DIMENSION	QUANTITY	UNIT
25.9		
14.23		
	368.56	m^2
24.9		
13.23		
0.5	164.71	m^2
73.71		
164.71		
89.55		
	327.97	m^3
73.71		
164.71		
89.55		
	327.97	m^3
27.73		
2.02		
7.71		
	-37.46	m^3
	290.51	m^3
23.9		
12.23		
	292.30	m^2
2.02		
15.4		
	-17.42	m^2
	274.88	m^2
0.2		m^3
0.4		

10.95		
	2.63	
0.2		m^3
0.4		
10.45		
	2.51	m^3
0.2		m^3
0.4		
23.25		
	5.58	m^3
	10.72	m^3
0.6		m^3
1.7		
2.5		
	15.3	m^3
0.45		m^3
1.3		
1.95		
	11.41	m^3
0.35		
1		
1.45		
	1.015	m^3
	27.7225	m^3
1.35		m^3
0.45		
0.25		
	2.73	
	2.73	m^3
1.75		
2.55		
	26.78	m^2
1.35		

2		
	27.00	m²
1.05		
2		
	3.15	m²
	56.93	m²
0.2		
10.95		
	6.57	
0.2		
10.45		
	6.27	
0.2		
23.25		
	13.95	
	26.79	m²
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
	44.65	m
0.2		m²
0.4		
10.95		
	39.42	m²
0.2		m²
0.4		
10.45		
	37.62	m²
0.2		m²
0.4		
23.25		
	83.70	m²
	160.74	m²
2.5		
1.7		
0.65		
	30.00	m²
1.95		
1.3		
0.5		
	32.50	m²
1.45		
1		
0.4		
	3.12	m²
	65.62	m²

0.26		
0.5		
0.85		
	7.80	m²
0.26		
0.5		
1		
	15.20	m²
0.26		
0.5		
1.1		
	3.40	m²
	26.40	m²
	9.16	m²
0.2		m³
0.4		
10.95		
	2.63	
0.2		m³
0.4		
10.45		
	2.51	m³
0.2		m³
0.4		
23.25		
	5.58	m³
	10.72	m³
0.2		m³
0.4		

10.95		
	2.63	
0.2		m^3
0.4		
10.45		
	2.51	m^3
0.2		m^3
0.4		
23.25		
	5.58	m^3
	10.72	m^3
0.2		m^3
0.4		m^3
2.75		m^3
	0.44	m^3
		m^3
0.25		m^3
0.45		
6.9		
	6.21	m^3
0.25		m^3
0.45		
9.4		
	4.23	m^3
0.25		m^3
0.45		
6.9		
	0.78	m^3
3.14		m^3
0.04		
6.9		

	2.60	m^3
	13.82	m^3
6.23		
4.5		
0.15		
	8.41	m^3
4.73		
4.73		
0.15		
	6.71	m^3
5.73		
2.5		
0.15		
	14.33	m^3
4.73		
2.5		
0.15		
	11.83	m^3
5.73		
5.5		
0.15		
	4.73	m^3
4.73		
5.5		
0.15		
	3.90	m^3
5.73		
4.5		
0.15		
	3.87	m^3
4.73		
4.5		

0.15		
	3.19	m^3
10.44		
1.65		
0.15		
	2.58	m^3
	59.55	m^3
6.23		
4.5		
0.15		
	8.41	m^3
4.73		
4.73		
0.15		
	6.71	m^3
5.73		
2.5		
0.15		
	14.33	m^3
4.73		
2.5		
0.15		
	11.83	m^3
5.73		
5.5		
0.15		
	4.73	m^3
4.73		
5.5		
0.15		
	3.90	m^3
5.73		
4.5		
0.15		
	3.87	m^3
4.73		
4.5		

0.15		
	3.19	m^3
10.44		
1.65		
0.15		
	2.58	m^3
	59.55	m^3
5.73		
2.5		
0.15		
	14.33	m^3
4.73		
2.5		
0.15		
	11.83	m^3
5.73		
5.5		
0.15		
	4.73	m^3
4.73		
5.5		
0.15		
	3.90	m^3
5.73		
4.5		
0.15		
	3.87	m^3
4.73		
4.5		
0.15		
	3.19	m^3
10.44		
1.65		
0.15		
	2.58	m^3
	44.42	m^3

		m^3
3.35		
1.1		
0.15		
	2.21	m^3
0.15		
0.15		
1.1		
	0.99	m^3
2.4		
1.3		
0.15		
	0.94	m^3
	4.14	
1.4		
2.6		
0.15		
	0.55	m^3
0.15		
0.15		
2.6		
	0.23	m^3
1.4		
3		
0.15		
	0.63	m^3
0.15		
0.15		
3		
	0.27	m^3
	9.95	m^3
2.74		m^3

4.3		
0.15		
	1.77	m^3
0.35		m^3
0.15		
9.25		
	0.97	m^3
0.6		
0.15		
9.25		
	1.67	
	4.40	m^3
		m^2
		m^2
0.25		m^2
0.45		
6.9		
	77.28	m^2
0.25		m^2
0.45		
9.25		
	51.8	m^2
0.25		m^2
0.45		
6.9		
	9.66	m^2
2		m^2
3.14		
0.2		
	3.77	
	142.508	m^2

0.05		m²
0.4		
10.95		
	29.57	m²
0.05		m²
0.4		
10.45		
	28.21	m²
0.05		m²
0.4		
23.25		
	62.78	m²
	120.56	m²
0.2		m²
0.4		
10.95		
	13.14	m²
0.05		m²
0.4		
10.45		
	28.21	m²
0.2		m²
0.4		
9.25		
	33.30	m²
0.05		m²
0.4		
1.4		
	3.78	m²
	78.44	m²
10.95		
9.2		
	100.74	m²
0.25		
0.45		

	-0.68	m²
	100.06	m²
14		
10.45		
	146.30	m²
0.25		
0.45		
	-0.45	m²
3.14		
0.04		
	-0.38	m²
	145.47	m²
9.65		
0.15		
	1.45	m²
23.24		
0.15		
	3.49	m²
14		
0.15		
	2.10	m²
10.45		
0.15		
	1.57	m²
10.4		
0.15		
	1.56	m²
	10.16	m²
10.45		
14		
	146.30	m²
31.5		
2.75		

	-86.63	
	59.67	m²
35.7		
0.15		
	5.36	m²
2.45		
9.25		
	45.33	m²
1.1		
3.35		
	14.74	m²
0.3		
3.35		
	8.04	m²
1.1		
0.15		
	3.30	m²
	26.08	
	`	
2.5		
4.5		
	11.25	m²
13		
0.15		
	3.90	m²
7.8		
2.6		
	18.10	m²

7.37		
2.6		
	17.00	m²
3		
2.6		
	5.63	m²
3.62		
2.6		
	7.20	m²
4.33		
2.6		
	9.76	m²
11.75		
2.6		
	20.00	m²
12.91		
2.6		
	25.00	m²
	102.69	
8.63		
2.6		
	20.12	m²
8.24		
2.6		
	19.17	m²
3		
2.6		
	5.63	m²
3.77		
2.6		
	7.55	m²
2.28		
2.6		
	4.43	m²
27.51		
2.6		

	49.93	m²
	106.83	m²
49.05		
1.2		
	58.86	m²
7.2		
1.2		
	8.64	
	67.5	m²
	277.0	m²
3.75		
2.85		
	10.67	m²
3.75		
2.85		
	10.67	m²
4		
2.85		
	11.54	m²
4		
2.85		
	11.54	m²
14.14		
2.85		
	10.67	m²
7.35		
2.85		
	20.95	m²
9.2		
2.85		
	26.22	m²
4.74		
2.85		

	13.51	m²
5.38		
2.85		
	15.33	m²
3.95		
2.85		
	10.82	m²
4.07		
2.85		
	11.20	m²
4		
2.85		
	10.77	m²
	163.89	m²
3.75		
2.85		
	10.67	m²
3.75		
2.85		
	10.67	m²
4		
2.85		
	11.54	m²
4		
2.85		
	11.54	m²
14.14		
2.85		
	10.23	m²
3.85		
2.85		
	10.53	m²
3.95		
2.85		
	10.82	m²

4		
2.85		
	11.20	m²
3.92		
2.85		
	10.77	m²
7.35		
2.85		
	20.95	m²
9.2		
2.85		
	26.22	m²
5.25		
2.85		
	14.96	m²
10.39		
2.85		
	29.61	m²
	189.71	m²
	353.60	
22.9	68.70	m
11.85	71.10	m
10.67	64.02	m
12.57	75.42	m
18	360.00	m
	2980.00	pcs
	2980.00	pcs
	42.00	m
	84.00	pcs
	39.60	m

	42.86	m
22.9		
18		
	412.20	m^2
	14	no
	6	no
	2	no
	4	no
	12	no
	16	no
	2	no
	2	no
	8	no
	24.33	m
	102.13	m^2

	106.89	m²
	67.50	m²
	276.52	m²
	198.58	m²
	197.59	m²
	396.17	m²
10.38		
14.12		
	293.13	m²
9.00		
10.95		
	197.10	m²
2.30		
1.30		
	5.98	m²
2.50		
4.50		
	11.25	m²
2.30		
4.70		
	-21.62	m²
	485.84	m²
	501.92	m²
	198.58	m²
	197.59	m²
	396.17	m²
	198.58	m²
	197.59	m²

	396.17	m²
11.45		
9.25		
	105.91	m²
29.36		
1.7		
	99.82	m²
8.43		
1.7		
	14.33	m²
10.03		
1.7		
	34.10	m²
	148.26	m²
1.40		
1.48		
	2.07	m²
1.30		
1.48		
	1.92	m²
1.20		
3.35		
	8.04	m²
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
2.00		
3.05		
	-6.10	m^2
	18.73	m^2
	155.10	m
	149.55	m
	117.84	m
1.50		
10.38		
	31.14	m^2
1.55		
12.40		
	38.44	m^2
2.30		
4.00		
	18.40	m^2
1.00		
9.23		
	18.46	m^2
1.20		
1.28		
	3.07	m^2
1.15		

1.28		
	2.94	m^2
6.70		
8.45		
	56.61	m^2
3.00		
3.88		
	11.64	m^2
3.00		
4.37		
	13.11	m^2
0.15		
1.10		
	1.98	m^2
0.30		
1.10		
	3.63	m^2
1.30		
3.20		
	4.16	m^2
1.40		
1.48		
	2.07	m^2
1.30		
1.48		
	1.92	m^2
1.93		
3.05		
	-11.77	m^2
2.00		
3.05		
	-6.10	m^2
	189.71	m^2

	396.17	m^2
	209.02	m^2
	293.13	m^2
	197.10	m^2
	293.13	m^2
2.28	31.92	m^2
0.6	3.60	m^2
1	2.00	m^2
2	8.00	m^2
1.2	9.60	m^2
1	1.00	m^2
	51.72	m^2

DESCRIPTION
SUB-STRUCTURE
1. 0 EXCAVATION & EARTH WORK
Clear and remove top soil to an average depth of 20 cm.
TOTAL AREA
Bulk excavation in ordinary soil to reduce levels to the designed level up to 500mm .
TOTAL AREA
#NAME?
Fill around footing and foundation columns with impo
Deduction
TOTAL VOLUME
25cm basaltic stone hard core under concrete floor
Deduction
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
GB-1

TOTAL VOLUME OF GB-1
GB-2
TOTAL VOLUME OF GB-2
GB-3
TOTAL VOLUME OF GB-3
TOTAL VOLUME OF ALL THE GRADE BEAM
II) Footing
F-1
F-2
F-3
TOTAL VOLUME OF ALL THE FOOTING
III) FOUNDATION COLUMN
TOTAL VOLUME FOUNDATION COLUMN
50mm lean concrete quality C-5, 150 kg of cement/m3: under
under foundation pad
F-1
F-2

F-3

TOTAL AREA of lean concrete

under grade beam

GB-1

GB-2

GB-3

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)

TOTAL MASONARY WORK
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
GB-1
TOTAL AREA OF GB-1
GB-2
TOTAL AREA OF GB-2
GB-3
TOTAL AREA OF GB-3
TOTAL AREA OF Grade beam
founadtion pad
F-1
f-2
f-3
TOTAL AREA

foundation column
F-1
F-2
F-3
TOTAL AREA
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
FB-1
TOTAL VOLUME OF FB-1
FB-2
TOTAL VOLUME OF FB-2
FB-3
TOTAL VOLUME OF FB-3
TOTAL VOLUME OF ALL THE FIRST BEAM
II) Top tie beam
TB-1

TOTAL VOLUME OF TB-1
TB-2
TOTAL VOLUME OF TB-2
TB-3
TOTAL VOLUME OF TB-3
TOTAL VOLUME OF ALL THE TOP TIE BEAM
III)STAIR BEAM
STB1 AND STB2
VOLUME OF STB1
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).
C1
VOLUME OF C1
C2
VOLUME OF C2
C3
VOLUME OF C3
C4 (cirular column area= $\prod R^2$)

VOLUME OF C4
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
b/n axis 1-2, 2-3 & A-B
VOLUME
b/n axis 1-2, 2-3 & B-C
VOLUME
b/n axis 3-4 & A-B
VOLUME
b/n axis 3-4 & B-C
VOLUME
b/n axis 4-5 & A-B
VOLUME
b/n axis 4-5 & B-C
VOLUME
b/n axis 5-6 & A-B
VOLUME
b/n axis 5-6 & B-C

VOLUME
under axis 6 (balcony)
VOLUME
TOTAL VOLUME OF GROUND FLOOR
b) Floor slab
b/n axis 1-2, 2-3 & A-B
VOLUME
b/n axis 1-2, 2-3 & B-C
VOLUME
b/n axis 3-4 & A-B
VOLUME
b/n axis 3-4 & B-C
VOLUME
b/n axis 4-5 & A-B
VOLUME
b/n axis 4-5 & B-C
VOLUME
b/n axis 5-6 & A-B
VOLUME
b/n axis 5-6 & B-C

