axis A-C & 3-6 and belowaxis-6
			Side formwork
9.65			left side of axis A
0.15			
	1.45	m²	
23.24			
0.15			on axis C
	3.49	m²	
14			on axis A b/n axis 3-6
0.15			
	2.10	m²	

10.45			on axis-1
0.15			
	1.57	m²	
10.4			below axis-6
0.15			
	1.56	m²	
	10.16	m²	TOTAL SIDE FORMWORK
			flat roof
10.45			fond b/n axis A-C & 3-6
14			
	146.30	m²	
31.5			deduct stair opening
2.75			
	-86.63		
	59.68	m²	TOTAL AREA OF fond b/n axis A-C & 3-6 a
35.7			Side formwork on flat roof
0.15			
	5.36	m²	
			e) Gutter & toptie beam on axis A & C
2.45			
9.25			
	45.33	m²	
			f) stair
			b/n 3&4 left of axis A
1.1			1) Soffit
3.35			
	14.74	m²	AREA
0.3			2) Side stair formwork
3.35			
	8.04	m²	AREA
1.1			2) Tread and riser
0.15			
	3.30	m²	AREA
	26.08		TOTAL AREA OF FORMWORK OF STAIR
	`		g) Water tank formwork

2.5			fond
4.5			
	11.25	m²	
			Side formwork
13			
0.15			
	3.90	m²	
			3)BLOCK WORK
			20cm thick Class B external HCB wall which can satisfy the designed strength , bedded in cement mortar (1:3).Price shall include mortar bedding.
			Ground floor
7.8			BEDROOM 1
2.6			
	18.10	m²	AREA
7.37			BEDROOM 2
2.6			
	17.00	m²	AREA
3			BEDROOM 3
2.6			
	5.63	m²	AREA
3.62			BEDROOM 4
2.6			
	7.20	m²	AREA
4.33			HALLWAY
2.6			
	9.76	m²	AREA
11.75			CAFÉ
2.6			
	20.00	m²	AREA
12.91			SHOPS
2.6			
	25.00	m²	AREA
	102.69		TOTAL AREA
			First floor
8.63			BEDROOM 1
2.6			

	20.12	m²	AREA
8.24			BEDROOM 2
2.6			
	19.17	m²	AREA
3			BEDROOM 3
2.6			
	5.63	m²	AREA
3.77			BEDROOM 4
2.6			
	7.55	m²	AREA
2.28			HALLWAY
2.6			
	4.43	m²	AREA
27.51			RESTAURANT
2.6			
	49.93	m²	AREA
	106.83	m²	TOTAL AREA OF HCB ON FIRST FLOOR
			Flat roof
49.05			TERRACE
1.2			
	58.86	m²	
7.2			TANKER
1.2			
	8.64		
	67.5	m²	TOTAL AREA OF HCB ON FLAT ROOF
	277.0	m²	TOTAL 20 HCB ON BUILDING
			Ditto as Item 2.01 but for150mm HCB guard wall
			Ground slab
3.75			BEDROOM 1
2.85			
	10.67	m²	
3.75			BEDROOM 2
2.85			
	10.67	m²	
4			BEDROOM 3

2.85			
	11.54	m²	
4			BEDROOM 4
2.85			
	11.54	m²	
14.14			HALLWAY
2.85			
	10.67	m²	
7.35			RECEPTION AREA
2.85			
	20.95	m²	
9.2			STAIR AREA
2.85			
	26.22	m²	
4.74			CAFÉ REST ROOM
2.85			
	13.51	m²	
5.38			SHOP 1
2.85			
	15.33	m²	
3.95			TOILET 2
2.85			
	10.82	m²	
4.07			TOILET 3
2.85			
	11.20	m²	
4			TOILET 4
2.85			
	10.77	m²	
	163.89	m²	TOTAL AREA ON GROUND FLOOR
			First floor slab
3.75			BEDROOM 1
2.85			
	10.67	m²	
3.75			BEDROOM 2

2.85			
	10.67	m²	
4			BEDROOM 3
2.85			
	11.54	m²	
4			BEDROOM 4
2.85			
	11.54	m²	
14.14			HALLWAY
2.85			
	10.23	m²	
3.85			TOILET 1
2.85			
	10.53	m²	
3.95			TOILET 2
2.85			
	10.82	m²	
4			TOILET 3
2.85			
	11.20	m²	
3.92			TOILET 4
2.85			
	10.77	m²	
7.35			RECEPTION AREA
2.85			
	20.95	m²	
9.2			STAIR AREA
2.85			
	26.22	m²	
5.25			RESTRAURANT KITCHEN
2.85			
	14.96	m²	
10.39			RESTRAURANT TOILET
2.85			
	29.61	m²	
	189.71	m²	TOTAL AREA ON FLOOR FLOOR

	353.60		TOTAL 15 HCB ON BUILDING
			4) Roof
			All structural truss members shall be in seasoned Eucalyptus wood and coated with wood preservative solution and firmly fixed with nails and band iron. Truss shall be tied with Dia. 6mm plain bar to top tie beam.
			A) 3cm thick cement sand screed over light weight pumice
22.9	68.70	m	A.500*400mm LOWER CORED
11.85	71.10	m	B.100*70 mm upper chord/rafter/
10.67	64.02	m	C.VERTICAL TRUSS MEMBER
12.57	75.42	m	D.INCLINED TRUSS MEMBER
18	360.00	m	E. 70*50 zigba purlin c/c 90mm
	2980.00	pcs	F, washer
	2980.00	pcs	G , dome headed nail
	42.00	m	h, Down pipe
	84.00	pcs	J , metal bracket 2pcs/m
	39.60	m	k, fascia board with 10% wastage
	42.86	m	l. flashing
22.9			1.38m^2 corrugated iron sheet
18			
	412.20	m^2	
			5) Aluminium work
			Aluminium framed windows, top windows,window doors and doors As per iso standard aluminium frame profile thickness should be 2mm anodized thickness 15-25 micro unit , & all fixing accessories should be of same standard as that of the profile . Complete work according to suppliers instruction. Price includes 6mm thick non reflective clear glass
			Windows
	14	no	W-1 1500mm x1500mm
	6	no	W-2 1000mm x 400mm
	2	no	W-3 1000mm x 1500
	4	no	W-4 2500mm x 2600mm
			Doors
	12	no	D-1 850mm x 2600mm

	16	no	D-2 700mm x 2600mm
	2	no	D-3 1300mm x 2600mm
	2	no	D-4 1250mm x 2600mm
	8	no	D-5 850mm x 2600mm
	24.33	m	Supply and fix Ø50mm CHS hand rail(2mm thick) of 40x40x2mm RHS Post Anchored to the slab, 40X40X2mm RHS handrail in two rows horizontally and 30X20X2mm Vertical C/C spacing 228mm price shall include one coats of antirest paint two coats of synthatic enamel paint and necessary works and material to full fill the jobs.
			6) finishing
			Finishing work shall includes all surface pre cleaning, preparation of finish, polishing and cleaning at the end of finishing work. Apply two coats of plaster in cement mortar to
			A) External exposed concrete & concrete block wall surface
	102.13	m^2	Ground floor
	106.89	m^2	First floor
	67.50	m^2	Flat roof
	276.52	m^2	TOTAL AREA
			B) Internal exposed concrete & concrete block wall surface
	198.58	m^2	Ground floor
	197.59	m^2	First floor
	396.17	m^2	TOTAL AREA
			C) Concrete ceiling surface
10.38			Ground & First Floor
14.12			
	293.13	m^2	
9.00			stair
10.95			
	197.10	m^2	
2.30			Landing
1.30			

	5.98	m²	
			water tanker concrete ceiling
2.50			
4.50			
	11.25	m²	
2.30			deduction
4.70			
	-21.62	m²	
	485.84	m²	
	501.92	m²	total area
			Apply fine coat of fine cement sand plaster to internal plastered surface
	198.58	m²	Ground floor
	197.59	m²	First floor
	396.17	m²	TOTAL AREA
			Gypsum plastering to all internal plastered surface
	198.58	m²	Ground floor
	197.59	m²	First Floor
	396.17	m²	TOTAL AREA
			Gypsum board suspended ceiling nailed on & including 4x4cm zigba batten at c/c60cm both ways price includes corner list & all suspension material complete work
11.45			roof on axis 1-3 b/n A-C
9.25			
	105.91	m²	
			6mm thick glazed ceramic wall tile bedded on & including cement mortar backing and joints grouted in white cement.
29.36			Total bathwork
1.7			
	99.82	m²	
8.43			kitchen
1.7			
	14.33	m²	

10.03			toliet
1.7			
	34.10	m^2	
	148.26	m^2	TOTAL cermaic wall area
			9mm thick non slippery ceramic floor tile bedded on and including 50mm thick cement sand screed and joints grouted .
1.40			
1.48			
	2.07	m^2	
1.30			
1.48			
	1.92	m^2	
1.20			
3.35			
	8.04	m^2	
1.27			
3.35			
	8.51	m^2	
1.20			
3.25			
	7.80	m^2	
1.27			
3.25			
	8.26	m^2	
1.93			
3.05			
	-11.77	m^2	Deduct rest room
2.00			
3.05			
	-6.10	m^2	Deduct WC
	18.73	m^2	Total area
	155.10	m	#NAME?

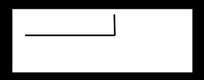
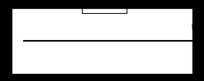
	149.55	m	#NAME?
	117.84	m	Perquet skirting
			#NAME?
1.50			
10.38			
	31.14	m^2	Corridor
1.55			Corridor
12.40			
	38.44	m^2	
2.30			Corridor
4.00			
	18.40	m^2	
1.00			Corridor
9.23			
	18.46	m^2	
1.20			Balcony
1.28			
	3.07	m^2	
1.15			
1.28			
	2.94	m^2	Balcony
6.70			
8.45			
	56.62	m^2	Restaurant
3.00			
3.88			
	11.64	m^2	Shop
3.00			
4.37			
	13.11	m^2	Shop
0.15			
1.10			
	1.98	m^2	Riser
0.30			

1.10			
	3.63	m²	trade
1.30			landing
3.20			
	4.16	m²	
1.40			
1.48			
	2.07	m²	Deduct rest room
1.30			
1.48			
	1.92	m²	Deduct WC
1.93			
3.05			
	-11.77	m²	Deduct rest room
2.00			
3.05			
	-6.10	m²	Deduct WC
	189.71	m²	TOTAL AREA
			7) Painted
			Quartz
	396.17	m²	#NAME?
			Prepare and apply by brush three coats of synthetic enamel paint to:-
	209.02	m²	A)Internal plastered wall surface
	293.13	m²	B)plastered ceiling surface
	197.10	m²	C) plastered stair case belly & sides surface
	293.13	m²	D)Gypsum board ceiling surface
			8) Glazing
			Windows
2.28	31.92	m²	W-1 1500mm x1500mm
0.6	3.60	m²	W-2 1000mm x 400mm
1	2.00	m²	W-3 1000mm x 1500
2	8.00	m²	W-4 2500mm x 2600mm
			Doors

1.2	9.60	m^2	D-1 850mm x 2600mm
1	1.00	m^2	D-2 700mm x 2600mm
	51.72	m^2	TOTAL GLAZING

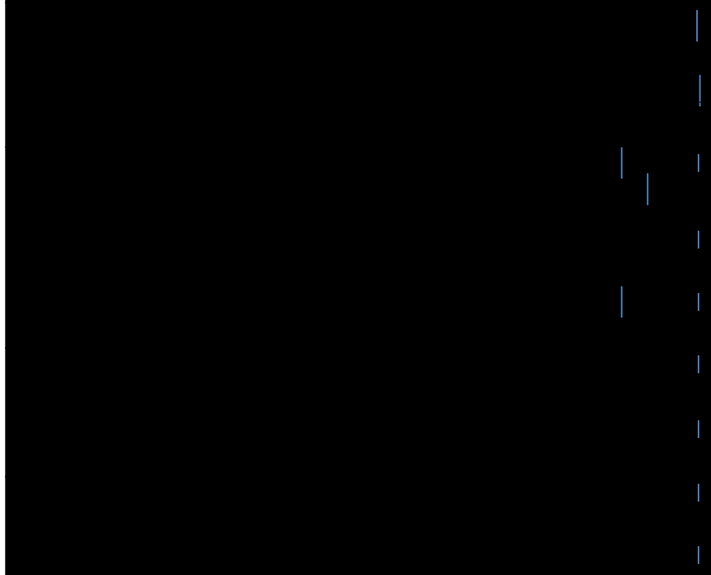
BAR SCHEDULE

Sub structure

Location	Ref no	Bar Shape	Dia	c/c	Length	No of Bars			Total length	Dia 8	Dia 10	Dia 12	Dia 14	Dia 16	Dia 18	Dia 20.00	unit
FOOTING																	
longtudinal			20	0	#	6	1	6								122.40	m
			20			7	1	6	109.20	-	-	-	-	-	-	109.20	m
			20			6	1	10	153.00							153.00	
			20			4	1	10	76.00							76.00	
			20			3	1	2	12.60							12.60	
			20			3	1	2	15.00	-	-	-	-	-	-	15.00	**m**
									Total length [m]	0.00	0.00	0.00	0.00	0.00	0.00	488.20	**m**
									Unit weight	0.394	0.616	0.888	1.208	1.578	1.997	2.466	**kg/m**
									Total weight [kg]	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**1204.00**	**kg**
C 1						1	10		**312.00**	-	-	-	-	-	-	**312.00**	**m**
stirup						1	10		**134.88**	-	**134.88**	-	-	-	-		**m**
C 2						1	4		**156.00**	-	-	-	-	-	-	**156.00**	**m**
stirup						1	4		**52.00**	-	**52.00**	-	-	-	-		**m**
C 3						1	1		**31.20**	-	-	-	-	-	-	**31.20**	**m**
stirup						1	1		**13.00**	-	**13.00**	-	-	-	-		**m**
C 4						1	3		**70.20**	-	-	-	-	**70.20**	-	-	**m**
stirup						1	3		**39.00**	-	**39.00**	-	-	-	-		**m**
									Total length [m]	0.00	238.88	0.00	0.00	70.20	0.00	499.20	**m**
									Unit weight	0.394	0.616	0.888	1.208	1.578	1.997	2.466	**kg/m**
									Total weight [kg]	**0.00**	**147.00**	**0.00**	**0.00**	**111.00**	**0.00**	**1231.00**	**kg**

GRADE BEAM				-			-	-	-	-	-				
	1	3		**63.90**	-		-	-		**63.90**	-	-	**m**		
	1	3		**6.00**	-		-	-		**6.00**	-	-	**m**		
	1	3		**68.10**	-		-	-		**68.10**	-	-	**m**		
	1	3		**180.00**	**180.00**		-	-	-	-	-	-	**m**		
	1	3		**75.60**	**75.60**		-	-	-	-	-	-	**m**		
	1	3		**60.00**	-		-	-		**60.00**	-	-	**m**		
	1	3		**6.00**	-		-	-		**6.00**	-	-	**m**		
	1	3		**64.50**	-		-	-		**64.50**	-	-	**m**		
	1	3		**162.00**	**162.00**		-	-	-	-	-	-	**m**		
	1	3		**57.60**	**57.60**		-	-	-	-	-	-	**m**		
	1	3		**45.78**	-		-	-		**45.78**	-	-	**m**		
	1	3		**139.44**	-		-	-		**139.44**	-	-	**m**		
	1	3		**86.40**	-		-	-		**86.40**	-	-	**m**		
	1	3		**324.00**	**324.00**		-	-	-	-	-	-	**m**		
	1	3		**230.40**	**230.40**		-	-	-	-	-	-	**m**		
	Total length [m]				1029.60	0.00	0.00	0.00		540.12	0.00	0.00	**m**		
	Unit weight				0.394	0.616	0.888	1.208		1.578	1.997	2.466	**kg/m**		
	Total weight [kg]				**406.00**	**0.00**	**0.00**	**0.00**		**852.00**	**0.00**	**0.00**	**kg**		
GROUND FLOOR SLAB MESH				-			-	-	-	-	-				
	1	2		**171.11**	**171.11**		-	-	-	-	-	-	**m**		
	1	2		**114.26**	**114.26**		-	-	-	-	-	-	**m**		
	1	1		**57.13**	**57.13**		-	-	-	-	-	-	**m**		
	1	1		**57.13**	**57.13**		-	-	-	-	-	-	**m**		
	1	1		**85.56**	**85.56**		-	-	-	-	-	-	**m**		
	1	1		**17.41**	**17.41**		-	-	-	-	-	-	**m**		
	1	1		**57.13**	**57.13**		-	-	-	-	-	-	**m**		
	1	1		**17.41**	**17.41**		-	-	-	-	-	-	**m**		
	1	1		**85.56**	**85.56**		-	-	-	-	-	-	**m**		
	1	1		**85.56**	**85.56**		-	-	-	-	-	-	**m**		
	1	1		**85.56**	**85.56**										
	1	1		**57.13**	**57.13**										
	1	1		**85.56**	**85.56**										
	1	1		**57.13**	**57.13**										
	1	1		**57.13**	**57.13**		-	-	-	-	-	-	**m**		
	1	1		**57.13**	**57.13**		-	-	-	-	-	-	**m**		
	Total length [m]				1147.89	0.00	0.00	0.00	0.00	0.00	0.00		**m**		
	Unit weight				0.394	0.616	0.888	1.208	1.578	1.997	2.466		**kg/m**		
	Total weight [kg]				**453.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**		**kg**		
	Total weight [kg] for Sub				**859.00**	**147.00**	**0.00**	**0.00**	**963.00**	**0.00**	**2435.00**		**kg**		

