TEL

ANALYSIS SHEET FOR

PROJECT: **FINISHING WORKS.**

WORK ITEM: (11.4) ***Two coat of cement plaster to vertical surfaces (1:3)***

TOTAL QANTITY OF WORK ITEM: 1 m^2

Material Cost (1:01)					
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labour by Grade
Cement	Qtl	0.11	240.00	26.40	Foreman
Sand	m3	0.03	435.00	13.05	Plasterer
water	m^3	0.01	3.45	0.03	D/L
	Total (1:01)			39.48	

A= Materials U **39.4845** Birr/m^2

B= Manpower Unit Cost

Total of (1:02)

Hourly Output: _____

Direct Cost of Work Item = A+

Remark _____

UF: UTILIZATION FACTOR

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

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

Telegram @etconp

.EGRAM:- @CHKinet

R DIRECT & INDIRECT UNIT COSTS

LABOUR HOURLY OUTPUT 1st (2.8125

EQUIPEMENT:

RESULT : **53.31** Birr/m²

Labour Cost (1:02)				Equipment Cost (1:03)		
No.	UF	** Indexed Hourly Cost	Hourly Cost	Type of Equipment	No.	Hourly Rental
1	0.1	19.94	1.99	Tools	2	1.28
1	1	9.75	9.75			
1	1	4.38	4.38			
Total (1:02)			16.12	**Total (1:03)**		

5.73 Birr/m² C= Equipment Unit Cost **0.910222222**

Total of (1:03)

Hourly output: _____

B+C = **46.13** Birr/m² 6.64

Over head cost : _ 8% 3.69 "

Profit Cost: 7% 3.49 "

Total Unit Cost : _ **53.31** Birr/m²

UT.

m^2/hr

Hourly Cost
2.56
2.56

Birr/m^2

Benefit Factor Calcul

Description	Birr
Monthly income (Provisional cost)	910.00
Working days per month	26.00
Daily income	35.00
Yearly income	10,920.00
Working days per year	312.00
Project Time in years	1

Item	Description	Days/year	early Expens
1	Annual leave	22	539.00
2	Sick leave	6	73.50
3	Medical Service	62.40	218.40
4	Transport allowance	15.60	546.00
5	Insurance	31.20	1092.00
6	Mourning Leave	7	171.50
7	Holidays	9	220.50
8	Compensation		300.00
9	Maternity		15.75
11	Rainy Season	13.00	455.00
12	Bonus (incentive) per year	13.00	455.00
10	Overtime (shall be allowed by the engineer)	7.80	273.00
		Total	4359.65

Benefit Factor= 40%

TELEGRAM:- @etconp

ation Break down

As of February, 2010

Assumptions
70% of the workers(when it execludes daily laborer)
50% of the 70% of the workers may be sick.
20% of their salary for 10% of the workers
15% of their salary
10% of their salary
70%of the workers may encounter once in a year
there are 12 holidays in a year and 70%of them rests on
week days with there salary (means excluding d. laborer)
As per Ethiopian Labor law
2% of 25% of the workers
Retain 50% of the worker for 2 Months
50% of his salary per year
1/4 hour per day with double of his salary

Item No.	Description of Labour	Daily Rate	Hourly Rate	Index Factor
1	FORMAN (Mason or Carpenter)	190.00	23.75	100%
2	MASON	127.00	15.88	100%
3	ASSI. MASON	69.00	8.63	100%
4	CARPENTER	134.00	16.75	100%
5	ASSI. CARPENTER	68.00	8.50	100%
6	PLASTERER	123.00	15.38	100%
7	ASSI. PLASTERER		-	100%
8	TILER	136.00	17.00	100%
9	POLISHER		-	100%
10	CHISELER	71.00	8.88	100%
11	BAR BENDER II	112.00	14.00	100%
12	ASS. BAR BENDER	58.00	7.25	100%
13	BAR CUTTING MACHINE OPER.		-	100%
14	GLAZER	116.00	14.50	100%
15	PAINTER	109.00	13.63	100%
16	GANG CHIEF	84.00	10.50	100%
17	DAILY LOUBARER I	51.00	6.38	100%
18	DAILY LOUBARER II (conc.)	60.00	7.50	100%
19	TIME KEEPER	84.00	10.50	100%
20	ELECTRICIAN	128.00	16.00	100%
21	PLUMBER	126.00	15.75	100%
	ASSI. PLUMBER	66.00	8.25	100%
22	GREASE BOY	80.00	10.00	100%
23	VIBRATOR OPERATOR	70.00	8.75	100%
24	MIXER OPERATOR	73.00	9.13	100%
25	HELPER(MASON & CARPENTER)	80.00	10.00	100%
26	WELDER	114.00	14.25	100%
27	TRUCK DRIVER	360.00	45.00	100%
	EQUPMENT OPERATER III	600.00	75.00	100%
	LOADER OPERATER II	480.00	60.00	100%
	MUD WORKER	180.00	22.50	100%
	Tools	1.28	0.16	100%
	Sledge Hammer	5	0.625	100%

Equipment

No	Type	Cost/hr
1	**Mixer**	**62.73**
2	**Vibrater**	**27.60**
4	**Welding machine**	**19.23**
5	**Grinder**	**18.00**
6	**Drill**	**15.00**

7	**Power tool**	**15.00**	
8	**Excavator wheel type**		**1700**
9	**Excavator clawler type**	**1200**	
10	**Lift**	**150**	
11	**Truck mounted Crane 20 Tone**	**675**	
12	**Truck mounted Crane 45 Tone**	**867.2**	
13	**Tower Crane/Derrick/**	**867.2**	
14	**Concrete Batching plant 15m³-30m³**		**700**
15	**Concrete Batching plant about 80m³**		**2500**
16	**Concrete mixer, Truck mounted 5-6m³**	**770**	**1200**
17	**Concrete mixer, Trailer mounted 250lit**		**75**
18	**Concrete mixer, Trailer mounted 500lit**		**130**
19	**Concrete pump**		**1345**
20	**Plate Compactor**	**300**	
21	**Roller Compactor**	**650**	**550**
22	**Motor Grader**	**1700**	
23	**Loader Clawler with fuel 2.00 - 2.5m³**		**1700**
24	**Loader Wheel with fuel 2.00 - 2.8m³**	**1450**	**1650**
25	**Sledge Hammer**	**1450**	
26	**Dump truck with fuel 7m³**	**750**	**800**
27	**Dump truck with fuel 9m³**		**900**
28	**Dump truck with fuel 12m³**		**1200**
29	**Clawler Dozer 140 - 180 HP**		**1260**
	Clawler Dozer 200 - 250 HP		**1970**
	Clawler Dozer 280 - 330 HP	**3002.4**	
	Scaffolding	**60**	

Indexed Rate	Remarks
23.75	
15.88	
8.63	
16.75	
8.50	
15.38	
-	
17.00	
-	
8.88	
14.00	
7.25	
-	
14.50	
13.63	
10.50	
6.38	
7.50	
10.50	
16.00	
15.75	
8.25	
10.00	
8.75	
9.13	
10.00	
14.25	
45.00	
75.00	
60.00	
22.50	
0.16	
0.625	

COST OF CONSTRUCTION MATERIAL AT ADDIS ABABA

As of Octo

Item No	Type of material	Unit	Selling price with VAT
1	**Excavation & Earth work**		
1.1	Selected material	m^3	116
1.2	Basaltic hardcore	m^3	230
2	**Masonary & Concret work**		
2.1	Cement	qnt	244.36
2.2	Cement	kg	2.44
2.3	Sand	m^3	448.96
2.4	Aggregate 00	m^3	384.29
2.5	Aggregate 01	m^3	425.6
2.6	Aggregate 02	m^3	470.68
2.7	Stone	m^3	311.13
2.8	Crushed stone	m^3	175.00
2.9	Red ash	m^3	217.38
2.10	Pumice	m^3	150.81
2.11	Water	m^3	3.45
2.12	Dressed stone	m^2	142.8
2.13	Roughly dressed stone	m^2	97.5
2.14	Ambo stone	m^2	175
2.15	Kebena stone	m^2	175
2.16	Alolo stone	m^2	75
2.17	Precast beam	m^3	
2.18	Selected material	m^3	116.14
3	**Formwork**		
3.1	Eucalyptus wood 4cm dia.	ml	2.50
3.2	Eucalyptus wood 6cm dia.	ml	3.75
3.3	Eucalyptus wood 8cm dia.	ml	5.625
3.4	Eucalyptus wood 10cm dia.	ml	6.25
3.5	Eucalyptus wood 12cm dia.	ml	5.00
3.6	Zigba formwork 2.5cm	m^3	2100
3.7	Zigba formwork 2.5cm	m^2	52.5
3.8	Timber 2.5cm thick	m^2	262.5
3.9	Timber 1cm thick	m^2	130
3.10	Purline for ceiling	m^2	90
3.11	40 x 50mm standard quality battens	ml	15.00
3.12	70 x 50mm standard quality battens		22.5
3.13	40 x 50mm best quality battens	ml	20
3.14	70 x 50mm best quality battens	ml	32.5
3.15	Mould oil	lt	15.00
	Band iron	kg	25.00
	Barbed wire	ml	2.00
	Fence wire	m^2	50.00
	Wire mesh	m^2	100.00
4	**Reinforcment bar**		
4.1	Size 6mm plain	kg	23.00
4.2	Size 8mm deformed	kg	21.00
4.3	Size 10mm deformed	kg	21.00
4.4	Size 12mm deformed	kg	21.00
4.5	Size 14mm deformed	kg	21.00
4.6	Size 16mm deformed	kg	21.00
4.7	Size 20mm deformed	kg	21.00

4.8	Size 24mm deformed	kg	21.00
4.9	Size 28mm deformed	kg	21.00
4.10	Size 30mm deformed	kg	21.00
4.11	Size 32mm deformed	kg	21.00
5	**Black annaed wire**		
5.1-	Tying wire size 1.5mm	kg	32.00
6	**BRICK & HCB WALLING**		
6.1	Hydraform /22cm thick/	No	4.75
6.2	- Facing brick	Pcs.	3.52
6.3	Backing brick	Pcs.	3.52
6.4	class - A 10 cm. Thick HCB	Pcs.	12.66
6.5	class - A 10 cm. Thick solid C.B	Pcs.	16.24
6.6	class - B 10 cm. Thick HCB	Pcs.	10.40
6.7	class - B 10 cm. Thick solid C.B	Pcs.	12.68
6.8	class - C 10 cm. Thick HCB	Pcs.	7.43
6.9	class - C 10 cm. Thick solid C.B	Pcs.	8.56
6.1	class - A 15 cm. Thick HCB	Pcs.	17.60
6.11	class - A 15cm. Thick solid C.B	Pcs.	23.01
6.12	class - B 15 cm. Thick HCB	Pcs.	12.48
6.13	class - B 15cm. Thick solid C.B	Pcs.	16.98
6.14	class - C 15 cm. Thick HCB	Pcs.	9.37
6.15	class - C 15cm. Thick solid C.B	Pcs.	10.70
6.16	class - A 20 cm. Thick HCB	Pcs.	22.50
6.17	class - A 20cm. Thick solid C.B	Pcs.	29.77
6.18	class - B 20 cm. Thick HCB	Pcs.	17.79
6.19	class - B 20cm. Thick solid C.B	Pcs.	21.22
6.20	class - C 20 cm. Thick HCB	Pcs.	11.11
6.21	class - C 20cm. Thick solid C.B	Pcs.	13.43
7	**Roofing**		
7.1	CORRUGATED IRON SHEET		
7.1.1	Gauge 35	m²	56.00
7.1.2	Gauge 32	m²	80.00
7.1.3	Gauge 30	m²	107.50
7.1.4	Gauge 28	m²	130.00
7.1.5	Purline for decorating	m²	63.00
7.1.6	*Timber /Tsid /ጾጽድ ጣውላ/ 1cm for decorating roof purlin*	m²	120.00
7.1.7	Aspestos	m²	200.00
7.1.8	Euro tile	m²	210.00
7.1.9	Mica roof tile	m²	110.00
7.1.10	Grass for roof cover	m²	65.00
7.1.11	Rope	ml	1.50
7.2	**Nails**		
7.2.1	3cm & 4cm.	Kg	
7.2.2	5cm up to 15cm.	Kg	33.96
7.2.3	Concrete nail	Kg	95.00
7.2.4	Roofing nail	Kg	67.31
7.2.5	Plastice washer	pkt	3.00
7.3	**EGA SHEET ROOF COVER**		
7.3.1	EGA 300 ribbed sheet roof cover 80cm		1.25
	0.30mm.	m²	80.07
	0.35mm.	m²	93.41
	0.40mm.	m²	106.76
	0.50mm.	m²	133.45
	0.60mm.	m²	160.14
	0.70mm.	m²	186.83
	0.80mm.	m²	213.52
	1.00mm.	m²	240.21

7.3.2	EGA 400 ribbed sheet roof cover 77cm		1.30
	0.30mm.	m²	83.19
	0.35mm.	m²	97.05
	0.40mm.	m²	110.92
	0.50mm.	m²	138.65
	0.60mm.	m²	166.38
	0.70mm.	m²	194.11
	0.80mm.	m²	221.84
	1.00mm.	m²	249.57
			1.40845070423
7.3.3	EGA 500 ribbed sheet roof cover 71cm		
	0.30mm.	m²	90.22
	0.35mm.	m²	105.26
	0.40mm.	m²	205.55
	0.50mm.	m²	256.93
	0.60mm.	m²	308.32
	0.70mm.	m²	359.70
	0.80mm.	m²	411.09
	1.00mm.	m²	462.48
7.3.4	EGA 600 ribbed sheet roof cover 67cm		1.49
	0.30mm.	m²	95.61
	0.35mm.	m²	111.54
	0.40mm.	m²	127.47
	0.50mm.	m²	159.34
	0.60mm.	m²	191.21
	0.70mm.	m²	223.08
	0.80mm.	m²	254.95
	1.00mm.	m²	286.82
7.3.5	EGA 700 ribbed sheet roof cover 63cm		1.59
	0.30mm.	m²	101.68
	0.35mm.	m²	118.62
	0.40mm.	m²	135.57
	0.50mm.	m²	169.46
	0.60mm.	m²	203.35
	0.70mm.	m²	237.24
	0.80mm.	m²	271.14
	1.00mm.	m²	305.03
7.3.6	J - bolt & nut with washer	no	4.00
7.4	**Gutter**		
7.4.1	G-28 galvanized metal sheet gutter of devt. Length 33 cm	ml	98.26
7.4.2	Metal brackets	No.	5.5
7.4.3	G- 30 galvanized metal sheet gutter of devt. Length 33 cm	ml	52.95
7.4.4	Metal brackets1	No.	5.5
7.4.5	G- 28 galvanized metal sheet gutter of devt. Length 40 cm	ml	73
7.4.6	Metal brackets2	No.	6.5
7.4.7	G- 30 galvanized metal sheet gutter of devt. Length 40 cm	ml	61
7.4.8	Metal brackets3	No.	6.5
7.4.9	G- 28 galvanized metal sheet gutter of devt. Length 50 cm	ml	87.5
7.4.10	Metal brackets4	No.	7.5
7.4.11	G- 30 galvanized metal sheet gutter of devt. Length 50 cm	ml	72.5
7.4.12	Metal brackets 5	No.	7.5
7.4.13	G- 28 galvanized metal sheet gutter of devt. Length 67 cm	ml	196.52
7.4.14	Metal brackets4	No.	9.3