VOLUME
under axis 6 (balcony)
VOLUME
Volume of floor slab
c) Flat roof
b/n axis 3-4 & A-B
VOLUME
b/n axis 3-4 & B-C
VOLUME
b/n axis 4-5 & A-B
VOLUME
b/n axis 4-5 & B-C
VOLUME
b/n axis 5-6 & A-B
VOLUME
b/n axis 5-6 & B-C
VOLUME
under axis 6 (balcony)
VOLUME
TOTAL FLAT SLAB VOLUME

VII) Stairs
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
1) Soffit
VOLUME
2) Tread and riser
VOLUME
3)Landing
VOLUME
TOTAL VOLUME
b/n 3&4 left of axis A
1) Soffit
VOLUME
2) Tread and riser
VOLUME
b/n B&C below of axis 6
1) Soffit
VOLUME
2) Tread and riser
VOLUME
TOTAL STAIR VOLUME
VIII) Water tank slab

TOTAL WATER SLAB VOLUME
VIIII) Gutter
`
TOTAL VOLUME OF GUTTER CONCRETE
2) FORMWORK
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, chamfers, blockings, screeds bullheads, anchorages, inserts and other features
a) To elevation columns /The form shall be made chamfered at internal edges to create nosing in the concrete column edges/.
C1
TOTAL AREA OF C1
C2
TOTAL AREA OF C2
C3
TOTAL AREA OF C3
C4 Circular column P=2∏r
TOTAL AREA OF COLUMN FORMWORK

b) First floor beam
FB-1
TOTAL AREA OF FB-1
FB-2
TOTAL AREA OF FB-2
FB-3
TOTAL AREA OF FB-3
TOTAL AREA OF first floor beam
c) Top tie beam
TB-1
TOTAL AREA OF TB-1
TB-2
TOTAL AREA OF TB-2
TB-3
`TB-3
TOTAL AREA OF Top tie beam
d) Slab
First floor slab
fond b/n axis A-C & 1-3
deduct column size (0.25m*0.45m)

TOTAL AREA OF fond b/n axis A-C & 1-3
fond b/n axis A-C & 3-6 and below axis-6
deduct column size (0.25m*0.45m)
deduct column size of diameter=0.4m
TOTAL AREA OF fond b/n axis A-C & 3-6 and belowaxis-6
Side formwork
left side of axis A
on axis C
on axis A b/n axis 3-6
on axis-1
below axis-6
TOTAL SIDE FORMWORK
flat roof
fond b/n axis A-C & 3-6
deduct stair opening

TOTAL AREA OF fond b/n axis A-C & 3-6 a
Side formwork on flat roof
e) Gutter & toptie beam on axis A & C
f) stair
b/n 3&4 left of axis A
1) Soffit
AREA
2) Side stair formwork
AREA
2) Tread and riser
AREA
TOTAL AREA OF FORMWORK OF STAIR
g) Water tank formwork
fond
Side formwork
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
BEDROOM 1
AREA

BEDROOM 2
AREA
BEDROOM 3
AREA
BEDROOM 4
AREA
HALLWAY
AREA
CAFÉ
AREA
SHOPS
AREA
TOTAL AREA
First floor
BEDROOM 1
AREA
BEDROOM 2
AREA
BEDROOM 3
AREA
BEDROOM 4
AREA
HALLWAY
AREA
RESTAURANT

AREA
TOTAL AREA OF HCB ON FIRST FLOOR
Flat roof
TERRACE
TANKER
TOTAL AREA OF HCB ON FLAT ROOF
TOTAL 20 HCB ON BUILDING
Ditto as Item 2.01 but for150mm HCB guard wall
Ground slab
BEDROOM 1
BEDROOM 2
BEDROOM 3
BEDROOM 4
HALLWAY
RECEPTION AREA
STAIR AREA
CAFÉ REST ROOM

SHOP 1
TOILET 2
TOILET 3
TOILET 4
TOTAL AREA ON GROUND FLOOR
First floor slab
BEDROOM 1
BEDROOM 2
BEDROOM 3
BEDROOM 4
HALLWAY
TOILET 1
TOILET 2

TOILET 3
TOILET 4
RECEPTION AREA
STAIR AREA
RESTRAURANT KITCHEN
RESTRAURANT TOILET
TOTAL AREA ON FLOOR FLOOR
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
A.500*400mm LOWER CORED
B.100*70 mm upper chord/rafter/
C.VERTICAL TRUSS MEMBER
D.INCLINED TRUSS MEMBER
E. 70*50 zigba purlin c/c 90mm
F, washer
G , dome headed nail
h, Down pipe
J , metal bracket 2pcs/m
k, fascia board with 10% wastage

l. flashing
1.38m² corrugated iron sheet
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
W-1 1500mm x1500mm
W-2 1000mm x 400mm
W-3 1000mm x 1500
W-4 2500mm x 2600mm
Doors
D-1 850mm x 2600mm
D-2 700mm x 2600mm
D-3 1300mm x 2600mm
D-4 1250mm x 2600mm
D-5 850mm x 2600mm
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
Ground floor

First floor
Flat roof
TOTAL AREA
B) Internal exposed concrete & concrete block wall surface
Ground floor
First floor
TOTAL AREA
C) Concrete ceiling surface
Ground & First Floor
stair
Landing
water tanker concrete ceiling
deduction
total area
Apply fine coat of fine cement sand plaster to internal plastered surface
Ground floor
First floor
TOTAL AREA
Gypsum plastering to all internal plastered surface
Ground floor
First Floor

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
roof on axis 1-3 b/n A-C
6mm thick glazed ceramic wall tile bedded on & including cement mortar backing and joints grouted in white cement.
Total bathwork
kitchen
toliet
TOTAL cermaic wall area
9mm thick non slippery ceramic floor tile bedded on and including 50mm thick cement sand screed and joints grouted .

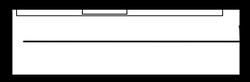
Deduct rest room
Deduct WC
Total area
#NAME?
#NAME?
Perquet skirting
#NAME?
Corridor
Corridor
Corridor
Corridor
Balcony

Balcony
Restaurant
Shop
Shop
Riser
trade
landing
Deduct rest room
Deduct WC
Deduct rest room
Deduct WC
TOTAL AREA
7) Painted

Quartz
#NAME?
Prepare and apply by brush three coats of synthetic enamel paint to:-
A)Internal plastered wall surface
B)plastered ceiling surface
C) plastered stair case belly & sides surface
D)Gypsum board ceiling surface
8) Glazing
Windows
W-1 1500mm x1500mm
W-2 1000mm x 400mm
W-3 1000mm x 1500
W-4 2500mm x 2600mm
Doors
D-1 850mm x 2600mm
D-2 700mm x 2600mm
TOTAL GLAZING

BAR SCHEDULE

Sub structure

FOOTING	Location	Ref no	Bar Shape	Dia	c/c	Length	No of Bars			Total length	Dia 8	Dia 10	Dia 12	Dia 14
	longtudinal			20	0.32	3.40	6	1	6	122				
				20			7	1	6	109.20	-	-	-	-
				20			6	1	10	153.00				
				20			4	1	10	76.00				
				20			3	1	2	12.60				
				20			3	1	2	15.00	-	-	-	-
							Total length [m]				0.00	0.00	0.00	0.00
							Unit weight				0.394	0.616	0.888	1.208
							Total weight [kg]				**0.00**	**0.00**	**0.00**	**0.00**
C 1							1		10	**312.00**	-	-	-	-
stirup							1		10	**134.88**	-	**134.88**	-	-
C 2							1		4	**156.00**	-		-	-
stirup							1		4	**52.00**	-	**52.00**	-	-
C 3							1		1	**31.20**	-		-	-
stirup							1		1	**13.00**	-	**13.00**	-	-
C 4							1		3	**70.20**	-		-	-
stirup							1		3	**39.00**	-	**39.00**	-	-
							Total length [m]				0.00	238.88	0.00	0.00
							Unit weight				0.394	0.616	0.888	1.208
							Total weight [kg]				**0.00**	**147.00**	**0.00**	**0.00**

GRADE BEAM

		-		-	-	
1	3	63.90	-	-	-	
1	3	6.00	-	-	-	
1	3	68.10	-	-	-	
1	3	180.00	180.00	-	-	
1	3	75.60	75.60	-	-	
1	3	60.00	-	-	-	
1	3	6.00	-	-	-	
1	3	64.50	-	-	-	
1	3	162.00	162.00	-	-	
1	3	57.60	57.60	-	-	
1	3	45.78	-	-	-	
1	3	139.44	-	-	-	
1	3	86.40	-	-	-	
1	3	324.00	324.00	-	-	
1	3	230.40	230.40	-	-	
Total length [m]			1029.60	0.00	0.00	0.00
Unit weight			0.394	0.616	0.888	1.208
Total weight [kg]			406.00	0.00	0.00	0.00

GROUND FLOOR SLAB MESH

		-		-	-	
1	2	171.11	171.11	-	-	
1	2	114.26	114.26	-	-	
1	1	57.13	57.13	-	-	
1	1	57.13	57.13	-	-	
1	1	85.56	85.56	-	-	
1	1	17.41	17.41	-	-	
1	1	57.13	57.13	-	-	
1	1	17.41	17.41	-	-	
1	1	85.56	85.56	-	-	
1	1	85.56	85.56	-	-	
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	-	-	
1	1	57.13	57.13	-	-	
Total length [m]			1147.89	0.00	0.00	0.00
Unit weight			0.394	0.616	0.888	1.208
Total weight [kg]			453.00	0.00	0.00	0.00
Total weight [kg] for Sub Struct			859.00	147.00	0.00	0.00

SUPER STRUCTURE

	-	-	-	
	-	224.25	-	-
	-	-	-	-
	-	256.75	-	-
	-	-	-	-
	-	93.60	-	-
	-	-	-	-
	-	93.60	-	-
	-	-	-	-
	-	104.00	-	-
	-	-	-	-
	-	23.73	-	-
	-	-	-	-
	-	23.40	-	-
	-	-	-	-
	-	67.50	-	-
	-	-	-	-
	-	52.50	-	-
Total length [m]	0.00	939.33	0.00	0.00
Unit weight	0.394	0.616	0.888	1.208
Total weight [kg]	**0.00**	**579.00**	**0.00**	**0.00**

-	-	-	128.40
-	-	-	6.00
-	-	-	104.40
195.00	-	-	-
81.90	-	-	-
-	-	-	95.40
-	-	-	6.00
-	-	-	102.60
195.00	-	-	-
81.90	-	-	-
-	-	-	60.00
-	-	-	20.40
-	-	-	66.60
-	-	-	19.80
175.50	-	-	-
62.40	-	-	-

	-	-	-	90.00
	-	-	-	20.40
	-	-	-	99.90
	175.50	-	-	-
	62.40	-	-	-
	-	-	-	-
	-	-	-	-
	-	-	-	-
	-	9.00	-	-
	-	-	-	-
	-	-	-	-
	-	-	-	-
	-	-	-	-
	351.00	-	-	-
	249.60	-	-	-
	-	-	-	69.30
	-	-	-	105.30
	-	-	-	104.40
	-	-	-	82.80
	-	-	-	64.80
	-	-	-	45.72
	351.00	-	-	-
	249.60	-	-	-
	-	-	-	-
	-	-	-	-
	12.00	-	-	-
	8.40	-	-	-
Total length [m]	2251.20	9.00	0.00	1292.22
Unit weight	0.394	0.616	0.888	1.208
Total weight [kg]	888.00	6.00	0.00	1561.00

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

		-	38.00	-
		-	38.00	-
		49.50	-	-
		-	17.10	-
		-	17.10	-
		50.00	-	-
		-	18.00	-
		-	18.00	-
		55.00	-	-
		-	19.00	-
		-	19.00	-
		60.00	-	-
		-	20.00	-
		-	20.00	-
		202.50	-	- -
		-	58.50	- -
		-	58.50	- -
		202.50	-	- -
		-	58.50	- -
		-	58.50	- -
		99.00	-	-
		-	34.20	-
		-	34.20	-
		100.00	-	-
		-	36.00	-
		-	36.00	-
		110.00	-	-
		-	38.00	-
		-	38.00	-
		110.00	-	-
		-	38.00	-
		-	38.00	-
		110.00	-	-
		-	38.00	-
		-	38.00	-
		67.50	-	-
		-	28.50	-
		-	28.50	-
		82.50	-	- -
		-	28.50	- -
		-	28.50	- -
		90.00	-	- -
		-	26.00	- -
		-	26.00	- -
		67.50	-	- -
		-	19.50	- -
		-	19.50	- -
		67.50	-	- -
		-	19.50	- -

[redacted]	-	19.50	-	-
	55.00	-		-
	-	19.00		-
	-	19.00		-
	60.00	-		-
	-	20.00		-
	-	20.00		-
Total length [m]	2553.50	1684.60	0.00	0.00
Unit weight	0.394	0.616	0.888	1.208
Total weight [kg]	**1007.00**	**1038.00**	**0.00**	**0.00**

STAIR

[redacted]	-	-	-	-
	448.00	-	-	-
	-	-	-	-
	-	-	-	-
	123.20	-	-	-
	-	112.00	-	-
	78.40	-	-	-
Total length [m]	649.60	112.00	0.00	0.00
Unit weight	0.394	0.616	0.888	1.208
Total weight [kg]	**256.00**	**69.00**	**0.00**	**0.00**
Total weight [kg] for Super Stru	**2151.00**	**1692.00**	**0.00**	**1561.00**

Dia 16	Dia 18	Dia 20.00	unit	
		122.40	m	
-	-	109.20	m	
		153.00		
		76.00		
		12.60		
-	-	15.00	m	
0.00	0.00	488.20	m	
1.578	1.997	2.466	kg/m	
0.00	**0.00**	**1204.00**	kg	
-	-	**312.00**	m	
-	-	-	m	
-	-	**156.00**	m	
-	-	-	m	
-	-	**31.20**	m	
-	-	-	m	
70.20	-	-	m	
-	-	-	m	
70.20	0.00	499.20	m	
1.578	1.997	2.466	kg/m	
111.00	**0.00**	**1231.00**	kg	