SUPER STRUCTURE



-	-	-	-	-	-	-	344.00	m
-	-	224.25	-	-	-	-	-	m
-	-	-	-	-	-	-	288.00	m
-	-	256.75	-	-	-	-	-	m
-	-	-	-	-	-	-	137.60	m
-	-	93.60	-	-	-	-	-	m
-	-	-	-	-	-	-	137.60	m
-	-	93.60	-	-	-	-	-	m
-	-	-	-	-	-	-	115.20	m
-	-	104.00	-	-	-	-	-	m
-	-	-	-	-	-	-	43.00	m
-	-	23.73	-	-	-	-	-	m
-	-	-	-	-	-	-	36.00	m
-	-	23.40	-	-	-	-	-	m
-	-	-	-	-	77.40	-	-	m
-	-	67.50	-	-	-	-	-	m
-	-	-	-	-	64.80	-	-	m
-	-	52.50	-	-	-	-	-	m
Total length [m]	0.00	939.33	0.00	0.00	142.20	0.00	1101.40	m
Unit weight	0.394	0.616	0.888	1.208	1.578	1.997	2.466	kg/m
Total weight [kg]	0.00	579.00	0.00	0.00	224.00	0.00	2716.00	kg

-	-	-	128.40	-	-	-	m
-	-	-	6.00	-	-	-	m
-	-	-	104.40	-	-	-	m
195.00	-	-	-	-	-	-	m
81.90	-	-	-	-	-	-	m
-	-	-	95.40	-	-	-	m
-	-	-	6.00	-	-	-	m
-	-	-	102.60	-	-	-	m
195.00	-	-	-	-	-	-	m
81.90	-	-	-	-	-	-	m
-	-	-	60.00	-	-	-	m
-	-	-	20.40	-	-	-	m
-	-	-	66.60	-	-	-	m
-	-	-	19.80	-	-	-	m
175.50	-	-	-	-	-	-	m

62.40	-	-	-	-	-	-	m
-	-	-	90.00	-	-	-	m
-	-	-	20.40	-	-	-	m
-	-	-	99.90	-	-	-	m
175.50	-	-	-	-	-	-	m
62.40	-	-	-	-	-	-	m
-	-	-	-	46.20	-	-	m
-	-	-	-	10.20	-	-	m
-	-	-	-	11.40	-	-	m
-	9.00	-	-	-	-	-	m
-	-	-	-	105.30	-	-	m
-	-	-	-	104.40	-	-	m
-	-	-	-	55.20	-	-	m
-	-	-	-	43.20	-	-	m
351.00	-	-	-	-	-	-	m
249.60	-	-	-	-	-	-	m
-	-	-	69.30	-	-	-	m
-	-	-	105.30	-	-	-	m
-	-	-	104.40	-	-	-	m
-	-	-	82.80	-	-	-	m
-	-	-	64.80	-	-	-	m
-	-	-	45.72	-	-	-	m
351.00	-	-	-	-	-	-	m
249.60	-	-	-	-	-	-	m
-	-	-	-	10.00	-	-	m
-	-	-	-	12.80	-	-	m
12.00	-	-	-	-	-	-	m
8.40	-	-	-	-	-	-	m
2251.20		9.00	0.00	1292.22	398.70	0.00	0.00 m
0.394		0.616	0.888	1.208	1.578	1.997	2.466 kg/m
888.00		6.00	0.00	1561.00	629.00	0.00	0.00 kg

Total length [m]
Unit weight
Total weight [kg]

247.50	-	-	-	-	-	-	m
-	85.50	-	-	-	-	-	m
-	85.50	-	-	-	-	-	m
270.00	-	-	-	-	-	-	m
-	78.00	-	-	-	-	-	m
-	78.00	-	-	-	-	-	m
110.00	-		-	-	-	-	m
-	38.00		-	-	-	-	m
-	38.00		-	-	-	-	m
67.50	-		-	-	-	-	m
-	28.50		-	-	-	-	m
-	28.50		-	-	-	-	m
110.00	-		-	-	-	-	m
-	38.00		-	-	-	-	m
-	38.00		-	-	-	-	m

[redacted]

110.00	-		-	-	-	-	m
-	38.00		-	-	-	-	m
-	38.00		-	-	-	-	m
49.50	-		-	-	-	-	m
-	17.10		-	-	-	-	m
-	17.10		-	-	-	-	m
50.00	-		-	-	-	-	m
-	18.00		-	-	-	-	m
-	18.00		-	-	-	-	m
55.00	-		-	-	-	-	m
-	19.00		-	-	-	-	m
-	19.00		-	-	-	-	m
60.00	-		-	-	-	-	m
-	20.00		-	-	-	-	m
-	20.00		-	-	-	-	m
202.50	-	-	-	-	-	-	m
-	58.50	-	-	-	-	-	m
-	58.50	-	-	-	-	-	m
202.50	-	-	-	-	-	-	m
-	58.50	-	-	-	-	-	m
-	58.50	-	-	-	-	-	m
99.00	-		-	-	-	-	m
-	34.20		-	-	-	-	m
-	34.20		-	-	-	-	m
100.00	-		-	-	-	-	m
-	36.00		-	-	-	-	m
-	36.00		-	-	-	-	m
110.00	-		-	-	-	-	m
-	38.00		-	-	-	-	m
-	38.00		-	-	-	-	m
110.00	-		-	-	-	-	m
-	38.00		-	-	-	-	m
-	38.00		-	-	-	-	m

110.00	-		-	-	-	-	m
-	38.00		-	-	-	-	m
-	38.00		-	-	-	-	m
67.50	-		-	-	-	-	m
-	28.50		-	-	-	-	m
-	28.50		-	-	-	-	m
82.50	-	-	-	-	-	-	m
-	28.50	-	-	-	-	-	m
-	28.50	-	-	-	-	-	m
90.00	-	-	-	-	-	-	m
-	26.00	-	-	-	-	-	m
-	26.00	-	-	-	-	-	m
67.50	-	-	-	-	-	-	m
-	19.50	-	-	-	-	-	m
-	19.50	-	-	-	-	-	m

		67.50	-	-	-	-	-	-	m	
		-	19.50	-	-	-	-	-	m	
		-	19.50	-	-	-	-	-	m	
		55.00	-		-	-	-	-	m	
		-	19.00		-	-	-	-	m	
		-	19.00		-	-	-	-	m	
		60.00	-		-	-	-	-	m	
		-	20.00		-	-	-	-	m	
		-	20.00		-	-	-	-	m	
	Total length [m]	2553.50	1684.60	0.00	0.00	0.00	0.00	0.00	m	
	Unit weight	0.394	0.616	0.888	1.208	1.578	1.997	2.466	kg/m	
	Total weight [kg]	**1007.00**	**1038.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	kg	
STAIR										
		-	-	-	-	280.00	-	-	m	
		448.00	-	-	-	-	-	-	m	
		-	-	-	-	156.00	-	-	m	
		-	-	-	-	89.60	-	-	m	
		123.20	-	-	-	-	-	-	m	
		-	112.00	-	-	-	-	-		
		78.40	-	-	-	-	-	-	m	
	Total length [m]	649.60	112.00	0.00	0.00	525.60	0.00	0.00	m	
	Unit weight	0.394	0.616	0.888	1.208	1.578	1.997	2.466	kg/m	
	Total weight [kg]	**256.00**	**69.00**	**0.00**	**0.00**	**829.00**	**0.00**	**0.00**	kg	
	Total weight [kg] for Sup	**2151.00**	**1692.00**	**0.00**	**1561.00**	**1682.00**	**0.00**	**2716.00**	kg	

-

G+1 MULTI PURPOSE BUILDING					
Item No	Description	Unit	Qty	Rate	Amount
	A-SUB STRUCTURE				
	1. 0 EXCAVATION & EARTH WORK				
1.01	Clear and remove top soil to an average depth of 20 cm.	m^2	368.56	31.25	11,517.41
1.02	Bulk excavation in ordinary soil to reduce levels to the designed level up to 500mm .	m^3	164.71	9.52	1,568.04
1.03	Pit excavation 25 cm away from the max edge of footing pad at each side in M3..... (100 CM)	m^3	455.22	347.66	158,260.08
1.04	Fill around footing and foundation columns with imported selected materials from out side well rolled and compacted in layers not exceeding 200 mm thick.	m^3	290.51	195.73	56,861.28
1.05	fill around massonary wall	m^3	15.00	195.73	2,935.94
1.06	selected material fill at an average depth of 30 cm	m^3	35.00	195.73	6,850.52
1.07	Cart away surplus excavated materials from the site as per the Engineer's instruction.	m^3	327.97	84.90	27,843.29
1.08	25cm basaltic stone hard core under concrete floor	m^2	274.88	135.77	37,320.11
	Total carried to Summary				303,156.66
	2. 0 CONCRETE WORK				
2.01	50mm lean concrete quality C-5, 150 kg of cement/m3: under				
	a) Under foundation pad	m^2	56.93	15.60	888.11
	b) Under Grade beam	m^2	26.79	15.60	417.92
2.02	Reinforced concrete quality C-25				
	a) in pad foundation	m^3	27.72	3,112.12	86,275.68
	b) In grade beam	m^3	10.72	3,112.12	33,349.45
	c) In 150mm thick ground floor slab	m^2	59.55	466.58	27,783.36
	d) foundation column	m^3	2.73	3,112.12	8,507.75
	e) Outside stairs	m^3	1.68	3,112.12	5,228.36
2.03	Provide, cut and fix in position sawn zigba wood or steel formwork which ever appropriate.				
	a)To grade beam	m^2	10.72	654.52	7,013.82
	b)To steps	m^2	9.16	622.47	5,701.86
	c) Foundation pad	m^2	65.62	622.47	40,846.71
	d) foundation column	m^2	26.40	622.47	16,433.30
2.04	Mild steel reinforcement				
	a) dia 6 mm plain bar	kg			-
	b) dia 8 mm deformed bar	kg	859.00	73.21	62,887.45
	c) dia 10 mm deformed bar	kg	147.00	64.66	9,505.66
	d) dia 12 mm deformed bar	kg			-
	e) dia 14 mm deformed bar	kg			-
	f) dia 16 mm deformed bar	kg	963.00	64.30	61,917.89

	g) dia 20 mm deformed bar	kg	2435.00	62.98	153,351.73
	h) dia 24 mm deformed bar	kg			-
2.05	10mm thick expansion joint filler under grade beam	m	44.65	20.00	893.00
	Total carried to Summary				521,002.06
	3.0 MASONRY WORKS				
3.01	500mm thick hard trachytic roughly dressed stone masonry foundation wall below ground level bedded in cement mortar mix ratio (1:3)	m^3	13.03	2,194.61	28,599.20
3.02	ditto item 3.01 for above the ground	m^3	15.93	2,445.40	38,949.01
	Total carried to Summary				67,548.21
	Total carried to Summary for all sub sturacure works ...				891,706.94
	B-SUPER STRUCTURE				
1.01	**CONCRETE WORK**				
	Reinforced concrete quality C-25,				
	a) In elevation columns	m^3	13.82	3,112.12	42,997.55
	b) In first floor beam	m^3	10.72	3,112.12	33,349.45
	c) In Top tiebeams	m^3	10.72	3,112.12	33,349.45
	d) Staircase and landing	m^3	4.14	3,112.12	12,874.83
	e) stair beam	m^3	0.44	3,112.12	1,369.33
	f) In Rc Gutter	m^3	4.40	3,112.12	13,704.37
	i) In 150mm first floor slab	m^2	396.98	487.41	193,488.57
	i) In 150mm flatfloor slab	m^2	296.16	487.41	144,350.22
	h) water tank slab	m^2	11.78	487.41	5,742.63
1.02	Provide, cut and fix in position sawn zigba wood or steel formwork which ever appropriate.				
	a) In elevation columns	m^2	142.51	670.27	95,518.66
	b) In first floor beam	m^2	120.56	654.52	78,905.51
	c) In Top tiebeams	m^2	78.44	654.52	51,337.18
	d) Staircase and landing	m^2	26.08		-
	e) landing beam	m^2	3.50	654.52	2,290.82
	f) In Rc Gutter	m^2	45.33	654.52	29,666.06
	i) In 150mm first floor slab	m^2	120.56	648.57	78,187.83
	i) In 150mm flatfloor slab	m^2	59.68	648.57	38,703.15
	h) water tank slab	m^2	15.15	648.57	9,825.77
1.30	Mild steel reinforcement according to structural drawings. Price includes cutting, bending, placing in position , tying wire, concrete spacers and chairs.				
	a) dia 6 mm plain bar	kg			-
	b) dia 8 mm deformed bar	kg	2151.00	73.21	157,474.86
	c) dia 10 mm deformed bar	kg	1692.00	64.66	109,412.12
	d) dia 12 mm deformed bar	kg			-
	e) dia 14 mm deformed bar	kg	1561.00	63.33	98,851.30

	f) dia 16 mm deformed bar	kg	1682.00	64.30	108,147.34
	g) dia 20 mm deformed bar	kg	2716.00	62.98	171,048.59
	h) dia 24mm deformed bar	kg			
	Total carried to Summary				1,510,595.60
	2. BLOCK WORK				
2.01	20cm thick Class B external HCB wall which can satisfy the designed strength , bedded in cement mortar (1:3).Price shall include mortar bedding.	m^2	277.02	378.19	104,766.19
2.02	Ditto as Item 2.01 but for150mm HCB guard wall	m^2	353.60	361.93	127,978.01
	Total carried to Summary				232,744.20
	3. ROOFING				
3.01	For 15 cm solid slab flat roof				
	A) 3cm thick cement sand screed over light weight pumice	m^2	294.67	177.12	52,191.62
	B) Average 12cm thick light weight concrete over roof slab giving 2%slope towards down pipe trowel finished to receive water proofing material.	m^2	294.67	186.69	55,011.24
	C) Bituminous modified polymer water proofing material with 4 mm thick sand finisher equivalent all accord-ing to manufacturers instruction.	m^2	294.67	55.00	16,206.67
3.02	G30 CIS Roofing (without truss and purlin) price includes ridge cover and washer	m^2	412.20	243.10	100,204.33
3.03	G28 Sheet Metal Down down pipe	ml	42.00	24.97	1,048.69
3.04	Flashing.	ml	42.86	183.09	7,847.25
3.05	20 cm wide fascia board	ml	39.60	271.19	10,739.03
3.06	gutter development size 40	ml	52.00	318.44	16,559.06
	Total carried to Summary				259,807.89
	4. CARPENTRY & JOINERY				
	Wood roof truss member :				
4.01	10 cm. dia. Upper & Lower Chords Eucaliptus Wood	m	139.80	33.53	4,688.15
4.02	6 cm. dia. Vertical & Diagonal Members of a Truss	m	139.44	45.98	6,411.71
4.03	5 X 7 cm. Tid Wood Roof Purlin	m	360.00	94.74	34,108.11
4.04	INTERNAL DOORS Supply & fix 40mm thick wood framed door both sides covered with 4mm ply wood sides ,top, sides covered with 4mm ply wood sides ,top,bottom lipped & edged with hard wood price includes three coats of varnish paint & cylindrical				
	a) Type D1 size 850x2600 mm	no	10.00	2,566.29	25,662.93
	b) Type D2 size 700x2600 mm	no	18.00	2,113.42	38,041.52
	Total carried to Summary				108,912.42
	5.METAL AND ALUMINUM WORK				

	Aluminium framed windows, top windows,window doors and doors As per iso standard aluminium frame profile thickness should be 2mm anodized thickness 15-25 micro unit , & all fixing accessories should be of same standard as that of the profile . Complete work according to suppliers instruction. Price includes 6mm thick non reflective clear glass				
	NB-All dimensions shall be verifies on site prior to production. All lockes,handles,springs& lashes shall be of best quality & approved by the Arch.				
	WINDOWS				
	a) Type W1 Size :1500x1500mm	no	14.00	5,850.00	81,900.00
	b) Type W2 Size :1000x400mm	no	6.00	1,024.00	6,144.00
	c) Type W3 Size :1000x1500mm	no	2.00	3,840.00	7,680.00
	d) Type W4 Size :2500x2600mm	no	4.00	16,640.00	66,560.00
	DOORS				
	external				
	a) Type D1 size 850x2600 mm	no	10.00	5,657.60	56,576.00
	b) Type D3 size 1300x2600 mm	no	2.00	8,652.80	17,305.60
5.2	c)Type D4size 1250x2600 mm	no	2.00	8,320.00	16,640.00
	Supply and fix Ø50mm CHS hand rail(2mm thick) of 40x40x2mm RHS Post Anchored to the slab, 40X40X2mm RHS handrail in two rows horizontally and 30X20X2mm Vertical C/C spacing 228mm price shall include one coats of antirest paint two coats of synthatic enamel paint and necessary works and material to full fill the jobs.				
	a) Hand rail	m	16.00	1,440.00	23,040.00
	b)Guard rail	m	50.00	1,440.00	72,000.00
	Total carried to Summary				347,845.60
	6. FINISHING				
6.1	WALL FINISH				
	Finishing work shall includes all surface pre cleaning, preparation of finish, polishing and cleaning at the end of finishing work. Apply two coats of plaster in cement mortar to				
	A) External exposed concrete & concrete block wall surface	m^2	276.52	276.42	76,435.53
	B) Internal exposed concrete & concrete block wall surface	m^2	396.17	276.42	109,509.13
	C) Concrete ceiling surface	m^2	293.13	222.29	65,161.22
	D) Stair belly,sides & landing	m^2	203.08	222.29	45,143.40