7.4.15	G- 30 galvanized metal sheet gutter of devt. Length 67 cm	ml	92.05
7.4.16	Metal brackets 5	No.	9.3
7.5	**Down pipe**		
7.5.1	G-28 galvanized steel recta down pipe Devt. Length 33 cm	ml	57.85
7.5.2	Metal brackets	No.	6.5
7.5.3	G-30 galvanized steel recta. down pipe Devt. length 33 cm	ml	47.95
7.5.4	Metal brackets1	No.	6.5
7.5.5	G-28 galvanized steel recta. down pipe devt. Length 40 cm	ml	68
7.5.6	Metal brackets2	No.	7
7.5.7	G-30 galvanized steel recta. down pipe devt. Length 40 cm	ml	56
7.5.8	Metal brackets3	No.	7
7.5.9	G-28 galvanized steel recta. down pipe, devt. Length 50 cm	ml	82.5
7.5.10	Metal brackets4	No.	8
7.5.11	G-30 galvanized steel recta. down pipe, devt. Length 50 cm	ml	67.5
7.5.12	Metal brackets5	No.	8
7.5.13	9.18- Metal brackets8	No.	
7.5.14	9.19- Bolt and nut	No.	
7.5.15	9.20- Fixers	No.	0.5
7.6	**Copping**		
7.6.1	G-28 galvanized steel copping, Deve. length 25 cm	ml	44.25
7.6.2	G-30 galvanized steel copping, Devel. length 25 cm	ml	36.75
7.6.3	G-28 galvanized steel copping, Devel. length 33 cm	ml	55.85
7.6.4	G-30 galvanized steel copping, Devel.t length 33 cm	ml	45.95
7.6.5	G-28 galvanized steel copping, Devel length 50 cm	ml	80.5
7.6.6	G-30 galvanized steel copping, Devel length 50 cm	ml	65.5
7.6.7	Fixer	No.	
7.7	**Roof Ridge**		
7.7.1	G-28 galvanized steel roof ridge, Devel. length 33 cm	ml	55.85
7.7.3	G-30 galvanized steel roof ridge, Devel. length 33 cm	ml	45.95
7.7.4	G-30 galvanized steel roof ridge, Devel. length 50 cm	ml	80.5
7.7.5	G-28 galvanized steel roof ridge, Devel. length 50 cm	ml	65.5
7.7.6	PVC roof ridge, Development length 25-33 cm	ml	
7.7.7	PVC roof ridge, Devel length 34-40 cm	ml	
7.7.8	PVC roof ridge, Devel length 41-50 cm	ml	
7.7.9	PVC roof ridge, Devel length 51-60 cm	ml	
7.8	**Metal flashing**		
7.8.1	G-30 galvanized steel flashing, Devel length 50 cm	ml	63.5
7.8.2	G-30 galvanized steel flashing, Devel. length 67 cm	ml	85.05
7.8.3	G-30 galvanized steel flashing, Devel length 100 cm	ml	106
7.8.4	G-28 galvanized steel flashing, Devel length 50 cm	ml	78.5
7.8.5	G-28 galvanized steel flashing, Devel length 67 cm	ml	103.15
7.8.6	G-28 galvanized steel flashing, Develt length 100 cm	ml	151
7.9	PVC for down pipe		
7.9.1	Ø 80cm	ml	12.5
7.9.2	Ø 110cm	ml	30.83
7.9.3	Ø 150cm	ml	45.83
8	**Metal Works/steel structure**		
1	38 mm LTZ metal L - Section 1.5mm	ml	78.2
2	38 mm LTZ metal T - Section 1.5mm	ml	85
3	38 mm LTZ metal Z - Section 1.5mm	ml	85
4	38 mm LTZ metal L - Section 1.2mm	ml	51.67
5	38 mm LTZ metal T - Section 1.2mm	ml	51.67
6	38 mm LTZ metal Z - Section 1.2mm	ml	51.67
7	28 mm LTZ metal L - Section 1.5mm	ml	51.67
8	28 mm LTZ metal T - Section 1.5mm	ml	51.67
9	28 mm LTZ metal Z - Section 1.5mm 8.44 kg	ml	51.67
10	28 mm LTZ metal L - Section 1.2mm	ml	45

11	28 mm LTZ metal T - Section 1.2mm 6.77kg	ml	45
12	28 mm LTZ metal Z - Section 1.2mm	ml	45
13	50 mm LTZ Imitation metal Section 1.00mm	ml	75
14	Metal Frame (angle iron) 10*20*1.25mm	ml	30.8333333333
15	manelia	No	20
16	Creketto	No	15
17	Hinge	No	15
18	Hinge	No	18
19	Electrode	No	1.85
20	Electric power	Kw/hr	2.75
21	Flat metal (piato)	ml	10
22	sheet metal (0.8mm)	m²	160
23	sheet metal (1.0mm)	m²	185
24	sheet metal (1.5mm)	m²	275
25	Locker IV	No	15
26	Cylindrical lock I	No	450
27	Cylindrical lock II	No	280
28	Cylindrical lock III	No	150
29	Metal plate	Kg	22.25
30	Metal plate 250x250x6mm	Pcs	66.75
31	Screw	Pcs	0.75
32	Screw	Pcs	0.5
33	Washer	Pcs	3
34	J- bolt-40cm dia 20mm	Pcs	58
35	Antirust	lt	51.75
36	RHS (15X15mm)	ml	8.33
37	RHS (20X20X1.5mm) Kality	ml	20.36
38	RHS (25X25X2.5mm)	ml	43.57
39	RHS (30X30X1.5mm)	ml	31.89
40	RHS (30X30X2.0mm)	ml	41.20
41	RHS (30X30X2.5mm)	ml	49.80
42	RHS (40X40X1.5mm)	ml	43.42
43	RHS (40X40X2mm)	ml	56.66
44	RHS (40X40X2.5mm)	ml	69.20
45	RHS (40X40X3mm)	ml	80.21
46	RHS (50X50X3mm)	ml	104.28
47	RHS (60X40X1.5mm)	ml	55.96
48	RHS (60X40X2mm)	ml	71.87
49	RHS (60X40X3mm)	ml	104.98
50	RHS (70X50X3mm)	ml	127.34
51	RHS (60X60X2mm)	ml	87.33
	RHS (60X60X3mm)	ml	127.34
	RHS (80x80x3mm)	ml	174.18
	RHS (80x80x3.5mm)	ml	200.18
	RHS (100X60X2mm)	ml	118.26
	RHS (100X60X2mm)	ml	146.22
	Art metal	Pcs	120.00
9	**FINISHING WORKS**		
1	2 cm thick cement tile	m²	145
2	3 cm thick cement tile	m²	165
3	5 cm thick cement tile	m²	190
4	8cm thick precast concrete	m²	180
5	2 cm thick Terrazzo tile	m²	170
6	2 cm thick Terrazzo tile	m²	356
7	2 cm thick lime stone	m²	413
8	3 cm thick lime stone	m²	486
9	2 cm thick marble tile different color	m²	717

10	3 cm thick marble tile different color	m²	932
11	2 cm thick Tekeze black marble tile	m²	
12	3 cm thick Tekeze black marble tile	m²	
13	2 cm thick Harrar marble tile	m²	413
14	Marble chips	m²	350
15	Powder color	kg	90
16	Polishing stone	m²	20
17	white cement	kg	23
18	5 cm thick Palladian type cement tile	m²	
19	2 cm thick Granite tile	m²	930
20	3 cm thick Granite tile	m²	1300
21	6 mm thick porcelain tile	m²	350
22	9 mm thick porcelain tile	m²	407
23	10 mm thick porcelain tile	m²	649
24	6 mm thick Ceramic tile flooring medium quality	m²	230
25	6 mm thick Ceramic tile flooring high quality	m²	300
26	Parquet flooring PDF	m²	650
27	Bamboo flooring	m²	895
28	Adhesive	m²	60
29	2 mm thick PVC floor tile	m²	110
30	Glue	kg	58
31	Gypsum	kg	3
	PVC Skirting		
1	6 cm high	ml	11
2	7 cm high	ml	13.5
3	8 cm high	ml	16
4	10 cm high	ml	18.25
5	10 cm high cement skirting	ml	30
6	10 cm high Terrazzo skirting	ml	42
7	10 cm high wooden skirting	ml	45
8	screw	No.	
9	fisher	No.	
10	10 cm high ceramic skirting china made	ml	25
11	10 cm high ceramic skirting European made	ml	40
12	8 cm high 6mm thick porcelain skirting	ml	40
13	9 cm high 6mm thick porcelain skirting	ml	45
14	10 cm high 6mm thick porcelain skirting	ml	50
15	10 cm high Harar marble skirting	ml	
16	10 cm high 2 cm thick white marble skirting	ml	88.81
17	7 cm high 2 cm thick white marble skirting	ml	68.86
18	10 cm high 2 cm thick lime stone skirting	ml	44.88
19	7 cm high 2 cm thick lime stone skirting	ml	37.37
20	10 cm high 2 cm thick granite skirting	ml	90
21	5cm thick concrete element	m²	
22	3.5cm thick Checkered tile for parking	m²	
23	4.mm thick Ordinary playwood	pcs	
24	3.mm thick Woyra playwood	pcs	
25	3.mm thick Mohogony playwood	pcs	
26	Water proofing membrane	m²	
	Wall tiles		
53	6 mm thick Ceramic wall tile economic version	m²	
	6 mm thick Ceramic wall tile 60×60cm best quality	m²	787.50
54	6 mm thick Ceramic wall tile 60×60cm standard version	m²	787.50
55	6 mm thick Ceramic wall tile - standard version 30×45cm	m²	700.00
56	6 mm thick Ceramic wall tile - best quality 30×45cm	m²	650.00
57	disk cutter 1(ceramic)	pc	
58	disk cutter 2(granite)	pc	

59	disk cutter 3(	pc	
60	Mosaic wall tile	m²	250
57	Adhesive II	kg	90
58	Adhesive I	kg	60
59	white cement	kg	12
60	1cm thick white marble cladding	m²	275
61	10mm thick white marble cladding 6x30cm	m²	215
62	3mm thick white mrble	m²	
63	6mm thick Clinker wall 24x6 cm	m²	190
64	Plastic paper	m²	17.5
65	Kaki or news paper	m²	0.50
66	Normal paper	m²	0.40
67	Abujedid	m²	11.00
	PVC wall tile type cladding	m²	25.00
	WINDOW sill		
1	marble		
2	3cm thick sabian multi-color marble trade & window sill	m²	975.05
3	1cm thick sabian marble	m²	275
4	2cm thick sabian marble	m²	477
5	3cm thick Mankusha marble	m²	841
6	2cm thick Mankusha marble	m²	520
7	2cm thick sabian multi-color marble riser & door sill	m²	
8	3cm thick Harar marble window sill	m²	
9	3cm thick terrazzo window sill	m²	445.28
10	3cm thick 28cm width L=1.2m		151
11	3cm thick 28cm width L=1.5m		187
17	**Copping1**		
17.1	marble		
	5cm thick white marble copping	m²	
	2cm thick marble copping	m²	932
	5cm thick concrete copping	m²	
	2cm thick terrazzo copping	m²	170
17.2	Riser and Thread		
	2 cm thick Harar marble riser	m²	
	2 cm thick white marble riser	m²	
	2 cm thick granite riser	m²	
	2 cm thick Terrazzo riser	m²	
	Gojam marble chips flooring	m²	
	Gypsum	kg	3
	Harrar marble thread	m²	
	white marble thread	m²	
	granite thread	m²	
	Terrazzo thread	m²	
10	**GLAZING WORKS**		
18.1	Clear Glass		
	Size 3 mm thick	m²	180
	Size 4 mm thick	m²	200
	Size 5 mm thick	m²	300
	Size 6 mm thick	m²	370

18.2	Figured Glass		
	Size 4 mm thick	m²	250
	Size 5 mm thick	m²	350
18.3	Frosted glass	m²	
	Size 3 mm thick	m²	300
	Size 4 mm thick	m²	350
	Size 5 mm thick	m²	460
	Size 6 mm thick	m²	600
18.4	Tinted Glass	m²	
	Size 4 mm thick	m²	200
	Size 5 mm thick	m²	300
	Size 6 mm thick	m²	370
18.5	Laminated or security glass		
	Size 6 mm thick	m²	860
18.6	Reflected glass		
	Size 4 mm thick	m²	370
	Size 5 mm thick	m²	560
	Size 6 mm thick	m²	690
18.7	Wired glass	m²	
	Size 5 mm thick	m²	500
	Puty	Kg	15
11	**PAINTING**		
1	Plastic paint	lit	30
2	Synthetic enamel paint	lit	55
3	Varnish paint	lit	70
4	Aluminum paint	,,	65
5	mica paint	,,	65
6	Quartz paint (16lit or 25kg)5m2	,,	27.5
7	Primer (16lit)40-45m2	,,	18.75
8	Mineral paint	,,	25.63
15	Antirust	,,	51.75
16	Thinner (aquarage)	,,	45
17	Gypsum	kg	3
18	glue	kg	75
19	Glue (Animal)	kg	40
20	Sand paper	No	3.50
21	Primer	lit	18.75
22	Plastic emulsion paint	lt	
	Lime	kg	3
	Solvent	kg	2
12	**CARPENTARY AND JOINERY**		
	1.Eucalyptus		
1	Diam. 4 cm thick eucalyptus	ml	5
2	Diam. 6 cm thick eucalyptus	ml	7.5
3	Diam. 8 cm thick eucalyptus	ml	12.57
4	Diam. 10 cm thick eucalyptus	ml	12.57
5	Diam. 12 cm thick eucalyptus	ml	10
	Filt	ml	3
	2.Batten		
	Australia batten (4x5cm)		
	Australia batten (5x7cm)		
	Shashemene (4x5cm)		
	Shashemene (5x7cm)		
	Machine sawn pine purline (4x5cm)	ml	15
	Machine sawn pine purline (5x7cm)		22.5
	Imported sawn pine purline (4x5cm)	ml	
	Imported sawn pine purline (5x7cm)		

	Batten (8x10cm)		60
	3.Chipwood		
1	8 mm thick chip wood	m²	67.19
2	10 mm thick chip wood	m²	
3	13 mm thick chip wood	m²	
4	16 mm thick chip wood	m²	
5	19 mm thick chip wood	m²	
	4.Board		
20.8	Fyzit	m²	50.39
20.9	Playwood	m²	50.39
	MDF Board 12mm	m²	192.95
	MDF Board 16mm	m²	234.90
	MDF Board 19mm	m²	263.76
20.10	PVC ceiling	m²	250
20.11	Pvc Corner list	ml	45
20.12	Parquet ceiling	m²	450
20.13	Parquet corner list	ml	50
	Fascia board	ml	62.5
20.14	Abujedid	m²	11
15	*Rush /ሸንበቆ/*	m²	3
16	*Plastic sack /ማዳበሪያ /*	m²	10
17	Sack /ጆንያ/	m²	14
18	Corner list	ml	7
20.20	Center list	ml	6
20.21	Band iron	Kg	25
20.22	Oil	Lt	15
20.23	5cm width wooden fascia board	ml	12.5
20.24	20cm width wooden fascia board	ml	50
20.25	25cm width wooden fascia board	ml	62.5
20.26	30cm width wooden fascia board	ml	75
20.27	15cm width wooden fascia board	ml	35
20.28	50cm width wooden fascia board	ml	115
20.29	*Timber 1cm thick*	m²	120
20.30	*Timber 3cm thick*	m²	310
20.31	*Timber /Tsid /የጽድ ጣውላ/*	m²	230
20.32	*Wooden frame*	ml	30
20.33	G-32 KASI ribbed metal sheet soffit	m²	
	Flush wooden door	m²	
	Cylindrical lock I	pcs	450
	Cylindrical lock II	pcs	280
	Cylindrical lock III	pcs	150
	Locker IIII	pcs	60
	Mahogany ply wood smooth finish flush wooden door	*m²*	2300
	Woyra ply wood smooth finish flush wooden door	*m²*	2300
	Smooth MDF board made imported wooden door	*m²*	3000
	Antique smooth MDF board made imported wooden door	*m²*	3500
	Solid wooden door	m²	5200
	Woyra ply wood flush wooden built in cupboard (standard version)		2000
	Antique built in cupboard (best quality)		2500
	PVC made Kitchen cabinet	m²	2000
	Laminated Kitchen cabinet	m²	2500
	Solid wood Kitchen cabinet	m²	3000
	Wooden Rail	ml	
	Aluminium rail	ml	
	MDF board	m²	264