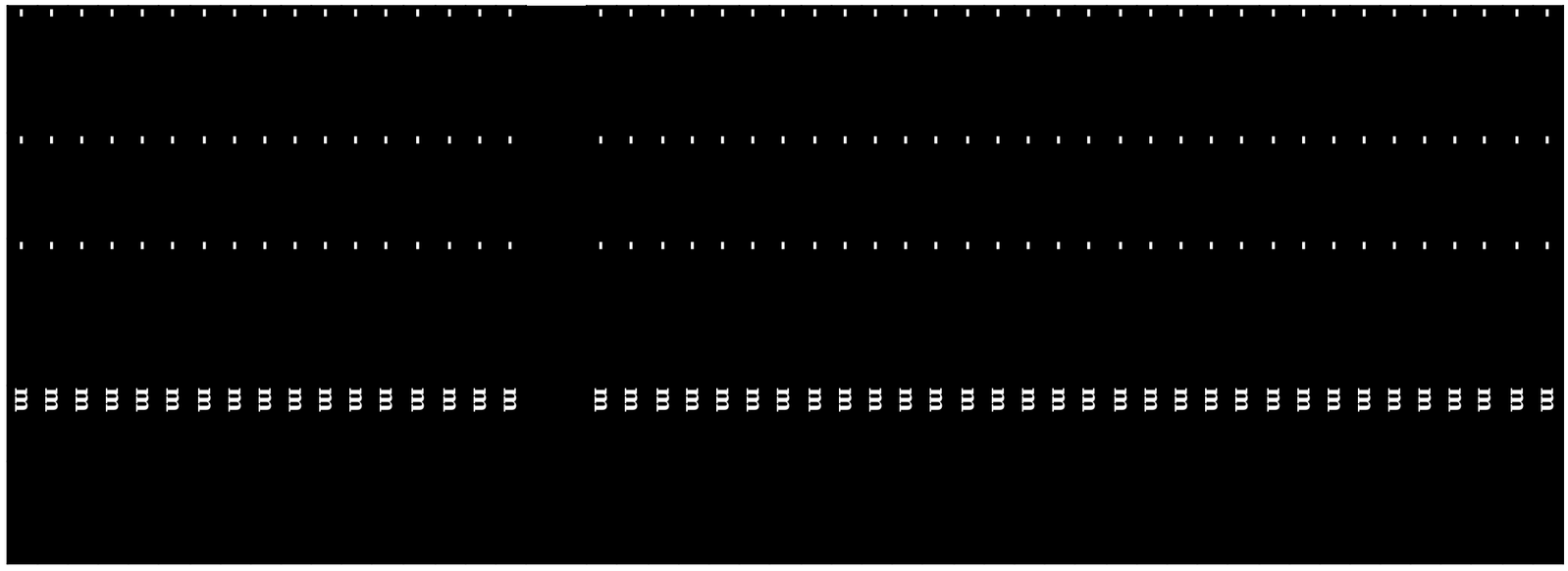
-	-	-	
63.90	-	-	m
6.00	-	-	m
68.10	-	-	m
-	-	-	m
-	-	-	m
60.00	-	-	m
6.00	-	-	m
64.50	-	-	m
-	-	-	m
-	-	-	m
45.78	-	-	m
139.44	-	-	m
86.40	-	-	m
-	-	-	m
-	-	-	m
540.12	0.00	0.00	m
1.578	1.997	2.466	kg/m
852.00	**0.00**	**0.00**	kg
-	-	-	
-	-	-	m
-	-	-	m
-	-	-	m
-	-	-	m
-	-	-	m
-	-	-	m
-	-	-	m
-	-	-	m
-	-	-	m
-	-	-	m
-	-	-	m
-	-	-	m
-	-	-	m
-	-	-	m
0.00	0.00	0.00	m
1.578	1.997	2.466	kg/m
0.00	**0.00**	**0.00**	kg
963.00	**0.00**	**2435.00**	kg

-	-	344.00	m
-	-	-	m
-	-	288.00	m
-	-	-	m
-	-	137.60	m
-	-	-	m
-	-	137.60	m
-	-	-	m
-	-	115.20	m
-	-	-	m
-	-	43.00	m
-	-	-	m
-	-	36.00	m
-	-	-	m
77.40	-	-	m
-	-	-	m
64.80	-	-	m
-	-	-	m
142.20	0.00	1101.40	m
1.578	1.997	2.466	kg/m
224.00	0.00	2716.00	kg

-	-	-	m
-	-	-	m
-	-	-	m
-	-	-	m
-	-	-	m
-	-	-	m
-	-	-	m
-	-	-	m
-	-	-	m
-	-	-	m
-	-	-	m
-	-	-	m
-	-	-	m
-	-	-	m
-	-	-	m
-	-	-	m
-	-	-	m

-	-	-	m
-	-	-	m
-	-	-	m
-	-	-	m
-	-	-	m
46.20	-	-	m
10.20	-	-	m
11.40	-	-	m
-	-	-	m
105.30	-	-	m
104.40	-	-	m
55.20	-	-	m
43.20	-	-	m
-	-	-	m
-	-	-	m
-	-	-	m
-	-	-	m
-	-	-	m
-	-	-	m
-	-	-	m
-	-	-	m
-	-	-	m
-	-	-	m
10.00	-	-	m
12.80	-	-	m
-	-	-	m
-	-	-	m
398.70	0.00	0.00	m
1.578	1.997	2.466	kg/m
629.00	**0.00**	**0.00**	kg

-	-	-	m
-	-	-	m
-	-	-	m
-	-	-	m
-	-	-	m
-	-	-	m
-	-	-	m
-	-	-	m
-	-	-	m
-	-	-	m
-	-	-	m
-	-	-	m
-	-	-	m
-	-	-	m
-	-	-	m
-	-	-	m
-	-	-	m



-	-	-	m	
-	-	-	m	
-	-	-	m	
-	-	-	m	
-	-	-	m	
-	-	-	m	
-	-	-	m	
0.00	0.00	0.00	m	
1.578	1.997	2.466	kg/m	
0.00	**0.00**	**0.00**	kg	

280.00	-	-	m	
-	-	-	m	
156.00	-	-	m	
89.60	-	-	m	
-	-	-	m	
-	-	-		
-	-	-	m	
525.60	0.00	0.00	m	
1.578	1.997	2.466	kg/m	
829.00	**0.00**	**0.00**	kg	
1682.00	**0.00**	**2716.00**	kg	

G+1 MULTI PURPOSE BUILDING				
Item No	**Description**	**Unit**	**Qty**	**Rate**
	A-SUB STRUCTURE			
	1. 0 EXCAVATION & EARTH WORK			
1.01	Clear and remove top soil to an average depth of 20 cm.	m²	368.56	31.25
1.02	Bulk excavation in ordinary soil to reduce levels to the designed level up to 500mm .	m³	164.71	9.52
1.03	Pit excavation 25 cm away from the max edge of footing pad at each side in M3..... (100 CM)	m³	455.22	347.66
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.	m³	290.51	195.73
1.05	fill around massonary wall	m³	15.00	195.73
1.06	selected material fill at an average depth of 30 cm	m³	35.00	195.73
1.07	Cart away surplus excavated materials from the site as per the Engineer's instruction.	m³	327.97	84.90
1.08	25cm basaltic stone hard core under concrete floor	m²	274.88	135.77
	Total carried to Summary			
	2. 0 CONCRETE WORK			
2.01	50mm lean concrete quality C-5, 150 kg of cement/m3: under			
	a) Under foundation pad	m²	56.93	15.60
	b) Under Grade beam	m²	26.79	15.60
2.02	Reinforced concrete quality C-25			
	a) in pad foundation	m³	27.72	3,112.12
	b) In grade beam	m³	10.72	3,112.12
	c) In 150mm thick ground floor slab	m²	59.55	466.58
	d) foundation column	m³	2.73	3,112.12
	e) Outside stairs	m³	1.68	3,112.12
2.03	Provide, cut and fix in position sawn zigba wood or steel formwork which ever appropriate.			
	a)To grade beam	m²	10.72	654.52
	b)To steps	m²	9.16	622.47
	c) Foundation pad	m²	65.62	622.47
	d) foundation column	m²	26.40	622.47
2.04	Mild steel reinforcement			
	a) dia 6 mm plain bar	kg		
	b) dia 8 mm deformed bar	kg	859.00	73.21
	c) dia 10 mm deformed bar	kg	147.00	64.66
	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

	g) dia 20 mm deformed bar	kg	2435.00	62.98
	h) dia 24 mm deformed bar	kg		
2.05	10mm thick expansion joint filler under grade beam	m	44.65	20.00
	Total carried to Summary			
	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
3.02	ditto item 3.01 for above the ground	m^3	15.93	2,445.40
	Total carried to Summary			
	Total carried to Summary for all sub sturacure works ...			
	B-SUPER STRUCTURE			
1.01	**CONCRETE WORK**			
	Reinforced concrete quality C-25,			
	a) In elevation columns	m^3	13.82	3,112.12
	b) In first floor beam	m^3	10.72	3,112.12
	c) In Top tiebeams	m^3	10.72	3,112.12
	d) Staircase and landing	m^3	4.14	3,112.12
	e) stair beam	m^3	0.44	3,112.12
	f) In Rc Gutter	m^3	4.40	3,112.12
	i) In 150mm first floor slab	m^2	396.98	487.41
	i) In 150mm flatfloor slab	m^2	296.16	487.41
	h) water tank slab	m^2	11.78	487.41
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
	b) In first floor beam	m^2	120.56	654.52
	c) In Top tiebeams	m^2	78.44	654.52
	d) Staircase and landing	m^2	26.08	
	e) landing beam	m^2	3.50	654.52
	f) In Rc Gutter	m^2	45.33	654.52
	i) In 150mm first floor slab	m^2	120.56	648.57
	i) In 150mm flatfloor slab	m^2	59.67	648.57
	h) water tank slab	m^2	15.15	648.57
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
	c) dia 10 mm deformed bar	kg	1692.00	64.66
	d) dia 12 mm deformed bar	kg		
	e) dia 14 mm deformed bar	kg	1561.00	63.33
	f) dia 16 mm deformed bar	kg	1682.00	64.30

	g) dia 20 mm deformed bar	kg	2716.00	62.98
	h) dia 24mm deformed bar	kg		
	Total carried to Summary			
	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.	m²	277.02	378.19
2.02	Ditto as Item 2.01 but for150mm HCB guard wall	m²	353.60	361.93
	Total carried to Summary			
	3. ROOFING			
3.01	For 15 cm solid slab flat roof			
	A) 3cm thick cement sand screed over light weight pumice	m²	294.67	177.12
	B) Average 12cm thick light weight concrete over roof slab giving 2%slope towards down pipe trowel finished to receive water proofing material.	m²	294.67	186.69
	C) Bituminous modified polymer water proofing material with 4 mm thick sand finisher equivalent all accord-ing to manufacturers instruction.	m²	294.67	55.00
3.02	G30 CIS Roofing (without truss and purlin) price includes ridge cover and washer	m²	412.20	243.10
3.03	G28 Sheet Metal Down down pipe	ml	42.00	24.97
3.04	Flashing.	ml	42.86	183.09
3.05	20 cm wide fascia board	ml	39.60	271.19
3.06	gutter development size 40	ml	52.00	318.44
	Total carried to Summary			
	4. CARPENTRY & JOINERY			
	Wood roof truss member :			
4.01	10 cm. dia. Upper & Lower Chords Eucaliptus Wood	m	139.80	33.53
4.02	6 cm. dia. Vertical & Diagonal Members of a Truss	m	139.44	45.98
4.03	5 X 7 cm. Tid Wood Roof Purlin	m	360.00	94.74
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
	b) Type D2 size 700x2600 mm	no	18.00	2,113.42
	Total carried to Summary			
	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
	b) Type W2 Size :1000x400mm	no	6.00	1,024.00
	c) Type W3 Size :1000x1500mm	no	2.00	3,840.00
	d) Type W4 Size :2500x2600mm	no	4.00	16,640.00
	DOORS			
	external			
	a) Type D1 size 850x2600 mm	no	10.00	5,657.60
	b) Type D3 size 1300x2600 mm	no	2.00	8,652.80
5.2	c)Type D4size 1250x2600 mm	no	2.00	8,320.00
	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
	b)Guard rail	m	50.00	1,440.00
	Total carried to Summary			
	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
	B) Internal exposed concrete & concrete block wall surface	m^2	396.17	276.42
	C) Concrete ceiling surface	m^2	293.13	222.29
	D) Stair belly,sides & landing	m^2	203.08	222.29
	E)water tanker ceiling	m^2	110.00	222.29

6.05	Apply fine coat of fine cement sand plaster to internal plastered surface	m^2	396.17	45.12
6.06	Gypsum plastering to all internal plastered surface	m^2	396.17	53.28
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
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
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
6.10	25mm thick tid perquet floor with all acceceries	m^2	45.00	1,714.44
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
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
6.11	marble tile skirting stuck to wall with cement mortar	m^2	85.00	355.01
6.12	ceramic tile skirting stuck to wall with cement mortar	m^2	155.00	157.64
6.13	Copping in harar marble tile bedded in cement mortar & joints grouted .Size - 20/2cm	m^2	149.55	1,599.35
6.14	8cm pvc skirting	m	117.84	107.95
6.15	Copping in harar marble tile bedded in cement mortar & joints grouted for riser	m	50.00	409.06
6.16	Copping in harar marble tile bedded in cement mortar & joints grouted for tread	m	50.00	585.81
6.17	3cm thick marble window sill 30cm	m	44.00	417.23
	TOTAL TO SUMMARY.....			
	7. PAINTING			
7.1	Quartz paint External plastered wall surface	m^2	396.00	53.25
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
	B)plastered ceiling surface	m^2	293.13	77.42
	C) plastered stair case belly & sides surface	m^2	197.10	77.42
	D)Gypsum board ceiling surface	m^2	293.13	77.42
	Total carried to summary			
	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

8.2	5mm thick frosted glass glazed with beads, rubber gasket and sealant to alumunium profile frames.	m²	4.40	710.66
	Total carried to Summary			
	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
	Diameter 20 mm	ml	40.00	85.00
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
	Diameter 20 mm	Pcs	10.00	45.00
	Elevated water tank			
9.3	Supply and mount 8m³ 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
	b)Diameter 32mm brass gate valve for outlet pipe	Pcs	1.00	350.00
	c)Diameter 32mm brass gate valve for drain pipe	Pcs	1.00	350.00
	d)Diameter 32mm brass gate valve for inlet pipe	Pcs	1.00	250.00
	e)Diameter 40mm PVC float valve	Pcs	1.00	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
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

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
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
9.8	Supply and fix toilet paper holder in white vitreous China complete with all the necessary accessories	Pcs	12.00	100.00
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
	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
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
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
	Total carried to Summary.....	**Birr**		

Total to Summary for super sturacture .....