	E)water tanker ceiling	m^2	110.00	222.29	24,452.31
6.05	Apply fine coat of fine cement sand plaster to internal plastered surface	m^2	396.17	45.12	17,875.19
6.06	Gypsum plastering to all internal plastered surface	m^2	396.17	53.28	21,107.94
6.07	Gypsum board suspended ceiling nailed on & including 4x4cm zigba batten at c/c60cm both ways price includes corner list & all suspension material complete work	m^2	105.91	180.00	19,064.25
6.08	6mm thick glazed ceramic wall tile bedded on & including cement mortar backing and joints grouted in white cement.	m^2	148.26	616.83	91,450.03
6.09	9mm thick non slippery ceramic floor tile bedded on and including 50mm thick cement sand screed and joints grouted .	m^2	18.73	632.55	11,845.85
6.10	25mm thick tid perquet floor with all acceceries	m^2	45.00	1,714.44	77,149.69
6.10	25mm thick non slippery terrazo floor tile bedded on and including 30mm thick cement sand screed and joints grouted .	m^2	110.00	541.24	59,536.68
6.10	9mm thick non slippery pvc floor tile bedded on and including 50mm thick cement sand screed and joints grouted .	m^2	32.00	620.61	19,859.48
6.11	marble tile skirting stuck to wall with cement mortar	m^2	85.00	355.01	30,175.59
6.12	ceramic tile skirting stuck to wall with cement mortar	m^2	155.00	157.64	24,434.88
6.13	Copping in harar marble tile bedded in cement mortar & joints grouted .Size - 20/2cm	m^2	149.55	1,599.35	239,183.51
6.14	8cm pvc skirting	m	117.84	107.95	12,721.05
6.15	Copping in harar marble tile bedded in cement mortar & joints grouted for riser	m	50.00	409.06	20,452.98
6.16	Copping in harar marble tile bedded in cement mortar & joints grouted for tread	m	50.00	585.81	29,290.33
6.17	3cm thick marble window sill 30cm	m	44.00	417.23	18,358.04
	TOTAL TO SUMMARY……..				1,013,207.06
	7. PAINTING				-
7.1	Quartz paint External plastered wall surface	m^2	396.00	53.25	21,087.46
7.2	Prepare and apply by brush three coats of synthetic enamel paint to:-				-
	A)Internal plastered wall surface	m^2	575.00	64.47	37,070.60
	B)plastered ceiling surface	m^2	293.13	77.42	22,694.06
	C) plastered stair case belly & sides surface	m^2	197.10	77.42	15,259.44
	D)Gypsum board ceiling surface	m^2	293.13	77.42	22,694.06
	Total carried to summary ……..				97,718.15
	8)GLAZING				
8.1	5mm thick clear glass glazed with beads, rubber gasket and sealant to alumunium profile frames.	m^2	51.72	567.29	29,340.15

8.2	5mm thick frosted glass glazed with beads, rubber gasket and sealant to alumunium profile frames.	m^2	4.40	710.66	3,126.88
	Total carried to Summary				32,467.03
	9.SANITARY INSTALLATION				
	A. Interior Installation				
	Water Supply Pipes & fittings				
9.1	Supply and install galvanized steel pipes from elevatedwater tank to cold and hot water distibution to all santitary fixtures as shown on the drawing				
	Diameter 15 mm	ml	60.00	65.00	3,900.00
	Diameter 20 mm	ml	40.00	85.00	3,400.00
9.2	Supply and install gate valves made of brass completewith rubber gaskets, hand wheels andconnecting pieces such as unions etc, for all fixtures				
	Diameter 15 mm	Pcs	14.00	40.00	560.00
	Diameter 20 mm	Pcs	10.00	45.00	450.00
	Elevated water tank				
9.3	Supply and mount $8m^3$ fibre glass water tank on roof complete with all the necessary accessories				
	a) Size of water tank = 4 x 2 m	Pc	1.00	15,000.00	15,000.00
	b)Diameter 32mm brass gate valve for outlet pipe	Pcs	1.00	350.00	350.00
	c)Diameter 32mm brass gate valve for drain pipe	Pcs	1.00	350.00	350.00
	d)Diameter 32mm brass gate valve for inlet pipe	Pcs	1.00	250.00	250.00
	e)Diameter 40mm PVC float valve	Pcs	1.00	350.00	350.00
	f)Diameter 50 mm PVC vent pipe with vent cap length of pipe 30 cm				
	g)Diameter 32mm drain and over flow galvanized steel pipe				
	Sanitary Fixtures				
9.4	Supply and install low level water closet white glazed vitreous China WC pan of approved quality complete with all the necessary accessories	Pcs	12.00	3,500.00	42,000.00
9.5	Supply and install hand wash basins made of white vitreous China with two tap holes complete with all the necessary accessories Size :- 500 x 405 mm	Pcs	12.00	3,500.00	42,000.00

9.6	Supply & install white glazed steel cast-iron shawor tray with slip resistance base,15mm chrome plated shower mixer with cold & hot taps,concealed riser tube chrome plated shower arm tube & swivel spray head,38mm brass shower tray waste drain hole with chrome plated grated,dia 38mm uPVC trap.				
	size 900x900mm	Pcs	12.00	3,500.00	42,000.00
9.7	Supply and install single tubular chrome plated swingtowel hanger,with chrome plated fastening screws completed with all the necessary accessories	Pcs	12.00	200.00	2,400.00
9.8	Supply and fix toilet paper holder in white vitreous China complete with all the necessary accessories	Pcs	12.00	100.00	1,200.00
9.9	Supply and fix crystal glass mirror 500 x 400 mm Including chrome plated brass clips and screws	Pcs	6.00	1,500.00	9,000.00
	Waste water & Ventilation Pipe				
9.10	Supply and fix water heater complete with all neccessories.				
	a/Capacity 25 litters	Pcs	6.00	4,500.00	27,000.00
9.11	Supply and install , waste and vent pipe in horizontal branches and vertical stacks made of PVC including the necessary fittings such as bends, branches tees, elbow etc. All horizontal branches should be laid at a slope of 2% .				
	Diameter 50 mm	ml	106.00	74.00	7,844.00
9.12	Supply and install vent caps made of PVC at vent pipes fitted with PVC pipe roof weathering slate at roof level.				
	Diameter 50 mm	Pc	25.00	85.00	2,125.00
	Total carried to Summary……..	**Birr**			**200,179.00**

Total to Summary for super sturacture ……. 3,803,476.95

SUMMARY

Project : G+1 MULTIPURPOSE
Location :
Client :
Contractor :
Consultant :

SUMMARY

A-SUB STRUCTURE

1 EXCAVATION AND EARTH WORK……	BIRR	303,156.66
2 CONCRETE WORK……	BIRR	521,002.06
3 MASONARY WORK……	BIRR	67,548.21
SUB TOTAL A…….	**BIRR**	**891,706.94**

B-SUPER STRUCTURE

1 CONCRETE WORK……	BIRR	1,510,595.60
2 BLOCK WORK……	BIRR	232,744.20
3 ROOFING WORK……	BIRR	259,807.89
4 CARPENTRY WORK……	BIRR	108,912.42
5 METAL AND ALUMINIUM WORK……	BIRR	347,845.60
6 FINISHING WORK……	BIRR	1,013,207.06
9 PAINTING WORK……	BIRR	97,718.15
8 GLAZING WORK……	BIRR	32,467.03
10 SANITARY INSTALLATION WORK……	BIRR	200,179.00
SUB TOTAL B…….	**BIRR**	**3,803,476.95**
TOTAL A+B…….	**BIRR**	**4,695,183.89**

GRAND SUMMARY

MAIN BUILDING ……BIRR		4,695,183.89
VAT 15% ……BIRR		704,277.58
Grand total with VAT15%……..*BIRR*		5,399,461.48

ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT: G+1 MULTI PURPOSE **EXCAVATION AND EARTH WORK.** LABOUR HOURLY OUTPUT: 0.89 m^2/hr.

WORK ITEM: (1.01) 20 cm. Clearing on loose & dry soil. EQUIPEMENT: Tool

RESULT: 31.25 Birr/m^2

TOTAL QANTITY OF WORK ITEM: 1 m^2

Material Cost (1:01)					Labour Cost (1:02)					Equipment Cost (1:03)			
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labour by Grade	No.	UF	** Indexed Hourly Cost	Hourly Cost	Type of Equipment	No.	Hourly Rental	Hourly Cost
				0	D/L	1	1	18.75	18.75	Tool	1	1	1
				0	G.Chief	1	0.1	25	2.5				0
				0					0				0
				0					0				0
				0					0				0
				0					0				0
				0					0				0
				0					0				0
				0					0				0
Total (1:-01)				0	**Total (1:02)**				21.25	**Total (1:03)**			1

A= Materials Unit Cost 0 Birr/m^2

B= Manpower Unit Cost 23.88 Birr/m^2

Total of (1:02) 1.44

Hourly Output: 0.89

C= Equipment Unit Cost 1.12 Birr/m^2

Total of (1:03)

Hourly output: _____

Direct Cost of Work Item = A+B+C = 25.00 Birr/m^2

Over head cost : 10% 2.50 "

Profit Cost: 15% 3.75 "

Total Unit Cost : 31.25 Birr/m^2

Remark _____

UF: UTILIZATION FACTOR

*: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.

**: INCLUSIVE OF BENEFITS, TRAVEL SUBSIDES AND COST OF OVERTIME RELATED TO TARGETED OUTPUT.

ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT: G+1 MULTI PURPOSE EXCAVATION AND EARTH WORK.
WORK ITEM: (1.02) Bulk excav. to a depth not exceeding 500mm

LABOUR HOURLY OUTPUT: 0.21 m^3/hr.
EQUIPEMENT: Tool
RESULT: 9.52 Birr/m^3

TOTAL QANTITY OF WORK ITEM: 1 m^3

Material Cost (1:01)					Labour Cost (1:02)					Equipment Cost (1:03)			
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labour by Grade	No.	UF	** Indexed Hourly Cost	Hourly Cost	Type of Equipment	No.	Hourly Rental	Hourly Cost
				0	G chef	1	0.1	37.5	3.75	tool	1	1	1
				0	DL	1	1	18.75	18.75				0
				0					0				0
				0					0				0
				0					0				0
				0					0				0
				0					0				0
				0					0				0
Total (1:-01)				0	**Total (1:02)**				22.5	**Total (1:03)**			1

A= Materials Unit Cost 0 Birr/m^3

B= Manpower Unit Cost 107 Birr/m^3
Total of (1:02)
Hourly Output:

C= Equipment Unit Cost 4.76 Birr/m^3
Total of (1:03)
Hourly output: _____

Direct Cost of Work Item = A+B+C = 111.90 Birr/m^3
Over head cost : 10% 11.19 "
Profit Cost: 15% 16.79 "
Total Unit Cost : 139.88 Birr/m^3

Remark _____

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ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT: G+1 MULTI PURPOSE EXCAVATION AND EARTH WORK. LABOUR HOURLY OUTPUT: 0.08 m³/hr.

WORK ITEM: (1.03) Excavation foundation pits to adepth of 150-300cm. EQUIPEMENT: Tool

RESULT: 347.66 Birr/m³

TOTAL QANTITY OF WORK ITEM: 1 m³

Material Cost (1:01)					Labour Cost (1:02)					Equipment Cost (1:03)			
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labour by Grade	No.	UF	** Indexed Hourly Cost	Hourly Cost	Type of Equipment	No.	Hourly Rental	Hourly Cost
				0	DL	1	1	18.75	18.75	Tools	1	1	1
				0	G.Chief	1	0.1	25	2.5				0
				0					0				0
				0					0				0
				0					0				0
				0					0				0
				0					0				0
				0					0				0
				0					0				0
Total (1:-01)				0	**Total (1:02)**				21.25	**Total (1:03)**			1

A= Materials Unit Cost 0 Birr/m³

B= Manpower Unit Cost 266 Birr/m³

Total of (1:02)

Hourly Output:

C= Equipment Unit Cost 12.50 Birr/m³

Total of (1:03)

Hourly output: _____

Direct Cost of Work Item = A+B+C = 278.13 Birr/m³

Over head cost : 10% 27.81 "

Profit Cost: 15% 41.72 "

Total Unit Cost : 347.66 Birr/m³

Remark _____

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ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT: G+1 MULTI PURPOSE EXCAVATION AND EARTH WORK. LABOUR HOURLY OUTPUT: 0.15 m^3/hr.
WORK ITEM: (1.04) Back fill excavated materials from the site. EQUIPEMENT: Tool
RESULT: 195.73 Birr/m^3

TOTAL QANTITY OF WORK ITEM: 1 m^3

Material Cost (1:01)					Labour Cost (1:02)					Equipment Cost (1:03)			
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labour by Grade	No.	UF	** Indexed Hourly Cost	Hourly Cost	Type of Equipment	No.	Hourly Rental	Hourly Cost
				0	foreman	1	0.033	37.5	1.24	tool	1	1	1
				0	DL	1	1	18.75	18.75				0
				0	G.CHIEF	1	0.1	25	2.5				0
				0					0				0
				0					0				0
				0					0				0
				0					0				0
				0					0				0
Total (1:-01)				0	**Total (1:02)**				22.49	**Total (1:03)**			1

A= Materials Unit Cost 0 Birr/m^3 B= Manpower Unit Cost 150 Birr/m^3 C= Equipment Unit Cost 6.67 Birr/m^3

Total of (1:02) Total of (1:03)
Hourly Output: Hourly output: _____

Direct Cost of Work Item = A+B+C = 156.58 Birr/m^3
Over head cost : 10% 15.66 "
Profit Cost: 15% 23.49 "
Total Unit Cost : 195.73 Birr/m^3

Remark _____
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ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT: G+1 MULTI PURPOSE EXCAVATION AND EARTH WORK. LABOUR HOURLY OUTPUT: **24 m³/hr.**

WORK ITEM: (1.07) Cart away surplus excavated mats. 3km. from the site. EQUIPEMENT: Tool

RESULT: **84.90 Birr/m³**

TOTAL QANTITY OF WORK ITEM: 1 m³

Material Cost (1:01)					Labour Cost (1:02)					Equipment Cost (1:03)			
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labour by Grade	No.	UF	** Indexed Hourly Cost	Hourly Cost	Type of Equipment	No.	Hourly Rental	Hourly Cost
				0	operator	1	1	70.00	70.00	loader	1	700.00	700.00
				0	driver	2	2	50.00	200.00	dump truck	2	330.00	660.00
				0					0				0.00
				0					0				0.00
				0					0				0.00
				0					0				0.00
				0					0				0.00
				0					0				0.00
				0					0				0.00
Total (1:-01)				0	**Total (1:02)**				270.00	**Total (1:03)**			1360.00

A= Materials Unit Cost 0 Birr/m³

B= Manpower Unit Cost 11.25 Birr/m³

Total of (1:02)

Hourly Output:

C= Equipment Unit Cost 56.67 Birr/m³

Total of (1:03)

Hourly output: _____

Direct Cost of Work Item = A+B+C = 67.92 Birr/m³

Over head cost : 10% 6.79 "

Profit Cost: 15% 10.19 "

Total Unit Cost : **84.90 Birr/m³**

Remark _____

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ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT: G+1 MULTI PURPOSE EXCAVATION AND EARTH WORK. LABOUR HOURLY OUTPUT: 2 m²/hr.

WORK ITEM: (1.08) 25cm. thick basaltic hard core. EQUIPEMENT: Tool

RESULT: 135.77 Birr/m²

TOTAL QANTITY OF WORK ITEM: 1 m²

Material Cost (1:01)					Labour Cost (1:02)					Equipment Cost (1:03)			
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labour by Grade	No.	UF	** Indexed Hourly Cost	Hourly Cost	Type of Equipment	No.	Hourly Rental	Hourly Cost
basaltic stone	m²	0.28	150	42	foreman	1	0.25	37.5	9.38	tools	3	1	3
				0	mason	1	1	37.5	37.50				
				0	DL	4	1	18.75	75				0
				0					0				0
				0					0				0
				0					0				0
				0					0				0
				0					0				0
				0					0				0
Total (1:-01)				42	**Total (1:02)**				121.875	**Total (1:03)**			3

A= Materials Unit Cost 42 Birr/m²

B= Manpower Unit Cost 60.94 Birr/m²

Total of (1:02)

Hourly Output:

C= Equipment Unit Cost 1.50 Birr/m²

Total of (1:03)

Hourly output: _____

Direct Cost of Work Item = A+B+C = 104.44 Birr/m²

Over head cost : 15% 15.67 "

Profit Cost: 15% 15.67 "

Total Unit Cost : 135.77 Birr/m²

Remark _____

UF: UTILIZATION FACTOR

*: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.

**: INCLUSIVE OF BENEFITS, TRAVEL SUBSIDES AND COST OF OVERTIME RELATED TO TARGETED OUTPUT.

ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT: G+1 MULTI PURPOSE ***CONCRETE WOR***

WORK ITEM: A(2.01) C-5 Lean Concrete (Hand mix) 1:5:10 , 0.05 M thick

LABOUR HOURLY OUTPUT: 6.25 m^2/hr.

EQUIPEMENT:

RESULT: 15.60 Birr/m^2

TOTAL QUANTITY OF WORK ITEM 1 m^2

Material Cost (1:01)					Labour (1:02)					Equipment Cost (1:03)			
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labour by Trade	No.	UF	** Indexed Hourly Cost	Hourly Cost	Type of Equipment	No.	Hourly Rental	Hourly Cost
Cement	Qnt.	2.13	385	820.05	Mason I	1	1	37.5	37.5	-			0
Sand	m3	0.175	464.00	81.2	D/L	2	1	18.75	37.5	-			0
Gravel (02)	m^3	0.35	360.00	126					0				0
Water	m^3	0.054	0.75	0.041					0				0
				0					0				0
				0					0				0
				0					0				0
Total (1:-01)				1027.291	**Total (1:02)**				75	**Total (1:03)**			0

A= Materials Unit Cost 0.00 Br./m^2 B=Manpower Unit Cost 12.00 Br./m^2 C=Equipment Unit Cos 0 Br./m^2

Total of (1:02) 5.65 Total of (1:03)

Hourly Output 6.25 Hourly output: _____

Direct Cost of work item= A+B+C= 12.00 Birr/m^2

Overhead Cost: 15% 1.80 " 16.8

Profit Cost: 15% 1.80 "

Total Unit Cost : 15.60 Birr/m^2

Remark _____

UF: UTILIZATION FACTOR

*: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.