13	**SANITARY WORK**		
	Gypsum	kg	3
	Fiber (kacha)	kg	110
	Anti rust	lit	51.75
	Steel support	Ml	25
	Flexible shower head	No	180
	Cement	qnt	244.36
	Cement	kg	2.44
	white cement	Kg	12
	Screw	No	0.50
	Fisher	No	1.50
	Bolt & nut	No	3.50
	Steel support	No	18.00
	Electrod	No	1.85
	Brick	No	3.52
2	**Hand wash basin**		
	405x500 mm with all accessories high quality	pc	500
	405x500 mm with pedestal and all accessories high quality	pc	2200
	405x500 mm with pedestal and all accessories med. quality	pc	1500
	405x500 mm with pedestal and all accessories low quality	pc	750
	600x500 mm with pedestal and all accessories high quality	pc	2800
	600x500 mm with pedestal and all accessories med. quality	pc	2200
	600x500 mm with pedestal and all accessories low quality	pc	1500
	W.C. low level flashing		
	Low flush W.C with all accessories high quality	pc	3000
	Low flush W.C with all accessories medium quality	pc	2100
	Low flush W.C with all accessories low quality	pc	1400
3	**Double bowls kitchen sinks**		
	with all accessories high quality (50 x 150)cm	pc	2000
	with all accessories medium quality (50 x 150)cm	pc	1500
	with all accessories low quality (50 x 150)cm	pc	900
4	**Single bowl kitchen sinks**		
	with all accessories high quality (50x100 cm)	pc	850
	with all accessories medium quality (50x100 cm)	pc	450
	with all accessories low quality (50x100 cm)	pc	250
5	**shower tray**		
	80x80 cm vitreous china shower tray with all accessories	pc	1500
	70x70 cm white enameled steel shower tray with all accessories	pc	1100
	70x70 cm terrazzo shower tray with all accessories	pc	750
6	**soap holder**		
	White vitreous china soap holder European made	pc	35
	White vitreous china soap holder Ethiopian made	pc	160
7	**Toilet paper holder**		
	White vitreous china toilet paper holder European made	pc	65
	White vitreous china toilet paper holder Ethiopian made	pc	180
8	**Towel hunger**		
	Towel hunger best quality	pc	24
	Towel hunger economy version	pc	85
9	**enameled steel bath tub**		
	70x150 cm white enameled steel bath tub with all accessories	pc	2000
	70x170 cm white enameled steel bath tub with all accessories	pc	2500
10	**Fiber glass bath tub**		
	70x150 cm fiber glass bath tub with all accessories	pc	1200
	70x170 cm fiber glass bath tub with all accessories	pc	1550
11	**Jacuzzi**		
	80x150 cm Jacuzzi (bath tub) with all accessories	pc	17000
	124x190 cm Jacuzzi (bath tub) with all accessories	pc	22000

	150x150 cm Jacuzzi (bath tub) with all accessories	pc	39000
	180x130 cm digital control Jacuzzi (bath tub)with steam & all accessories	pc	45000
12	**Shower box**		
	90x90 cm Shower box	pc	10500
	Urinal		
	Urinal with all accessories medium quality	pc	450
	Urinal with all accessories low quality	pc	250
13	**Water heater**		
	50 lt capacity Water heater with all accessories	pc	2550
	80 lt capacity Water heater with all accessories	pc	2750
	100 lt capacity Water heater with all accessories	pc	3000
14	**Floor drain**		
	Dia.50 mm brass plated floor drain high quality	pc	120
	Dia.50 mm brass plated floor drain low quality	pc	65
	Dia.80 mm brass plated floor drain high quality	pc	150
	Dia.80 mm brass plated floor drain low quality	pc	80
15	**Crystal glass mirror**		
	500x400mm	pc	130
14	**ELECTRICAL WORK**		
	Telephone outlet	No	
	connector	No	
	TV Cable	Ml	
	TV outlet	No	
	Electrical		
2	**Light fitting RZB**	pc	
	Light fitting RZB 91163.00x with accessories	pc	290
	Light fitting RZB 34500.200x with accessories	pc	466
	Light fitting RZB 211004.002 with accessories	pc	520
	Light fitting RZB 21104.00X with accessories	pc	1100
	Light fitting RZB 612067 with accessories	pc	5925
3	**Flourescent light fitting**		
	Flourescent Disano 930 ECHO with 1x36w flourescent T8 Lamps		935
	Flourescent MODUSE I 418 ALDP or equivalent 4x18w lenear flourescent lamp T8 with G13 base		950
	Luminaries		
	Massive 34004/11/10E14/40W	pc	489.6
	Massive 70107/02/2XE27/60W	pc	595.2
	Massive 73768/03/3XE14/40W	pc	1440
	Massive 73768/05/5XE14/40W	pc	2172
4	**Philips Lighting**		
	TCW 215/118 +1xTLD 18W with water proof Luminaires		470
	TCW215/218 + 2xTLD 18W with water proof Luminaires		540
	TCW215/136 + 1xTLD 36 w with water proof Luminaires		540
	TCW215/236 + 2xTLD 36 w with water proof Luminaires		660
	TMW065 1xTL-D36w with water proof batten and dust proof		530
	TMW065 2xTL-D36w with water proof batten and dust proof		650
	TCS 398 2x18 w		1500
	TCS 398 1x36 w		2000
5	**Batten**		
	TMX 204 1-2x36w		550
	TMX 204 1-2x58w	pc	700
6	**HIGH BAY LUMINAIRES**		
22.10.1	HPK 100 + 1xHPL 250w with Lamp, reflector and accessories	pc	2200
	SPK 100 1xSON400w with Lamp, reflector and accessories		2400
	DB for 4ACB/20/25A Rating /plastic / economy version		420
	DB for 8 ACB/25/40A Rating /plastic / economy version		420
	DB for 12 ACB/40/63A Rating /plastic / economy version		420

	DB for 12 ACB/40/63A Rating /plastic / Steel enclosure		890
	DB for 16 ACB/63/80A Rating /plastic / economy version		550
	DB for 16 ACB/63/80A Rating /plastic / standard version		590
	DB for 16 ACB/63/80A Rating /plastic / Steel enclosure		990
	DB for 36 ACB/80/100A Rating /plastic / Steel enclosure		4920
	DB for 48 ACB/100/125A Rating /plastic / Steel enclosure		5865
	Distriution Board including bus bar of 163 A		6985
	Distriution Board including bus bar of 200 A		9215
22.11	**ACB**		
	Single phase Automatic Circuit Breaker ABB type 6A-40A/ph		55
	Single phase Automatic Circuit Breaker ABB type 50A-63A/ph		120
	Three phase Automatic Circuit Breaker ABB type 6A-40A/3ph		210
	Three phase Automatic Circuit Breaker ABB type 50A/3ph		330
	Three phase Automatic Circuit Breaker ABB type 60A/3ph		400
	Three phase Automatic Circuit Breaker ABB type 80A/3ph		1300
	Three phase Automatic Circuit Breaker ABB type 100A/3ph		1600
	Three phase Automatic Circuit Breaker ABB type 125A/3ph		2000
	Three phase Automatic Circuit Breaker ABB type 150A-160A/3ph		3200
22.12	**Fuse**		
22.12.1	HRS Fuse 40A cartridgefuse single phase	pc	28
	HRS Fuse 50A cartridgefuse single phase		35
	HRS Fuse 125A blade type single phase		110
	HRS Fuse 630A blade type single phase		410
	Socket Fuse 10A-40A Carrier fuse single phase		40
	Socket Fuse 50A-63A Carrier fuse single phase		91
	Socket Fuse 800A Blade type single phase		399
22.13	**Cable**		
22.13.1	Flexible round cable 2x 2mm2	pc	26
	Flexible round cable 2x 2.5mm2		30
	Flexible round cable 2x 4mm2		45
	Flexible round cable 3x6mm2		84
	Rigid round cable 3x10mm2		188
	Rigid round cable 3x16mm2		253
22.14	**Cable1**		
22.14.1	Galvanized perforated sheet Cable tray of 100mm	pc	110
	Galvanized perforated sheet Cable tray of 200mm		145
	Galvanized perforated sheet Cable tray of 400mm		250
	Galvanized perforated sheet Cable tray of 600mm		330
	Galvanized Cable Ladder of 100mm		85
	Galvanized Cable Ladder of 600mm		300
22.14.2	steel support	pc	
22.15	**Power cable**		
22.15.1	Power cable 3x35/16mm2	Ml	270
	Power cable 3x50/25mm2		640
	Power cable 3x70/35mm2		690
22.16	**Control cable**		
22.16.1	Control cable 7x1.5mm2	Ml	
22.17	**Bare copper**		
22.17.1	Bare copper wire 1x6mm2	pc	16
	Bare copper wire 1x10mm2		31
	Bare copper wire 1x16mm2		42
22.18	**Earthing system**		
22.18.1	Earth electrodes of 0.6mx0.6mx3.15mm copper plate		550
	Earth electrodes 2.5mx16mm dia. Copper rod		660
	Lightning arrestor		4215
22.19	**Fire Alarm system**		

22.19.1	Fire Alarm Main control board	pc	12760
	Fire Alarm repeater panal	ml	3210
	Siren(Alarm/bell)water proof		900
	Manual call box for alarm system		350
	Break glass		450
	Termosensor		850
	Smokesensor		800
	RJ45 outlet category 5E with 8 contacts		138
	RJ45 twin outlet category 5E with 8 contacts		245
22.20	**Data outlet**		
22.20.1	RJ45 outlet category 5E with 8 contacts	pc	
22.21	**Bell**		
22.21.1	Bell 12V	pc	68
22.21.2	Bell 220V	pc	
22.21.3	Bell Call Indicator/Annunciator 6 number	pc	
22.22	**connectors**	pc	
22.22.1	Connector clap	no	55
22.22.2	Driving stud	no	30
	16mm rod coupling		60
22.24	**switch**		
22.24.1	Single switch economic	no	15
22.24.2	Single pole switch	no	40
22.24.3	Double pole switch	no	60
22.24.4	Two way switch	no	42
22.24.5	Intermidate switch	no	70
22.24.6	3-gange switch	no	105
	Dimmer box type c consisting -12pcs Dimmers	no	6270
	Dimmer box type R,L and L/M consisting -6pcs Dimmers		2985
22.25	**Single wire**	ml	12
22.25.1	Single wire 1x4mm2	ml	
22.26	**Socket outlet**		
22.26.1	Socket economic	no	15
22.26.2	Socket outlet 10A/1p	no	78
22.26.3	Socket outlet 16A/1p	no	90
22.26.4	Socket outlet 25A/1p	no	102
	TV Socket outlet	no	120
	Socket for water heater	no	135
	Socket for stove	no	150
	Socket for Injera mitad	no	155
22.27	Conduit 16m	no	19
	Rigid conduit		
	Dia.13mm		12
	Dia 16mm		14.5
	Dia 19mm		*18.00*
	Flexible conduit		
	Dia 13mm		*11.00*
	Dia 16mm		*13.00*
	Dia 19mm		*16.00*
22.27.1	Dia 13mm2 conduit	Ml	
22.28	Junction box	No	
15	**SITE SANITARY WORK**		
	Fiber (kacha)	kg	110
	Anti rust	lit	51.75
	Cement	kg	2.44
	Sand	m^3	474.32
	Red ash	m^3	200.00
23.1	**G S C Pipe**		

	1/2" G.S.Pipe (class B)	ml	33.33
	3/4" G.S.Pipe (class B)	ml	50.00
	1" G.S.Pipe (class B)	ml	60.00
	1 1/2" G.S.Pipe (class B)	ml	116.67
	1 1/4" G.S.Pipe (class B)	ml	
	2" G.S.Pipe (class B)	ml	150.00
	21/2" G.S.Pipe (class B)	ml	
	3" G.S.Pipe (class B)	ml	258.33
23.2	**concrete pipe**		
	Diameter 10 cm concrete pipe	ml	55
	Diameter 15cm concrete pipe	ml	80
	Diameter 20cm concrete pipe	ml	100
	Diameter 30cm concrete pipe	ml	120
	Diameter 30 cm reinforced concrete pipe	ml	194
	Diameter 40 cm reinforced concrete pipe	ml	294
	Diameter 50 cm reinforced concrete pipe	ml	314
	1/2 Dia. 30cm concrete pipe	ml	65
	1/2 Dia 40cm concrete pipe	ml	80
	1/2 Dia 50cm concrete pipe	ml	105
23.3	**water tank**		
	Polyethylene water tank 750 lt capacity	No	2210
	Polyethylene water tank 1000 lt capacity	No	3250
	Polyethylene water tank 2000 lt capacity	No	5590
	Polyethylene water tank 5000 lt capacity	No	6500
	Fittings (out let and in let)	No	9
	Fiber glass water tank 750 lt	No	2800
	Fiber glass water tank 1000 lt	No	3250
	Fiber glass water tank 2000 lt	No	7250
	Fiber glass water tank 5000 lt	No	8450
23.4	**float valve**		
	1/2" float valve	no	33
	3/4" float valve	no	85
	1 1/2" float valve	no	330
	Gate valve		
	1/2" Gate valve	no	80
	3/4" Gate valve	no	90
	1" Gate valve (25mm)	no	160
	1 1/2" Gate valve	no	310
	2" Gate valve (50mm)	no	450
23.5.1	**Reducer**		
	11/2"-1"	no	35
	11/2"-3/4"	no	33
	2"-3/4"	no	42
	2"-1 1/2"	no	16
	2 1/2"-1/2"	no	62
23.5.2	**Union**		
	1"	no	37.23
	1 1/2"	no	69.67
	2"	no	112.91
	3/4"	no	22.59
23.5.3	**Elbo**		
	1/2"	no	9.30
	1"	no	15.93
	1 1/2"	no	46.50
	2"	no	57.18
	3/4"	no	5.77
23.5.4	**Tee**		

	3/4"	no	11.29
	1/2"	no	9.30
	1"	no	17.85
	1 1/2"	no	39.10
	2"	no	60.55
	2 1/2"	no	71.60
23.6	Vent cap		
	Diameter 50 mm Vent cap	no	
23.7	PVC Pipe		
	50 mm. dia. PVC Pipe	ml	15.5
	75 mm. dia. PVC Pipe	ml	28.78
	110 mm. Dia. PVC Pipe	ml	47.5
	125 mm. Dia. PVC Pipe	ml	52
	160mm. Dia. PVC Pipe	ml	91.3
	200mm. Dia. PVC Pipe	ml	120.18
23.8	HDPE pipe		
	Diameter 25mm HDPE pipes	ml	
	Diameter 32mm HDPE pipes	ml	14.00
	Diameter 40mm HDPE pipes	ml	28.00
	Diameter 50mm HDPE pipes	ml	28.00
	Diameter 63mm HDPE pipes	ml	49.00
	Diameter 75mm HDPE pipes	ml	85.00
	Diameter 90mm HDPE pipes	ml	115.00
	Diameter 25mm HDPE connecting piece	pcs	40.00
	Diameter 32mm HDPE connecting piece	pcs	65.00
23.9	PP-R pipe		
	Diameter 25mm	pcs	14.15
	Diameter 32mm	pcs	20.00
	Diameter 40mm	pcs	33.33
	Diameter 50mm	pcs	58.33
	Diameter 63mm	pcs	91.66
	Diameter 75mm	pcs	125.00
	Diameter 90mm	pcs	141.67
	Diameter 25mm PP-R connecting piece	pcs	
	Diameter 32mm PP-R connecting piece	pcs	

TELEGRAM:- @etconp

ber , 2014
Source of Material
Average W.Supply
952/m3
650/m3
700/m3
700/m3
300/m3
20/pcs
30/pcs
45/pcs
50/pcs
70/pcs
10500/m3
262.5/m2
60/pcs
90/pcs
80/pcs
130/pcs

131.25

10500

205.45454545

270/pcs
270/pcs
450/pcs
185
185/pkt
60/pcs
320/pcs
370
550

426.38

50/pcs
122.15

261.44

191.35
247.20
298.82
260.55
339.98

49.272463768

415.185

481.27

625.67
335.75
431.21
629.90
764.07
523.99
764.07
1045.08
1201.05
709.55
877.32

!