Amount
11,517.41
1,568.04
158,260.08
56,861.28
2,935.94
6,850.52
27,843.29
37,320.11
303,156.66
888.11
417.92
86,275.68
33,349.45
27,783.36
8,507.75
5,228.36
7,013.82
5,701.86
40,846.71
16,433.30
-
62,887.45
9,505.66
-
-
61,917.89

153,351.73
-
893.00
521,002.06
28,599.20
38,949.01
67,548.21
891,706.94
42,997.55
33,349.45
33,349.45
12,874.83
1,369.33
13,704.37
193,488.57
144,350.22
5,742.63
95,518.66
78,905.51
51,337.18
-
2,290.82
29,666.06
78,187.83
38,703.15
9,825.77
-
157,474.86
109,412.12
-
98,851.30
108,147.34

171,048.59
1,510,595.60
104,766.19
127,978.01
232,744.20
52,191.62
55,011.24
16,206.67
100,204.33
1,048.69
7,847.25
10,739.03
16,559.06
259,807.89
4,688.15
6,411.71
34,108.11
25,662.93
38,041.52
108,912.42

81,900.00
6,144.00
7,680.00
66,560.00
56,576.00
17,305.60
16,640.00
23,040.00
72,000.00
347,845.60
76,435.53
109,509.13
65,161.22
45,143.40
24,452.31

17,875.19
21,107.94
19,064.25
91,450.03
11,845.85
77,149.69
59,536.67
19,859.48
30,175.59
24,434.88
239,183.51
12,721.05
20,452.98
29,290.33
18,358.04
1,013,207.06
-
21,087.46
-
37,070.60
22,694.06
15,259.44
22,694.06
97,718.15
29,340.15

3,126.88
32,467.03
3,900.00
3,400.00
560.00
450.00
15,000.00
350.00
350.00
250.00
350.00
42,000.00
42,000.00

42,000.00
2,400.00
1,200.00
9,000.00
27,000.00
7,844.00
2,125.00
200,179.00

3,803,476.95

SUMMARY

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

SUMMARY

A-SUB STRUCTURE

1 EXCAVATION AND EARTH WORK..... BIRR

2 CONCRETE WORK..... BIRR

3 MASONARY WORK..... BIRR

SUB TOTAL A..... BIRR

B-SUPER STRUCTURE

1 CONCRETE WORK..... BIRR

2 BLOCK WORK..... BIRR

3 ROOFING WORK..... BIRR

4 CARPENTRY WORK..... BIRR

5 METAL AND ALUMINIUM WORK..... BIRR

6 FINISHING WORK..... BIRR

9 PAINTING WORK..... BIRR

8 GLAZING WORK..... BIRR

10 SANITARY INSTALLATION WORK..... BIRR

SUB TOTAL B..... BIRR
TOTAL A+B..... BIRR

GRAND SUMMARY

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

303,156.66
521,002.06
67,548.21
891,706.94
1,510,595.60
232,744.20
259,807.89
108,912.42
347,845.60
1,013,207.06
97,718.15
32,467.03
200,179.00
3,803,476.95
4,695,183.89

ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

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

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

RESULT: 31.25

TOTAL QANTITY OF WORK ITEM: 1 m^2

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

A= Materials Unit Cost 0 Birr/m^2

B= Manpower Unit Cost 23.876 Birr/m^2

Total of (1:02) 1.44

Hourly Output: 0.89

C= Equipment Unit Cost

Total of (1:03

Hourly output

Direct Cost of Work Item = A+B+C = 25.00

Over head cost : 10% 2.50

Profit Cost: 15% 3.75

Total Unit Cost : 31.25

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. — LABOUR HOURLY OUTPUT:

WORK ITEM: (1.02) — Bulk excav. to a depth not exceeding 500mm — EQUIPEMENT: Tool

RESULT:

TOTAL QANTITY OF WORK ITEM: 1 m^3

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

A= Materials Unit Cost 0 Birr/m^3

B= Manpower Unit Cost 107.14 Birr/m^3

Total of (1:02)

Hourly Output:

C= Equipment Unit Cost

Total of (1:03)

Hourly output

Direct Cost of Work Item = A+B+C = 111.90

Over head cost : 10% 11.19

Profit Cost: 15% 16.79

Total Unit Cost : 139.88

Remark _____

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ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT: G+1 MULTI PURPOSE — EXCAVATION AND EARTH WORK. — LABOUR HOURLY OUTPUT:

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

RESULT: 347.66

TOTAL QANTITY OF WORK ITEM: 1 m^3

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

A= Materials Unit Cost 0 Birr/m^3

B= Manpower Unit Cost 265.63 Birr/m^3

C= Equipment Unit Cost

Total of (1:02) — Total of (1:03)

Hourly Output: — Hourly output

Direct Cost of Work Item = A+B+C = 278.13

Over head cost : 10% 27.81

Profit Cost: 15% 41.72

Total Unit Cost : 347.66

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. — LABOUR HOURLY OUTPUT:

WORK ITEM: (1.04) Back fill excavated materials from the site. EQUIPEMENT: Tool

RESULT: 195.73

TOTAL QANTITY OF WORK ITEM: 1 m^3

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

A= Materials Unit Cost 0 Birr/m^3

B= Manpower Unit Cost 150 Birr/m^3

Total of (1:02)

Hourly Output:

C= Equipment Unit Cost

Total of (1:03

Hourly output

Direct Cost of Work Item = A+B+C = 156.58

Over head cost : 10% 15.66

Profit Cost: 15% 23.49

Total Unit Cost : 195.73

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. LABOUR HOURLY OUTPUT:

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

RESULT: **84.90**

TOTAL QANTITY OF WORK ITEM: 1 m^3

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

A= Materials Unit Cost 0 Birr/m^3

B= Manpower Unit Cost 11.25 Birr/m^3
Total of (1:02)
Hourly Output:

C= Equipment Unit Cost
Total of (1:03
Hourly output

Direct Cost of Work Item = A+B+C =		67.92
Over head cost :	10%	6.79
Profit Cost:	15%	10.19
Total Unit Cost :		**84.90**

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: (1.08) 25cm. thick basaltic hard core.

LABOUR HOURLY OUTPUT:

EQUIPEMENT: Tool

RESULT: 135.77

TOTAL QANTITY OF WORK ITEM: 1 m^2

Material Cost (1:01)					Labour Cost (1:02)					Eq
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labour by Grade	No.	UF	** Indexed Hourly Cost	Hourly Cost	Type of Equipment
basaltic stone	m^2	0.28	150	42	foreman	1	0.25	37.5	9.38	tools
				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	
Total (1:-01)				42	**Total (1:02)**				121.875	**Tota**

A= Materials Unit Cost 42 Birr/m^2

B= Manpower Unit Cost 60.938 Birr/m^2

Total of (1:02)

Hourly Output:

C= Equipment Unit Cost

Total of (1:03)

Hourly output

Direct Cost of Work Item = A+B+C =		104.44
Over head cost :	15%	15.67
Profit Cost:	15%	15.67
Total Unit Cost :		135.77

Remark _____

UF: UTILIZATION FACTOR

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

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

0.89 m^2/hr.

Birr/m^2

uipment Cost (1:03)		
No.	Hourly Rental	Hourly Cost
1	1	1
		0
		0
		0
		0
		0
		0
		0
		0
al (1:03)		1

1.12 Birr/m^2

)

: _____

Birr/m^2

"

"

Birr/m^2

0.21 m^3/hr.

9.52 Birr/m^3

uipment Cost (1:03)		
No.	Hourly Rental	Hourly Cost
1	1	1
		0
		0
		0
		0
		0
		0
		0
		0
al (1:03)		1

4.76 Birr/m^3

)

: _____

Birr/m^3

"

"

Birr/m^3

0.08 m^3/hr.

Birr/m^3

uipment Cost (1:03)		
No.	Hourly Rental	Hourly Cost
1	1	1
		0
		0
		0
		0
		0
		0
		0
		0
al (1:03)		1

12.50 Birr/m^3

)

: _____

Birr/m^3

"

"

Birr/m^3

0.15 m^3/hr.

Birr/m³

uipment Cost (1:03)		
No.	Hourly Rental	Hourly Cost
1	1	1
		0
		0
		0
		0
		0
		0
		0
		0
al (1:03)		1

6.67 Birr/m³

)

: _____

Birr/m³

"

"

Birr/m³

24 m³/hr.

Birr/m³

uipment Cost (1:03)		
No.	Hourly Rental	Hourly Cost
1	700.00	700.00
2	330.00	660.00
		0.00
		0.00
		0.00
		0.00
		0.00
		0.00
		0.00
al (1:03)		1360.00

56.67 Birr/m^3

)

: _____

Birr/m^3

"

"

Birr/m^3

2 m^2/hr.

Birr/m^2

uipment Cost (1:03)		
No.	Hourly Rental	Hourly Cost
3	1	3
		0
		0
		0
		0
		0
		0
		0
al (1:03)		3

1.50 Birr/m²

)

: _____

Birr/m²

"

"

Birr/m²

ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

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

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

LABOUR HOURLY OUTPUT:

EQUIPEMENT:

RESULT: 15.60

TOTAL QUANTITY OF WORK ITEM: 1 m^2

Material Cost (1:01)					Labour (1:02)					
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labour by Trade	No.	UF	** Indexed Hourly Cost	Hourly Cost	Type of Equipment
Cement	Qnt.	2.13	385	820.05	Mason I	1	1	37.5	37.5	-
Sand	m3	0.175	464.00	81.2	D/L	2	1	18.75	37.5	-
Gravel (02)	m^3	0.35	360.00	126					0	
Water	m^3	0.054	0.75	0.041					0	
				0					0	
				0					0	
				0					0	
Total (1:-01)				1027.2905	**Total (1:02)**				75	**T**

A= Materials Unit Cost 0.00 Br./m^2

B=Manpower Unit Cost 12.00 Br./m^2

C=Equipmen

Total of (1:02) 5.65

Total of (1:0

Hourly Output 6.25

Hourly outp

Direct Cost of work item= A+B+C= 12.00

Overhead Cost: 15% 1.80

Profit Cost: 15% 1.80

Total Unit Cost : 15.60

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***

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

TOTAL QUANTITY OF WORK ITEM: 1 m^3

LABOUR HOURLY OUTPUT:

EQUIPEMENT: Mixer & Vibrator

RESULT: 3112.12

Material Cost (1:01)					Labour (1:02)					Equipr
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labour by Trade	No.	UF	** Indexed Hourly Cost	Hourly Cost	Type of Equipment
Cement	Qnt.	3.97	385.00	1528.45	Foreman	1	1	37.5	37.5	Mixer
Sand	m3	0.51	464.00	236.64	Mason II	2	1	37.5	75	Vibrator
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	**T**

A= Material 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= Equipmer

Total of (1:0

Hourly outp

Direct Cost of work item = A+B+C = 2489.69

Overhead Cost: 15% 373.45

Profit Cost: 10% 248.97

Total Unit Cost : 3112.12

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

TOTAL QUANTITY OF WORK ITEM: _ 1 m^3

LABOUR HOURLY OUTPUT:

EQUIPEMENT:_

RESULT : 3237.04

Material Cost (1:01)					Labour (1:02)					Equipı
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labour byTrade	No.	UF	** Indexed Hourly Cost	Hourly Cost	Type of Equipment
Cement	Qnt.	4.1	385	1578.5	Foreman	1	0.167	37.5	6.2625	
Sand	m3	0.53	464.00	245.92	Mason II	1	1	37.5	37.5	
Gravel (02)	m^3	0.79	500.00	395	D/L	10	1	18.75	187.5	
Water	m^3	0.26	0.75	0.195					0	
				0					0	
				0					0	
				0					0	
Total (1:-01)				2219.615	**Total (1:02)**				231.26	**T**

A= Material 2219.62 Birr/m^3

B=Manpower Unit Cost 370.02 Br./m^3

Total of (1:02) 12.08

Hourly Output 0.625

C= Equipmer

Total of (1:0

Hourly outp

Direct Cost of work item = A+B+C = 2589.64

Overhead Cost: 10% 258.96

Profit Cost: 15% 388.45

Total Unit Cost : 3237.04

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:

EQUIPEMENT: Mixer & Vibrator

RESULT: 3251.01

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

A= Material 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= Equipmer

Total of (1:0

Hourly outp

Direct Cost of work item = A+B+C = 2600.81

Overhead Cost: 15% 390.12

Profit Cost: 10% 260.08

Total Unit Cost : 3251.01

Remark _____

UF: UTILIZATION FACTOR

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6.25 m^2/hr.

Birr/m^2

Equipment Cost (1:03)		
No.	Hourly Rental	Hourly Cost
		0
		0
		0
		0
		0
		0
		0
'otal (1:03)		0

t Unit Cost 0 Br./m^2

)3)

ut: _____

Birr/m^2

" 16.8

"

Birr/m^2

1.125 m^3 / hr. 9

Birr/m^3

ment Cost (1:03)		
No.	Hourly Rental	Hourly Cost
1	62.5	62.5
1	25	25
otal (1:03)		87.5

nt Unit Cost : 77.78 Br./m^3

)3) 46.85

ut: 0.75

Birr/m^3

"

"

Birr/m^3

0.625 m^3/hr.