**: INCLUSIVE OF BENEFITS, TRAVEL SUBSIDES AND COST OF OVERTIME RELATED TO TARGETED OUTPUT.

ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT: G+1 DUPLEX ***CONCRETE WORK*** LABOUR HOURLY OUTPUT: 1.125 m^3 / hr. 9

WORK ITEM: B(1.01) C-25 Concrete (Mechanical Mix) 1:2:3 EQUIPEMENT: Mixer & Vibrator

TOTAL QUANTITY OF WORK ITEM: 1 m^3 RESULT: 3112.12 Birr/m^3

Material Cost (1:01)					Labour (1:02)					Equipment Cost (1:03)			
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labour by Trade	No.	UF	** Indexed Hourly Cost	Hourly Cost	Type of Equipment	No.	Hourly Rental	Hourly Cost
Cement	Qnt.	3.97	385.00	1528.45	Foreman	1	1	37.5	37.5	Mixer	1	62.5	62.5
Sand	m3	0.51	464.00	236.64	Mason II	2	1	37.5	75	Vibrator	1	25	25
Gravel (02)	m^3	0.76	500.00	380.00	D/L	10	1	18.75	187.5				
Water	m^3	0.213	0.75	0.16									
Total (1:-01)				2145.25	**Total (1:02)**				300.00	**Total (1:03)**			87.5

A= Materia 2145.25 Birr/m^3 B=Manpower Unit Cost 266.67 Br./m^3 C= Equipment Unit Co 77.78 Br./m^3

Total of (1:02) 43.75 Total of (1:03) 46.85

Hourly Output 0.75 Hourly output: 0.75

Direct Cost of work item = A+B+C = 2489.69 Birr/m^3

Overhead Cost: 15% 373.45 "

Profit Cost: 10% 248.97 "

Total Unit Cost : 3112.12 Birr/m^3

Remark _____

UF: UTILIZATION FACTOR

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**: INCLUSIVE OF BENEFITS, TRAVEL SUBSIDES AND COST OF OVERTIME RELATED TO TARGETED OUTPUT.

ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT: G+1 DUPLEX ***CONCRETE WORK***
WORK ITEM: B(1.01) C-25 Concrete (Hand Mix) 1:2:3

LABOUR HOURLY OUTPUT: 0.625 m³/hr.
EQUIPEMENT:_

TOTAL QUANTITY OF WORK ITEM: _ 1 m³

RESULT : 3237.04 Birr/m³

Material Cost (1:01)					Labour (1:02)					Equipment Cost (1:03)			
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labour byTrade	No.	UF	** Indexed Hourly Cost	Hourly Cost	Type of Equipment	No.	Hourly Rental	Hourly Cost
Cement	Qnt.	4.1	385	1578.5	Foreman	1	0.167	37.5	6.2625				0
Sand	m3	0.53	464.00	245.92	Mason II	1	1	37.5	37.5				0
Gravel (02)	m³	0.79	500.00	395	D/L	10	1	18.75	187.5				0
Water	m³	0.26	0.75	0.195					0				0
				0					0				0
				0					0				0
				0					0				0
Total (1:-01)				2219.615	**Total (1:02)**				231.26	**Total (1:03)**			0

A= Materia 2219.62 Birr/m³

B=Manpower Unit Cost 370.02 Br./m³

Total of (1:02) 12.08

Hourly Output 0.625

C= Equipment Unit Co 0.00 Br./m³

Total of (1:03)

Hourly output:

Direct Cost of work item = A+B+C = 2589.64 Birr/m³

Overhead Cost: 10% 258.96 "

Profit Cost: 15% 388.45 "

Total Unit Cost : 3237.04 Birr/m³

Remark _____

UF: UTILIZATION FACTOR

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**: INCLUSIVE OF BENEFITS, TRAVEL SUBSIDES AND COST OF OVERTIME RELATED TO TARGETED OUTPUT.

ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT: G+1 DUPLEX ***CONCRETE WORK***

WORK ITEM: (1.10) C-25 Concrete (Mechanical Mix) 1:2:3

TOTAL QUANTITY OF WORK ITEM: 1 m^3

LABOUR HOURLY OUTPUT: 1.125 m^3 / hr. 9

EQUIPEMENT: Mixer & Vibrator

RESULT: 3251.01 Birr/m^3

Material Cost (1:01)					Labour (1:02)					Equipment Cost (1:03)			
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labour by Trade	No.	UF	** Indexed Hourly Cost	Hourly Cost	Type of Equipment	No.	Hourly Rental	Hourly Cost
Cement	Qnt.	3.97	385.00	1528.45	Foreman	1	1	37.5	37.5	Mixer	1	62.5	62.5
Sand	m3	0.51	464.00	236.64	Mason II	2	1	37.5	75	Vibrator	1	25	25
Gravel (02)	m^3	0.76	500.00	380.00	D/L	10	1	18.75	187.5	winch	1	125	125
Water	m^3	0.213	0.75	0.16									
Total (1:-01)				2145.25	**Total (1:02)**				300.00	**Total (1:03)**			212.5

A= Materia 2145.25 Birr/m^3

B=Manpower Unit Cost 266.67 Br./m^3

Total of (1:02) 43.75

Hourly Output 0.75

C= Equipment Unit Co 188.89 Br./m^3

Total of (1:03) 46.85

Hourly output: 0.75

Direct Cost of work item = A+B+C = 2600.81 Birr/m^3

Overhead Cost: 15% 390.12 "

Profit Cost: 10% 260.08 "

Total Unit Cost : 3251.01 Birr/m^3

Remark _____

UF: UTILIZATION FACTOR

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ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT : G+1 DUPLEX REINFORCEMENT BARS

WORK ITEM: dia. 8 mm. plain bars

TOTAL QUANTITY OF WORK ITEM: 1 kg.

LABOUR HOURLY OUTPUT: 9 kg/hr.

EQUIPMENT:

RESULT: 73.21 Birr/kg.

Material Cost (1:01)					Labour (1:02)					Equipment Cost (1:03)			
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labour by Grade	No.	UF	** Indexed Hourly Cost	Hourly Cost	Type of Equipment	No.	Hourly Rental	Hourly Cost
ϕ 8 mm plain bars	kg	1.05	43	45.15	Foreman	1	0.17	37.5	6.26				0
1.5 mm black annealed wire	"	0.05	60	3.00	Bar bender	1	1	31.25	31.25				0
				0	D/L	3	1	18.75	56.25				0
				0					0.00				0
				0					0.00				0
				0					0.00				0
				0					0.00				0
Total (1:-01)				48.15	**Total (1:02)**				93.76	**Total (1:03)**			0

A= Materials Unit Cost 48.15 birr/kg

B= Manpower Unit Cost 10.42 Birr/kg.

Total of (1:02)

hourly output: 7.08/9=0.79

Equipment Unit Cost 0.00 Birr/kg.

Total of (1:03)

Hourly output: _____

Direct Cost of Work Item = A+B+C = 58.57 Birr/kg.

Over head cost : 10% 5.86 "

Profit Cost: 15% 8.79 "

Total Unit Cost : 73.21 Birr/kg.

Remark _____

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ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT : G+1 DUPLEX REINFORCEMENT BARS

WORK ITEM: (1.20c) dia. 10 deformed bars

TOTAL QUANTITY OF WORK ITEM : 1 kg

LABOUR HOURLY OUTPUT: 12.5 kg./hr

EQUIPMENT:

RESULT: 64.66 Birr/kg.

Material Cost (1:01)					Labour (1:02)					Equipment Cost (1:03)			
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labour by Grade	No.	UF	** Indexed Hourly Cost	Hourly Cost	Type of Equipment	No.	Hourly Rental	Hourly Cost
ϕ10-deformed bars	kg	1.05	39.03	40.9815	foreman	1	1	37.5	37.50				0
1.5 mm black Annealed wire	"	0.0125	60	0.75	bar bender	1	1	31.25	31.25				0
				0	D/L	3	1	18.75	56.25				0
				0					0.00				0
				0					0.00				0
				0					0.00				0
				0					0.00				0
				0					0.00				0
				0					0.00				0
				0					0.00				0
Total (1:-01)				41.7315	**Total (1:02)**				125	**Total (1:03)**			0

A= Materials U 41.7315 Birr/kg.

B= Manpower Unit Cost 10.00 Birr/kg.

Total of (1:02)

Hourly Output: 11.25/12.5=0.90

C= Equipment Unit Co 0 Birr/kg.

Total of (1:03)

Hourly output:

Direct Cost of Work Item = A+B+C = 51.73 Birr/kg.

Over head cost : 10% 5.173 "

Profit Cost: 15% 7.760 "

Total Unit Cost : 64.664 Birr/kg.

UF: UTILIZATION FACTOR

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ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT : G+1 DUPLEX **REINFORCEMENT BARS**

WORK ITEM: (1.20f) dia. 16 deformed bars

TOTAL QUANTITY OF WORK ITEM : 1 kg

LABOUR HOURLY OUTPUT: 12.5 kg./hr

EQUIPMENT:

RESULT: 64.30 Birr/kg.

Material Cost (1:01)					Labour (1:02)					Equipment Cost (1:03)			
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labour by Grade	No.	UF	** Indexed Hourly Cost	Hourly Cost	Type of Equipment	No.	Hourly Rental	Hourly Cost
ϕ16-deformed bars	kg	1.05	38.75	40.6875	foreman	1	1	37.5	37.50				0
1.5 mm black Annealed wire	"	0.0125	60	0.75	bar bender	1	1	31.25	31.25				0
				0	D/L	3	1	18.75	56.25				0
				0					0.00				0
				0					0.00				0
				0					0.00				0
				0					0.00				0
				0					0.00				0
				0					0.00				0
				0					0.00				0
				0					0.00				0
Total (1:-01)				41.4375	**Total (1:02)**				125	**Total (1:03)**			0

A= Materials U 41.4375 Birr/kg.

B= Manpower Unit Cost 10.00 Birr/kg.

Total of (1:02)

Hourly Output: 11.25/12.5=0.90

C= Equipment Unit Co 0 Birr/kg.

Total of (1:03)

Hourly output:

Direct Cost of Work Item = A+B+C = 51.44 Birr/kg.

Over head cost : 10% 5.144 "

Profit Cost: 15% 7.716 "

Total Unit Cost : 64.297 Birr/kg.

UF: UTILIZATION FACTOR

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ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT : G+1 DUPLEX REINFORCEMENT BARS

WORK ITEM: (1.20g) dia. 20 deformed bars

TOTAL QUANTITY OF WORK ITEM : 1 kg

LABOUR HOURLY OUTPUT: 12.5 kg./hr

EQUIPMENT:

RESULT: 62.98 Birr/kg.

Material Cost (1:01)					Labour (1:02)					Equipment Cost (1:03)			
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labour by Grade	No.	UF	** Indexed Hourly Cost	Hourly Cost	Type of Equipment	No.	Hourly Rental	Hourly Cost
ϕ20-deformed bars	kg	1.05	38.4	40.32	foreman	1	1	37.5	37.50				0
1.5 mm black Annealed wire	"	0.0125	5	0.0625	bar bender	1	1	31.25	31.25				0
				0	D/L	3	1	18.75	56.25				0
				0					0.00				0
				0					0.00				0
				0					0.00				0
				0					0.00				0
				0					0.00				0
				0					0.00				0
				0					0.00				0
Total (1:-01)				40.3825	**Total (1:02)**				125	**Total (1:03)**			0

A= Materials U 40.3825 Birr/kg.

B= Manpower Unit Cost 10.00 Birr/kg.

Total of (1:02)

Hourly Output: 11.25/12.5=0.90

C= Equipment Unit Co 0 Birr/kg.

Total of (1:03)

Hourly output:

Direct Cost of Work Item = A+B+C = 50.38 Birr/kg.

Over head cost : 10% 5.038 "

Profit Cost: 15% 7.557 "

Total Unit Cost : 62.978 Birr/kg.

UF: UTILIZATION FACTOR

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ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT : G+1 DUPLEX REINFORCEMENT BARS

WORK ITEM: (1.20e) dia. 14 deformed bars

LABOUR HOURLY OUTPUT: 12.5 kg./hr

EQUIPMENT:

RESULT: 63.33 Birr/kg.

AL QUANTITY OF WORK I 1 kg

Material Cost (1:01)					Labour (1:02)					Equipment Cost (1:03)			
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labour by Grade	No.	UF	** Indexed Hourly Cost	Hourly Cost	Type of Equipment	No.	Hourly Rental	Hourly Cost
ϕ14-deformed bars	kg	1.05	38.01	39.9105	foreman	1	1	37.5	37.50				0
1.5 mm black Annealed wire	"	0.0125	60	0.75	bar bender	1	1	31.25	31.25				0
				0	D/L	3	1	18.75	56.25				0
				0					0.00				0
				0					0.00				0
				0					0.00				0
				0					0.00				0
				0					0.00				0
				0					0.00				0
				0					0.00				0
				0					0.00				0
Total (1:-01)				40.6605	**Total (1:02)**				125	**Total (1:03)**			0

A= Materials U 40.6605 Birr/kg.

B= Manpower Unit Cost 10.00 Birr/kg.

Total of (1:02)

Hourly Output: _____ 11.25/12.5=0.90

C= Equipment Unit Co 0 Birr/kg.

Total of (1:03)

Hourly output: _____

Direct Cost of Work Item = A+B+C = 50.66 Birr/kg.

Over head cost : 10% 5.066 "

Profit Cost: 15% 7.599 "

Total Unit Cost : 63.326 Birr/kg.

UF: UTILIZATION FACTOR

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ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT:G+1 MULTIPURPOSE **MASONRY WORKS**

LABOUR HOURLY OUTPUT: 0.23 m³/hr.

WORK ITEM : (3.02) 50cm. thick masonry foundation (A.G.L)

EQUIPEMENT:

TOTAL QANTITY OF WORK ITEM: 1 m³

RESULT 2445.40 Birr/m³

Material Cost (1:01)					Labour (1:02)					Equipment Cost (1:03)			
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labour by Grade	No.	UF	** Indexed Hourly Cost	Hourly Cost	Type of Equipment	No.	Hourly Rental	Hourly Cost
Cement	Qnt.	0.88	385.00	338.8	Foreman	1	0.17	37.5	6.38				0
Sand	m³	0.17	464.00	78.88	Masone II	2	1	37.5	75.00				0
Stone	m³	1.25	687.00	858.75	D/L	4	1	18.75	75.00				0
				0					0.00				0
				0					0.00				0
				0					0.00				0
				0					0.00				0
				0					0.00				0
				0					0.00				0
Total (1:-01)				1276.43	**Total (1:02)**				156.38	**Total (1:03)**			0

A= Materia 1276.43 Birr/m³

B=Manpower Unit Cost 679.8913 Birr/m³

Total of (1:02)

Hourly Out 7.08/0.24 = 29.5

C=Equipment Unit Cost 0 Birr/m³

Total of (1:03)

Hourly output: _____

Direct Cost of work item = A + B + C = **1956.32** Birr/m³

Overhead Cost : 10% 195.63 "

Profit Cost: 15% 293.45 "

Total Unit Cost : **2445.40** Birr/m³

Remark : _____

UF: UTILIZATION FACTOR

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ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT:G+1 MULTIPURPOSE **MASONRY WORKS** LABOUR HOURLY OUTPUT: 0.5 m³/hr.

WORK ITEM : (3.01 ¸50cm. thick masonry foundation (B.G.L). EQUIPEMENT:

TOTAL QANTITY OF WORK ITEM: 1 m³ RESULT 2194.61 Birr/m³

Material Cost (1:01)					Labour (1:02)					Equipment Cost (1:03)			
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labour by Grade	No.	UF	** Indexed Hourly Cost	Hourly Cost	Type of Equipment	No.	Hourly Rental	Hourly Cost
Cement	Qtl..	0.92	385.00	354.2	Foreman	1	0.17	37.5	6.38				0
Sand	m³	0.26	464.00	120.64	Masone II	2	1	37.5	75.00				0
Stone	m³	1.3	687.00	893.1	D/L	6	1	18.75	112.50				0
				0					0.00				0
				0					0.00				0
				0					0.00				0
				0					0.00				0
				0					0.00				0
				0					0.00				0
Total (1:-01)				1367.94	**Total (1:02)**				193.88	**Total (1:03)**			0

A= Materia 1367.94 Birr/m³ B=Manpower Unit Cost 387.75 Birr/m³ C=Equipment Unit Cost 0 Birr/m³

Total of (1:02) Total of (1:03)

Hourly Output Hourly output: _____

Direct Cost of work item = A + B + C = **1755.69** Birr/m³

Overhead Cost : 10% 175.57 "

Profit Cost: 15% 263.35 "

Total Unit Cost : **2194.61** Birr/m³

Remark : _____

UF: UTILIZATION FACTOR

*: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.

**: INCLUSIVE OF BENEFITS, TRAVEL SUBSIDES AND COST OF OVERTIME RELATED TO TARGETED OUTPUT.

ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT: **G+1 DUPLEX FORM WORKS**

WORK ITEM: (2.03) For Foundation Footing & Column.

LABOUR HOURLY OUTPUT: 0.6 m^2/hr.