514

46.97

240
150/pcs
150/pcs
150
575/pc
700/pc
786/pc
250
28/pcs
24/pcs
50
200
250
300
140
460

200/pc
300/pc
360/pc
700/pc
900/pc
1550/pc

93/pc
172.67/pc
285/pc
312/pc
551/pc
721.05/pc
85/pc
120/pc
200/pc
350/pc
550/pc
750/pc
850/pc

Item No.	DESCRIPTION	UNIT
A	**Demolishing Work of different structures N.B. price include clearing the working area & dispose debri as indicated the supervisour**	
	Demolishing work on Ground floor	
1	Masonry Structures	m^3
2	Reinforced Concrete Structures	m^3
4	10cm thick of HCB both side plastered	m^2
5	15cm thick of HCB both side plastered	m^2
6	20cm thick of HCB both side plastered	m^2
7	Terrazzo Floor	m^2
8	Cement screed floor	m^2
9	30x120x3cm Marble tread	pc
10	15x120x3cm Marble riser	pc
11	Steel Structures	kg
	Demolishing work from 1st -3rd floor	
1	Concrete Structures	m^3
2	10cm thick of HCB both side plastered	m^2
3	15cm thick of HCB both side plastered	m^2
4	20cm thick of HCB both side plastered	m^2
5	Terrazzo Floor	m^2
6	Cement screed floor	m^2
7	30x120x3cm Marble tread	pc
8	15x120x3cm Marble riser	pc
9	Steel Structures	kg
	Demolishing work from 4th -7th floor	
1	Concrete Structures	m^3
2	10cm thick of HCB both side plastered	m^2
3	15cm thick of HCB both side plastered	m^2
4	20cm thick of HCB both side plastered	m^2
5	Terrazzo Floor	m^2
6	Cement screed floor	m^2
7	30x120x3cm Marble tread	pc
8	15x120x3cm Marble riser	pc
9	Steel Structures	kg
	Demolishing work from 8th -12th floor	
1	Concrete Structures	m^3
2	10cm thick of HCB both side plastered	m^2
3	15cm thick of HCB both side plastered	m^2
4	20cm thick of HCB both side plastered	m^2
5	Terrazzo Floor	m^2
6	Cement screed floor	m^2
7	30x120x3cm Marble tread	pc
8	15x120x3cm Marble riser	pc
9	Steel Structures	kg
	Demolishing work from 13th -20th floor	
1	Concrete Structures	m^3
2	10cm thick of HCB both side plastered	m^2
3	15cm thick of HCB both side plastered	m^2
4	20cm thick of HCB both side plastered	m^2
5	Terrazzo Floor	m^2
6	Cement screed floor	m^2
7	30x120x3cm Marble tread	pc
8	15x120x3cm Marble riser	pc
9	Steel Structures	kg
1	**Excavation and earth work /የአፈር ቁፋሮ /**	
1.2	**Bulk excavation in loose soil (manual)**	
1	To the depth of not exceeding 150 cm	m^3
2	To the depth of 150< x < 300 cm	m^3
3	To the depth of 300 < x < 450 cm	m^3
4	To the depth of 450< x < 600 cm	m^3
5	To the depth of 600< x < 750 cm	m^3
6	To the depth of 750< x < 900 cm	m^3
7	To the depth of 900< x < 1150 cm	m^3

Item No.	DESCRIPTION	UNIT
1.3	**Bulk excavation in soft rock (manual)**	
1	To the depth of not exceeding 150 cm	m^3
2	To the depth of 150< x < 300 cm	m^3
3	To the depth of 300 < x < 450 cm	m^3
	To the depth of 450< x < 600 cm	m^3
	To the depth of 600 < x < 750 cm	m^3
	To the depth of 750< x < 900 cm	m^3
	To the depth of 900 < x < 1150 cm	m^3
1.4	**Bulk excavation in hard rock (manual)**	
1	To the depth of not exceeding 150 cm	m^3
2	To the depth of 150< x < 300 cm	m^3
3	To the depth of 300 < x < 450 cm	m^3
	To the depth of 450< x < 600 cm	m^3
	To the depth of 600 < x < 750 cm	m^3
	To the depth of 750< x < 900 cm	m^3
	To the depth of 900 < x < 1150 cm	m^3
1.5	**Trench and pit excavation in ordinary soil (manual)**	
1	To the depth of not exceeding 150 cm	m^3
2	To the depth of 150< x < 300 cm	m^3
3	To the depth of 300 < x < 450 cm	m^3
1.6	**Trench and pit excavation in soft soil (manual)**	
1	To the depth of not exceeding 150 cm	m^3
2	To the depth of 150< x < 300 cm	m^3
3	To the depth of 300 < x < 450 cm	m^3
1.7	**Pit excavation in hard soil (manual)**	
1	To the depth of not exceeding 150 cm	m^3
2	To the depth of 150< x < 300 cm	m^3
3	To the depth of 300 < x < 450 cm	m^3
1.80	**Trench excavation in hard soil (manual)**	
1	To the depth of not exceeding 150 cm	m^3
2	To the depth of 150< x < 300 cm	m^3
3	To the depth of 300 < x < 450 cm	m^3
1.9	**Bulk excavation in ordinary soil (with Hydrolic Excavator 2.68m3 cap.)**	
1	To the depth of not exceeding 150 cm	m^3
2	To the depth of 150< x < 300 cm	m^3
3	To the depth of 300 < x < 450 cm	m^3
	To the depth of 450< x < 600 cm	m^3
	To the depth of 600 < x < 750 cm	m^3
	To the depth of 750< x < 900 cm	m^3
	To the depth of 900 < x < 1150 cm	m^3
1.10	**Bulk excavation in boulder/drilled & blated rock**	
1	To the depth of not exceeding 150 cm	m^3
2	To the depth of 150< x < 300 cm	m^3
3	To the depth of 300 < x < 450 cm	m^3
4	To the depth of 450< x < 600 cm	m^3
5	To the depth of 600 < x < 750 cm	m^3
6	To the depth of 750< x < 900 cm	m^3
7	To the depth of 900 < x < 1150 cm	m^3
1.11	**Pit & Trench excavation in ordinary soil(with Hydrolic Excavator 0.96m3 cap.)**	
1	To the depth of not exceeding 150 cm	m^3
2	To the depth of 150< x < 300 cm	m^3
3	To the depth of 300 < x < 450 cm	m^3
4	To the depth of 450< x < 600 cm	m^3
5	To the depth of 600 < x < 750 cm	m^3
6	To the depth of 750< x < 900 cm	m^3
7	To the depth of 900 < x < 1150 cm	m^3
1.12	**Pit & Trench excavation in boulder/drilled &blasted rock**	
1	To the depth of not exceeding 150 cm	m^3
2	To the depth of 150< x < 300 cm	m^3
3	To the depth of 300 < x < 450 cm	m^3
1.13	**Back fill by hand**	
1.14	**Spread & compact in 150mm layer**	

Item No.	DESCRIPTION	UNIT
1.15	**Hauling surplus excavated materia 12.3m3 dump truck /በቁፋሮ የተገኘን ትርፍ አፈር ማንሳት/**	
1	Ditto but 2 km away	m^3
2	Ditto but 4 km away	m^3
3	Ditto but 6 km away	m^3
4	Ditto but 8 km away	m^3
2A	**CONCRETE WORK**	
	A- SUB-STRUCTURE	
1	In footing and mat foundation	m^3
2	in 500m thick mat slab	m^2
3	In grade beam	m^3
4	In ground slab /10cm thick /	m^2
5	In ground slab /17cm thick /	m^2
6	In ground slab /18cm thick /	m^2
7	In foundatin column	m^3
8	In shear wall and lift shaft	m^3
9	In stair cases	m^3
1	In footing and mat foundation	m^3
2	in 500m thick mat slab	m^2
3	In grade beam	m^3
4	In ramp beam	m^3
5	In 18cm thick ramp slab	m^2
6	In ground floor slab /10cm thick /	m^2
7	In ground floor slab /17cm thick /	m^2
8	In ground floor slab /18cm thick /	m^2
9	In foundation column	m^3
10	In shear wall and lift shaft	m^3
11	In stair cases	m^3
1	In ground slab footing and mat foundation	m^3
2	In grade beam	m^3
3	In ground floor slab /10cm thick /	m^2
3	In foundation column	m^3
4	In shear wall and lift shaft	m^3
5	In stair cases	m^3
3	**STEEL REINFORCEMENT**	
	SUB STRUCTURE	
1	Diameter 6 mm plain bar	Kg
2	Diameter 8 mm deformed bar	Kg
3	Diameter 10 mm deformed bar	Kg
4	Diameter 12 mm deformed bar	Kg
5	Diameter 14 mm deformed bar	Kg
6	Diameter 16 mm deformed bar	Kg
7	Diameter 20 mm deformed bar	Kg
8	Diameter 24 mm deformed bar	Kg
9	Diameter 30 mm deformed bar	Kg
9	Diameter 32 mm deformed bar	Kg
4	**FORM WORK**	
	A- SUB STRUCTURE	
1	To footing and mat foundation	m^2
2	To sub grade beam	m^2
3	To foundation column	m^2
4	To shear wall, lift shaft and stair case	m^2
5	To suspended slab	m^2
2 B	**CONCRETE WORK**	
	SUPPER STRUCTURE (on Ground floor)	
1	In elevation column	m^3
2	In beams and lintels	m^3
3	In suspended slab (15cm thick)	m^2
4	In shear wall and lift shaft, parapet and canopy	m^3
5	In stair cases	m^3
1	In elevation column	m^3
2	In beams and lintels	m^3
3	In suspended slab (15cm thick)	m^2
4	In suspended slab (17cm thick)	m^2

Item No.	DESCRIPTION	UNIT
5	In suspended slab (18cm thick)	m^2
6	In shear wall and lift shaft, parapet and canopy	m^3
7	In stair cases	m^3
8	in R.Concrete gutter (10cm thick)	m^2
9	in 180mm thick roof slab	m^2
1	In elevation column	m^3
2	In beams and lintels	m^3
3	In suspended slab (15cm thick)	m^2
4	In shear wall and lift shaft, parapet and canopy	m^3
5	In stair cases	m^3
7	Ribbed slab for suspended floor slab made of 60mm thick	m^2
8	Ribbed slab for suspended floor slab made of 80mm thick	m^2
3	**STEEL REINFORCEMENT (on Ground floor)**	
	SUPER STRUCTURE	
1	Diameter 6 mm plain bar	Kg
2	Diameter 8 mm deformed bar	Kg
3	Diameter 10 mm deformed bar	Kg
4	Diameter 12 mm deformed bar	Kg
5	Diameter 14 mm deformed bar	Kg
6	Diameter 16 mm deformed bar	Kg
7	Diameter 20 mm deformed bar	Kg
8	Diameter 24 mm deformed bar	Kg
9	Diameter 30 mm deformed bar	Kg
9	Diameter 32 mm deformed bar	Kg
4	**FORM WORK (on Ground floor)**	
	B - SUPER STRUCTURE	
1	To elevation column	m^2
2	To beams and lintels	m^2
3	To lift shaft, stair case, and parapet	m^2
4	To suspended slab, ribbed slab and canopy	m^2
	Scaffolder	
1	Scaffoldings tubular steel 1 to 5 Stories	m^2
2	Scaffoldings tubular steel 6 to 12 Stories	m^2
3	Scaffoldings tubular steel 13 to 20 Stories	m^2
2 C	**CONCRETE WORK**	
	SUPPER STRUCTURE (From 1st - 3rd Floor with Wrinch)	
1	Concrete elevation column up to 30cm thick	m^3
2	Concrete elevation column 30cm - 45cm thick	m^3
3	Small Elevated Concrete beam < 0.09m^2	m^3
4	Large elevated Concrete beam > 0.25m^2	m^3
5	Concrete Suspended slab < 15cm thick	m^2
6	Concrete Suspended slab 15cm to 25.5cm thick	m^2
7	Concrete Suspended slab over 25.5cm thick	m^2
8	Concrete wall /20cm thick/	m^2
9	Concrete stair case	m^3
10	Precast beam	ml
1	Concrete elevation column up to 30cm thick	m^3
2	Concrete elevation column 30cm - 45cm thick	m^3
3	Small Elevated Concrete beam < 0.09m^2	m^3
4	Large elevated Concrete beam > 0.25m^2	m^3
5	Concrete Suspended slab < 15cm thick	m^2
6	Concrete Suspended slab 15cm to 25.5cm thick	m^2
7	Concrete Suspended slab over 25.5cm thick	m^2
8	Concrete wall /20cm thick/	m^3
9	Concrete stair case	m^3
1	Concrete elevation column up to 30cm thick	m^3
2	Concrete elevation column 30cm - 45cm thick	m^3
3	Small Elevated Concrete beam < 0.09m^2	m^3
4	Large elevated Concrete beam > 0.25m^2	m^3
5	Concrete Suspended slab < 15cm thick	m^2
6	Concrete Suspended slab 15cm to 25.5cm thick	m^2
7	Concrete Suspended slab over 25.5cm thick	m^2
8	Concrete wall /20cm thick/	m^3
9	Concrete stair case	m^3

Item No.	DESCRIPTION	UNIT
3	**STEEL REINFORCEMENT**	
	SUPER STRUCTURE (From 1st - 3rd floor)	
1	Diameter 6 mm plain bar	Kg
2	Diameter 8 mm deformed bar	Kg
3	Diameter 10 mm deformed bar	Kg
4	Diameter 12 mm deformed bar	Kg
5	Diameter 14 mm deformed bar	Kg
6	Diameter 16 mm deformed bar	Kg
7	Diameter 20 mm deformed bar	Kg
8	Diameter 24 mm deformed bar	Kg
9	Diameter 30 mm deformed bar	Kg
9	Diameter 32 mm deformed bar	Kg
4	**FORM WORK**	
	SUPER STRUCTURE (From 1st - 3rd floor)	
1	To elevation column	m^2
2	To beams and lintels	m^2
3	To slab	m^2
4	To concrete walls,Lift shaft,Stair case,Landing and Parapet	m^2
6	To Canopy	m^2
2 D	**CONCRETE WORK**	
	SUPPER STRUCTURE (From 4th - 7th Floor with Crane/Lift)	
1	Concrete elevation column up to 30cm thick	m^3
2	Concrete elevation column 30cm - 45cm thick	m^3
3	Small Elevated Concrete beam < 0.09m^2	m^3
4	Large elevated Concrete beam > 0.25m^2	m^3
5	Concrete Suspended slab < 15cm thick	m^2
6	Concrete Suspended slab 15cm to 25.5cm thick	m^2
7	Concrete Suspended slab over 25.5cm thick	m^2
8	Concrete wall /20cm thick/	m^3
9	Concrete stair case	m^3
1	Concrete elevation column up to 30cm thick	m^3
2	Concrete elevation column 30cm - 45cm thick	m^3
3	Small Elevated Concrete beam < 0.09m^2	m^3
4	Large elevated Concrete beam > 0.25m^2	m^3
5	Concrete Suspended slab < 15cm thick	m^2
6	Concrete Suspended slab 15cm to 25.5cm thick	m^2
7	Concrete Suspended slab over 25.5cm thick	m^2
8	Concrete wall /20cm thick/	m^3
9	Concrete stair case	m^3
1	Concrete elevation column up to 30cm thick	m^3
2	Concrete elevation column 30cm - 45cm thick	m^3
3	Small Elevated Concrete beam < 0.09m^2	m^3
4	Large elevated Concrete beam > 0.25m^2	m^3
5	Concrete Suspended slab < 15cm thick	m^2
6	Concrete Suspended slab 15cm to 25.5cm thick	m^2
7	Concrete Suspended slab over 25.5cm thick	m^2
8	Concrete wall /20cm thick/	m^3
9	Concrete stair case	m^3
3	**STEEL REINFORCEMENT**	
	SUPER STRUCTURE (From 4th - 7th floor)	
1	Diameter 6 mm plain bar	Kg
2	Diameter 8 mm deformed bar	Kg
3	Diameter 10 mm deformed bar	Kg
4	Diameter 12 mm deformed bar	Kg
5	Diameter 14 mm deformed bar	Kg
6	Diameter 16 mm deformed bar	Kg
7	Diameter 20 mm deformed bar	Kg
8	Diameter 24 mm deformed bar	Kg
9	Diameter 30 mm deformed bar	Kg
9	Diameter 32 mm deformed bar	Kg
4	**FORM WORK**	
	B - SUPER STRUCTURE (From 4th - 7th floor)	
1	To elevation column	m^2