Birr/m^3

ment Cost (1:03)		
No.	Hourly Rental	Hourly Cost
		0
		0
		0
		0
		0
		0
		0
otal (1:03)		0

nt Unit Cost : 0.00 Br./m^3

)3)

ut:

Birr/m^3

"

"

Birr/m^3

1.125 m^3 / hr. 9

Birr/m^3

ment Cost (1:03)		
No.	Hourly Rental	Hourly Cost
1	62.5	62.5
1	25	25
1	125	125
otal (1:03)		212.5

nt Unit Cost : 188.89 Br./m^3

)3) 46.85

ut: 0.75

Birr/m^3

"

"

Birr/m^3

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:

EQUIPMENT:

RESULT: 73.21

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

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 U

Total of (1:(

Hourly outp

Direct Cost of Work Item = A+B+C = 58.57

Over head cost : 10% 5.86

Profit Cost: 15% 8.79

Total Unit Cost : 73.21

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 REINFORCEMENT BARS

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

TOTAL QUANTITY OF WORK ITEM : 1 kg

LABOUR HOURLY OUTPUT:

EQUIPMENT:

RESULT: 64.66

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

A= Materials Uni 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= Equipmer

Total of (1:(

Hourly outp

Direct Cost of Work Item = A+B+C = 51.73

Over head cost : 10% 5.173

Profit Cost: 15% 7.760

Total Unit Cost : 64.664

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 REINFORCEMENT BARS

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

TOTAL QUANTITY OF WORK ITEM : 1 kg

LABOUR HOURLY OUTPUT:

EQUIPMENT:

RESULT: 64.30

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

A= Materials Uni 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= Equipmer

Total of (1:(

Hourly outp

Direct Cost of Work Item = A+B+C = 51.44

Over head cost : 10% 5.144

Profit Cost: 15% 7.716

Total Unit Cost : 64.297

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 REINFORCEMENT BARS

LABOUR HOURLY OUTPUT:

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

TOTAL QUANTITY OF WORK RESULT: 62.98

ITEM : 1 kg

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

A= Materials Uni 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= Equipmer

Total of (1:(

Hourly outp

Direct Cost of Work Item = A+B+C = 50.38

Over head cost : 10% 5.038

Profit Cost: 15% 7.557

Total Unit Cost : 62.978

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 REINFORCEMENT BARS LABOUR HOURLY OUTPUT:

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

RESULT: 63.33

)TAL QUANTITY OF WORK ITEM 1 kg

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

A= Materials Uni 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= Equipmer

Total of (1:(

Hourly outp

Direct Cost of Work Item = A+B+C = 50.66

Over head cost : 10% 5.066

Profit Cost: 15% 7.599

Total Unit Cost : 63.326

UF: UTILIZATION FACTOR

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

9 kg/hr.

Birr/kg.

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

nit Cost 0.00 Birr/kg.
)3)
ut: _____
Birr/kg.
"
"
Birr/kg.

12.5 kg./hr

Birr/kg.

ipment Cost (1:03)		
No.	Hourly Rental	Hourly Cost
		0
		0
		0
		0
		0
		0
		0
		0
		0
		0
03)		0

nt Unit Cost 0 Birr/kg.

03)

ut: _____

Birr/kg.

"

"

Birr/kg.

12.5 kg./hr

Birr/kg.

ipment Cost (1:03)		
No.	Hourly Rental	Hourly Cost
		0
		0
		0
		0
		0
		0
		0
		0
		0
		0
03)		0

nt Unit Cost 0 Birr/kg.

03)

ut: _____

Birr/kg.

"

"

Birr/kg.

12.5 kg./hr

Birr/kg.

ipment Cost (1:03)		
No.	Hourly Rental	Hourly Cost
		0
		0
		0
		0
		0
		0
		0
		0
		0
		0
03)		0

nt Unit Cost 0 Birr/kg.

03)

ut: _____

Birr/kg.

"

"

Birr/kg.

12.5 kg./hr

Birr/kg.

ipment Cost (1:03)		
No.	Hourly Rental	Hourly Cost
		0
		0
		0
		0
		0
		0
		0
		0
		0
		0
03)		0

nt Unit Cost 0 Birr/kg.

03)

ut: _____

Birr/kg.

"

"

Birr/kg.

ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

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

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

TOTAL QANTITY OF WORK ITEM: 1 m^3

LABOUR HOURLY OUTPUT:

EQUIPEMENT:

RESULT 2445.40

Material Cost (1:01)					Labour (1:02)					Equipment Co
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labour by Grade	No.	UF	** Indexed Hourly Cost	Hourly Cost	Type of Equipment
Cement	Qnt.	0.88	385.00	338.8	Foreman	1	0.17	37.5	6.38	
Sand	m^3	0.17	464.00	78.88	Masone II	2	1	37.5	75.00	
Stone	m^3	1.25	687.00	858.75	D/L	4	1	18.75	75.00	
				0					0.00	
				0					0.00	
				0					0.00	
				0					0.00	
				0					0.00	
				0					0.00	
Total (1:-01)				1276.43	**Total (1:02)**				156.38	**T**

A= Material 1276.43 Birr/m^3

B=Manpower Unit Cost 679.8913 Birr/m^3

Total of (1:02)

Hourly Outp 7.08/0.24 = 29.5

C=Equipment

Total of (1:0

Hourly outp

Direct Cost of work item = A + B + C = **1956.32** Birr/m^3

Overhead Cost : 10% 195.63 "

Profit Cost: 15% 293.45 "

Total Unit Cost : **2445.40** Birr/m^3

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 **MASONRY WORKS**

LABOUR HOURLY OUTPUT:

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

EQUIPEMENT:

TOTAL QANTITY OF WORK ITEM: 1 m^3

RESULT 2194.61

Material Cost (1:01)					Labour (1:02)					Equipment Co
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labour by Grade	No.	UF	** Indexed Hourly Cost	Hourly Cost	Type of Equipment
Cement	Qtl..	0.92	385.00	354.2	Foreman	1	0.17	37.5	6.38	
Sand	m^3	0.26	464.00	120.64	Masone II	2	1	37.5	75.00	
Stone	m^3	1.3	687.00	893.1	D/L	6	1	18.75	112.50	
				0					0.00	
				0					0.00	
				0					0.00	
				0					0.00	
				0					0.00	
				0					0.00	
Total (1:-01)				1367.94	**Total (1:02)**				193.88	**T**

A= Material 1367.94 Birr/m^3

B=Manpower Unit Cost 387.75 Birr/m^3

C=Equipment

Total of (1:02)

Total of (1:0

Hourly Output

Hourly outp

Direct Cost of work item = A + B + C =		**1755.69**	Birr/m^3
Overhead Cost :	10%	175.57	"
Profit Cost:	15%	263.35	"
Total Unit Cost :		**2194.61**	Birr/m^3

Remark : _____

UF: UTILIZATION FACTOR

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

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

0.23 m^3/hr.

Birr/m^3

st (1:03)		
No.	Hourly Rental	Hourly Cost
		0
		0
		0
		0
		0
		0
		0
		0
		0
otal (1:03)		0

Unit Cost 0 Birr/m^3

3)

ut: _____

0.5 m^3/hr.

Birr/m^3

st (1:03)		
No.	Hourly Rental	Hourly Cost
		0
		0
		0
		0
		0
		0
		0
		0
		0
otal (1:03)		0

Unit Cost 0 Birr/m^3

3)

ut: _____

ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

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

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

LABOUR HOURLY OUTPUT:

EQUIPEMENT:

RESULT: 622.47

TOTAL QANTITY OF WORK ITEM: 1 m^2

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

Materials Unit Cost 362.56 Birr/m^2

B= Manpower Unit Cost 135.42 Birr/m^2

C=Equipment Unit Cos

Total of (1:02)

Total of (1

Hourly Output: _____

Hourly out

Direct Cost of Work Item = A+B+C = 497.98

Over head cost : 10% 49.80

P Profit Cost: 15% 74.70

T Total Unit Cost : 622.47

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: _ (2.03) For Grade Beam.

LABOUR HOURLY OUTPUT:
EQUIPEMENT:
RESULT: 654.52

TOTAL QUANTITY OF WORK ITEM : 1 m^2

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

A Materials Unit Cost 361.09 Birr/m^2 B= Manpower Unit Cost 162.525 Birr/m^2 C=Equipment Unit Cos

Total of (1:02) Total of (1

Hourly Output: Hourly out

Direct Cost of Work Item = A+B+C =		523.62
Over head cost :	10%	52.36
P Profit Cost:	15%	78.54
T Total Unit Cost : __		654.52

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.

LABOUR HOURLY OUTPUT: __
EQUIPEMENT:
RESULT: 670.27

TOTAL QUANTITY OF WORK ITEM : _ 1 m^2

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

A Materials Unit Cost 373.69 Birr/m^2 B= Manpower Unit Cost 162.525 Birr/m^2 C=Equipment Unit Cos

Total of (1:02) Total of (1

Hourly Output: Hourly out

Direct Cost of Work Item = A+B+C =		536.22
Over head cost : __	10%	53.62
P Profit Cost:	15%	80.43
T Total Unit Cost : _		670.27

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)

LABOUR HOURLY OUTPUT:
EQUIPEMENT:
RESULT 648.57

TOTAL QUANTITY OF WORK ITEM : 1 m^2

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

A= Materials Unit Cost 437.59 Birr/m^2 B= Manpower Unit Cost 81.26 Birr/m^2 C=Equipment Unit Cos

Total of (1:02) Total of (1

Hourly Output: Hourly out

Direct Cost of Work Item = A+B+C = _		518.85
Over head cost : _	10%	51.89
P Profit Cost:	15%	77.83
T Total Unit Cost :		648.57

UF: UTILIZATION FACTOR
*: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.

0.6 m^2/hr.

Birr/m^2

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

st 0 Birr/m^2

:03)

put: _____

Birr/m^2

Birr/m^2

Birr/m^2

Birr/m^2

0.5 m^2/hr.

Birr/m^2

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

t 0 Birr/m^2

:03)

put: _____

Birr/m^2

Birr/m^2

Birr/m^2

Birr/m^2

0.5 m^2/hr.

Birr/m^2

Equipment Cost (1:03)		
No.	Hourly Rental	Hourly Cost
		0
		0
		0
		0
		0
		0
Total (1:03)		0.00

t 0 Birr/m^2

:03)

put: _____

Birr/m^2

Birr/m^2

Birr/m^2

Birr/m^2

1 M^2/hr

Birr/m^2

Equipment Cost (1:03)		
No.	Hourly Rental	Hourly Cost
		0
		0
		0
		0
		0
		0
		0
		0
		0
		0
Total (1:03)		0.00

t 0 Birr/m^2

:03)

put: _____

Birr/m^2

Birr/m^2

Birr/m^2

Birr/m^2

ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT: :G+1 DUPLEX **ROOFING WORKS** LABOUR HOURLY OUTPUT: _

WORK ITEM 3.04 Flashing Development Size 19 cm. EQUIPEMENT:

RESULT: _____ 183.09

TOTAL QANTITY OF WORK ITEM: 1 m

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

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 Cos

Total of (1

Hourly out

Direct Cost of Work Item = A+B+C = 146.47

Over Head : 10% 14.65

P Profit Cost: 15% 21.97

Total Unit Cost : 183.09

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 **ROOFING WORKS**

WORK ITEM: 3.03 Down Pipe Development Size 33 cm.

LABOUR HOURLY OUTPUT:

EQUIPMENT:

RESULT: 24.97

TOTAL QUANTITY OF WORK ITEM: 1 m.

Material Cost (1:01)					Labour (1:02)					Equipment Cost (
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labour by Grade	No.	UF	** Indexed Hourly Cost	Hourly Cost	Type of Equipment
G28 Sheet Metal Down				0	Foreman	1	0.167	5	0.84	
Pipe Dev. Size 33 cm.	ml.	1.05	14	14.7	Carpenter	1	1	3.75	3.75	
Staffa For Down Pipe	pcs.	2	1.5	3	Helper	1	1	1.9	1.90	
				0	D/L	1	1	1.25	1.25	
				0					0.00	
				0					0.00	
				0					0.00	
				0					0.00	
									0.00	
Total (1:-01)				17.70	**Total (1:02)**				7.73	T

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

Total of (1:02) Total of (1

Hourly Output: 7.73/3.4 Hourly out

Direct Cost of Work Item = A+B+C = 19.98

Over head cost : _ 10% 2.00

P Profit Cost: _ 15% 3.00

T Total Unit Cost : 24.97

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 **ROOFING WORKS**

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

LABOUR HOURLY OUTPUT:

EQUIPEMENT:

RESULT: 318.44

TOTAL QANTITY OF WORK ITEM: 1 m

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

A= Materials Unit C 223.5 birr/m.

B= Manpower Unit Cost 31.25 Birr/m

Total of (1:02)

Hourly Output: 7.73/2.6

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

Over head cost : 10%

P Profit Cost: 15%

T Total Unit Cost

C=Equipment Unit Cos

Total of (1

Hourly out

254.75

25.48

38.21

318.44

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 **ROOFING WORKS** LABOUR HOURLY OUTPUT:

WORK ITEM: (3.05) 20 cm. Wide Kerrero Facia Board EQUIPEMENT:

RESULT: 271.19

TOTAL QANTITY OF WORK ITEM: 1 ml.