EQUIPEMENT:

RESULT: 622.47 Birr/m^2

TOTAL QANTITY OF WORK ITEM: 1 m^2

Material Cost (1:01)					Labour (1:02)					Equipment Cost (1:03)			
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labour by Grade	No.	UF	** Indexed Hourly Cost	Hourly Cost	Type of Equipment	No.	Hourly Rental	Hourly Cost
2.5cm thick timber	M^2	1.05	325	341.25	Foreman	1	0.167	37.5	6.25				0
40 x 50 cm. battens	M	0.32	56.25	18	Carpenter	1	1	37.5	37.50				0
Nails	Kg	0.05	65	3.25	Helper	1	1	18.75	18.75				0
Mould Oil	Lit.	0.015	4	0.06	D/L	1	1	18.75	18.75				0
									0.00				0
									0.00				0
									0.00				0
									0.00				0
									0.00				0
									0.00				0
									0.00				0
Total (1:-01)				362.56	**Total (1:02)**				81.25	**Total (1:03)**			0

Materials Unit Cost 362.56 Birr/m^2

B= Manpower Unit Cost 135.42 Birr/m^2

Total of (1:02)

Hourly Output: _____

C=Equipment Unit Cost 0 Birr/m^2

Total of (1:03)

Hourly output: _____

Direct Cost of Work Item = A+B+C = 497.98 Birr/m^2

Over head cost : 10% 49.80 Birr/m^2

Profit Cost: 15% 74.70 Birr/m^2

Total Unit Cost : 622.47 Birr/m^2

UF: UTILIZATION FACTOR

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**: INCLUSIVE OF BENEFITS, TRAVEL SUBSIDES AND COST OF OVERTIME RELATED TO TARGETED OUTPUT.

ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT: G+1 DUPLEX **FORM WORK**
WORK ITEM: _ (2.03) For Grade Beam.

LABOUR HOURLY OUTPUT: 0.5 m^2/hr.
EQUIPEMENT:
RESULT: 654.52 Birr/m^2

TOTAL QUANTITY OF WORK ITEM : 1 m^2

Material Cost (1:01)					Labour (1:02)					Equipment Cost (1:03)			
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labour by Grade	No.	UF	** Indexed Hourly Cost	Hourly Cost	Type of Equipment	No.	Hourly Rental	Hourly Cost
2.5cm thick timber	M^2	1.05	325	341.25	Foreman	1	0.167	37.5	6.26				0
50 x 70 cm battens	M	0.11	25	2.75	Carpenter	1	1	37.5	37.50				0
Strut 0 60 mm	M	0.1	6	0.6	Helper	1	1	18.75	18.75				0
Nails	Kg	0.25	65	16.25	D/L	1	1	18.75	18.75				0
Mould Oil	Lit.	0.06	4	0.24					0.00				0
									0.00				0
									0.00				0
									0.00				0
									0.00				0
									0.00				0
Total (1:-01)				361.09	**Total (1:02)**				81.26	**Total (1:03)**			0

A Materials Unit Cost 361.09 Birr/m^2

B= Manpower Unit Cost 162.525 Birr/m^2

Total of (1:02)
Hourly Output:

C=Equipment Unit Cost 0 Birr/m^2

Total of (1:03)
Hourly output: _____

Direct Cost of Work Item = A+B+C = 523.62 Birr/m^2

Over head cost : 10% 52.36 Birr/m^2

Profit Cost: 15% 78.54 Birr/m^2

Total Unit Cost : __ 654.52 Birr/m^2

UF: UTILIZATION FACTOR

*: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.

**: INCLUSIVE OF BENEFITS, TRAVEL SUBSIDES AND COST OF OVERTIME RELATED TO TARGETED OUTPUT.

ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT: G+1 DUPLEX **FORM WORK**

WORK ITEM: (1.02) For Elevation Column.

TOTAL QUANTITY OF WORK ITEM : _ 1 m^2

LABOUR HOURLY OUTPUT: _ 0.5 m^2/hr.

EQUIPEMENT:

RESULT: 670.27 Birr/m^2

Material Cost (1:01)					Labour (1:02)					Equipment Cost (1:03)			
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labour by Grade	No.	UF	** Indexed Hourly Cost	Hourly Cost	Type of Equipment	No.	Hourly Rental	Hourly Cost
2.5cm thick timber	M^2	1.05	325	341.25	Foreman	1	0.167	37.5	6.26				0
50 x 70 cm battens	M	0.46	25	11.50	Carpenter	1	1	37.5	37.50				0
Strut 60 mm. dia.	M	0.2	6	1.2	Helper	1	1	18.75	18.75				0
Nails	Kg	0.3	65	19.5	D/L	1	1	18.75	18.75				0
Mould Oil	Lit.	0.06	4	0.24					0.00				0
									0.00				0
									0.00				
									0.00				
									0.00				
									0.00				
Total (1:-01)				373.69	**Total (1:02)**				81.26	**Total (1:03)**			0.00

A Materials Unit Cost 373.69 Birr/m^2

B= Manpower Unit Cost 162.525 Birr/m^2

C=Equipment Unit Cost 0 Birr/m^2

Total of (1:02)

Hourly Output:

Total of (1:03)

Hourly output: _____

Direct Cost of Work Item = A+B+C = 536.22 Birr/m^2

Over head cost : __ 10% 53.62 Birr/m^2

Profit Cost: 15% 80.43 Birr/m^2

Total Unit Cost : _ 670.27 Birr/m^2

UF: UTILIZATION FACTOR

*: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.

ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT:G+1 DUPLEX **FORM WORK**

WORK ITEM: (1.02) For Suspended slab (150mm)

TOTAL QUANTITY OF WORK ITEM : 1 m^2

LABOUR HOURLY OUTPUT: 1 M^2/hr

EQUIPEMENT:

RESULT 648.57 Birr/m^2

Material Cost (1:01)					Labour (1:02)					Equipment Cost (1:03)			
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labour by Grade	No.	UF	** Indexed Hourly Cost	Hourly Cost	Type of Equipment	No.	Hourly Rental	Hourly Cost
2.5cm thick timber	M^2	1.05	375	393.75	Foreman	1	0.167	37.50	6.26				0
50 x 70 cm battens	M	0.84	25	21	Carpenter	1	1	37.5	37.50				0
50 x 70 cm battens	M	0.1	25	2.5	Helper	1	1	18.75	18.75				0
Strut 0 60 mm	M	0.1	6	0.6	D/L	1	1	18.75	18.75				0
Nails	Kg	0.3	65	19.5					0.00				0
Mould Oil	Lit.	0.06	4	0.24					0.00				0
				0					0.00				0
				0					0.00				0
				0					0.00				0
									0.00				0
Total (1:-01)				437.59	**Total (1:02)**				81.26	**Total (1:03)**			0.00

A= Materials Unit Co: 437.59 Birr/m^2

B= Manpower Unit Cost 81.26 Birr/m^2

C=Equipment Unit Cost 0 Birr/m^2

Total of (1:02)

Hourly Output:

Total of (1:03)

Hourly output: _____

Direct Cost of Work Item = A+B+C = _ 518.85 Birr/m^2

Over head cost : _ 10% 51.89 Birr/m^2

Profit Cost: 15% 77.83 Birr/m^2

Total Unit Cost : 648.57 Birr/m^2

UF: UTILIZATION FACTOR

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ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT: :G+1 DUPLEX **ROOFING WORKS**
LABOUR HOURLY OUTPUT: _ 2.8 m/hr.
WORK ITEM 3.04 Flashing Development Size 19 cm.
EQUIPEMENT:
RESULT: _____ 183.09 Birr/m.

TOTAL QANTITY OF WORK ITEM: 1 m

Material Cost (1:01)					Labour (1:02)					Equipment Cost (1:03)			
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labour by Grade	No.	UF	** Indexed Hourly Cost	Hourly Cost	Type of Equipment	No.	Hourly Rental	Hourly Cost
G28 Sheet Metal Flasing				0	Foreman	1	0.167	37.5	6.26				0
Dev. Size 19 cm.	ml.	1.05	110	115.5	Carpenter	1	1	37.5	37.50				0
Nails	kg	0.03	65	1.95	Helper	1	1	18.75	18.75				0
				0	D/L	1	1	18.75	18.75				0
				0					0.00				0
				0					0.00				0
				0					0.00				0
									0.00				0
Total (1:-01)				117.45	**Total (1:02)**				81.26	**Total (1:03)**			0.00

A Materials Unit Cost 117.45 Birr/m

B= Manpower Unit Cost _ 29.02 Birr/m

Total of (1:02)

Hourly Output 7.73/2.8 = 2.75

C=Equipment Unit Cost 0 Birr/m

Total of (1:03)

Hourly output: _____

Direct Cost of Work Item = A+B+C = 146.47 Birr/m.

Over Head : 10% 14.65 Birr/m.

Profit Cost: 15% 21.97 Birr/m.

Total Unit Cost : 183.09 Birr/m.

Remark _____

UF: UTILIZATION FACTOR

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**: INCLUSIVE OF BENEFITS, TRAVEL SUBSIDES AND COST OF OVERTIME RELATED TO TARGETED OUTPUT.

ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT: G+1 DUPLEX **ROOFING WORKS**
WORK ITEM: 3.03 Down Pipe Development Size 33 cm.

LABOUR HOURLY OUTPUT: 3.4 m/hr
EQUIPMENT:
RESULT: 24.97 Birr/m.

TOTAL QUANTITY OF WORK ITEM: 1 m.

Material Cost (1:01)					Labour (1:02)					Equipment Cost (1:03)			
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labour by Grade	No.	UF	** Indexed Hourly Cost	Hourly Cost	Type of Equipment	No.	Hourly Rental	Hourly Cost
G28 Sheet Metal Down				0	Foreman	1	0.167	5	0.84				0
Pipe Dev. Size 33 cm.	ml.	1.05	14	14.7	Carpenter	1	1	3.75	3.75				0
Staffa For Down P	pcs.	2	1.5	3	Helper	1	1	1.9	1.90				0
				0	D/L	1	1	1.25	1.25				0
				0					0.00				0
				0					0.00				0
				0					0.00				0
				0					0.00				0
									0.00				0
Total (1:-01)				17.70	**Total (1:02)**				7.74	**Total (1:03)**			0.00

A= Materials Unit 17.7 Birr/m B= Manpower Unit Cost 2.28 Birr/m C=Equipment Unit Cost 0 Birr/m

Total of (1:02)
Hourly Output: 7.73/3.4

Total of (1:03)
Hourly output: _____

Direct Cost of Work Item = A+B+C = 19.98 Birr/m.
Over head cost : 10% 2.00 Birr/m.
Profit Cost: 15% 3.00 Birr/m.
Total Unit Cost : 24.97 Birr/m.

Remark _____

UF: UTILIZATION FACTOR
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ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT: G+1 DUPLEX **ROOFING WORKS** LABOUR HOURLY OUTPUT: 2.6 m/hr

WORK ITEM: (3.06) Gutter Development Size 40 cm. EQUIPEMENT:

RESULT: 318.44 Birr/m.

TOTAL QANTITY OF WORK ITEM: 1 m

Material Cost (1:01)					Labour (1:02)					Equipment Cost (1:03)			
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labour by Grade	No.	UF	** Indexed Hourly Cost	Hourly Cost	Type of Equipment	No.	Hourly Rental	Hourly Cost
G28 Sheet Metal Gutter				0	Foreman	1	0.167	37.5	6.26				0
Dev. Size40 cm.	m	1.05	210	220.5	Carpenter	1	1	37.5	37.50				0
Staffa For Gutter	pcs.	2	1.5	3	Helper	1	1	18.75	18.75				0
				0	D/L	1	1	18.75	18.75				0
				0					0.00				0
				0					0.00				0
				0					0.00				0
				0					0.00				0
Total (1:-01)				223.50	**Total (1:02)**				81.26	**Total (1:03)**			0.00

A= Materials Unit 223.5 birr/m. B= Manpower Unit Cost 31.25 Birr/m C=Equipment Unit Cost 0 Birr/m

Total of (1:02) Total of (1:03)

Hourly Output: 7.73/2.6 Hourly output: _____

Direct Cost of Work Item = A+B+C = 254.75 Birr/m.

Over head cost : 10% 25.48 Birr/m.

Profit Cost: 15% 38.21 Birr/m.

Total Unit Cost 318.44 Birr/m.

Remark _____

UF: UTILIZATION FACTOR

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ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT: G+1 DUPLEX **ROOFING WORKS**
WORK ITEM: (3.05) 20 cm. Wide Kerrero Facia Board

LABOUR HOURLY OUTPUT: 1.5 ml./hr.
EQUIPEMENT:
RESULT: 271.19 Birr/m.

TOTAL QANTITY OF WORK ITEM: 1 ml.

Material Cost (1:01)					Labour (1:02)					Equipment Cost (1:03)			
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labour by Grade	No.	UF	** Indexed Hourly Cost	Hourly Cost	Type of Equipment	No.	Hourly Rental	Hourly Cost
20 cm. Wide Faciaboard	ml.	1.1	150	165.00	Carpenter1	1	1	37.5	37.50				0.00
Nails	kg.	0.03	65	1.95	D/L	2	1	18.75	37.50				0.00
				0.00				.					0.00
				0.00					0.00				0.00
				0.00					0.00				0.00
				0.00					0.00				0.00
				0.00					0.00				0.00
				0.00					0.00				0.00
				0.00					0.00				0.00
Total (1:01)				166.95	**Total (1:02)**				75.00	**Total (1:03)**			0.00

A= Materials Unit 166.95 birr/m.

B= Manpower Unit Cost 50.00 Birr/m

Total of (1:02)
Hourly Output: 10.88/7

C= Equipment Unit C 0 Birr/m

Total of (1:03)
Hourly output: _____

Direct Cost of Work Item = A+B+C = 216.95 Birr/m.
Over head cost : 10% 21.70 Birr/m.
Profit Cost: 15% 32.54 Birr/m.
Total Unit Cost : 271.19 Birr/m.

Remark _____

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ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT: G+1 DUPLEX **ROOFING WORKS** LABOUR HOURLY OUTPUT: 8.59 ml./hr.

WORK ITEM: (4.01) 10 cm. dia. Upper & Lower Chords Eucaliptus Wood. EQUIPEMENT:

RESULT: 33.53 Birr/ml.

TAL QANTITY OF WORK ITE 17.89 ml. = 1 Trusse

Material Cost (1:01)					Labour (1:02)					Equipment Cost (1:03)			
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labour by Grade	No.	UF	** Indexed Hourly Cost	Hourly Cost	Type of Equipment	No.	Hourly Rental	Hourly Cost
O 10 cm. Upper Chord	ml.	9.22	7.5	69.15	Foreman	1	0.25	37.5	9.375				0.00
O 10 cm. Lower Chord	"	8.67	7.5	65.03	Carpenter2	1	1	37.5	37.5				0.00
10 - 12 cm. Nails	kg.	1.11	65	72.15	Helper	2	1	18.75	37.5				0.00
Fixing Bands	"	1.78	55	97.90					0				0.00
				0.00					0				0.00
				0.00					0				0.00
				0.00					0				0.00
				0.00					0				0.00
Total (1:-01)				304.23	**Total (1: 02)**				84.38	**Total (1:03)**			0.00

AMaterials Unit Cost 17.01 Birr/ml. B= Manpower Unit Cost 9.82 Birr/ml. C= Equipment Unit Cost

Total of (1:02) Total of (1:03)

Hourly Output: _____ Hourly output: _____

Direct Cost of Work Item = A+B+C = 26.83 Birr/ml.

Over head cost : 10% 2.68 "

Profit Cost: 15% 4.02 "

Total Unit Cost : 33.53 Birr/ml.

Remark _____

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ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT: **ROOFING WORKS** LABOUR HOURLY OUTPUT: 3.5 m^2/hr.

WORK ITEM: (3.02) G30 C I S Roofing (Without Truss & Purlin) EQUIPEMENT:

TOTAL QANTITY OF WORK 108 M^2 RESULT: 243.10 Birr/m^2

Material Cost (1:01)					Labour (1:02)					Equipment Cost (1:03)			
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labour by Grade	No.	UF	** Indexed Hourly Cost	Hourly Cost	Type of Equipment	No.	Hourly Rental	Hourly Cost
G32 CIS	m^2	108.00	147	15876.00	Foreman	1	0.167	37.5	6.2625				0.00
Roofing nails.	kg.	12	80	960.00	Carpentr1	1	1	37.5	37.5				0.00
Plastic Washer.	pkt.	5	7	35.00	Helper	1	1	18.75	18.75				0.00
Ridge cover.	ml.	13	125	1625.00	D/L	1	1	18.75	18.75				0.00
				0.00					0				0.00
				0.00					0				0.00
				0.00					0				0.00
				0.00					0				0.00
				0.00					0				0.00
Total (1:-01)				18496.00	**Total (1: 02)**				81.26	**Total (1:03)**			0.00

A Materials Unit Cost 171.26 Birr/m^2 B= Manpower Unit Cost 23.21786 Birr/m^2 C= Equipment Unit C 0

Total of (1:02) Total of (1:03)

Hourly Output: _____ Hourly output: _____

Direct Cost of Work Item = A+B+C = 194.48 Birr/m^2

Over head cost : 10% 19.45 "

Profit Cost: 15% 29.17 "

Total Unit Cost : 243.10 Birr/m^2

Remark _____

UF: UTILIZATION FACTOR

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ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT: G+1 DUPLEX **ROOFING WORKS**

LABOUR HOURLY OUTPUT: 8.59 ml./hr.

WORK ITEM: (4.02) 6 cm. dia. Vertical & Diagonal Members of a Truss

EQUIPEMENT:

TOTAL QANTITY OF WORK ml. = 1

ITEM: 8.78 Trusse

RESULT: 45.98 Birr/ml.

Material Cost (1:01)					Labour (1:02)					Equipment Cost (1:03)			
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labour by Grade	No.	UF	** Indexed Hourly Cost	Hourly Cost	Type of Equipment	No.	Hourly Rental	Hourly Cost
O 6 cm. Eucaliptus Wood	ml.	8.78	25	219.50	Foreman	1	0.25	37.5	9.375				0.00
6 - 8 cm. Nails	kg.	0.56	65	36.40	Carpenter1	1	1	37.5	37.5				0.00
				0.00	Helper	1	1	18.75	18.75				0.00
				0.00					0				0.00
				0.00					0				0.00
				0.00					0				0.00
				0.00					0				0.00
				0.00					0				0.00
Total (1:-01)				255.90	**Total (1: 02)**				65.63	**Total (1:03)**			0.00

A Materials Unit Cost 29.15 Birr/ml.