Item No.	DESCRIPTION	UNIT
2	To beams and lintels	m^2
3	To slab	m^2
4	To concrete walls,Lift shaft,Stair case,Landing and Parapet	m^2
6	To Canopy	m^2
2 E	**CONCRETE WORK**	
	B -4 - SUPPER STRUCTURE (From 8th -12th Floor with pump/Lift)	
1	Concrete elevation column up to 30cm thick	m^3
2	Concrete elevation column 30cm - 45cm thick	m^3
3	Small Elevated Concrete beam < 0.09m^2	m^3
4	Large elevated Concrete beam > 0.25m^2	m^3
5	Concrete Suspended slab < 15cm thick	m^2
6	Concrete Suspended slab 15cm to 25.5cm thick	m^2
7	Concrete Suspended slab over 25.5cm thick	m^2
8	Concrete wall /20cm thick/	m^3
9	Concrete stair case	m^3
1	Concrete elevation column up to 30cm thick	m^3
2	Concrete elevation column 30cm - 45cm thick	m^3
3	Small Elevated Concrete beam < 0.09m^2	m^3
4	Large elevated Concrete beam > 0.25m^2	m^3
5	Concrete Suspended slab < 15cm thick	m^2
6	Concrete Suspended slab 15cm to 25.5cm thick	m^2
7	Concrete Suspended slab over 25.5cm thick	m^2
8	Concrete wall /20cm thick/	m^3
9	Concrete stair case	m^3
1	Concrete elevation column up to 30cm thick	m^3
2	Concrete elevation column 30cm - 45cm thick	m^3
3	Small Elevated Concrete beam < 0.09m^2	m^3
4	Large elevated Concrete beam > 0.25m^2	m^3
5	Concrete Suspended slab < 15cm thick	m^2
6	Concrete Suspended slab 15cm to 25.5cm thick	m^2
7	Concrete Suspended slab over 25.5cm thick	m^2
8	Concrete wall /20cm thick/	m^3
9	Concrete stair case	m^3
3	**STEEL REINFORCEMENT**	
	SUPER STRUCTURE (From 8th - 12th floor)	
1	Diameter 6 mm plain bar	Kg
2	Diameter 8 mm deformed bar	Kg
3	Diameter 10 mm deformed bar	Kg
4	Diameter 12 mm deformed bar	Kg
5	Diameter 14 mm deformed bar	Kg
6	Diameter 16 mm deformed bar	Kg
7	Diameter 20 mm deformed bar	Kg
8	Diameter 24 mm deformed bar	Kg
9	Diameter 30 mm deformed bar	Kg
9	Diameter 32 mm deformed bar	Kg
4	**FORM WORK**	
	B - SUPER STRUCTURE (From 8th - 12th floor)	
1	To elevation column	m^2
2	To beams and lintels	m^2
3	To slab	m^2
4	To concrete walls,Lift shaft,Stair case,Landing and Parapet	m^2
6	To Canopy	m^2
5	**MASONARY WORK**	
5.1	**Stone foundation**	
6	**Block and Brick work**	
7	**Roofing**	
7.1	**Different type of roof cover**	
1	G-35 C.I.S roof cover	m^2
2	G-32 C.I.S roof cover	m^2
3	G-28 C.I.S roof cover	m^2
4	Aspesto roof cover	m^2
5	Euro tile roof cover	m^2
6	Grass roof cover	m^2

Item No.	DESCRIPTION	UNIT
7	*Mica roof cover*	m^2
8	*Sheet metal roof cover*	m^2
9	*G-32 C.I.S roof cover including euca. Truss , zigba prlin & roof ridge*	m^2
10	EGA roof coover including 50x50x3mm RHS Truss upper & lower chord & 30x30x2.5mm RHS truss diagonal members & 25x25x2.5mm RHS purlin	m^2
11	CIS cladding for decorating roof prlin **/የጣራ ቆርቆሮ ፐርሊን ጌጥ/**	m^2
12	Tsid Timber cladding1cm for decorating roof purlin **/የጣራ ጣውላ ፐርሊን ጌጥ/**	m^2
7.2	**EGA roof coover the price includes J-bolt**	
7.2.1	**Galvanized EGA 300 roof cover**	
1	*0.30 mm thick*	m^2
2	*0.35 mm thick*	m^2
3	*0.40 mm thick*	m^2
4	*0.50 mm thick*	m^2
5	*0.60 mm thick*	m^2
6	*0.70 mm thick*	m^2
7	*0.80 mm thick*	m^2
8	*1.00 mm thick*	m^2
7.2.2	**Galvanized EGA 400 roof cover**	
1	*0.30 mm thick*	m^2
2	*0.35 mm thick*	m^2
3	*0.40 mm thick*	m^2
4	*0.50 mm thick*	m^2
5	*0.60 mm thick*	m^2
6	*0.70 mm thick*	m^2
7	*0.80 mm thick*	m^2
8	*1.00 mm thick*	m^2
7.2.3	**Galvanized EGA 500 roof cover**	
1	*0.30 mm thick*	m^2
2	*0.35 mm thick*	m^2
3	*0.40 mm thick*	m^2
4	*0.50 mm thick*	m^2
5	*0.60 mm thick*	m^2
6	*0.70 mm thick*	m^2
7	*0.80 mm thick*	m^2
8	*1.00 mm thick*	m^2
7.2.4	**Galvanized EGA 600 roof cover**	
7	*G- 28 of devt. Length 67 cm*	*ml*
7.4	**Galvanized steel rectangular down pipe /አሸንዳ/**	
4	*Concrete gutter Dev. Length*	*m2*
7.6	**Galvanized steel flashing**	
1	*G-30 deve.length 50cm*	*ml*
2	*G-30 deve.length 67cm*	*ml*
3	*G-30 deve.length 100cm*	*ml*
4	*G-28 deve.length 50cm*	*ml*
5	*G-28 deve.length 67cm*	*ml*
6	*G-28 deve.length 100cm*	*ml*
7.7	**Galvanized steel copping**	
1	*G-28 deve.length 25cm*	*ml*
2	*G-30 deve.length 25cm*	*ml*
3	*G-28 deve.length 33cm*	*ml*
4	*G-30 deve.length 33cm*	*ml*
5	*G-28 deve.length 50cm*	*ml*
6	*G-30 deve.length 50cm*	*ml*
7.8	**Galvanized steel roof ridge**	
1	*G-28 deve.length 33cm*	*ml*
2	*G-30 deve.length 33cm*	*ml*
3	*G-28 deve.length 50cm*	*ml*
4	*G-30 deve.length 50cm*	*ml*
8	**CARPENTRY AND JOINERY**	
1	*8mm thick chip wood ceiling*	m^2
2	*Abujedy ceiling*	m^2
4	*PVC ceiling*	m^2
5	*Parquet ceiling*	m^2
7	*Purline ceiling/ /ቆርቆሮ ኮርኒስ/*	m^2

Item No.	DESCRIPTION	UNIT
8	Playwood ceiling /Compersato /	m²
11	Ceiling made with sack /ጆንያ ኮርኒስ/	m²
8.3	**Wooden Truss Members**	
1	Diam. 10-12 cm thick eucalyptus truss upper and lower chord	ml
2	Diam. 8-10 cm thick eucalyptus truss diagonal and vertical member	ml
3	Diam. 6 cm thick eucalyptus purline	ml
4	Diam. 5x7 cm thick local machine sawn pine purline	ml
5	Diam. 5x7 cm thick Imported sawn pine purline	ml
8.4	**Wooden door**	
3	Smooth MDF board made imported wooden door	m²
7	3cm thick timber door /ፐርሊን ጣውላ በር መስታወት የሌለው /	m²
8.5	**Cupboard**	
1	Woyra ply wood flush wooden built in cupboard (standard version)	m²
2	Antique built incupboard (best quality)	m²
8.6	**Kitchen Cabinet**	
4	PVC made Kitchen Cabinet (upper) (best quality)	m²
5	PVC made Kitchen Cabinet (lower) (best quality)	m²
6	Laminated Kitchen Cabinet (upper) (best quality)	m²
7	Laminated Kitchen Cabinet (lower) (best quality)	m²
8	Solid wood Kitchen Cabinet (upper) (best quality)	m²
9	Solid wood Kitchen Cabinet (lower) (best quality)	m²
10	**METAL WORK AND STEEL STRUCTURE**	
10.1	**38mm LTZ Door & Window**	
1	38 mm LTZ metal window with 4mm clear glass with grill /100x150cm/	ps
2	38 mm LTZ metal profile window with grill	m²
3	38 mm LTZ metal window with4mm clear glass with out grill /100x150cm/	ps
4	38 mm LTZ metal profile window with out grill	m²
16	RHS door half covered with glass & half covered with sheet metal /ቱቦላሬ ግማሽ መስታወት እና ግማሽ ላሜራ በር /	pcs
20	Shutter Door & Window	m²
21	Main gate door / ዋና የጊቢ በር ባለ ጌጥ/	m²
	Alluminium Door and window with 6mm clear glass and necessary accessaries with installation	m²
10.3	**Steel structure**	
A	**RHS Truss Members**	
1	50x50x3mm RHS Truss upper & lower chord	ml
2	30x30x2.5mm RHS Truss diagonal & vertical member	ml
3	25 x25 x2.5mm RHS Purlin	ml
4	40x40x2.5mm RHS Truss upper & lower chord	ml
5	80 x80 x 3mm RHS Purlin	ml
6	70 x50 x 3mm RHS Purlin	ml
B	**RHS Truss Members**	
1	Mounting & fixing light structure steel truss	kg
2	Mounting & fixing medium structure steel truss	kg
3	Mounting & fixing steel purline	kg
4	Supply & fixing Angle iron	ml
5	Supply & fixing Metal plate with four J-bolt	pc
6	Supply & fixing Metal plate	pc
11	**FINISHING**	
12	**GLAZING**	
18	Fixing 5mm thick wired glass in metal door & window frames	m²
13	**PAINTING**	
1	Two coats of plastic emulsion paint to internal plastered wall	m²
2	Three coats of plastic emulsion paint to internal plastered wall	m²
3	Three coats of plastic emulsion paint to external plastered wall	m²
4	Three coats of plastic emulsion paint to tyrolean rendered external wall	m²
5	Three coats of plastic emulsion paint to plastered soffit	m²
6	Three coats of plastic emulsion paint to chip wood ceiling surface	m²
7	Three coats of plastic emulsion paint to fyzit ceiling surface	m²
8	Three coats of plastic emulsion paint to abujedid ceiling surface	m²
9	Three coats of synthetic enamel paint to internal plastered wall	m²
10	Three coats of synthetic enamel paint to external plastered wall	m²
11	One coats of antirusttwo coats of synthetic enamel paint to KAS ribbed sheet soffit	m²

Item No.	DESCRIPTION	UNIT
12	One coats of antirusttwo coats of synthetic enamel paint to metal surface	m²
13	Three coats of alkyd varnish paint to wooden vertical surface	m²
14	Three coats of alkyd varnish paint to wooden soffit	m²
15	Two coats of alkyd varnish paint to wooden vertical surface	m²
16	Two coats of alkyd varnish paint to wooden soffit	m²
17	Two coats of Antirus paint to G C I Sheet and EGA roof cover	m²
18	Two coats of Mica paint to internal plastered surface	m²
19	Three coats of Mica paint to internal plastered surface	m²
20	Three coats of Mica paint to external plastered surface	m²
21	Three coats of Mica paint to tyrolean rendered surface	m²
22	Three coats of Mica paint to chip wood ceiling	m²
23	Three coats of Mica paint to plastered soffit	m²
24	Two coats of special aluminum paint to metal vertical surfaces	m²
2	White vitreous china soap holder economy version	No.
14.7	**Toilet paper holder**	
2	Dia.50 mm brass plated floor drain low quality	NO.
6	Pit latrin no stone masonary /መናኛ የአፈር ጉድጓድ መፀደጃ ጣውላከዳን /	No.
7	Pit latrin with stone masonary /መናኛ የግንብ ጉድጓድ መፀደጃ ጣውላከዳን /	No.
8	Stone masonary septic tank with RC Slab 300x300x300cm (በግንብ የተሰራ ጉድጓድ መፀዳጃ ኮንክሪት ክዳን)	No.
16.1	KWHm Board (by EEPCo)	
1	1 pcs KWHm; 20/60A-1P 11 KW	No.
2	1 pcs KWHm; 10/30A-1P 7 KW	No.
3	1 pcs KWHm; 15/30A-3P 15 KW	No.
4	1 pcs KWHm; 30/60A-3P 20 KW	No.
5	S/100 A/R 28KW - 45KW	No.
1	Light fitting RZB 91163.00x with accessories	pc
2	Light fitting RZB 34500.200x with accessories	pc
7	Flourescent MODUSE I 418 ALDP or equivalent 4x18w lenear flourescent lamp T8 with G13 base	pc

UNIT PRICE
56.33
311.03
5.83
7.49
10.49
11.65
7.49
52.43
52.43
3.82
428.98
7.46
9.60
13.43
14.93
9.60
67.17
67.17
4.71
527.20
9.10
11.70
16.38
18.20
11.70
81.90
81.90
5.30
821.88
12.37
15.91
22.27
24.75
15.91
96.63
96.63
5.89
920.11
15.65
20.12
28.17
31.30
20.12
140.84
140.84
7.07
215.03
76.63
86.62
94.87
99.61
104.86
110.68

UNIT PRICE
131.61
148.06
200.35
245.14
278.39
309.32
347.99
263.44
329.30
526.88
774.64
1161.96
2323.92
2582.13
152.47
110.81
152.36
175.63
219.54
272.15
292.71
376.35
658.61
376.35
526.88
878.14
27.22
27.68
32.67
40.33
50.26
61.64
77.78
122.99
166.20
219.63
279.52
341.64
439.25
473.04
52.80
56.57
69.88
81.93
91.38
99.00
108.00
122.77
175.39
266.89

UNIT PRICE
62.48
72.71
90.51
101.50
919.96
459.98
936.15
90.44
153.75
162.80
995.85
1037.64
2181.62
2656.40
444.29
2875.62
951.82
163.58
88.86
151.06
159.94
979.99
1012.90
920.29
845.90
891.40
86.00
944.98
976.73
891.40
1.74
1.73
1.73
1.26
1.26
1.26
1.18
1.18
1.10
1.10
189.08
185.05
270.03
278.26
295.90
1316.83
1055.62
149.99
1015.45
936.16
1200.08
979.99
139.99
158.61

UNIT PRICE
167.76
999.58
921.17
71.47
125.65
1178.32
230.68
136.83
978.51
899.22
131.01
145.79
2.11
1.86
1.86
1.42
1.42
1.42
1.33
1.33
1.28
1.28
304.53
217.19
320.98
325.68
20.52
25.89
26.75
1328.40
1153.07
354.17
1099.04
97.14
187.17
231.64
987.01
964.55
116.44
2345.31
1134.08
1272.60
1080.81
95.36
183.66
227.16
969.58
939.28
1287.17
1113.00
1251.52
1059.74
93.26
179.45
226.22
948.51
918.21

UNIT PRICE
3.57
27.92
27.92
27.85
27.85
27.85
27.68
27.68
27.14
27.14
313.74
354.27
305.26
312.09
316.89
2286.73
2085.98
2244.90
2026.40
188.83
370.07
468.76
1905.58
1872.87
2400.19
2198.77
2358.21
2138.97
199.95
294.22
497.65
2016.71
1984.00
2477.85
2276.42
2435.87
2227.11
207.71
305.87
522.53
2094.37
2061.66
32.47
29.38
29.38
28.39
28.39
28.39
28.26
28.26
28.09
28.09
329.39

UNIT PRICE
371.82
309.16
322.10
322.16
2204.79
2035.19
2309.87
1824.25
197.84
381.60
492.85
2046.01
1995.74
2602.14
2355.53
2721.12
2439.68
206.02
399.41
516.23
2114.53
2106.86
2692.47
2433.19
2848.57
2453.34
213.79
414.94
543.44
2192.19
2184.52
34.53
31.13
31.13
29.50
29.50
29.50
29.17
29.17
29.03
29.03
338.87
382.01
317.82
340.83
330.82
108.04
140.93
167.84
253.02
264.98
100.31

UNIT PRICE
156.01
215.81
237.17
1653.41
246.23
316.36
150.41
167.29
184.18
217.94
251.70
285.46
319.23
352.99
154.36
171.90
189.44
224.52
224.52
388.40
329.75
364.83
163.25
182.27
392.85
377.01
439.15
504.15
569.15
634.16
255.64
130.31
156.46
181.88
148.51
178.42
236.48
73.78
63.42
85.94
74.27
114.99
97.31
84.04
72.37
113.09
113.09
320.70
167.78
431.88
674.00
252.61

UNIT PRICE
202.51
157.52
26.36
32.24
18.04
41.82
55.69
4039.04
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2419.82
2997.62
2419.82
2419.82
2997.62
2997.62
3575.42
3575.42
32495.99
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#NAME?
#NAME?
#NAME?
#NAME?
#NAME?
#NAME?
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335.82
485.26
663.53
550.11
493.28
50.14
44.59
41.72
85.62
375.49
93.53
#NAME?
#NAME?
133.94
1239.47
#NAME?
153.78
#NAME?
#NAME?
#NAME?
#NAME?
#NAME?
#NAME?