Material Cost (1:01)					Labour (1:02)					
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labour by Grade	No.	UF	** Indexed Hourly Cost	Hourly Cost	Type of Equipment
20 cm. Wide Faciaboard	ml.	1.1	150	165.00	Carpenter1	1	1	37.5	37.50	
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	
Total (1:01)				166.95	**Total (1:02)**				75.00	T

A= Materials Unit C 166.95 birr/m. B= Manpower Unit Cost 50.00 Birr/m C= Equipme

Total of (1:02) Total of (1

Hourly Output: 10.88/7 Hourly out

Direct Cost of Work Item = A+B+C = _ 216.95

Over head cost :_ 10% 21.70

P Profit Cost: 15% 32.54

T Total Unit Cost : 271.19

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 **ROOFING WORKS** LABOUR HOURLY OUTPUT:

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

TOTAL QANTITY OF WORK ITEM: 17.89 ml. = 1 Trusse

RESULT: 33.53

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

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

Total of (1:02) Total of (1

Hourly Output: _____ Hourly out

Direct Cost of Work Item = A+B+C = 26.83

Over head cost : 10% 2.68

P Profit Cost: 15% 4.02

T Total Unit Cost : 33.53

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: **ROOFING WORKS** LABOUR HOURLY OUTPUT:

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

TOTAL QANTITY OF WORK ITEM: 108 M^2 RESULT: 243.10

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

A Materials Unit Cost 171.26 Birr/m^2 B= Manpower Unit Cost 23.217857 Birr/m^2 C= Equipme

Total of (1:02) Total of (1

Hourly Output: _____ Hourly out

Direct Cost of Work Item = A+B+C = 194.48

Over head cost : 10% 19.45

P Profit Cost: 15% 29.17

T Total Unit Cost : 243.10

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 **ROOFING WORKS** LABOUR HOURLY OUTPUT:

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

ml. = 1 RESULT: 45.98

TOTAL QANTITY OF WORK ITEM: 8.78 Trusse

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

A Materials Unit Cost 29.15 Birr/ml. B= Manpower Unit Cost 7.64 Birr/ml. C= Equipme

Total of (1:02) Total of (1

Hourly Output: _____ Hourly out

Direct Cost of Work Item = A+B+C = 36.79

Over head cost : 10% 3.68

P Profit Cost: 15% 5.52

T Total Unit Cost : 45.98

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 **ROOFING WORKS** LABOUR HOURLY OUTPUT:

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

14.11 ml. = 1 Trusse RESULT: 94.74

TOTAL QANTITY OF WORK ITEM:

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

A Materials Unit Cost 58.83 Birr/ml.

B= Manpower Unit Cost 16.97 Birr/ml.

C= Equipme

Total of (1:02)

Total of (1

Hourly Output: _____

Hourly out

Direct Cost of Work Item = A+B+C = 75.80

Over head cost : 10% 7.58

P Profit Cost: 15% 11.37

T Total Unit Cost : 94.74

Remark _____

UF: UTILIZATION FACTOR

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

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

2.8 m/hr.

Birr/m.

Equipment Cost (1:03)		
No.	Hourly Rental	Hourly Cost
		0
		0
		0
		0
		0
		0
		0
		0
Total (1:03)		0.00

t 0 Birr/m

:03)

put: _____

Birr/m.

Birr/m.

Birr/m.

Birr/m.

3.4 m/hr

Birr/m.

1:03)		
No.	Hourly Rental	Hourly Cost
		0
		0
		0
		0
		0
		0
		0
		0
		0
Total (1:03)		0.00

t 0 Birr/m

:03)

put: _____

Birr/m.

Birr/m.

Birr/m.

Birr/m.

2.6 m/hr

Birr/m.

Equipment Cost (1:03)		
No.	Hourly Rental	Hourly Cost
		0
		0
		0
		0
		0
		0
		0
		0
Total (1:03)		0.00

t 0 Birr/m

:03)

put: _____

Birr/m.

Birr/m.

Birr/m.

Birr/m.

1.5 ml./hr.

Birr/m.

Equipment Cost (1:03)		
No.	Hourly Rental	Hourly Cost
		0.00
		0.00
		0.00
		0.00
		0.00
		0.00
		0.00
		0.00
		0.00
Total (1:03)		0.00

ent Unit Cost 0 Birr/m

:03)

put: _____

Birr/m.

Birr/m.

Birr/m.

Birr/m.

8.59 ml./hr.

Birr/ml.

Equipment Cost (1:03)		
No.	Hourly Rental	Hourly Cost
		0.00
		0.00
		0.00
		0.00
		0.00
		0.00
		0.00
		0.00
Total (1:03)		0.00

ent Unit Cost

:03)

put: _____

Birr/ml.

"

"

Birr/ml.

3.5 m^2/hr.

Birr/m^2

Equipment Cost (1:03)		
No.	Hourly Rental	Hourly Cost
		0.00
		0.00
		0.00
		0.00
		0.00
		0.00
		0.00
		0.00
		0.00
Total (1:03)		0.00

ent Unit Cost 0

:03)

put: _____

Birr/m^2

"

"

Birr/m^2

8.59 ml./hr.

Birr/ml.

Equipment Cost (1:03)		
No.	Hourly Rental	Hourly Cost
		0.00
		0.00
		0.00
		0.00
		0.00
		0.00
		0.00
		0.00
Total (1:03)		0.00

ent Unit Cost

:03)

put: _____

Birr/ml.

"

"

Birr/ml.

7 ml./hr.

Birr/ml.

Equipment Cost (1:03)		
No.	Hourly Rental	Hourly Cost
		0.00
		0.00
		0.00
		0.00
		0.00
		0.00
		0.00
		0.00
		0.00
		0.00
Total (1:03)		0.00

ent Unit Cost

:03)

put: _____

Birr/ml.

"

"

Birr/ml.

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:

EQUIPEMENT:

RESULT: 378.19

TOTAL QANTITY OF WORK ITEM: 1 m^2

Material Cost (1:01)					Labour (1:02)					
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labour by Grade	No.	UF	** Indexed Hourly Cost	Hourly Cost	Type of Equipment
15 cm.Thick HCB	Pcs.	13	10	130	Foreman	1	1	37.5	37.50	
Cement	Qt.	0.08	385	30.8	Mason	1	1	37.5	37.5	
Sand	m^3	0.002	562	1.124	D/L	2	1	18.75	37.5	
Water	m^3	0.004	0.75	0.0030					0	
				0					0	
				0					0	
				0					0	
Total (1:-01)				161.93	**Total (1:02)**				112.50	

A Materials Unit Cost 161.93 Birr/m^2

B= Manpower Unit Cost 140.63 Birr/m^2

Total of (1:02)

Hourly Output: _____

C=Equipmer

Total of (1

Hourly out

Direct Cost of Work Item = A+B+C =		302.55
Over head cost :	10%	30.26
Profit Cost:	15%	45.38
Total Unit Cost :		378.19

Remark : Mortar Quantity (1:3) With 15 % Wastage = 0.0138 m^3/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 MULTI PURPOSE **WALLING**

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

LABOUR HOURLY OUTPUT:

EQUIPEMENT:

RESULT: 361.93

TOTAL QANTITY OF WORK ITEM: 1 m^2

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

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=Equipmer

Total of (1

Hourly out

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

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

UF: UTILIZATION FACTOR

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

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

0.8 m^2/hr.

Birr/m^2

Equipment Cost (1:03)		
No.	Hourly Rental	Hourly Cost
		0
		0
		0
		0
		0
		0
		0
Total (1:03)		0.00

nt Unit Cost 0 Birr/m^2

:03)

put: _____

Birr/m^2

"

"

Birr/m^2

0.8 m^2/hr.

Birr/m^2

Equipment Cost (1:03)		
No.	Hourly Rental	Hourly Cost
		0
		0
		0
		0
		0
		0
		0
Total (1:03)		0.00

nt Unit Cost 0 Birr/m^2

:03)

put: _____

Birr/m^2

"

"

Birr/m^2

ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT: **CARPETRY & JOINERY**

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

LABOUR HOURLY OUTPUT: 1.13

EQUIPEMENT:

RESULT **1161.22** Birr/m²

TOTAL QANTITY OF WORK ITEM: 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.
Making & Fixing										Compinanto	2
Tid wood frame (external)	m³	0.051	4500.00	229.50	Carpenter II	1	1	37.5	37.50	Vice	1
Tid wood frame (internal)	m³	0.03	45000.00	1350.00	Helper	1	1	37.5	37.50		
T & G Tidwood panel.	m²	1.26	650.00	819	Foreman	1	0.167	37.5	6.26		
Door list.	ml.	5.1	36.00	183.6	Carpenter I	1	1	37.5	37.50		
Cylinderical Lock(Hungary)	Pcs.	1	150.00	150	Helper	1	1	18.75	18.75		
Hinges	"	3	30.00	90					0.00		
Screw	"	10	2.00	20					0.00		
Colla	lit.	0.4	140.00	56					0.00		
Nails of diff. Sizes.	kg.	0.2	65.00	13					0.00		
Total (1:-01)				2911.10	**Total (1:02)**				137.51		**Total (1:03)**

A= Material unit cost **1540.2646** Birr/m2.

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

C=Equipment Unit Cost

Total of (1:02)

Hourly Output

Total of (1:03)

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.

pcs./hr.

Hourly Rental	Hourly Cost
40.00	80.00
26.00	26.00
	0.00
	0.00
	0.00
	0.00
	0.00
	0.00
	0.00
	0.00
	106.00

93.81 Birr/m^2

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:

EQUIPEMENT:

RESULT: 567.29

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	Type of Equipment
4 mm. clear glass	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 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= Equipme

Total of (1

Hourly out

Direct Cost of Work Item = A+B+C = 453.83

Over head cost : 10% 45.38

Profit Cost: 15% 68.07

Total Unit Cost : _ 567.29

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**

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

TOTAL QANTITY OF WORK ITEM: 1 m^2

LABOUR HOURLY OUTPUT:

EQUIPEMENT:

RESULT: 710.66

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	Type of Equipment
4mm frosted glass	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 Unit Cost 529 Birr/m^2

B= Manpower Unit Cost 39.52 Birr/m^2

Total of (1:02) 5.23

Hourly Output: _____ 1.55

C= Equipme

Total of (1

Hourly out

Direct Cost of Work Item = A+B+C = 568.52

Over head cost : _ 10% 56.85

Profit Cost: 15% 85.28

Total Unit Cost : _ 710.66

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: (6.1) 3 Coats of cement plastering (1:3)

TOTAL QANTITY OF WORK ITEM: 1 m^2

LABOUR HOURLY OUTPUT:

EQUIPEMENT:

RESULT : 354.83

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	Type of Equipment
cement	qt.	0.14	385	53.9	Foreman	1	0.167	37.5	6.26	
sand	m^3	0.036	464	16.704	Plasterer	1	1	37.5	37.5	
water	m^3	0.0065	10	0.065	Chilser	1	1	31.25	31.25	
				0	D/L	2	1	18.75	37.5	
				0					0	
				0					0	
				0					0	
				0					0	
				0					0	
	Total (1:01)			70.67	**Total (1:02)**				112.51	

A= Materials Unit C 70.669 Birr/m^2

B= Manpower Unit Cost 225.03 Birr/m^2

Total of (1:02)

Hourly Output: _____

C= Equipme

Total of (1

Hourly out

Direct Cost of Work Item = A+B+C = 295.69

Over head cost : _ 10% 29.57

Profit Cost: 10% 29.57

Total Unit Cost : _ 354.83

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 **FINISHIN**

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

TOTAL QANTITY OF WORK ITEM: 1 m^2

LABOUR HOURLY OUTPUT:

EQUIPEMENT:

RESULT : 222.29

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	Type of Equipment
cement	qt.	0.076	385	29.26	Foreman	1	0.167	37.5	6.26	
sand	m^3	0.0186	464	8.6304	Plasterer	1	1	37.5	37.5	
water	m^3	0.0007	0.75	0.001	Chilser	1	1	31.25	31.25	
				0	D/L	1	1	18.75	18.75	
				0					0	
				0					0	
				0					0	
				0					0	
	Total (1:01)			37.89	**Total (1:02)**				93.76	

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= Equipme

Total of (1

Hourly out

Direct Cost of Work Item = A+B+C = 177.83

Over head cost : _ 10% 17.78

Profit Cost: 15% 26.68

Total Unit Cost : _ 222.29

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

CT: G+1 MULTIPURPOSE **FINISHING WC**

LABOUR HOURLY OUTPUT:

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

EQUIPEMENT:

TOTAL QANTITY OF WORK ITEM: 1 m^2

RESULT : 276.42

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	Type of Equipment
cement	qt.	0.097	385	37.345	Foreman	1	0.167	37.5	6.26	
sand	m^3	0.024	464	11.136	Plasterer	1	1	37.5	37.5	
water	m^3	0.0045	0.75	0.003	Chilser	1	1	31.25	31.25	
				0	D/L	1	1	18.75	18.75	
				0					0	
				0					0	
				0					0	
				0					0	
	Total (1:01)			48.48	**Total (1:02)**				93.76	-

A Materials Unit Cost 48.48 Birr/m^2

B= Manpower Unit Cost 156.27 Birr/m^2

Total of (1:02)

Hourly Output: _____

C= Equipme

Total of (1

Hourly out

Direct Cost of Work Item = A+B+C = 204.76

Over head cost : _ 10% 20.48

Profit Cost: 25% 51.19

Total Unit Cost : _ 276.42

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:

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

TOTAL QANTITY OF WORK RESULT : 53.28

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	Type of Equipment
gypsum	qt.	0.048	500	24	Foreman	1	0.25	5	1.25	Tools
sand	m^3	0.012	464	5.568	Plasterer	1	1	25	25	
water	m^3	0.002	10	0.020	helper	1	1	1.9	1.9	
				0					0	
				0					0	
				0					0	
				0					0	
	Total (1:01)			29.59	**Total (1:02)**				28.15	

A Materials Unit Cost 29.59 Birr/m^2

B= Manpower Unit Cost 11.26 Birr/m^2

Total of (1:02)

Hourly Output: _____

C= Equipme

Total of (1

Hourly out

Direct Cost of Work Item = A+B+C = 42.62

Over head cost : _ 10% 4.26

Profit Cost: 15% 6.39

Total Unit Cost : _ 53.28

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

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:

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

TOTAL QANTITY OF WORK RESULT : 45.12

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	Type of Equipment
cement	qt.	0.048	360	17.28	Foreman	1	0.25	5	1.25	Tools
sand	m^3	0.012	480	5.76	Plasterer	1	1	25	25	
water	m^3	0.002	10	0.020	helper	1	1	1.9	1.9	
				0					0	
				0					0	
				0					0	
				0					0	
	Total (1:01)			23.06	**Total (1:02)**				28.15	