B= Manpower Unit Cost 7.64 Birr/ml.

C= Equipment Unit Cost

Total of (1:02)

Hourly Output: _____

Total of (1:03)

Hourly output: _____

Direct Cost of Work Item = A+B+C = 36.79 Birr/ml.

Over head cost : 10% 3.68 "

Profit Cost: 15% 5.52 "

Total Unit Cost : 45.98 Birr/ml.

Remark _____

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ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT: G+1 DUPLEX **ROOFING WORKS** LABOUR HOURLY OUTPUT: 7 ml./hr.

WORK ITEM: (4.03) 5 X 7 cm. Tid Wood Roof Purlin EQUIPEMENT:

TOTAL QANTITY OF WORK ITEM: 14.11 ml. = 1 Trusse RESULT: 94.74 Birr/ml.

Material Cost (1:01)					Labour (1:02)					Equipment Cost (1:03)			
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labour by Grade	No.	UF	** Indexed Hourly Cost	Hourly Cost	Type of Equipment	No.	Hourly Rental	Hourly Cost
5 X 7 cm. Tid Purlin	ml.	14.11	56.25	793.69	Foreman	1	0.167	37.5	6.2625				0.00
6 - 8 cm. Nails	kg.	0.56	65	36.40	Carpenter2	1	1	37.5	37.5				0.00
				0.00	Helper	1	1	18.75	18.75				0.00
				0.00	D/L	3	1	18.75	56.25				0.00
				0.00					0				0.00
				0.00					0				0.00
				0.00					0				0.00
				0.00					0				0.00
				0.00					0				0.00
				0.00					0				0.00
Total (1:-01)				830.09	**Total (1: 02)**				118.76	**Total (1:03)**			0.00

A Materials Unit Cost 58.83 Birr/ml.

B= Manpower Unit Cost 16.97 Birr/ml.

Total of (1:02)

Hourly Output: _____

C= Equipment Unit Cost

Total of (1:03)

Hourly output: _____

Direct Cost of Work Item = A+B+C = 75.80 Birr/ml.

Over head cost : 10% 7.58 "

Profit Cost: 15% 11.37 "

Total Unit Cost : 94.74 Birr/ml.

Remark _____

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ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT: G+1 MULTI PURPOSE **WALLING**

WORK ITEM: (2.01) 20 cm. thick HCB Wall Both Sides Left For Plastering.

LABOUR HOURLY OUTPUT: 0.8 m²/hr.

EQUIPEMENT:

RESULT: 378.19 Birr/m²

TAL QANTITY OF WORK ITE 1 m²

Material Cost (1:01)					Labour (1:02)					Equipment Cost (1:03)			
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labour by Grade	No.	UF	** Indexed Hourly Cost	Hourly Cost	Type of Equipment	No.	Hourly Rental	Hourly Cost
15 cm.Thick HCB	Pcs.	13	10	130	Foreman	1	1	37.5	37.50				0
Cement	Qt.	0.08	385	30.8	Mason	1	1	37.5	37.5				0
Sand	m³	0.002	562	1.124	D/L	2	1	18.75	37.5				0
Water	m³	0.004	0.75	0.0030					0				0
				0					0				0
				0					0				0
				0					0				0
Total (1:-01)				161.93	**Total (1:02)**				112.50	**Total (1:03)**			0.00

A Materials Unit Cost 161.93 Birr/m²

B= Manpower Unit Cost 140.63 Birr/m²

Total of (1:02)

Hourly Output: _____

C=Equipment Unit Co: 0 Birr/m²

Total of (1:03)

Hourly output: _____

Direct Cost of Work Item = A+B+C = 302.55 Birr/m²

Over head cost : 10% 30.26 "

Profit Cost: 15% 45.38 "

Total Unit Cost : 378.19 Birr/m²

Remark : Mortar Quantity (1:3) With 15 % Wastage = 0.0138 m³/m²

UF: UTILIZATION FACTOR

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ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT: G+1 MULTI PURPOSE **WALLING**

WORK ITEM: (2.02) 15 cm. thick HCB Wall Both Sides Left For Plastering.

LABOUR HOURLY OUTPUT: 0.8 m^2/hr.

EQUIPEMENT:

RESULT: 361.93 Birr/m^2

TAL QANTITY OF WORK ITE 1 m^2

Material Cost (1:01)					Labour (1:02)					Equipment Cost (1:03)			
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labour by Grade	No.	UF	** Indexed Hourly Cost	Hourly Cost	Type of Equipment	No.	Hourly Rental	Hourly Cost
15 cm. Thick HCB	Pcs.	13	9	117	Foreman	1	1	37.5	37.50				0
Cement	Qt.	0.061	385	23.485	Mason	1	1	37.5	37.5				0
Sand	m^3	0.015	562	8.43	D/L	2	1	18.75	37.5				0
Water	m^3	0.004	0.75	0.0030					0				0
				0					0				0
				0					0				0
				0					0				0
Total (1:-01)				148.92	**Total (1:02)**				112.50	**Total (1:03)**			0.00

A Materials Unit Cost 148.92 Birr/m^2

B= Manpower Unit Cost 140.63 Birr/m^2

Total of (1:02)

Hourly Output: _____

C=Equipment Unit Co: 0 Birr/m^2

Total of (1:03)

Hourly output: _____

Direct Cost of Work Item = A+B+C =		289.54 Birr/m^2
Over head cost :	10%	28.95 "
Profit Cost:	15%	43.43 "
Total Unit Cost :		361.93 Birr/m^2

Remark : Mortar Quantity (1:3) With 15 % Wastage = 0.0138 m^3/m^2

UF: UTILIZATION FACTOR

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ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT: **CARPETRY & JOINERY**

WORK ITEM : (4) Framed & Panelled solid Doors & Windows .

LABOUR HOURLY OUTPUT: 1.13 pcs./hr.

EQUIPEMENT:

RESULT **1161.22** Birr/m²

)TAL QANTITY OF WORK ITE 1 pcs. 1.89 m²

Material Cost (1:01)					Labour (1:02)					Equipment Cost (1:03)			
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labour by Grade	No.	UF	** Indexed Hourly Cost	Hourly Cost	Type of Equipment	No.	Hourly Rental	Hourly Cost
Making & Fixing										Compinanto	2	40.00	80.00
Tid wood frame (external)	m³	0.051	4500.00	229.50	Carpenter	1	1	37.5	37.50	Vice	1	26.00	26.00
Tid wood frame (internal)	m³	0.03	45000.00	1350.00	Helper	1	1	37.5	37.50				0.00
T & G Tidwood panel.	m²	1.26	650.00	819	Foreman	1	0.167	37.5	6.26				0.00
Door list.	ml.	5.1	36.00	183.6	Carpenter	1	1	37.5	37.50				0.00
Cylinderical Lock(Hungary)	Pcs.	1	150.00	150	Helper	1	1	18.75	18.75				0.00
Hinges	"	3	30.00	90					0.00				0.00
Screw	"	10	2.00	20					0.00				0.00
Colla	lit.	0.4	140.00	56					0.00				0.00
Nails of diff. Sizes.	kg.	0.2	65.00	13					0.00				0.00
Total (1:-01)				2911.10	**Total (1:02)**				137.51	**Total (1:03)**			106.00

A= Material unit cos **1540.265** Birr/m2.

B=Manpower Unit Cost **121.69** Birr/m²

C=Equipment Unit Cost **93.81** Birr/m²

	Total of (1:02)		Total of (1:03)
	Hourly Output		Hourly output:
Direct Cost of work item = A + B + C =		**1755.76**	Birr/pcs.
Overhead Cost :	10%	175.58	"
Profit Cost:	15%	263.36	"
Total Unit Cost :		**2194.70**	Birr/pcs.

UF: UTILIZATION FACTOR

*: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.

ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT: G+1 MULTIPURPOSE **GLAZING WORKS**

WORK ITEM: (8.01) Fixing 4mm clear glass.

TOTAL QANTITY OF WORK ITEM: 1 m^2

LABOUR HOURLY OUTPUT: 1.55 m^2/hr

EQUIPEMENT:

RESULT: 567.29 Birr/m^2

Material Cost (1:01)					Labour Cost (1:02)					Equipment Cost (1:03)			
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labour by Grade	No.	UF	** Indexed Hourly Cost	Hourly Cost	Type of Equipment	No.	Hourly Rental	Hourly Cost
4 mm. clear glass	m^2	1.1	365	401.5	Foreman	1	0.167	37.5	6.2625				0
Putty	kg	0.4	30	12	Glazer	1	1	37.5	37.5				0
				0	DL	1	1	18.75	18.75				0
				0									0
				0									0
				0									0
				0									0
				0									0
	Total (1:01)			413.5	**Total (1:02)**				62.5125	**Total (1:03)**			0

A Materials Unit Cost 413.5 Birr/m^2

B= Manpower Unit Cost 40.33 Birr/m^2

Total of (1:02) 5.23

Hourly Output: _____ 1.55

C= Equipment Unit C 0 Birr/m^2

Total of (1:03)

Hourly output: _____

Direct Cost of Work Item = A+B+C = 453.83 Birr/m^2

Over head cost : 10% 45.38 "

Profit Cost: 15% 68.07 "

Total Unit Cost : _ 567.29 Birr/m^2

Remark _____

UF: UTILIZATION FACTOR

*: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.

**: INCLUSIVE OF BENEFITS, TRAVEL SUBSIDES AND COST OF OVERTIME RELATED TO TARGETED OUTPUT.

ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

OJECT: G+1 MULTIPURPOSE **GLAZING WOF**

WORK ITEM: _ (8.02) Fixing 4 mm. Frosted glass

LABOUR HOURLY OUTPUT: 1.55 m²/hr

EQUIPEMENT:

RESULT: 710.66 Birr/m²

TOTAL QANTITY OF WORK ITEM: 1 m²

Material Cost (1:01)					Labour Cost (1:02)					Equipment Cost (1:03)			
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labour by Grade	No.	UF	** Indexed Hourly Cost	Hourly Cost	Type of Equipment	No.	Hourly Rental	Hourly Cost
4mm frosted glass	m²	1.1	470	517	Foreman	1	0.167	37.5	6.2625				0
Putty	kg	0.4	30	12	Glazer	1	1	37.5	37.5				0
				0	D/L	1	1	17.5	17.5				0
				0					0				0
				0					0				0
				0					0				0
				0					0				0
	Total (1:01)			529	**Total (1:02)**				61.2625	**Total (1:03)**			0

A Materials Unit Cost 529 Birr/m²

B= Manpower Unit Cost 39.52 Birr/m²

Total of (1:02) 5.23

Hourly Output: _____ 1.55

C= Equipment Unit C 0 Birr/m²

Total of (1:03)

Hourly output: _____

Direct Cost of Work Item = A+B+C = 568.52 Birr/m²

Over head cost : _ 10% 56.85 "

Profit Cost: 15% 85.28 "

Total Unit Cost : _ 710.66 Birr/m²

Remark _____

UF: UTILIZATION FACTOR

*: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.

**: INCLUSIVE OF BENEFITS, TRAVEL SUBSIDES AND COST OF OVERTIME RELATED TO TARGETED OUTPUT.

ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT: G+1 MULTIPURPOSE **FINISHING WORKS.**
LABOUR HOURLY OUTPUT: 0.5 m^2/hr
WORK ITEM: (6.1) 3 Coats of cement plastering (1:3)
EQUIPEMENT:
TOTAL QANTITY OF WORK ITEM: 1 m^2
RESULT : 354.83 Birr/m^2

Material Cost (1:01)					Labour Cost (1:02)					Equipment Cost (1:03)			
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labour by Grade	No.	UF	** Indexed Hourly Cost	Hourly Cost	Type of Equipment	No.	Hourly Rental	Hourly Cost
cement	qt.	0.14	385	53.9	Foreman	1	0.167	37.5	6.26				0
sand	m^3	0.036	464	16.704	Plasterer	1	1	37.5	37.5				0
water	m^3	0.0065	10	0.065	Chilser	1	1	31.25	31.25				0
				0	D/L	2	1	18.75	37.5				0
				0					0				0
				0					0				0
				0					0				0
				0					0				0
				0					0				0
	Total (1:01)			70.67	**Total (1:02)**				112.51	**Total (1:03)**			0

A= Materials Unit 70.669 Birr/m^2

B= Manpower Unit Cost 225.03 Birr/m^2

Total of (1:02)
Hourly Output: _____

C= Equipment Unit C 0 Birr/m^2

Total of (1:03)
Hourly output: _____

Direct Cost of Work Item = A+B+C =		295.69	Birr/m^2
Over head cost : _	10%	29.57	"
Profit Cost:	10%	29.57	"
Total Unit Cost : _		354.83	Birr/m^2

Remark _____

UF: UTILIZATION FACTOR

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**: INCLUSIVE OF BENEFITS, TRAVEL SUBSIDES AND COST OF OVERTIME RELATED TO TARGETED OUTPUT.

ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT: G+1 MULTIPURPOSE **F**

WORK ITEM: (6.1d) 2 Coats of cement plastering to soffit celling.

TOTAL QANTITY OF WORK ITEM: 1 m^2

LABOUR HOURLY OUTPUT: 0.67 m^2/hr

EQUIPEMENT:

RESULT : 222.29 Birr/m^2

Material Cost (1:01)					Labour Cost (1:02)					Equipment Cost (1:03)			
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labour by Grade	No.	UF	** Indexed Hourly Cost	Hourly Cost	Type of Equipment	No.	Hourly Rental	Hourly Cost
cement	qt.	0.076	385	29.26	Foreman	1	0.167	37.5	6.26				0
sand	m^3	0.0186	464	8.6304	Plasterer	1	1	37.5	37.5				0
water	m^3	0.0007	0.75	0.001	Chilser	1	1	31.25	31.25				0
				0	D/L	1	1	18.75	18.75				0
				0					0				0
				0					0				0
				0					0				0
				0					0				0
	Total (1:01)			37.89	**Total (1:02)**				93.76	**Total (1:03)**			0

A Materials Unit Cost 37.89 Birr/m^2

B= Manpower Unit Cost 139.94 Birr/m^2

Total of (1:02)

Hourly Output: _____

C= Equipment Unit C 0 Birr/m^2

Total of (1:03)

Hourly output: _____

Direct Cost of Work Item = A+B+C = 177.83 Birr/m^2

Over head cost : _ 10% 17.78 "

Profit Cost: 15% 26.68 "

Total Unit Cost : _ 222.29 Birr/m^2

Remark _____

UF: UTILIZATION FACTOR

*: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.

**: INCLUSIVE OF BENEFITS, TRAVEL SUBSIDES AND COST OF OVERTIME RELATED TO TARGETED OUTPUT.

ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

": G+1 MULTIPURPOSE **FINISHING**

LABOUR HOURLY OUTPUT: 0.6 m²/hr

WORK ITEM : 6.01 2 Coats of cement plastering to exposed beams and columns.

EQUIPEMENT:

RESULT : 276.42 Birr/m²

TOTAL QANTITY OF WORK ITEM: 1 m²

Material Cost (1:01)					Labour Cost (1:02)					Equipment Cost (1:03)			
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labour by Grade	No.	UF	** Indexed Hourly Cost	Hourly Cost	Type of Equipment	No.	Hourly Rental	Hourly Cost
cement	qt.	0.097	385	37.345	Foreman	1	0.167	37.5	6.26				0
sand	m³	0.024	464	11.136	Plasterer	1	1	37.5	37.5				0
water	m³	0.0045	0.75	0.003	Chilser	1	1	31.25	31.25				0
				0	D/L	1	1	18.75	18.75				0
				0					0				0
				0					0				0
				0					0				0
				0					0				0
	Total (1:01)			48.48	**Total (1:02)**				93.76	**Total (1:03)**			0

A Materials Unit Cost 48.48 Birr/m²

B= Manpower Unit Cost 156.27 Birr/m²

Total of (1:02)

Hourly Output: _____

C= Equipment Unit C 0 Birr/m²

Total of (1:03)

Hourly output: _____

Direct Cost of Work Item = A+B+C = 204.76 Birr/m²

Over head cost : _ 10% 20.48 "

Profit Cost: 25% 51.19 "

Total Unit Cost : _ 276.42 Birr/m²

Remark _____

UF: UTILIZATION FACTOR

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ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT: G+1 MULTIPURPOSE **FINISHING WORKS.**

LABOUR HOURLY OUTPUT: 2.5 m²/hr

WORK ITEM: (6.06) 1 coat (final coat) gypsum plastering .

EQUIPEMENT:

TOTAL QANTITY OF WORK ITEM: 1 m²

RESULT : 53.28 Birr/m²

Material Cost (1:01)					Labour Cost (1:02)					Equipment Cost (1:03)			
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labour by Grade	No.	UF	** Indexed Hourly Cost	Hourly Cost	Type of Equipment	No.	Hourly Rental	Hourly Cost
gypsum	qt.	0.048	500	24	Foreman	1	0.25	5	1.25	Tools	1	4.44	4.44
sand	m³	0.012	464	5.568	Plasterer	1	1	25	25				0
water	m³	0.002	10	0.020	helper	1	1	1.9	1.9				0
				0					0				0
				0					0				0
				0					0				0
				0					0				0
	Total (1:01)			29.59	**Total (1:02)**				28.15	**Total (1:03)**			4.44

A Materials Unit Cost 29.59 Birr/m²

B= Manpower Unit Cost 11.26 Birr/m²

Total of (1:02)

Hourly Output: _____

C= Equipment Unit C 1.78 Birr/m²

Total of (1:03)

Hourly output: _____

Direct Cost of Work Item = A+B+C = 42.62 Birr/m²

Over head cost : _ 10% 4.26 "

Profit Cost: 15% 6.39 "

Total Unit Cost : _ 53.28 Birr/m²

Remark 3.Coats of rendering (3+4) 53.28

UF: UTILIZATION FACTOR

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**: INCLUSIVE OF BENEFITS, TRAVEL SUBSIDES AND COST OF OVERTIME RELATED TO TARGETED OUTPUT.

ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT: G+1 MULTIPURPOSE **FINISHING WORKS.**

WORK ITEM: (6.01) 1 coat (final coat) cement rendering.

LABOUR HOURLY OUTPUT: 2.5 m^2/hr

EQUIPEMENT:

RESULT : 45.12 Birr/m^2

TOTAL QANTITY OF WORK ITEM: 1 m^2

Material Cost (1:01)					Labour Cost (1:02)					Equipment Cost (1:03)			
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labour by Grade	No.	UF	** Indexed Hourly Cost	Hourly Cost	Type of Equipment	No.	Hourly Rental	Hourly Cost
cement	qt.	0.048	360	17.28	Foreman	1	0.25	5	1.25	Tools	1	4.44	4.44
sand	m^3	0.012	480	5.76	Plasterer	1	1	25	25				0
water	m^3	0.002	10	0.020	helper	1	1	1.9	1.9				0
				0					0				0
				0					0				0
				0					0				0
				0					0				0
	Total (1:01)			23.06	**Total (1:02)**				28.15	**Total (1:03)**			4.44

A Materials Unit Cost 23.06 Birr/m^2

B= Manpower Unit Cost 11.26 Birr/m^2

Total of (1:02)

Hourly Output: _____

C= Equipment Unit C 1.78 Birr/m^2

Total of (1:03)

Hourly output: _____

Direct Cost of Work Item = A+B+C = 36.10 Birr/m^2

Over head cost : _ 10% 3.61 "

Profit Cost: 15% 5.41 "

Total Unit Cost : _ 45.12 Birr/m^2

Remark 3.Coats of rendering (3+4) 321.54

UF: UTILIZATION FACTOR

*: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.

**: INCLUSIVE OF BENEFITS, TRAVEL SUBSIDES AND COST OF OVERTIME RELATED TO TARGETED OUTPUT.

ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT: G+1 MULTIPURPOSE **FINISHING WORKS.**

WORK ITEM: (3.01) 3cm. Thick cement screed flooring (1:3).

TOTAL QANTITY OF WORK ITEM: 1 m^2

LABOUR HOURLY OUTPUT: 2.38 m^2/hr

EQUIPEMENT:

RESULT : 177.12 Birr/m^2

Material Cost (1:01)					Labour Cost (1:02)					Equipment Cost (1:03)			
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labour by Grade	No.	UF	** Indexed Hourly Cost	Hourly Cost	Type of Equipment	No.	Hourly Rental	Hourly Cost
cement	qt.	0.168	385	64.68	Foreman	1	0.167	37.5	6.26				0
sand	m^3	0.041	464	19.024	Plasterer	2	1	37.5	75				0
water	m^3	0.01	0.75	0.008	D/L	2	1	18.75	37.5				0
cement grout	qt.	0.021	385	8.085					0				0
				0					0				0
				0					0				0
				0					0				0
Total (1:01)				91.80	**Total (1:02)**				118.76	**Total (1:03)**			0

A Materials Unit Cost 91.80 Birr/m^2

B= Manpower Unit Cost 49.90 Birr/m^2

Total of (1:02)

Hourly Output: _____

C= Equipment Unit C 0 Birr/m^2

Total of (1:03)

Hourly output: _____

Direct Cost of Work Item = A+B+C = 141.70 Birr/m^2

Over head cost : _ 10% 14.17 "

Profit Cost: 15% 21.25 "

Total Unit Cost : _ 177.12 Birr/m^2

Remark _____

UF: UTILIZATION FACTOR

*: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.

**: INCLUSIVE OF BENEFITS, TRAVEL SUBSIDES AND COST OF OVERTIME RELATED TO TARGETED OUTPUT.

ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT: G+1 MULTIPURPOSE **FINISHING WORKS.** LABOUR HOURLY OUTPUT: 1.43 m²/hr

WORK ITEM: 5cm. Thick cement screed flooring (1:3). EQUIPEMENT:

TOTAL QANTITY OF WORK ITEM: 1 m² RESULT : 294.86 Birr/m²

Material Cost (1:01)					Labour Cost (1:02)					Equipment Cost (1:03)			
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labour by Grade	No.	UF	** Indexed Hourly Cost	Hourly Cost	Type of Equipment	No.	Hourly Rental	Hourly Cost
cement	qt.	0.28	385	107.8	Foreman	1	0.167	37.5	6.26				0
sand	m³	0.068	464	31.552	Plasterer	2	1	37.5	75				0
water	m³	0.01	0.75	0.008	D/L	2	1	18.75	37.5				0
cement grout	qt.	0.035	385	13.475					0				0
				0					0				0
				0					0				0
				0					0				0
				0					0				0
Total (1:01)				152.83	**Total (1:02)**				118.76	**Total (1:03)**			0

A Materials Unit Cost 152.83 Birr/m²

B= Manpower Unit Cost 83.05 Birr/m²

Total of (1:02)

Hourly Output: _____

C= Equipment Unit C 0 Birr/m²

Total of (1:03)

Hourly output: _____

Direct Cost of Work Item = A+B+C = 235.89 Birr/m²

Over head cost : _ 10% 23.59 "

Profit Cost: 15% 35.38 "

Total Unit Cost : _ 294.86 Birr/m²

Remark _____

UF: UTILIZATION FACTOR

*: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.

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ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT: G+1 MULTIPURPOSE **FINISHING WORKS.**

WORK ITEM: (6.10) 20 x 20cm. terrazzo tile flooring(1:3).

TOTAL QANTITY OF WORK ITEM: 1 m^2

LABOUR HOURLY OUTPUT: 1.25 m^2/hr

EQUIPEMENT:

RESULT : 541.24 Birr/m^2

Material Cost (1:01)					Labour Cost (1:02)					Equipment Cost (1:03)			
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labour by Grade	No.	UF	** Indexed Hourly Cost	Hourly Cost	Type of Equipment	No.	Hourly Rental	Hourly Cost
cement	qt.	0.168	385	64.68	Foreman	1	0.25	5	1.25				0
sand	m^3	0.041	464	19.024	mason ii	1	1	3.75	3.75				0
water	m^3	0.008	385	3.080	D/L	1	1	1.25	1.25				0
cement grout	qt.	0.014	385	5.39	helper	1	1	1.9	1.9				0
20 x 20 cm. terrazzo tile	no	25.5	13	331.5					0				0
polish	lit	0.1	28	2.80					0				0
				0					0				0
				0					0				0
Total (1:01)				426.47	**Total (1:02)**				8.15	**Total (1:03)**			0

A Materials Unit Cost 426.47 Birr/m^2

B= Manpower Unit Cost 6.52 Birr/m^2

Total of (1:02)

Hourly Output: _____

C= Equipment Unit C 0 Birr/m^2

Total of (1:03)

Hourly output: _____

Direct Cost of Work Item = A+B+C = 432.99 Birr/m^2

Over head cost : _ 10% 43.30 "

Profit Cost: 15% 64.95 "

Total Unit Cost : _ 541.24 Birr/m^2

Remark _____

UF: UTILIZATION FACTOR

*: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.

**: INCLUSIVE OF BENEFITS, TRAVEL SUBSIDES AND COST OF OVERTIME RELATED TO TARGETED OUTPUT.

ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT: G+1 MULTIPURPOSE **FINISHING WORKS.**

WORK ITEM: (6.13) 2cm thick Harar marble flooring (1:3).

TOTAL QANTITY OF WORK ITEM: 1 m^2

LABOUR HOURLY OUTPUT: 0.88 m^2/hr

EQUIPEMENT:

RESULT : 1599.35 Birr/m^2

Material Cost (1:01)					Labour Cost (1:02)					Equipment Cost (1:03)			
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labour by Grade	No.	UF	** Indexed Hourly Cost	Hourly Cost	Type of Equipment	No.	Hourly Rental	Hourly Cost
cement	qt.	0.097	385	37.345	Foreman	1	1	37.5	37.50	grinder	1	3.75	3.75
sand	m^3	0.024	464	11.136	tiler	1	1	37.5	37.5				0
water	m^3	0.005	0.75	0.004	D/L	1	1	18.75	18.75				0
cement grout	qt.	0.014	385	5.39	helper	2	1	18.75	37.5				0
2 cm. thick harar marble	no	1.02	1050	1071					0				0
polish	lit	0.1	12	1.20					0				0
				0					0				0
				0					0				0
				0					0				0
Total (1:01)				1126.07	**Total (1:02)**				131.25	**Total (1:03)**			3.75

A Materials Unit Cost 1126.07 Birr/m^2

B= Manpower Unit Cost 149.15 Birr/m^2

Total of (1:02)

Hourly Output: _____

C= Equipment Unit C 4.26 Birr/m^2

Total of (1:03)

Hourly output: _____

Direct Cost of Work Item = A+B+C = 1279.48 Birr/m^2

Over head cost : _ 10% 127.95 "

Profit Cost: 15% 191.92 "

Total Unit Cost : _ 1599.35 Birr/m^2

Remark _____

UF: UTILIZATION FACTOR

*: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.

**: INCLUSIVE OF BENEFITS, TRAVEL SUBSIDES AND COST OF OVERTIME RELATED TO TARGETED OUTPUT.

PROJECT: G+1 MULTIPURPOSE **FINISHING WORKS.** LABOUR HOURLY OUTPUT: 1 m^2/hr 10

WORK ITEM: (6.09) Ceramic tile flooring (1:3). EQUIPEMENT:

TOTAL QANTITY OF WORK ITEM: 1 m^2 RESULT : 632.55 Birr/m^2

Material Cost (1:01)					Labour Cost (1:02)					Equipment Cost (1:03)			
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labour by Grade	No.	UF	** Indexed Hourly Cost	Hourly Cost	Type of Equipment	No.	Hourly Rental	Hourly Cost
cement	qt.	0.101	385	38.885	Foreman	1	0.17	37.5	6.38				0
sand	m^3	0.025	464	11.6	tiler	1	1	37.5	37.5				0
water	m^3	0.005	0.75	0.004	D/L	1	1	18.75	18.75				0
cement grout	qt.	0.014	385	5.39	helper	2	1	18.75	37.5				0
7mm thick ceramic tile	m^2	1.02	342	348.84					0				0
polish	lit	0.1	12	1.20					0				0
				0					0				0
				0					0				0
				0					0				0
Total (1:01)				405.92	**Total (1:02)**				100.13	**Total (1:03)**			0

A Materials Unit Cost 405.92 Birr/m^2 B= Manpower Unit Cost 100.13 Birr/m^2 C= Equipment Unit C 0.00 Birr/m^2

Total of (1:02) Total of (1:03)

Hourly Output: _____ Hourly output: _____

Direct Cost of Work Item = A+B+C = 506.04 Birr/m^2

Over head cost : _ 10% 50.60 "

Profit Cost: 15% 75.91 "

Total Unit Cost : _ 632.55 Birr/m^2

Remark _____

UF: UTILIZATION FACTOR

*: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.

**: INCLUSIVE OF BENEFITS, TRAVEL SUBSIDES AND COST OF OVERTIME RELATED TO TARGETED OUTPUT.

ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT: G+1 MULTIPURPOSE **FINISHING WORKS.** LABOUR HOURLY OUTPUT: 3.45 m²/hr

WORK ITEM: (6.13) 2mm. thick PVC flooring. (Ethiopia) EQUIPEMENT:

TOTAL QANTITY OF WORK ITEM: 1 m² RESULT : 620.61 Birr/m²

Material Cost (1:01)					Labour Cost (1:02)					Equipment Cost (1:03)			
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labour by Grade	No.	UF	** Indexed Hourly Cost	Hourly Cost	Type of Equipment	No.	Hourly Rental	Hourly Cost
PVC tile	m²	1.02	380	387.6	Foreman	1	0.17	37.5	6.38				0
adhesive glue	gal	0.11	750	82.5	tiler	1	1	37.5	37.5				0
polish	lit	0.1	28	2.80	D/L	2	1	18.75	37.5				0
				0					0				0
				0					0				0
				0					0				0
				0					0				0
Total (1:01)				472.90	**Total (1:02)**				81.38	**Total (1:03)**			0

A Materials Unit Cost 472.90 Birr/m²

B= Manpower Unit Cost 23.59 Birr/m²

Total of (1:02)

Hourly Output: _____

C= Equipment Unit C 0.00 Birr/m²

Total of (1:03)

Hourly output: _____

Direct Cost of Work Item = A+B+C = 496.49 Birr/m²

Over head cost : _ 10% 49.65 "

Profit Cost: 15% 74.47 "

Total Unit Cost : _ 620.61 Birr/m²

Remark _____

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ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT: : G+1 MULTIPURPOSE **FINISHING WORKS.**

LABOUR HOURLY OUTPUT: 2.5 m^2/hr

WORK ITEM: (6.10) Parque flooring with all accessories .

EQUIPEMENT:

TOTAL QANTITY OF WORK ITEM: 1 m^2

RESULT : 1714.44 Birr/m^2

Material Cost (1:01)					Labour Cost (1:02)					Equipment Cost (1:03)			
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labour by Grade	No.	UF	** Indexed Hourly Cost	Hourly Cost	Type of Equipment	No.	Hourly Rental	Hourly Cost
parque	m^2	1.03	1300	1339	Foreman	1	0.17	37.5	6.38				0
				0	carpenter	1	1	37.5	37.5				0
				0	D/L	2	1	18.75	37.5				0
				0					0				0
				0					0				0
				0					0				0
				0					0				0
Total (1:01)				1339.00	**Total (1:02)**				81.38	**Total (1:03)**			0

A Materials Unit Cost 1339.00 Birr/m^2

B= Manpower Unit Cost 32.55 Birr/m^2

Total of (1:02)

Hourly Output: _____

C= Equipment Unit C 0.00 Birr/m^2

Total of (1:03)

Hourly output: _____

Direct Cost of Work Item = A+B+C = 1371.55 Birr/m^2

Over head cost : _ 10% 137.16 "

Profit Cost: 15% 205.73 "

Total Unit Cost : _ 1714.44 Birr/m^2

Remark _____

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ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT: G+1 MULTIPURPOSE **FINISHING WORKS.**

LABOUR HOURLY OUTPUT: 2.5 ml/hr

WORK ITEM: (6.11) 15 x 75mm. Marble skirting (1: 3)

EQUIPEMENT:

TOTAL QANTITY OF WORK ITEM: 1 ml

RESULT : 355.01 Birr/ml

Material Cost (1:01)					Labour Cost (1:02)					Equipment Cost (1:03)			
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labour by Grade	No.	UF	** Indexed Hourly Cost	Hourly Cost	Type of Equipment	No.	Hourly Rental	Hourly Cost
marble slate	ml	1.05	235	246.75	Foreman	1	0.25	37.5	9.38	grinder	1	10	10
polish	lit	0.003	0.28	0.00	mason ii	1	1	37.5	37.5				0
cement	qt	0.004	385	1.540	helper I	1	1	18.75	18.75				0
sand	m^3	0.001	464	0.464	D/L	1	1	18.75	18.75				0
water	m^3	0.001	0.75	0.001					0				0
				0					0				0
				0					0				0
				0					0				0
Total (1:01)				248.76	**Total (1:02)**				84.38	**Total (1:03)**			10

A= Materials Unit Cos 248.76 Birr/ml

B= Manpower Unit Cost 33.75 Birr/ml

Total of (1:02)

Hourly Output: _____

C= Equipment Unit C 1.50 Birr/ml

Total of (1:03)

Hourly output: _____

Direct Cost of Work Item = A+B+C = 284.01 Birr/ml

Over head cost : _ 10% 28.40 "

Profit Cost: 15% 42.60 "

Total Unit Cost : _ 355.01 Birr/ml

Remark _____

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ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT: : G+1 MULTIPURPOSE **FINISHING WORKS.**

LABOUR HOURLY OUTPUT: 2.5 ml/hr

WORK ITEM: (6.12) ceramic tile skirting (1:3). EQUIPEMENT:

TOTAL QANTITY OF WORK ITEM: 1 ml RESULT : 157.64 Birr/ml

Material Cost (1:01)					Labour Cost (1:02)					Equipment Cost (1:03)			
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labour by Grade	No.	UF	** Indexed Hourly Cost	Hourly Cost	Type of Equipment	No.	Hourly Rental	Hourly Cost
ceramic tile skirting	pc	5	15	75.00	Foreman	1	0.25	37.5	9.38	grinder	1	10	10
cement	qt	0.04	385	15.40	masonii	1	1	37.5	37.5				0
sand	m^3	0.001	464	0.464	helper I	1	1	18.75	18.75				0
water	m^3	0.002	0.75	0.002	D/L	1	1	18.75	18.75				0
				0					0				0
				0					0				0
				0					0				0
Total (1:01)				90.87	**Total (1:02)**				84.38	**Total (1:03)**			10

A Materials Unit Cost 90.87 Birr/ml

B= Manpower Unit Cost 33.75 Birr/ml

Total of (1:02)

Hourly Output: _____

C= Equipment Unit C 1.50 Birr/ml

Total of (1:03)

Hourly output: _____

Direct Cost of Work Item = A+B+C = 126.12 Birr/ml

Over head cost : _ 10% 12.61 "

Profit Cost: 15% 18.92 "

Total Unit Cost : _ 157.64 Birr/ml

Remark _____

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ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT: G+1 MULTIPURPOSE **FINISHING WORKS.** LABOUR HOURLY OUTPUT: 2 ml /hr

WORK ITEM: (6.14) 8cm.high PVC tile skirting.(ETHIOPIA) EQUIPEMENT:

TOTAL QANTITY OF WORK ITEM: 1 ml RESULT : 107.95 Birr/ml

Material Cost (1:01)					Labour Cost (1:02)					Equipment Cost (1:03)			
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labour by Grade	No.	UF	** Indexed Hourly Cost	Hourly Cost	Type of Equipment	No.	Hourly Rental	Hourly Cost
2mm pvc skirting	ml	1.02	35	35.70	Foreman	1	0.83	37.5	31.13				0
adhesive glue	gal	0.009	750	6.75	tiler	1	1	37.5	37.5				0
polishing	lit	0.008	28	0.224	D/L	1	1	18.75	18.75				0
				0					0				0
				0					0				0
				0					0				0
				0					0				0
Total (1:01)				42.67	**Total (1:02)**				87.38	**Total (1:03)**			0

A Materials Unit Cost 42.67 Birr/ml

B= Manpower Unit Cost 43.69 Birr/ml

Total of (1:02)

Hourly Output: _____

C= Equipment Unit Cost Birr/ml

Total of (1:03)

Hourly output: _____

Direct Cost of Work Item = A+B+C = 86.36 Birr/ml

Over head cost : _ 10% 8.64 "

Profit Cost: 15% 12.95 "

Total Unit Cost : _ 107.95 Birr/ml

Remark _____

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ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT: G+1 MULTIPURPOSE **FINISHING WORKS.** LABOUR HOURLY OUTPUT: 1.88 ml /hr

WORK ITEM: (6.17) mm. thick white marble window cill (1:3)on H(EQUIPEMENT:

TOTAL QANTITY OF WORK ITEM: 1 ml

RESULT : 103.33 Birr/ml

Material Cost (1:01)					Labour Cost (1:02)					Equipment Cost (1:03)			
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labour by Grade	No.	UF	** Indexed Hourly Cost	Hourly Cost	Type of Equipment	No.	Hourly Rental	Hourly Cost
white marble cill	m^2	0.204	360	73.44	Foreman	1	0.83	5	4.15	grinder	1	3.75	3.75
cement	qt	0.02	60	1.20	masonii	1	1	3.75	3.75				0
sand	m^3	0.005	95	0.48	D/L	2	1	1.25	2.5				0
water	m^3	0.01	0.75	0.008					0				0
cement grout	qt	0.0003	60	0.018					0				0
				0					0				0
				0					0				0
				0					0				0
Total (1:01)				75.14	**Total (1:02)**				10.40	**Total (1:03)**			3.75

A Materials Unit Cost 75.14 Birr/ml

B= Manpower Unit Cost 5.53 Birr/ml

Total of (1:02)

Hourly Output: _____

C= Equipment Unit C 1.99 Birr/ml

Total of (1:03)

Hourly output: _____

Direct Cost of Work Item = A+B+C = 82.66 Birr/ml

Over head cost : _ 10% 8.27 "

Profit Cost: 15% 12.40 "

Total Unit Cost : _ 103.33 Birr/ml

Remark _____

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ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT G+1 MULTIPURPOSE: **FINISHING WORKS.** LABOUR HOURLY OUTPUT: 1.88 ml /hr

WORK ITEM: (6.17) 30mm. thick HARAR marble window cill (1:3)on HCB . EQUIPEMENT:

TOTAL QANTITY OF WORK ITEM: 1 ml

RESULT : 417.23 Birr/ml

Material Cost (1:01)					Labour Cost (1:02)					Equipment Cost (1:03)			
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labour by Grade	No.	UF	** Indexed Hourly Cost	Hourly Cost	Type of Equipment	No.	Hourly Rental	Hourly Cost
harar marble cill	m^2	0.204	1300	265.20	Foreman	1	0.83	37.5	31.13	grinder	1	10	10
cement	qt	0.02	385	7.70	masonii	1	1	37.5	37.5				0
sand	m^3	0.005	464	2.32	D/L	2	1	18.75	37.5				0
water	m^3	0.01	0.75	0.008					0				0
cement grout	qt	0.0003	385	0.116					0				0
				0					0				0
				0					0				0
				0					0				0
Total (1:01)				275.34	**Total (1:02)**				106.13	**Total (1:03)**			10

A Materials Unit Cost 275.34 Birr/ml

B= Manpower Unit Cost 56.45 Birr/ml

Total of (1:02)

Hourly Output: _____

C= Equipment Unit C 1.99 Birr/ml

Total of (1:03)

Hourly output: _____

Direct Cost of Work Item = A+B+C = 333.78 Birr/ml

Over head cost : _ 10% 33.38 "

Profit Cost: 15% 50.07 "

Total Unit Cost : _ 417.23 Birr/ml

Remark _____

UF: UTILIZATION FACTOR

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ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT:G+1 MULTIPURPOSE **FINISHING WORKS.** LABOUR HOURLY OUTPUT: 0.88 ml /hr

WORK ITEM: (6.16) mm. thick white marble threads.(1 EQUIPEMENT:

TOTAL QANTITY OF WORK ITEM: 1 ml RESULT : 585.81 Birr/ml

Material Cost (1:01)					Labour Cost (1:02)					Equipment Cost (1:03)			
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labour by Grade	No.	UF	** Indexed Hourly Cost	Hourly Cost	Type of Equipment	No.	Hourly Rental	Hourly Cost
30mm white marb	m^2	0.306	1050	321.30	Foreman	1	0.83	37.5	31.13	grinder	1	10	10
cement	qt	0.03	385	11.55	masonii	1	1	37.5	37.5				0
sand	m^3	0.008	464	3.71	D/L	2	1	18.75	37.5				0
water	m^3	0.01	0.75	0.008					0				0
cement grout	qt	0.0003	385	0.116					0				0
				0					0				0
				0					0				0
				0					0				0
Total (1:01)				336.69	**Total (1:02)**				106.13	**Total (1:03)**			10

A Materials Unit Cost 336.69 Birr/ml

B= Manpower Unit Cost 120.60 Birr/ml

Total of (1:02)

Hourly Output: _____

C= Equipment Unit C 11.36 Birr/ml

Total of (1:03)

Hourly output: _____

Direct Cost of Work Item = A+B+C = 468.65 Birr/ml

Over head cost : _ 10% 46.86 "

Profit Cost: 15% 70.30 "

Total Unit Cost : _ 585.81 Birr/ml

Remark _____

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ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT: G+1 MULTIPURPOSE **FINISHING WORKS.** LABOUR HOURLY OUTPUT: 1.13 ml /hr

WORK ITEM: (6.15) 20mm. thick white marble riser. (1:3). EQUIPEMENT:

TOTAL QANTITY OF WORK ITEM: 1 ml

RESULT : 409.06 Birr/ml

Material Cost (1:01)					Labour Cost (1:02)					Equipment Cost (1:03)			
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labour by Grade	No.	UF	** Indexed Hourly Cost	Hourly Cost	Type of Equipment	No.	Hourly Rental	Hourly Cost
white marble	m^2	0.204	1050	214.20	Foreman	1	0.83	37.5	31.13	grinder	1	10	10
cement	qt	0.02	385	7.70	masonii	1	1	37.5	37.5				0
sand	m^3	0.0053	464	2.46	D/L	2	1	18.75	37.5				0
water	m^3	0.01	0.75	0.008					0				0
cement grout	qt	0.0003	385	0.116					0				0
				0					0				0
				0					0				0
				0					0				0
Total (1:01)				224.48	**Total (1:02)**				106.13	**Total (1:03)**			10

A= Materials Unit 224.48 Birr/ml

B= Manpower Unit Cost 93.92 Birr/ml

Total of (1:02)

Hourly Output: _____

C= Equipment Unit C 8.85 Birr/ml

Total of (1:03)

Hourly output: _____

Direct Cost of Work Item = A+B+C = 327.25 Birr/ml

Over head cost : _ 10% 32.72 "

Profit Cost: 15% 49.09 "

Total Unit Cost : _ 409.06 Birr/ml

Remark _____

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ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT: G+1 MULTIPURPOSE **FINISHING WORKS.**

WORK ITEM: (6.08) 20x20 cm. Ceramic wall tile.(1:3).

LABOUR HOURLY OUTPUT: 0.98 m^2 /hr

EQUIPEMENT:

TOTAL QANTITY OF WORK ITEM: 1 m^2

RESULT : 616.83 Birr/m^2

Material Cost (1:01)					Labour Cost (1:02)					Equipment Cost (1:03)			
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labour by Grade	No.	UF	** Indexed Hourly Cost	Hourly Cost	Type of Equipment	No.	Hourly Rental	Hourly Cost
20 x 20 cm. ceran	pc	25.5	13.8	351.90	Foreman	1	0.25	37.5	9.38	grinder	2	10	20
cement	qt	0.065	385	25.03	tiler	1	1	37.5	37.5				0
sand	m^3	0.01	464	4.64	D/L	2	1	18.75	37.5				0
water	m^3	0.01	0.75	0.008					0				0
cement grout	qt	0.014	385	5.390					0				0
				0					0				0
				0					0				0
				0					0				0
Total (1:01)				386.96	**Total (1:02)**				84.38	**Total (1:03)**			20

A= Materials Unit 386.96 Birr/m^2

B= Manpower Unit Cost 86.10 Birr/m^2

Total of (1:02)

Hourly Output: _____

C= Equipment Unit C 20.41 Birr/m^2

Total of (1:03)

Hourly output: _____

Direct Cost of Work Item = A+B+C = 493.47 Birr/m^2

Over head cost : _ 10% 49.35 "

Profit Cost: 15% 74.02 "

Total Unit Cost : _ 616.83 Birr/m^2

Remark _____

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ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT: G+1 MULTIPURPOSE PAINTING.
WORK ITEM: (7.2) Three coats of plastic paint to wall.

LABOUR HOURLY OUTPUT: 1.88 m²/hr.
EQUIPEMENT: Tool
RESULT: 64.47 Birr/m²

TOTAL QANTITY OF WORK ITEM: 1 m²

Material Cost (1:01)					Labour Cost (1:02)					Equipment Cost (1:03)			
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labour by Grade	No.	UF	** Indexed Hourly Cost	Hourly Cost	Type of Equipment	No.	Hourly Rental	Hourly Cost
plastic paint	lit	0.25	59.4	14.85	foreman	1	0.2	37.5	7.50	tools	1	1	1
stucco	kg	0.05	8	0.4	painter	1	1	37.5	37.50				
animal glue	kg	0.013	80	1.04	DL	1	1	18.75	18.75				0
brush	pcs	0.01	65	0.65					0				0
sand paper	pcs	0.01	7.5	0.075					0				0
gypsum	kg	0.03	4	0.12					0				0
				0					0				0
				0					0				0
				0					0				0
Total (1:-01)				17.135	**Total (1:02)**				63.75	**Total (1:03)**			1

A Materials Unit Cost 17.135 Birr/m²

B= Manpower Unit Cost 33.90957 Birr/m²
Total of (1:02)
Hourly Output:

C= Equipment Unit Cost 0.53 Birr/m²
Total of (1:03)
Hourly output: _____

Direct Cost of Work Item = A+B+C = 51.58 Birr/m²
Over head cost : 10% 5.16 "
Profit Cost: 15% 7.74 "
Total Unit Cost : 64.47 Birr/m²

Remark _____

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ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT: : G+1 MULTIPURPOSE PAINTING
WORK ITEM: (7.2) Three coats of plastic paint to ceilling.

LABOUR HOURLY OUTPUT: 1.5 m²/hr.
EQUIPEMENT: Tool
RESULT: 77.42 Birr/m²

TOTAL QANTITY OF WORK ITEM: 1 m²

Material Cost (1:01)					Labour Cost (1:02)					Equipment Cost (1:03)			
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labour by Grade	No.	UF	** Indexed Hourly Cost	Hourly Cost	Type of Equipment	No.	Hourly Rental	Hourly Cost
plastic paint	lit	0.23	59.4	13.66	foreman	1	0.2	37.5	7.50	tools	1	1	1
stucco	kg	0.1	8	0.8	painter	1	1	37.5	37.50				
animal glue	kg	0.013	80	1.04	DL	1	1	18.75	18.75				0
brush	pcs	0.01	65	0.65					0				0
sand paper	pcs	0.01	7.5	0.075					0				0
gypsum	kg	0.04	4	0.16					0				0
				0					0				0
				0					0				0
Total (1:-01)				16.387	**Total (1:02)**				63.75	**Total (1:03)**			1

A Materials Unit Cost 16.387 Birr/m²

B= Manpower Unit Cost 42.5 Birr/m²

Total of (1:02) 4.75
Hourly Output: 1.5

C= Equipment Unit Cost 0.67 Birr/m²

Total of (1:03)
Hourly output: _____

Direct Cost of Work Item = A+B+C = 59.55 Birr/m²

Over head cost : 15% 8.93 "

Profit Cost: 15% 8.93 "

Total Unit Cost : 77.42 Birr/m²

Remark _____

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**: INCLUSIVE OF BENEFITS, TRAVEL SUBSIDES AND COST OF OVERTIME RELATED TO TARGETED OUTPUT.

ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT: G+1 MULTIPURPOSE PAINTING
WORK ITEM: (7.1) One coat of external quartiz paint

LABOUR HOURLY OUTPUT: 5.64 m²/hr.
EQUIPEMENT: Tool
RESULT: 53.25 Birr/m²

TOTAL QANTITY OF WORK ITEM: 1 m²

Material Cost (1:01)					Labour Cost (1:02)					Equipment Cost (1:03)			
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labour by Grade	No.	UF	** Indexed Hourly Cost	Hourly Cost	Type of Equipment	No.	Hourly Rental	Hourly Cost
quartiz	kg	0.12	190	22.80	foreman	1	0.2	37.5	7.50	tools	1	1	1
stucco	kg	0.06	8	0.48	painter	1	1	37.5	37.50				0
animal glue	kg	0.1	80	8.00	DL	1	1	17.85	17.85				0
				0					0				0
				0					0				0
				0					0				0
				0					0				0
				0					0				0
Total (1:-01)				31.28	**Total (1:02)**				62.85	**Total (1:03)**			1

A Materials Unit Cost 31.28 Birr/m²

B= Manpower Unit Cost 11.14362 Birr/m²

Total of (1:02) 4.75
Hourly Output: 5.64

C= Equipment Unit Cost 0.18 Birr/m²

Total of (1:03)
Hourly output: _____

Direct Cost of Work Item = A+B+C = 42.60 Birr/m²

Over head cost : 10% 4.26 "

Profit Cost: 15% 6.39 "

Total Unit Cost : 53.25 Birr/m²

Remark _____

UF: UTILIZATION FACTOR

*: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.

**: INCLUSIVE OF BENEFITS, TRAVEL SUBSIDES AND COST OF OVERTIME RELATED TO TARGETED OUTPUT.

ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT: G+1 MULTIPURPOSE **GLAZING WORKS** LABOUR HOURLY OUTPU

WORK ITEM: (10.2) Fixing 5mm clear glass. EQUIPEMENT:

RESULT:

TOTAL QANTITY OF WORK ITEM: 1 m^2

Material Cost (1:01)					Labour Cost (1:02)				
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labour by Grade	No.	UF	** Indexed Hourly Cost	Hourly Cost
4 mm. clear g	m^2	1.1	365	401.5	Foreman	1	0.167	37.5	6.2625
Putty	kg	0.4	30	12	Glazer	1	1	37.5	37.5
				0	DL	1	1	18.75	18.75
				0					
				0					
				0					
				0					
	Total (1:01)			413.5	**Total (1:02)**				62.5125

A= Materials 413.5 Birr/m^2 B= Manpower Unit Cost 40.33 Birr/m^2

Total of (1:02) 5.23

Hourly Output: _____ 1.55

Direct Cost of Work Item = A+B+C =

Over head cost : 10%

Profit Cost: 15%

Total Unit Cost : _

Remark _____

UF: UTILIZATION FACTOR

*: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.

**: INCLUSIVE OF BENEFITS, TRAVEL SUBSIDES AND COST OF OVERTIME RELATED TO TARGETED OUTPUT.

ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT:G+1 MULTIPURPOSE **GLAZING WORKS** LABOUR HOURLY OUTPU

WORK ITEM: (10.4) Fixing 5 mm. Frosted glass. EQUIPEMENT:

RESULT:

TOTAL QANTITY OF WORK ITEM: 1 m^2

Material Cost (1:01)					Labour Cost (1:02)				
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labour by Grade	No.	UF	** Indexed Hourly Cost	Hourly Cost
4mm frosted g	m^2	1.1	470	517	Foreman	1	0.167	37.5	6.2625
Putty	kg	0.4	30	12	Glazer	1	1	37.5	37.5

				0	D/L	1	1	17.5	17.5
				0					0
				0					0
				0					0
				0					0
	Total (1:01)			529	**Total (1:02)**				61.2625

A= Materials 529 Birr/m^2

B= Manpower Unit Cost 39.52 Birr/m^2

Total of (1:02) 5.23

Hourly Output: _____ 1.55

Direct Cost of Work Item = A+B+C =

Over head cost : _ 10%

Profit Cost: 15%

Total Unit Cost : _

Remark _____

UF: UTILIZATION FACTOR

*: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.

**: INCLUSIVE OF BENEFITS, TRAVEL SUBSIDES AND COST OF OVERTIME RELATED TO TARGETED OUTPUT.

T: 1.55 m^2/hr

567.29 Birr/m^2

Equipment Cost (1:03)			
Type of Equipment	No.	Hourly Rental	Hourly Cost
			0
			0
			0
			0
			0
			0
			0
Total (1:03)			0

C= Equipment Unit Cost 0 Birr/m^2

Total of (1:03)

Hourly output: _____

453.83 Birr/m^2

45.38 "

68.07 "

567.29 Birr/m^2

T: 1.55 m^2/hr

710.66 Birr/m^2

Equipment Cost (1:03)			
Type of Equipment	No.	Hourly Rental	Hourly Cost
			0
			0

			0
			0
			0
			0
			0
Total (1:03)			0

C= Equipment Unit Cost 0 Birr/m^2

Total of (1:03)

Hourly output: _____

568.52 Birr/m^2

56.85 "

85.28 "

710.66 Birr/m^2