UNIT PRICE
#NAME?
#NAME?
#NAME?
#NAME?
#NAME?
#NAME?
#NAME?
#NAME?
#NAME?
#NAME?
#NAME?
#NAME?
#NAME?
27.33
110.71
8,150.42
16,782.57
16,139.45
6000.00
1500.00
45000.00
55000.00
80000.00
390.73
593.34
1262.14

ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT: A ***Demolishing Work of different structures***
WORK ITEM: (1) ***Concrete Structures*** ***(From 1st -3rd floor)*** EQUIPEMENT: Manual
TOTAL QANTITY OF WORK ITEM: 1 m^3 RESULT: **428.98**

Material Cost (1:01)					Labour Cost (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
					DL	7	1	6.38	44.625	Tools
					Foreman	1	0.25	23.75	5.94	
Total (1:-01)					**Total (1:02)**				50.5625	**Tota**

A= Materials Unit Cost **0** Birr/m^3 B= Manpower Unit Cost **337.083** 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 = **371.22**
Over head cost : 8% 29.70
Profit Cost: 7% 28.06
Total Unit Cost : **428.98**

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: A ***Demolishing Work of different structures*** LABOUR HOURLY OUTPUT:
WORK ITEM: (1.3.2) ***10cm thick HCB Structure*** ***(From 1st -3rd floor)*** EQUIPEMENT: output
TOTAL QANTITY OF WORK ITEM: 1 m^3 RESULT: **7.46**

Material Cost (1:01)					Labour Cost (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
					DL	5	1	6.38	31.88	Tools
					Chiseler	2	1	8.88	17.75	
					Foreman	1	0.25	23.75	5.94	
Total (1:-01)					**Total (1:02)**				55.56	**Tota**

A= Materials Unit Cost **0** Birr/m^2 B= Manpower Unit Cost **6.17361** Birr/m^2 C= Equipment Unit Cost
Total of (1:02) Total of (1:03)
Hourly Output: Hourly output:
Direct Cost of Work Item = A+B+C = **6.46**
Over head cost : 8% 0.52
Profit Cost: 7% 0.49
Total Unit Cost : **7.46**

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: A ***Demolishing Work of different structures*** LABOUR HOURLY OUTPUT:
WORK ITEM: (1.3.2) ***15cm thick HCB Structure*** ***(From 1st -3rd floor)*** EQUIPEMENT: output

_____ Data collested by _____ Prepared checked by _____ Approved by

TOTAL QANTITY OF WORK ITEM: 1 m³ RESULT: **9.60**

Material Cost (1:01)					Labour Cost (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
					DL	5	1	6.38	31.88	Tools
					Chiseler	2	1	8.88	17.75	
					Foreman	1	0.25	23.75	5.94	
Total (1:-01)					**Total (1:02)**				55.56	**Tota**

A= Materials Unit Cost **0** Birr/m² B= Manpower Unit Cost **7.9375** Birr/m² C= Equipment Unit Cost

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

Hourly Output: Hourly output:

Direct Cost of Work Item = A+B+C = **8.30**

Over head cost : 8% 0.66

Profit Cost: 7% 0.63

Total Unit Cost : **9.60**

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: A ***Demolishing Work of different structures*** LABOUR HOURLY OUTPUT:

WORK ITEM: (1.3.2) ***20cm thick HCB Structure*** ***(From 1st -3rd floor)*** EQUIPEMENT: output

TOTAL QANTITY OF WORK ITEM: 1 m³ RESULT: **13.43**

Material Cost (1:01)					Labour Cost (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
					DL	5	1	6.38	31.88	Tools
					Chiseler	2	1	8.88	17.75	
					Foreman	1	0.25	23.75	5.94	
Total (1:-01)					**Total (1:02)**				55.56	**Tota**

A= Materials Unit Cost **0** Birr/m² B= Manpower Unit Cost **11.1125** Birr/m² C= Equipment Unit Cost

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

Hourly Output: Hourly output:

Direct Cost of Work Item = A+B+C = **11.62**

Over head cost : 8% 0.93

Profit Cost: 7% 0.88

Total Unit Cost : **13.43**

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: A ***Demolishing Work of different structures*** LABOUR HOURLY OUTPUT:

WORK ITEM: (1.3.2) ***Terrazzo floor*** ***(From 1st -3rd floor)*** EQUIPEMENT: output

TOTAL QANTITY OF WORK ITEM: 1 m³ RESULT: **14.93**

Material Cost (1:01)					Labour Cost (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
					Chiseler	2	1	8.88	17.75	Tools

					D/L	5	1	6.38	31.88	
					Foreman	1	0.25	23.75	5.9375	
Total (1:-01)					**Total (1:02)**				55.56	**Tota**

A= Materials Unit Cost **0** Birr/m² B= Manpower Unit Cost **12.3472** Birr/m² C= Equipment Unit Cost

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

Hourly Output: Hourly output:

Direct Cost of Work Item = A+B+C = **12.92**

Over head cost : 8% 1.03

Profit Cost: 7% 0.98

Total Unit Cost : **14.93**

Remark _____

UF: UTILIZATION FACTOR

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ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT: A ***Demolishing Work of different structures*** LABOUR HOURLY OUTPUT:

WORK ITEM: (1.3.2) ***Cement screed floor*** ***(From 1st -3rd floor)*** EQUIPEMENT: output

TOTAL QANTITY OF WORK ITEM: 1 m³ RESULT: **9.60**

Material Cost (1:01)					Labour Cost (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
					Chiseler	2	1	8.88	17.75	Tools
					D/L	5	1	6.38	31.88	
					Foreman	1	0.25	23.75	5.94	
Total (1:-01)					**Total (1:02)**				55.56	**Tota**

A= Materials Unit Cost **0** Birr/m² B= Manpower Unit Cost **7.9375** Birr/m² C= Equipment Unit Cost

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

Hourly Output: Hourly output:

Direct Cost of Work Item = A+B+C = **8.30**

Over head cost : 8% 0.66

Profit Cost: 7% 0.63

Total Unit Cost : **9.60**

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: A ***Demolishing Work of different structures*** LABOUR HOURLY OUTPUT:

WORK ITEM: (1.3.2) ***30x120x3cm thick marble tread*** ***(From 1st -3rd floor)*** EQUIPEMENT: output

TOTAL QANTITY OF WORK ITEM: 1 m³ RESULT: **67.17**

Material Cost (1:01)					Labour Cost (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
					Chiseler	2	1	8.88	17.75	Tools
					D/L	5	1	6.38	31.88	
					Foreman	1	0.25	23.75	5.94	

_____ Data collested by _____ Prepared checked by _____ Approved by

Total (1:-01)					**Total (1:02)**				55.56	**Tota**

A= Materials Unit Cost **0** Birr/m² B= Manpower Unit Cost **55.5625** Birr/m² C= Equipment Unit Cost

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

Hourly Output: Hourly output:

Direct Cost of Work Item = A+B+C = **58.12**

Over head cost : 8% 4.65

Profit Cost: 7% 4.39

Total Unit Cost : **67.17**

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: A ***Demolishing Work of different structures*** LABOUR HOURLY OUTPUT:

WORK ITEM: (1.3.2) ***15x120x3cm thick marble riser*** ***(From 1st -3rd floor)*** EQUIPEMENT: output

TOTAL QANTITY OF WORK ITEM: 1 pc RESULT: **67.17**

Material Cost (1:01)					Labour Cost (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
					Chiseler	2	1	8.88	17.75	Tools
					D/L	5	1	6.38	31.88	
					Foreman	1	0.25	23.75	5.94	
Total (1:-01)					**Total (1:02)**				55.56	**Tota**

A= Materials Unit Cost **0** Birr/m² B= Manpower Unit Cost **55.5625** Birr/pc C= Equipment Unit Cost

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

Hourly Output: Hourly output:

Direct Cost of Work Item = A+B+C = **58.12**

Over head cost : 8% 4.65

Profit Cost: 7% 4.39

Total Unit Cost : **67.17**

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: A ***Demolishing Work of different structures***

WORK ITEM: (2) ***Steel Structure*** ***(From 1st -3rd floor)*** EQUIPEMENT output

TOTAL QANTITY OF WORK ITEM: 1 Kg RESULT: **4.71**

Material Cost (1:01)					Labour Cost (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
					Welder	2	1	14.25	28.5	Tools
					Helper	2	1	7.50	15.00	Grinder
					D/L	5	1	6.38	31.88	
					Foreman	1	0.25	23.75	5.94	
Total (1:-01)				2.75	**Total (1:02)**				81.31	**Tota**

_____ Data collested by _____ Prepared checked by _____ Approved by

A= Materials Unit Cost **0** Birr/Kg B= Manpower Unit Cost **3.2525** Birr/Kg C= Equipment Unit Cost

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

Hourly Output: Hourly output:

Direct Cost of Work Item = A+B+C = **4.07**

Over head cost : 8% 0.33

Profit Cost: 7% 0.31

Total Unit Cost : **4.71**

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: A ***Demolishing Work of different structures***

WORK ITEM: (1) ***Concrete Structures*** ***(From 4th -7th floor)*** EQUIPEMENT: Manual

TOTAL QANTITY OF WORK ITEM: 1 m^3 RESULT: **527.20**

Material Cost (1:01)					Labour Cost (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
					DL	9	1	6.38	57.375	Tools
					Foreman	1	0.25	23.75	5.94	
Total (1:-01)					**Total (1:02)**				63.3125	**Tota**

A= Materials Unit Cost **0** Birr/m^3 B= Manpower Unit Cost **422.083** 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 = **456.22**

Over head cost : 8% 36.50

Profit Cost: 7% 34.49

Total Unit Cost : **527.20**

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: A ***Demolishing Work of different structures*** LABOUR HOURLY OUTPUT:

WORK ITEM: (1.3.2) ***10cm thick HCB Structure*** ***(From 4th -7th floor)*** EQUIPEMENT: output

TOTAL QANTITY OF WORK ITEM: 1 m^3 RESULT: **9.10**

Material Cost (1:01)					abour Cost (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
					DL	7	1	6.38	44.63	Tools
					Chiseler	2	1	8.88	17.75	
					Foreman	1	0.25	23.75	5.94	
Total (1:-01)					**Total (1:02)**				68.31	**Tota**

A= Materials Unit Cost **0** Birr/m^2 B= Manpower Unit Cost **7.59028** Birr/m^2 C= Equipment Unit Cost

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

Hourly Output: Hourly output:

Direct Cost of Work Item = A+B+C = **7.87**

Over head cost : 8% 0.63

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Profit Cost: 7% 0.60
Total Unit Cost : **9.10**

Remark _____
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ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT: A ***Demolishing Work of different structures***
WORK ITEM: (1.3.2) ***15cm thick HCB Structure*** ***(From 4th -7th floor)***
TOTAL QANTITY OF WORK ITEM: 1 m³
LABOUR HOURLY OUTPUT:
EQUIPEMENT: output
RESULT: **11.70**

Material Cost (1:01)					Labour Cost (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
					DL	7	1	6.38	44.63	Tools
					Chiseler	2	1	8.88	17.75	
					Foreman	1	0.25	23.75	5.94	
Total (1:-01)					**Total (1:02)**				68.31	**Tota**

A= Materials Unit Cost **0** Birr/m² B= Manpower Unit Cost **9.75893** Birr/m² C= Equipment Unit Cost
Total of (1:02) Total of (1:03)
Hourly Output: Hourly output:
Direct Cost of Work Item = A+B+C = **10.12**
Over head cost : 8% 0.81
Profit Cost: 7% 0.77
Total Unit Cost : **11.70**

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

ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT: A ***Demolishing Work of different structures***
WORK ITEM: (1.3.2) ***20cm thick HCB Structure*** ***(From 4th -7th floor)***
TOTAL QANTITY OF WORK ITEM: 1 m³
LABOUR HOURLY OUTPUT:
EQUIPEMENT: output
RESULT: **16.38**

Material Cost (1:01)					Labour Cost (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
					DL	7	1	6.38	44.63	Tools
					Chiseler	2	1	8.88	17.75	
					Foreman	1	0.25	23.75	5.94	
Total (1:-01)					**Total (1:02)**				68.31	**Tota**

A= Materials Unit Cost **0** Birr/m² B= Manpower Unit Cost **13.6625** Birr/m² C= Equipment Unit Cost
Total of (1:02) Total of (1:03)
Hourly Output: Hourly output:
Direct Cost of Work Item = A+B+C = **14.17**
Over head cost : 8% 1.13
Profit Cost: 7% 1.07
Total Unit Cost : **16.38**

Remark _____
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ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT: A **_Demolishing Work of different structures_**
WORK ITEM: (1.3.2) **_Terrazzo floor_** **_(From 4th -7th floor)_**
TOTAL QANTITY OF WORK ITEM: 1 m³

LABOUR HOURLY OUTPUT:
EQUIPEMENT: output
RESULT: **18.20**

Material Cost (1:01)					Labour Cost (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
					Chiseler	2	1	8.88	17.75	Tools
					D/L	7	1	6.38	44.63	
					Foreman	1	0.25	23.75	5.9375	
Total (1:-01)					**Total (1:02)**				68.31	**Tota**

A= Materials Unit Cost **0** Birr/m² B= Manpower Unit Cost **15.1806** Birr/m² C= Equipment Unit Cost
Total of (1:02) Total of (1:03)
Hourly Output: Hourly output:
Direct Cost of Work Item = A+B+C = **15.75**
Over head cost : 8% 1.26
Profit Cost: 7% 1.19
Total Unit Cost : **18.20**

Remark _____
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ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT: A **_Demolishing Work of different structures_**
WORK ITEM: (1.3.2) **_Cement screed floor_** **_(From 4th -7th floor)_**
TOTAL QANTITY OF WORK ITEM: 1 m³

LABOUR HOURLY OUTPUT:
EQUIPEMENT: output
RESULT: **11.70**

Material Cost (1:01)					Labour Cost (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
					Chiseler	2	1	8.88	17.75	Tools
					D/L	7	1	6.38	44.63	
					Foreman	1	0.25	23.75	5.94	
Total (1:-01)					**Total (1:02)**				68.31	**Tota**

A= Materials Unit Cost **0** Birr/m² B= Manpower Unit Cost **9.75893** Birr/m² C= Equipment Unit Cost
Total of (1:02) Total of (1:03)
Hourly Output: Hourly output:
Direct Cost of Work Item = A+B+C = **10.12**
Over head cost : 8% 0.81
Profit Cost: 7% 0.77
Total Unit Cost : **11.70**