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= Equipme

Total of (1

Hourly out

Direct Cost of Work Item = A+B+C = 36.10

Over head cost : _ 10% 3.61

Profit Cost: 15% 5.41

Total Unit Cost : _ 45.12

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

LABOUR HOURLY OUTPUT:

EQUIPEMENT:

RESULT : 177.12

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	Type of Equipment
cement	qt.	0.168	385	64.68	Foreman	1	0.167	37.5	6.26	
sand	m^3	0.041	464	19.024	Plasterer	2	1	37.5	75	
water	m^3	0.01	0.75	0.008	D/L	2	1	18.75	37.5	
cement grout	qt.	0.021	385	8.085					0	
				0					0	
				0					0	
				0					0	
Total (1:01)				91.80	**Total (1:02)**				118.76	-

A Materials Unit Cost 91.80 Birr/m^2

B= Manpower Unit Cost 49.90 Birr/m^2

C= Equipme

Total of (1:02)

Total of (1

Hourly Output: _____

Hourly out

Direct Cost of Work Item = A+B+C = 141.70

Over head cost : _ 10% 14.17

Profit Cost: 15% 21.25

Total Unit Cost : _ 177.12

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:

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

EQUIPEMENT:

TOTAL QANTITY OF WORK

RESULT : 294.86

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	Type of Equipment
cement	qt.	0.28	385	107.8	Foreman	1	0.167	37.5	6.26	
sand	m^3	0.068	464	31.552	Plasterer	2	1	37.5	75	
water	m^3	0.01	0.75	0.008	D/L	2	1	18.75	37.5	
cement grout	qt.	0.035	385	13.475					0	
				0					0	
				0					0	
				0					0	
				0					0	
Total (1:01)				152.83	**Total (1:02)**				118.76	-

A Materials Unit Cost 152.83 Birr/m^2

B= Manpower Unit Cost 83.05 Birr/m^2

Total of (1:02)

Hourly Output: _____

C= Equipme

Total of (1

Hourly out

Direct Cost of Work Item = A+B+C = 235.89

Over head cost : _ 10% 23.59

Profit Cost: 15% 35.38

Total Unit Cost : _ 294.86

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

TOTAL QANTITY OF WORK ITEM: 1 m^2

LABOUR HOURLY OUTPUT:

EQUIPEMENT:

RESULT : 541.24

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	Type of Equipment
cement	qt.	0.168	385	64.68	Foreman	1	0.25	5	1.25	
sand	m^3	0.041	464	19.024	mason ii	1	1	3.75	3.75	
water	m^3	0.008	385	3.080	D/L	1	1	1.25	1.25	
cement grout	qt.	0.014	385	5.39	helper	1	1	1.9	1.9	
20 x 20 cm. terrazzo tile	no	25.5	13	331.5					0	
polish	lit	0.1	28	2.80					0	
				0					0	
				0					0	
Total (1:01)				426.47	**Total (1:02)**				8.15	-

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= Equipme

Total of (1

Hourly out

Direct Cost of Work Item = A+B+C = 432.99

Over head cost : _ 10% 43.30

Profit Cost: 15% 64.95

Total Unit Cost : _ 541.24

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:

EQUIPEMENT:

RESULT : 1599.35

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	Type of Equipment
cement	qt.	0.097	385	37.345	Foreman	1	1	37.5	37.50	grinder
sand	m^3	0.024	464	11.136	tiler	1	1	37.5	37.5	
water	m^3	0.005	0.75	0.004	D/L	1	1	18.75	18.75	
cement grout	qt.	0.014	385	5.39	helper	2	1	18.75	37.5	
2 cm. thick harar marble	no	1.02	1050	1071					0	
polish	lit	0.1	12	1.20					0	
				0					0	
				0					0	
				0					0	
Total (1:01)				1126.07	**Total (1:02)**				131.25	

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= Equipme

Total of (1

Hourly out

Direct Cost of Work Item = A+B+C = 1279.48

Over head cost : _ 10% 127.95

Profit Cost: 15% 191.92

Total Unit Cost : _ 1599.35

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.**

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

TOTAL QANTITY OF WORK ITEM: 1 m^2

LABOUR HOURLY OUTPUT:

EQUIPEMENT:

RESULT : 632.55

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	Type of Equipment
cement	qt.	0.101	385	38.885	Foreman	1	0.17	37.5	6.38	
sand	m^3	0.025	464	11.6	tiler	1	1	37.5	37.5	
water	m^3	0.005	0.75	0.004	D/L	1	1	18.75	18.75	
cement grout	qt.	0.014	385	5.39	helper	2	1	18.75	37.5	
7mm thick ceramic tile	m^2	1.02	342	348.84					0	
polish	lit	0.1	12	1.20					0	
				0					0	
				0					0	
				0					0	
Total (1:01)				405.92	**Total (1:02)**				100.13	-

A Materials Unit Cost 405.92 Birr/m^2

B= Manpower Unit Cost 100.13 Birr/m^2

Total of (1:02)

Hourly Output: _____

C= Equipme

Total of (1

Hourly out

Direct Cost of Work Item = A+B+C = 506.04

Over head cost : _ 10% 50.60

Profit Cost: 15% 75.91

Total Unit Cost : _ 632.55

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 **FINISHING WORKS.**

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

TOTAL QANTITY OF WORK ITEM: 1 m^2

LABOUR HOURLY OUTPUT:

EQUIPEMENT:

RESULT : 620.61

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	Type of Equipment
PVC tile	m^2	1.02	380	387.6	Foreman	1	0.17	37.5	6.38	
adhesive glue	gal	0.11	750	82.5	tiler	1	1	37.5	37.5	
polish	lit	0.1	28	2.80	D/L	2	1	18.75	37.5	
				0					0	
				0					0	
				0					0	
				0					0	
Total (1:01)				472.90	**Total (1:02)**				81.38	-

A Materials Unit Cost 472.90 Birr/m^2

B= Manpower Unit Cost 23.59 Birr/m^2

Total of (1:02)

Hourly Output: _____

C= Equipme

Total of (1

Hourly out

Direct Cost of Work Item = A+B+C =		496.49
Over head cost : _	10%	49.65
Profit Cost:	15%	74.47
Total Unit Cost : _		620.61

Remark _____

UF: UTILIZATION FACTOR

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ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

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

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

TOTAL QANTITY OF WORK ITEM: 1 m^2

LABOUR HOURLY OUTPUT:

EQUIPEMENT:

RESULT : 1714.44

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	Type of Equipment
parque	m^2	1.03	1300	1339	Foreman	1	0.17	37.5	6.38	
				0	carpenter	1	1	37.5	37.5	
				0	D/L	2	1	18.75	37.5	
				0					0	
				0					0	
				0					0	
				0					0	
Total (1:01)				1339.00	**Total (1:02)**				81.38	-

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= Equipme

Total of (1

Hourly out

Direct Cost of Work Item = A+B+C = 1371.55

Over head cost : _ 10% 137.16

Profit Cost: 15% 205.73

Total Unit Cost : _ 1714.44

Remark _____

UF: UTILIZATION FACTOR

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ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

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

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

TOTAL QANTITY OF WORK ITEM: 1 ml

LABOUR HOURLY OUTPUT:

EQUIPEMENT:

RESULT : 355.01

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	Type of Equipment
marble slate	ml	1.05	235	246.75	Foreman	1	0.25	37.5	9.38	grinder
polish	lit	0.003	0.28	0.00	mason ii	1	1	37.5	37.5	
cement	qt	0.004	385	1.540	helper I	1	1	18.75	18.75	
sand	m^3	0.001	464	0.464	D/L	1	1	18.75	18.75	
water	m^3	0.001	0.75	0.001					0	
				0					0	
				0					0	
				0					0	
Total (1:01)				248.76	**Total (1:02)**				84.38	-

A= Materials Unit Cost 248.76 Birr/ml

B= Manpower Unit Cost 33.75 Birr/ml

Total of (1:02)

Hourly Output: _____

C= Equipme

Total of (1

Hourly out

Direct Cost of Work Item = A+B+C = 284.01

Over head cost : _ 10% 28.40

Profit Cost: 15% 42.60

Total Unit Cost : _ 355.01

Remark _____

UF: UTILIZATION FACTOR

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ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

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

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

TOTAL QANTITY OF WORK ITEM: 1 ml

LABOUR HOURLY OUTPUT:

EQUIPEMENT:

RESULT : 157.64

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	Type of Equipment
ceramic tile skirting	pc	5	15	75.00	Foreman	1	0.25	37.5	9.38	grinder
cement	qt	0.04	385	15.40	masonii	1	1	37.5	37.5	
sand	m^3	0.001	464	0.464	helper I	1	1	18.75	18.75	
water	m^3	0.002	0.75	0.002	D/L	1	1	18.75	18.75	
				0					0	
				0					0	
				0					0	
Total (1:01)				90.87	**Total (1:02)**				84.38	

A Materials Unit Cost 90.87 Birr/ml

B= Manpower Unit Cost 33.75 Birr/ml

Total of (1:02)

Hourly Output: _____

C= Equipme

Total of (1

Hourly out

Direct Cost of Work Item = A+B+C = 126.12

Over head cost : _ 10% 12.61

Profit Cost: 15% 18.92

Total Unit Cost : _ 157.64

Remark _____

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ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT: G+1 MULTIPURPOSE **FINISHING WORKS.** LABOUR HOURLY OUTPUT:

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

TOTAL QANTITY OF WORK ITEM: 1 ml RESULT : 107.95

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	Type of Equipment
2mm pvc skirting	ml	1.02	35	35.70	Foreman	1	0.83	37.5	31.13	
adhesive glue	gal	0.009	750	6.75	tiler	1	1	37.5	37.5	
polishing	lit	0.008	28	0.224	D/L	1	1	18.75	18.75	
				0					0	
				0					0	
				0					0	
				0					0	
Total (1:01)				42.67	**Total (1:02)**				87.38	-

A Materials Unit Cost 42.67 Birr/ml

B= Manpower Unit Cost 43.69 Birr/ml

Total of (1:02)

Hourly Output: _____

C= Equipme

Total of (1

Hourly out

Direct Cost of Work Item = A+B+C =		86.36
Over head cost : _	10%	8.64
Profit Cost:	15%	12.95
Total Unit Cost : _		107.95

Remark _____

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ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

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

WORK ITEM: (6.17) 30mm. thick white marble window cill (1:3)on HCE

TOTAL QANTITY OF WORK ITEM: 1 ml

LABOUR HOURLY OUTPUT:

EQUIPEMENT:

RESULT : 103.33

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	Type of Equipment
white marble cill fo	m^2	0.204	360	73.44	Foreman	1	0.83	5	4.15	grinder
cement	qt	0.02	60	1.20	masonii	1	1	3.75	3.75	
sand	m^3	0.005	95	0.48	D/L	2	1	1.25	2.5	
water	m^3	0.01	0.75	0.008					0	
cement grout	qt	0.0003	60	0.018					0	
				0					0	
				0					0	
				0					0	
Total (1:01)				75.14	**Total (1:02)**				10.40	

A Materials Unit Cost 75.14 Birr/ml

B= Manpower Unit Cost 5.53 Birr/ml

Total of (1:02)

Hourly Output: _____

C= Equipme

Total of (1

Hourly out

Direct Cost of Work Item = A+B+C = 82.66

Over head cost : _ 10% 8.27

Profit Cost: 15% 12.40

Total Unit Cost : _ 103.33

Remark _____

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ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

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

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

TOTAL QANTITY OF WORK ITEM: 1 ml

LABOUR HOURLY OUTPUT:

EQUIPEMENT:

RESULT : 417.23

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	Type of Equipment
harar marble cill fo	m^2	0.204	1300	265.20	Foreman	1	0.83	37.5	31.13	grinder
cement	qt	0.02	385	7.70	masonii	1	1	37.5	37.5	
sand	m^3	0.005	464	2.32	D/L	2	1	18.75	37.5	
water	m^3	0.01	0.75	0.008					0	
cement grout	qt	0.0003	385	0.115					0	
				0					0	
				0					0	
				0					0	
Total (1:01)				275.34	**Total (1:02)**				106.13	

A Materials Unit Cost 275.34 Birr/ml

B= Manpower Unit Cost 56.45 Birr/ml

Total of (1:02)

Hourly Output: _____

C= Equipme

Total of (1

Hourly out

Direct Cost of Work Item = A+B+C = 333.78

Over head cost : _ 10% 33.38

Profit Cost: 15% 50.07

Total Unit Cost : _ 417.23

Remark _____

UF: UTILIZATION FACTOR

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ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

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

WORK ITEM: (6.16) 0mm. thick white marble threads.(1:

TOTAL QANTITY OF WORK ITEM: 1 ml

LABOUR HOURLY OUTPUT:

EQUIPEMENT:

RESULT : 585.81

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	Type of Equipment
30mm white marble	m^2	0.306	1050	321.30	Foreman	1	0.83	37.5	31.13	grinder
cement	qt	0.03	385	11.55	masonii	1	1	37.5	37.5	
sand	m^3	0.008	464	3.71	D/L	2	1	18.75	37.5	
water	m^3	0.01	0.75	0.008					0	
cement grout	qt	0.0003	385	0.115					0	
				0					0	
				0					0	
				0					0	
Total (1:01)				336.69	**Total (1:02)**				106.13	

A Materials Unit Cost 336.69 Birr/ml

B= Manpower Unit Cost 120.60 Birr/ml

Total of (1:02)

Hourly Output: _____

C= Equipme

Total of (1

Hourly out

Direct Cost of Work Item = A+B+C = 468.65

Over head cost : _ 10% 46.86

Profit Cost: 15% 70.30

Total Unit Cost : _ 585.81

Remark _____

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ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

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

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

TOTAL QANTITY OF WORK ITEM: 1 ml

LABOUR HOURLY OUTPUT:

EQUIPEMENT:

RESULT : 409.06

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	Type of Equipment
white marble	m^2	0.204	1050	214.20	Foreman	1	0.83	37.5	31.13	grinder
cement	qt	0.02	385	7.70	masonii	1	1	37.5	37.5	
sand	m^3	0.0053	464	2.46	D/L	2	1	18.75	37.5	
water	m^3	0.01	0.75	0.008					0	
cement grout	qt	0.0003	385	0.115					0	
				0					0	
				0					0	
				0					0	
Total (1:01)				224.48	**Total (1:02)**				106.13	

A= Materials Unit C 224.48 Birr/ml

B= Manpower Unit Cost 93.92 Birr/ml

Total of (1:02)

Hourly Output: _____

C= Equipme

Total of (1

Hourly out

Direct Cost of Work Item = A+B+C = 327.25

Over head cost : _ 10% 32.72

Profit Cost: 15% 49.09

Total Unit Cost : _ 409.06

Remark _____

UF: UTILIZATION FACTOR

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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).

TOTAL QANTITY OF WORK ITEM: 1 m^2

LABOUR HOURLY OUTPUT:

EQUIPEMENT:

RESULT : 616.83

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	Type of Equipment
20 x 20 cm. cerami	pc	25.5	13.8	351.90	Foreman	1	0.25	37.5	9.38	grinder
cement	qt	0.065	385	25.03	tiler	1	1	37.5	37.5	
sand	m^3	0.01	464	4.64	D/L	2	1	18.75	37.5	
water	m^3	0.01	0.75	0.008					0	
cement grout	qt	0.014	385	5.390					0	
				0					0	
				0					0	
				0					0	
Total (1:01)				386.96	**Total (1:02)**				84.38	-

A= Materials Unit C 386.96 Birr/m^2

B= Manpower Unit Cost 86.10 Birr/m^2

Total of (1:02)

Hourly Output: _____

C= Equipme

Total of (1

Hourly out

Direct Cost of Work Item = A+B+C = 493.47

Over head cost : _ 10% 49.35

Profit Cost: 15% 74.02

Total Unit Cost : _ 616.83

Remark _____

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

1.55 m^2/hr

Birr/m^2

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

ent Unit Cost 0 Birr/m^2

:03)

:put: _____

Birr/m^2

"

"

Birr/m^2

1.55 m^2/hr

Birr/m^2

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

ent Unit Cost 0 Birr/m^2

:03)

:put: _____

Birr/m^2

"

"

Birr/m^2

0.5 m^2/hr

Birr/m^2

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

ent Unit Cost 0 Birr/m^2

:03)

:put: _____

Birr/m^2

"

"

Birr/m^2

0.67 m^2/hr

Birr/m^2

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

ent Unit Cost 0 Birr/m^2

:03)

:put: _____

Birr/m^2

"

"

Birr/m^2

0.6 m^2/hr

Birr/m^2

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

ent Unit Cost 0 Birr/m^2

:03)

:put: _____

Birr/m^2

"

"

Birr/m^2

2.5 m^2/hr

Birr/m²

Equipment Cost (1:03)		
No.	Hourly Rental	Hourly Cost
1	4.44	4.44
		0
		0
		0
		0
		0
		0
Total (1:03)		4.44

ent Unit Cost 1.78 Birr/m²

:03)

:put: _____

Birr/m²

"

"

Birr/m²

2.5 m²/hr

Birr/m²

Equipment Cost (1:03)		
No.	Hourly Rental	Hourly Cost
1	4.44	4.44
		0
		0
		0
		0
		0
		0
Total (1:03)		4.44

ent Unit Cost 1.78 Birr/m²

:03)

:put: _____

Birr/m²

"

"

Birr/m²

2.38 m²/hr

Birr/m²

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

ent Unit Cost 0 Birr/m²

:03)

:put: _____

Birr/m²

"

"

Birr/m²

1.43 m²/hr

Birr/m²

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

ent Unit Cost 0 Birr/m²

:03)

:put: _____

Birr/m²

"

"

Birr/m²

1.25 m²/hr

Birr/m²

Equipment Cost (1:03)

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

ent Unit Cost 0 Birr/m²

:03)

:put: _____

Birr/m²

"

"

Birr/m²

0.88 m²/hr

Birr/m²

Equipment Cost (1:03)

No.	Hourly Rental	Hourly Cost
1	3.75	3.75
		0
		0
		0
		0
		0
		0
		0
		0
Total (1:03)		3.75

ent Unit Cost 4.26 Birr/m²

:03)

:put: _____

Birr/m²

"

"

Birr/m²

1 m²/hr 10

Birr/m²

Equipment Cost (1:03)

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

ent Unit Cost 0.00 Birr/m²

:03)

:put: _____

Birr/m²

"

"

Birr/m²

3.45 m²/hr

Birr/m²

Equipment Cost (1:03)

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

ent Unit Cost 0.00 Birr/m²

:03)

:put: _____

Birr/m²

"

"

Birr/m²

2.5 m²/hr

Birr/m²

Equipment Cost (1:03)

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

ent Unit Cost 0.00 Birr/m²

:03)

:put: _____

Birr/m²

"

"

Birr/m²

2.5 ml/hr

Birr/ml

Equipment Cost (1:03)

No.	Hourly Rental	Hourly Cost
1	10	10
		0
		0
		0
		0
		0
		0
		0
Total (1:03)		10

ent Unit Cost 1.50 Birr/ml

:03)

:put: _____

Birr/ml

"

"

Birr/ml

2.5 ml/hr

Birr/ml

Equipment Cost (1:03)

No.	Hourly Rental	Hourly Cost
1	10	10
		0
		0
		0
		0
		0
		0
Total (1:03)		10

ent Unit Cost 1.50 Birr/ml

:03)

:put: _____

Birr/ml

"

"

Birr/ml

2 ml /hr

Birr/ml

Equipment Cost (1:03)

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

ent Unit Cost Birr/ml

:03)

:put: _____

Birr/ml

"

"

Birr/ml

1.88 ml /hr

Birr/ml

Equipment Cost (1:03)

No.	Hourly Rental	Hourly Cost
1	3.75	3.75
		0
		0
		0
		0
		0
		0
		0
Total (1:03)		3.75

ent Unit Cost 1.99 Birr/ml

:03)

:put: _____

Birr/ml

"

"

Birr/ml

1.88 ml /hr

Birr/ml

Equipment Cost (1:03)

No.	Hourly Rental	Hourly Cost
1	10	10
		0
		0
		0
		0
		0
		0
		0
Total (1:03)		10

ent Unit Cost 1.99 Birr/ml

:03)

:put: _____

Birr/ml

"

"

Birr/ml

0.88 ml /hr

Birr/ml

Equipment Cost (1:03)

No.	Hourly Rental	Hourly Cost
1	10	10
		0
		0
		0
		0
		0
		0
		0
Total (1:03)		10

ent Unit Cost 11.36 Birr/ml

:03)

:put: _____

Birr/ml

"

"

Birr/ml

1.13 ml /hr

Birr/ml

Equipment Cost (1:03)

No.	Hourly Rental	Hourly Cost
1	10	10
		0
		0
		0
		0
		0
		0
		0
Total (1:03)		10

ent Unit Cost 8.85 Birr/ml

:03)

:put: _____

Birr/ml

"

"

Birr/ml

0.98 m^2 /hr

Birr/m^2

Equipment Cost (1:03)

No.	Hourly Rental	Hourly Cost
2	10	20
		0
		0
		0
		0
		0
		0
		0
Total (1:03)		20

ent Unit Cost 20.41 Birr/m²

:03)

:put: _____

Birr/m²

"

"

Birr/m²

ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT: G+1 MULTIPURPOSE PAINTING.

WORK ITEM: (7.2) Three coats of plastic paint to wall.

TOTAL QANTITY OF WORK ITEM: 1 m^2

LABOUR HOURLY OUTPUT: 1.88

EQUIPEMENT: Tool

RESULT: 64.47 Birr/m^2

Material Cost (1:01)					Labour Cost (1:02)					Equipment	
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labour by Grade	No.	UF	** Indexed Hourly Cost	Hourly Cost	Type of Equipment	No.
plastic paint	lit	0.25	59.4	14.85	foreman	1	0.2	37.5	7.50	tools	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		
brush	pcs	0.01	65	0.65					0		
sand paper	pcs	0.01	7.5	0.075					0		
gypsum	kg	0.03	4	0.12					0		
				0					0		
				0					0		
				0					0		
Total (1:-01)				17.135	**Total (1:02)**				63.75	**Total (1:03)**	

A Materials Unit Cost 17.135 Birr/m^2

B= Manpower Unit Cost 33.909574 Birr/m^2

Total of (1:02)

Hourly Output:

C= Equipment Unit Cost

Total of (1:03)

Hourly output: _____

Direct Cost of Work Item = A+B+C = 51.58 Birr/m^2

Over head cost : 10% 5.16 "

Profit Cost: 15% 7.74 "

Total Unit Cost : 64.47 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 PAINTING

LABOUR HOURLY OUTPUT: 1.5

WORK ITEM: (7.2) Three coats of plastic paint to ceilling.

EQUIPEMENT: Tool

TOTAL QANTITY OF WORK ITEM: 1 m^2

RESULT: 77.42 Birr/m^2

Material Cost (1:01)					Labour Cost (1:02)					Equipment	
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labour by Grade	No.	UF	** Indexed Hourly Cost	Hourly Cost	Type of Equipment	No.
plastic paint	lit	0.23	59.4	13.66	foreman	1	0.2	37.5	7.50	tools	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		
brush	pcs	0.01	65	0.65					0		
sand paper	pcs	0.01	7.5	0.075					0		
gypsum	kg	0.04	4	0.16					0		
				0					0		
				0					0		
Total (1:-01)				16.387	**Total (1:02)**				63.75	**Total (1:03)**	

A Materials Unit Cost 16.387 Birr/m^2

B= Manpower Unit Cost 42.5 Birr/m^2

Total of (1:02) 4.75

Hourly Output: 1.5

C= Equipment Unit Cost

Total of (1:03)

Hourly output: _____

Direct Cost of Work Item = A+B+C = 59.55 Birr/m^2

Over head cost : 15% 8.93 "

Profit Cost: 15% 8.93 "

Total Unit Cost : 77.42 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 PAINTING

LABOUR HOURLY OUTPUT: 5.64

WORK ITEM: (7.1) One coat of external quartiz paint

EQUIPEMENT: Tool

TOTAL QANTITY OF WORK ITEM: 1 m^2

RESULT: 53.25 Birr/m^2

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

A Materials Unit Cost 31.28 Birr/m^2

B= Manpower Unit Cost 11.143617 Birr/m^2

Total of (1:02) 4.75

Hourly Output: 5.64

C= Equipment Unit Cost

Total of (1:03)

Hourly output: _____

Direct Cost of Work Item = A+B+C = 42.60 Birr/m^2

Over head cost : 10% 4.26 "

Profit Cost: 15% 6.39 "

Total Unit Cost : 53.25 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.

m^2/hr.

Cost (1:03)	
Hourly Rental	Hourly Cost
1	1
	0
	0
	0
	0
	0
	0
	0
)	1

0.53 Birr/m^2

m^2/hr.

Cost (1:03)	
Hourly Rental	Hourly Cost
1	1
	0
	0
	0
	0
	0
	0
)	1

0.67 Birr/m^2

m^2/hr.

Cost (1:03)	
Hourly Rental	Hourly Cost
1	1
	0
	0
	0
	0
	0
	0
	0
)	1

0.18 Birr/m^2

-

ANALYSIS SHEET FOR DIREC

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

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

TOTAL QANTITY OF WORK ITEM: 1 m^2

Material Cost (1:01)					L	
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labour by Grade	No.
4 mm. clear gla	m^2	1.1	365	401.5	Foreman	1
Putty	kg	0.4	30	12	Glazer	1
				0	DL	1
				0		
				0		
				0		
				0		
	Total (1:01)			413.5	**Total**	

A= Materials U 413.5 Birr/m^2

B= Manpower Unit Cost

Total of (1:02)

Hourly Output: _____

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

Over head cost

Profit Cost:

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.

- 4

ANALYSIS SHEET FOR DIREC

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

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

TOTAL QANTITY OF WORK ITEM: 1 m^2

Material Cost (1:01)					L	
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labour by Grade	No.
4mm frosted gl	m^2	1.1	470	517	Foreman	1
Putty	kg	0.4	30	12	Glazer	1
				0	D/L	1
				0		
				0		
				0		
				0		

	Total (1:01)	529	**Total**

A= Materials U 529 Birr/m^2

B= Manpower Unit Cost

Total of (1:02)

Hourly Output: _____

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

Over head cost

Profit Cost:

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.

1-

CT & INDIRECT UNIT COSTS

LABOUR HOURLY OUTPUT: 1.55 m²/hr

EQUIPEMENT:

RESULT: 567.29 Birr/m²

abour Cost (1:02)			Equipment Cost (1:03)			
UF	** Indexed Hourly Cost	Hourly Cost	Type of Equipment	No.	Hourly Rental	Hourly Cost
0.167	37.5	6.2625				0
1	37.5	37.5				0
1	18.75	18.75				0
						0
						0
						0
						0
(1:02)		62.5125	**Total (1:03)**			0

40.33 Birr/m² C= Equipment Unit Cost 0 Birr/m²

5.23 Total of (1:03)

_ 1.55 Hourly output: _____

453.83 Birr/m²

: 10% 45.38 "

15% 68.07 "

: _ 567.29 Birr/m²

4 -

CT & INDIRECT UNIT COSTS

LABOUR HOURLY OUTPUT: 1.55 m²/hr

EQUIPEMENT:

RESULT: 710.66 Birr/m²

abour Cost (1:02)			Equipment Cost (1:03)			
UF	** Indexed Hourly Cost	Hourly Cost	Type of Equipment	No.	Hourly Rental	Hourly Cost
0.167	37.5	6.2625				0
1	37.5	37.5				0
1	17.5	17.5				0
		0				0
		0				0
		0				0
		0				0

(1:02)	61.2625	**Total (1:03)**	0

	39.52 Birr/m²	C= Equipment Unit Cost		0 Birr/m²
	5.23	Total of (1:03)		
_	1.55	Hourly output: _____		
		568.52	Birr/m²	
: _	10%	56.85	"	
	15%	85.28	"	
: _		710.66	Birr/m²	