Remark _____
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ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT: A **_Demolishing Work of different structures_**
WORK ITEM: (1.3.2) **_30x120x3cm thick marble tread_** **_(From 4th -7th floor)_**
TOTAL QANTITY OF WORK ITEM: 1 m³

LABOUR HOURLY OUTPUT:
EQUIPEMENT: output
RESULT: **81.90**

_____ Data collested by _____ Prepared checked by _____ Approved by

Material Cost (1:01)					Labour Cost (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
					Chiseler	2	1	8.88	17.75	Tools
					D/L	7	1	6.38	44.63	
					Foreman	1	0.25	23.75	5.94	
Total (1:-01)					**Total (1:02)**				68.31	**Tota**

A= Materials Unit Cost **0** Birr/m² B= Manpower Unit Cost **68.3125** Birr/m² C= Equipment Unit Cost

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

Hourly Output: Hourly output:

Direct Cost of Work Item = A+B+C = **70.87**

Over head cost : 8% 5.67

Profit Cost: 7% 5.36

Total Unit Cost : **81.90**

Remark _____

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ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT: A ***Demolishing Work of different structures*** LABOUR HOURLY OUTPUT:

WORK ITEM: (1.3.2) ***15x120x3cm thick marble riser*** ***(From 4th -7th floor)*** EQUIPEMENT: output

TOTAL QANTITY OF WORK ITEM: 1 pc RESULT: **81.90**

Material Cost (1:01)					Labour Cost (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
					Chiseler	2	1	8.88	17.75	Tools
					D/L	7	1	6.38	44.63	
					Foreman	1	0.25	23.75	5.94	
Total (1:-01)					**Total (1:02)**				68.31	**Tota**

A= Materials Unit Cost **0** Birr/m² B= Manpower Unit Cost **68.3125** Birr/pc C= Equipment Unit Cost

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

Hourly Output: Hourly output:

Direct Cost of Work Item = A+B+C = **70.87**

Over head cost : 8% 5.67

Profit Cost: 7% 5.36

Total Unit Cost : **81.90**

Remark _____

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ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT: A ***Demolishing Work of different structures***

WORK ITEM: (2) ***Steel Structure*** ***(From 4th -7th floor)*** EQUIPEMENT output

TOTAL QANTITY OF WORK ITEM: 1 Kg RESULT: **5.30**

Material Cost (1:01)					Labour Cost (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
					Welder	2	1	14.25	28.5	Tools

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					Helper	2	1	7.50	15.00	Grinder
					D/L	7	1	6.38	44.63	
					Foreman	1	0.25	23.75	5.94	
Total (1:-01)				2.75	**Total (1:02)**				94.06	**Tota**

A= Materials Unit Cost **0** Birr/Kg B= Manpower Unit Cost **3.7625** Birr/Kg C= Equipment Unit Cost

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

Hourly Output: Hourly output:

Direct Cost of Work Item = A+B+C = **4.58**

Over head cost : 8% 0.37

Profit Cost: 7% 0.35

Total Unit Cost : **5.30**

Remark _____

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ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT: A ***Demolishing Work of different structures***

WORK ITEM: (1) ***Concrete Structures*** ***(From 8th -12th floor)*** EQUIPEMENT: Manual

TOTAL QANTITY OF WORK ITEM: 1 m^3 RESULT: **821.88**

Material Cost (1:01)					Labour Cost (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
					DL	15	1	6.38	95.625	Tools
					Foreman	1	0.25	23.75	5.94	
Total (1:-01)					**Total (1:02)**				101.5625	**Tota**

A= Materials Unit Cost **0** Birr/m^3 B= Manpower Unit Cost **677.083** 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 = **711.22**

Over head cost : 8% 56.90

Profit Cost: 7% 53.77

Total Unit Cost : **821.88**

Remark _____

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ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT: A ***Demolishing Work of different structures*** LABOUR HOURLY OUTPUT:

WORK ITEM: (1.3.2) ***10cm thick HCB Structure*** ***(From 8th -12th floor)*** EQUIPEMENT: output

TOTAL QANTITY OF WORK ITEM: 1 m^3 RESULT: **12.37**

Material Cost (1:01)					Labour Cost (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
					DL	11	1	6.38	70.13	Tools
					Chiseler	2	1	8.88	17.75	
					Foreman	1	0.25	23.75	5.94	

_____ Data collested by _____ Prepared checked by _____ Approved by

Total (1:-01)					**Total (1:02)**				93.81	**Tota**

A= Materials Unit Cost **0** Birr/m² B= Manpower Unit Cost **10.4236** Birr/m² C= Equipment Unit Cost

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

Hourly Output: Hourly output:

Direct Cost of Work Item = A+B+C = **10.71**

Over head cost : 8% 0.86

Profit Cost: 7% 0.81

Total Unit Cost : **12.37**

Remark _____

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ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT: A ***Demolishing Work of different structures*** LABOUR HOURLY OUTPUT:

WORK ITEM: (1.3.2) ***15cm thick HCB Structure (From 8th -12th floor)*** EQUIPEMENT: output

TOTAL QANTITY OF WORK ITEM: 1 m³ RESULT: **15.91**

Material Cost (1:01)					Labour Cost (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
					DL	11	1	6.38	70.13	Tools
					Chiseler	2	1	8.88	17.75	
					Foreman	1	0.25	23.75	5.94	
Total (1:-01)					**Total (1:02)**				93.81	**Tota**

A= Materials Unit Cost **0** Birr/m² B= Manpower Unit Cost **13.4018** Birr/m² C= Equipment Unit Cost

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

Hourly Output: Hourly output:

Direct Cost of Work Item = A+B+C = **13.77**

Over head cost : 8% 1.10

Profit Cost: 7% 1.04

Total Unit Cost : **15.91**

Remark _____

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ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT: A ***Demolishing Work of different structures*** LABOUR HOURLY OUTPUT:

WORK ITEM: (1.3.2) ***20cm thick HCB Structure (From 8th -12th floor)*** EQUIPEMENT: output

TOTAL QANTITY OF WORK ITEM: 1 m³ RESULT: **22.27**

Material Cost (1:01)					Labour Cost (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
					DL	11	1	6.38	70.13	Tools
					Chiseler	2	1	8.88	17.75	
					Foreman	1	0.25	23.75	5.94	
Total (1:-01)					**Total (1:02)**				93.81	**Tota**

A= Materials Unit Cost **0** Birr/m² B= Manpower Unit Cost **18.7625** Birr/m² C= Equipment Unit Cost

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

Hourly Output: Hourly output:

Direct Cost of Work Item = A+B+C = **19.27**

Over head cost : 8% 1.54

Profit Cost: 7% 1.46

Total Unit Cost : **22.27**

Remark _____

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ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT: A ***Demolishing Work of different structures*** LABOUR HOURLY OUTPUT:

WORK ITEM: (1.3.2) ***Terrazzo floor*** ***(From 8th -12th floor)*** EQUIPEMENT: output

TOTAL QANTITY OF WORK ITEM: 1 m³ RESULT: **24.75**

Material Cost (1:01)					Labour Cost (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
					Chiseler	2	1	8.88	17.75	Tools
					D/L	11	1	6.38	70.13	
					Foreman	1	0.25	23.75	5.9375	
Total (1:-01)					**Total (1:02)**				93.81	**Tot**

A= Materials Unit Cost **0** Birr/m² B= Manpower Unit Cost **20.8472** Birr/m² C= Equipment Unit Cost

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

Hourly Output: Hourly output:

Direct Cost of Work Item = A+B+C = **21.42**

Over head cost : 8% 1.71

Profit Cost: 7% 1.62

Total Unit Cost : **24.75**

Remark _____

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ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT: A ***Demolishing Work of different structures*** LABOUR HOURLY OUTPUT:

WORK ITEM: (1.3.2) ***Cement screed floor*** ***(From 8th -12th floor)*** EQUIPEMENT: output

TOTAL QANTITY OF WORK ITEM: 1 m³ RESULT: **15.91**

Material Cost (1:01)					Labour Cost (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
					Chiseler	2	1	8.88	17.75	Tools
					D/L	11	1	6.38	70.13	
					Foreman	1	0.25	23.75	5.94	
Total (1:-01)					**Total (1:02)**				93.81	**Tot**

A= Materials Unit Cost **0** Birr/m² B= Manpower Unit Cost **13.4018** Birr/m² C= Equipment Unit Cost

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

Hourly Output: Hourly output:

Direct Cost of Work Item = A+B+C = **13.77**

Over head cost : 8% 1.10

Profit Cost: 7% 1.04

Total Unit Cost : **15.91**

Remark _____
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ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT: A ***Demolishing Work of different structures*** LABOUR HOURLY OUTPUT:
WORK ITEM: (1.3.2) ***30x120x3cm thick marble tread*** ***(From 8th -12th floor)*** EQUIPEMENT: output
TOTAL QANTITY OF WORK ITEM: 1 m³ RESULT: **96.63**

Material Cost (1:01)					Labour Cost (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
					Chiseler	2	1	8.88	17.75	Tools
					D/L	9	1	6.38	57.38	
					Foreman	1	0.25	23.75	5.94	
Total (1:-01)					**Total (1:02)**				81.06	**Tota**

A= Materials Unit Cost **0** Birr/m² B= Manpower Unit Cost **81.0625** Birr/m² C= Equipment Unit Cost
Total of (1:02) Total of (1:03)
Hourly Output: Hourly output:
Direct Cost of Work Item = A+B+C = **83.62**
Over head cost : 8% 6.69
Profit Cost: 7% 6.32
Total Unit Cost : **96.63**

Remark _____
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ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT: A ***Demolishing Work of different structures*** LABOUR HOURLY OUTPUT:
WORK ITEM: (1.3.2) ***15x120x3cm thick marble riser*** ***(From 8th -12th floor)*** EQUIPEMENT: output
TOTAL QANTITY OF WORK ITEM: 1 pc RESULT: **96.63**

Material Cost (1:01)					Labour Cost (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
					Chiseler	2	1	8.88	17.75	Tools
					D/L	9	1	6.38	57.38	
					Foreman	1	0.25	23.75	5.94	
Total (1:-01)					**Total (1:02)**				81.06	**Tota**

A= Materials Unit Cost **0** Birr/m² B= Manpower Unit Cost **81.0625** Birr/pc C= Equipment Unit Cost
Total of (1:02) Total of (1:03)
Hourly Output: Hourly output:
Direct Cost of Work Item = A+B+C = **83.62**
Over head cost : 8% 6.69
Profit Cost: 7% 6.32
Total Unit Cost : **96.63**

Remark _____
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_____ Data collested by _____ Prepared checked by _____ Approved by

ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT: A ***Demolishing Work of different structures***
WORK ITEM: (2) ***Steel Structure*** ***(From 8th -12th floor)*** EQUIPEMENT output
TOTAL QANTITY OF WORK ITEM: 1 Kg RESULT: **5.89**

Material Cost (1:01)					Labour Cost (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
					Welder	2	1	14.25	28.5	Tools
					Helper	2	1	7.50	15.00	Grinder
					D/L	9	1	6.38	57.38	
					Foreman	1	0.25	23.75	5.94	
Total (1:-01)				2.75	**Total (1:02)**				106.81	**Tota**

A= Materials Unit Cost **0** Birr/Kg B= Manpower Unit Cost **4.2725** Birr/Kg C= Equipment Unit Cost
Total of (1:02) Total of (1:03)
Hourly Output: Hourly output:
Direct Cost of Work Item = A+B+C = **5.09**
Over head cost : 8% 0.41
Profit Cost: 7% 0.39
Total Unit Cost : **5.89**

Remark _____
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ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT: A ***Demolishing Work of different structures***
WORK ITEM: (1) ***Concrete Structures*** ***(From 13th -20th floor)*** EQUIPEMENT: Manual
TOTAL QANTITY OF WORK ITEM: 1 m^3 RESULT: **920.11**

Material Cost (1:01)					Labour Cost (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
					DL	17	1	6.38	108.375	Tools
					Foreman	1	0.25	23.75	5.94	
Total (1:-01)					**Total (1:02)**				114.3125	**Tota**

A= Materials Unit Cost **0** Birr/m^3 B= Manpower Unit Cost **762.083** 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 = **796.22**
Over head cost : 8% 63.70
Profit Cost: 7% 60.19
Total Unit Cost : **920.11**

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: A ***Demolishing Work of different structures*** LABOUR HOURLY OUTPUT:
WORK ITEM: (1.3.2) ***10cm thick HCB Structure*** ***(From 13th -20th floor)*** EQUIPEMENT: output

_____ Data collested by _____ Prepared checked by _____ Approved by

TOTAL QANTITY OF WORK ITEM: 1 m³ RESULT: **15.65**

Material Cost (1:01)					Labour Cost (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
					DL	15	1	6.38	95.63	Tools
					Chiseler	2	1	8.88	17.75	
					Foreman	1	0.25	23.75	5.94	
Total (1:-01)					**Total (1:02)**				119.31	**Tota**

A= Materials Unit Cost **0** Birr/m² B= Manpower Unit Cost **13.2569** Birr/m² C= Equipment Unit Cost

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

Hourly Output: Hourly output:

Direct Cost of Work Item = A+B+C = **13.54**

Over head cost : 8% 1.08

Profit Cost: 7% 1.02

Total Unit Cost : **15.65**

Remark _____

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ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT: A ***Demolishing Work of different structures*** LABOUR HOURLY OUTPUT:

WORK ITEM: (1.3.2) ***15cm thick HCB Structure (From 13th -20th floor)*** EQUIPEMENT: output

TOTAL QANTITY OF WORK ITEM: 1 m³ RESULT: **20.12**

Material Cost (1:01)					Labour Cost (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
					DL	15	1	6.38	95.63	Tools
					Chiseler	2	1	8.88	17.75	
					Foreman	1	0.25	23.75	5.94	
Total (1:-01)					**Total (1:02)**				119.31	**Tota**

A= Materials Unit Cost **0** Birr/m² B= Manpower Unit Cost **17.0446** Birr/m² C= Equipment Unit Cost

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

Hourly Output: Hourly output:

Direct Cost of Work Item = A+B+C = **17.41**

Over head cost : 8% 1.39

Profit Cost: 7% 1.32

Total Unit Cost : **20.12**

Remark _____

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ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT: A ***Demolishing Work of different structures*** LABOUR HOURLY OUTPUT:

WORK ITEM: (1.3.2) ***20cm thick HCB Structure (From 13th -20th floor)*** EQUIPEMENT: output

TOTAL QANTITY OF WORK ITEM: 1 m³ RESULT: **28.17**

Material Cost (1:01)					Labour Cost (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

					DL	15	1	6.38	95.63	Tools
					Chiseler	2	1	8.88	17.75	
					Foreman	1	0.25	23.75	5.94	
Total (1:-01)					**Total (1:02)**				119.31	**Tota**

A= Materials Unit Cost **0** Birr/m² B= Manpower Unit Cost **23.8625** Birr/m² C= Equipment Unit Cost

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

Hourly Output: Hourly output:

Direct Cost of Work Item = A+B+C = **24.37**

Over head cost : 8% 1.95

Profit Cost: 7% 1.84

Total Unit Cost : **28.17**

Remark _____

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ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT: A ***Demolishing Work of different structures*** LABOUR HOURLY OUTPUT:

WORK ITEM: (1.3.2) ***Terrazzo floor*** ***(From 13th -20th floor)*** EQUIPEMENT: output

TOTAL QANTITY OF WORK ITEM: 1 m³ RESULT: **31.30**

Material Cost (1:01)					Labour Cost (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
					Chiseler	2	1	8.88	17.75	Tools
					D/L	15	1	6.38	95.63	
					Foreman	1	0.25	23.75	5.9375	
Total (1:-01)					**Total (1:02)**				119.31	**Tota**

A= Materials Unit Cost **0** Birr/m² B= Manpower Unit Cost **26.5139** Birr/m² C= Equipment Unit Cost

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

Hourly Output: Hourly output:

Direct Cost of Work Item = A+B+C = **27.08**

Over head cost : 8% 2.17

Profit Cost: 7% 2.05

Total Unit Cost : **31.30**

Remark _____

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ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT: A ***Demolishing Work of different structures*** LABOUR HOURLY OUTPUT:

WORK ITEM: (1.3.2) ***Cement screed floor*** ***(From 13th -20th floor)*** EQUIPEMENT: output

TOTAL QANTITY OF WORK ITEM: 1 m³ RESULT: **20.12**

Material Cost (1:01)					Labour Cost (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
					Chiseler	2	1	8.88	17.75	Tools
					D/L	15	1	6.38	95.63	
					Foreman	1	0.25	23.75	5.94	

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Total (1:-01)					**Total (1:02)**				119.31	**Tota**

A= Materials Unit Cost **0** Birr/m² B= Manpower Unit Cost **17.0446** Birr/m² C= Equipment Unit Cost

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

Hourly Output: Hourly output:

Direct Cost of Work Item = A+B+C = **17.41**

Over head cost : 8% 1.39

Profit Cost: 7% 1.32

Total Unit Cost : **20.12**

Remark _____

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ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT: A ***Demolishing Work of different structures*** LABOUR HOURLY OUTPUT:

WORK ITEM: (1.3.2) ***30x120x3cm thick marble tread*** ***(From 13th -20th floor)*** EQUIPEMENT: output

TOTAL QANTITY OF WORK ITEM: 1 m³ RESULT: **140.84**

Material Cost (1:01)					Labour Cost (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
					Chiseler	2	1	8.88	17.75	Tools
					D/L	15	1	6.38	95.63	
					Foreman	1	0.25	23.75	5.94	
Total (1:-01)					**Total (1:02)**				119.31	**Tota**

A= Materials Unit Cost **0** Birr/m² B= Manpower Unit Cost **119.313** Birr/m² C= Equipment Unit Cost

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

Hourly Output: Hourly output:

Direct Cost of Work Item = A+B+C = **121.87**

Over head cost : 8% 9.75

Profit Cost: 7% 9.21

Total Unit Cost : **140.84**

Remark _____

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ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT: A ***Demolishing Work of different structures*** LABOUR HOURLY OUTPUT:

WORK ITEM: (1.3.2) ***15x120x3cm thick marble riser*** ***(From 13th -20th floor)*** EQUIPEMENT: output

TOTAL QANTITY OF WORK ITEM: 1 pc RESULT: **140.84**

Material Cost (1:01)					Labour Cost (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
					Chiseler	2	1	8.88	17.75	Tools
					D/L	15	1	6.38	95.63	
					Foreman	1	0.25	23.75	5.94	
Total (1:-01)					**Total (1:02)**				119.31	**Tota**

A= Materials Unit Cost **0** Birr/m² B= Manpower Unit Cost **119.313** Birr/pc C= Equipment Unit Cost

	Total of (1:02)		Total of (1:03)
	Hourly Output:		Hourly output:
Direct Cost of Work Item = A+B+C =			**121.87**
	Over head cost :	8%	9.75
	Profit Cost:	7%	9.21
	Total Unit Cost :		**140.84**

Remark _____

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ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT: A ***Demolishing Work of different structures***

WORK ITEM: (2) ***Steel Structure*** ***(From 13th -20th floor)*** EQUIPEMENT output

TOTAL QANTITY OF WORK ITEM: 1 Kg RESULT: **7.07**

Material Cost (1:01)					Labour Cost (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
					Welder	2	1	14.25	28.5	Tools
					Helper	2	1	7.50	15.00	Grinder
					D/L	13	1	6.38	82.88	
					Foreman	1	0.25	23.75	5.94	
Total (1:-01)				2.75	**Total (1:02)**				132.31	**Tota**

A= Materials Unit Cost **0** Birr/Kg B= Manpower Unit Cost **5.2925** Birr/Kg C= Equipment Unit Cost

	Total of (1:02)		Total of (1:03)
	Hourly Output:		Hourly output:
Direct Cost of Work Item = A+B+C =			**6.11**
	Over head cost :	8%	0.49
	Profit Cost:	7%	0.46
	Total Unit Cost :		**7.07**

Remark _____

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ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT: **EXCAVATION AND EARTH WORK.** LABOUR HOURLY OUTPUT:

WORK ITEM: (1) ***Site clearing 20cm. On ordinary soil.*** EQUIPEMENT: Machine

TOTAL QANTITY OF WORK ITEM: 1 m^2 RESULT: **11.69**

Material Cost (1:01)					Labour Cost (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
					DL	1	0.5	6.38	3.1875	Tools
					Foreman	1	0.1	23.75	2.38	Loader with fuel
					Grader opr.	1	1	60.00	60.00	
Total (1:-01)					**Total (1:02)**				65.5625	**Tota**

A= Materials Unit Cost **0** Birr/m^2 B= Manpower Unit Cost **0.43708** Birr/m^2 C= Equipment Unit Cost

	Total of (1:02)		Total of (1:03)
	Hourly Output:		Hourly output:
Direct Cost of Work Item = A+B+C =			**10.11**

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Over head cost :	8%	0.81
Profit Cost:	7%	0.76
Total Unit Cost :		**11.69**

Remark _____

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ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT: **EXCAVATION AND EARTH WORK.** LABOUR HOURLY OUTPUT:

WORK ITEM: (2) ***Site clearing 20cm. on ordinary soil.(manual)*** EQUIPEMENT output

TOTAL QANTITY OF WORK ITEM: 1 m^2 RESULT: **18.23**

Material Cost (1:01)					Labour Cost (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
					DL	10	1	12.50	125	Tools
					G.Chief	1	0.5	18.75	9.38	
					Foreman	1	0.25	31.25	7.81	
Total (1:-01)					**Total (1:02)**				142.1875	**Tota**

A= Materials Unit Cost **0** Birr/m^2 B= Manpower Unit Cost **14.2188** Birr/m^2 C= Equipment Unit Cost

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

Hourly Output: Hourly output:

Direct Cost of Work Item = A+B+C = **14.82**

Over head cost :	10%	1.19
Profit Cost:	15%	2.22
Total Unit Cost :		**18.23**

Remark _____

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ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT: **EXCAVATION AND EARTH WORK.** LABOUR HOURLY OUTPUT:

WORK ITEM: (1.3.1) ***Bulk Excavation not exceeding 150cm. in ordinary soil (manual)*** EQUIPEMENT:output

TOTAL QANTITY OF WORK ITEM: 1 m^3 RESULT: **215.03**

Material Cost (1:01)					Labour Cost (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
					DL	2	1	18.13	36.25	Tools
					G.Chief	1	0.5	27.50	13.75	
					Foreman	1	0.1	85.10	8.51	
Total (1:-01)					**Total (1:02)**				58.50962	**Tota**

A= Materials Unit Cost **0** Birr/m^3 B= Manpower Unit Cost **156.026** 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 = **172.03**

Over head cost :	10%	17.20
Profit Cost:	15%	25.80
Total Unit Cost :		**215.03**

Remark _____

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ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT: **EXCAVATION AND EARTH WORK.** LABOUR HOURLY OUTPUT:
WORK ITEM: (1.3.2) ***Bulk Excavation foundation to adepth of 150-300cm. In ordinary soil.(manual)*** EQUIPEMENT: output
TOTAL QANTITY OF WORK ITEM: 1 m³ RESULT: **76.63**

Material Cost (1:01)					Labour Cost (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
					DL	2	1	6.38	12.75	Tools
					G.Chief	1	0.5	10.50	5.25	
					Foreman	1	0.1	23.75	2.375	
Total (1:-01)					**Total (1:02)**				20.38	**Tota**

A= Materials Unit Cost **0** Birr/m³ B= Manpower Unit Cost **62.6923** Birr/m³ C= Equipment Unit Cost
Total of (1:02) Total of (1:03)
Hourly Output: Hourly output:
Direct Cost of Work Item = A+B+C = **66.63**
Over head cost : 8% 5.33
Profit Cost: 7% 4.66
Total Unit Cost : **76.63**

Remark _____
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ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT: **EXCAVATION AND EARTH WORK.** LABOUR HOURLY OUTPUT:
WORK ITEM: (1.3.3) ***Bulk Excavation foundation to adepth of 300-450cm. Ordinary soil.(manual)*** EQUIPEMENT: output
TOTAL QANTITY OF WORK ITEM: 1 m³ RESULT: **86.62**

Material Cost (1:01)					Labour Cost (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
					DL	2	1	6.38	12.75	Tools
					G.Chief	1	0.5	10.50	5.25	
					Foreman	1	0.1	23.75	2.38	
Total (1:-01)					**Total (1:02)**				20.38	**Tota**

A= Materials Unit Cost **0** Birr/m³ B= Manpower Unit Cost **70.87** Birr/m³ C= Equipment Unit Cost
Total of (1:02) Total of (1:03)
Hourly Output: Hourly output:
Direct Cost of Work Item = A+B+C = **75.32**
Over head cost : 8% 6.03
Profit Cost: 7% 5.27
Total Unit Cost : **86.62**

Remark _____
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ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT: **EXCAVATION AND EARTH WORK.** LABOUR HOURLY OUTPUT:

WORK ITEM: (1.3.1) ***Bulk Excavation to depth of 450 -600cm. in ordinary soil.(manual)*** EQUIPEMENT:output
TOTAL QANTITY OF WORK ITEM: 1 m^3 RESULT: **94.87**

Material Cost (1:01)					Labour Cost (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
					DL	2	1	6.38	12.75	Tools
					G.Chief	1	0.5	10.50	5.25	
					Foreman	1	0.1	23.75	2.38	
Total (1:-01)					**Total (1:02)**				20.375	**Tot**

A= Materials Unit Cost **0** Birr/m^3 B= Manpower Unit Cost **77.619** 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 = **82.50**
Over head cost : 8% 6.60
Profit Cost: 7% 5.77
Total Unit Cost : **94.87**

Remark _____
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ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT: **EXCAVATION AND EARTH WORK.** LABOUR HOURLY OUTPUT:
WORK ITEM: (1.3.2) ***Bulk Excavation foundation to adepth of 600-750cm. In ordinary soil.(manual)*** EQUIPEMENT: output
TOTAL QANTITY OF WORK ITEM: 1 m^3 RESULT: **99.61**

Material Cost (1:01)					Labour Cost (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
					DL	2	1	6.38	12.75	Tools
					G.Chief	1	0.5	10.50	5.25	
					Foreman	1	0.1	23.75	2.375	
Total (1:-01)					**Total (1:02)**				20.38	**Tot**

A= Materials Unit Cost **0** Birr/m^3 B= Manpower Unit Cost **81.5** 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 = **86.62**
Over head cost : 8% 6.93
Profit Cost: 7% 6.06
Total Unit Cost : **99.61**

Remark _____
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ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT: **EXCAVATION AND EARTH WORK.** LABOUR HOURLY OUTPUT:
WORK ITEM: (1.3.3) ***Bulk Excavation foundation to adepth of 750-900cm. In ordinary soil.(manual)*** EQUIPEMENT: output
TOTAL QANTITY OF WORK ITEM: 1 m^3 RESULT: **104.86**

Material Cost (1:01)					Labour Cost (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

					DL	2	1	6.38	12.75	Tools
					G.Chief	1	0.5	10.50	5.25	
					Foreman	1	0.1	23.75	2.38	
Total (1:-01)					**Total (1:02)**				20.38	**Tota**

A= Materials Unit Cost **0** Birr/m³ B= Manpower Unit Cost **85.79** Birr/m³ C= Equipment Unit Cost

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

Hourly Output: Hourly output:

Direct Cost of Work Item = A+B+C = **91.18**

Over head cost : 8% 7.29

Profit Cost: 7% 6.38

Total Unit Cost : **104.86**

Remark _____

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ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT: **EXCAVATION AND EARTH WORK.** LABOUR HOURLY OUTPUT:

WORK ITEM: (1.3.3) ***Bulk Excavation foundation to adepth of 900 -1150cm. In ordinary soil.(manual)*** EQUIPEMENT: output

TOTAL QANTITY OF WORK ITEM: 1 m³ RESULT: **110.68**

Material Cost (1:01)					Labour Cost (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
					DL	2	1	6.38	12.75	Tools
					G.Chief	1	0.5	10.50	5.25	
					Foreman	1	0.1	23.75	2.38	
Total (1:-01)					**Total (1:02)**				20.38	**Tota**

A= Materials Unit Cost **0** Birr/m³ B= Manpower Unit Cost **90.56** Birr/m³ C= Equipment Unit Cost

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

Hourly Output: Hourly output:

Direct Cost of Work Item = A+B+C = **96.24**

Over head cost : 8% 7.70

Profit Cost: 7% 6.74

Total Unit Cost : **110.68**

Remark _____

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ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: **EXCAVATION AND EARTH WORK.** LABOUR HOURLY OUTPUT:

WORK ITEM: (1.4.1) ***Bulk excavation in soft rock to a depth not exceeding 1.5m*** EQUIPEMENT

TOTAL QANTITY OF WORK ITEM: 1 m³ RESULT: **131.61**

Material Cost (1:01)					**Labor Cost (1:02)**					**Equi**
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	** Indexed Hourly Cost	Hourly Cost	Type of Equipment
					DL II	3	1	7.50	22.5	Slege hammer
					G.Chief	1	0.25	10.50	2.625	
									-	

_____ Data collested by _____ Prepared checked by _____ Approved by

Total (1:-01)					**Total (1:02)**				25.125	**Tota**

A= Materials Unit Cost 0 Birr/m³ **B= Manpower Unit Cost** 111.67 Birr/m³ **C= Equipment Unit Cost**

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

Daily Output: Daily Outpu

Direct Cost of Work Item = A+B+C = 114.44

Over head cost : 8% 9.16

Profit Cost: 7% 8.01

Total Unit Cost : 131.61

Remark _____

UF: UTILIZATION FACTOR **131.61**

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

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

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: **EXCAVATION AND EARTH WORK.** LABOUR HOURLY OUTPUT:

WORK ITEM: (1.4.2) ***Bulk excavation in soft rock to a depth 1.5m< x <3.0m*** EQUIPEMENTOUT PUT :

TOTAL QANTITY OF WORK ITEM: 1 m³ RESULT: **148.06**

Material Cost (1:01)					**Labor Cost (1:02)**					**Equi**
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	** Indexed Hourly Cost	Hourly Cost	Type of Equipment
					DL II	3	1	7.50	22.5	Slege hammer
					G.Chief	1	0.25	10.50	2.625	
Total (1:-01)					**Total (1:02)**				25.125	**Tota**

A= Materials Unit Cost 0 Birr/m³ **B= Manpower Unit Cost** 125.63 Birr/m³ **C= Equipment Unit Cost**

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

Daily out put Daily output:

Direct Cost of Work Item = A+B+C = 128.75

Over head cost : 8% 10.30

Profit Cost: 7% 9.01

Total Unit Cost : 148.06

Remark _____

UF: UTILIZATION FACTOR **148.06**

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

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

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: **EXCAVATION AND EARTH WORK.** LABOUR HOURLY OUTPUT:

WORK ITEM: (1.4.3) ***Bulk excavation in soft rock to a depth 3m < x < 4.5m*** EQUIPEMENTOUT PUT :

TOTAL QANTITY OF WORK ITEM: 1 m³ RESULT: **200.35**

Material Cost (1:01)					**Labor Cost (1:02)**					**Equipment Cost (1:**
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	** Indexed Hourly Cost	Hourly Cost	Type of Equipment
					DL II	3	1	7.50	22.5	Tools
					G.Chief	1	0.25	10.50	2.625	Slege hammer
Total (1:-01)					**Total (1:02)**				25.125	**Total (1:03)**

A= Materials Unit Cost 0 Birr/m³ **B= Manpower Unit Cost** 154.62 Birr/m³ **C= Equipment Unit Cost**

_____ Data collested by _____ Prepared checked by _____ Approved by

	Total of (1:02)		Total of (1:03)
	Daily out put		Daily output:
Direct Cost of Work Item = A+B+C =			174.22
	Over head cost :	8%	13.94
	Profit Cost:	7%	12.20
	Total Unit Cost :		200.35

Remark _____

UF: UTILIZATION FACTOR **200.35**

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

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

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: **EXCAVATION AND EARTH WORK.** LABOUR HOURLY OUTPUT:

WORK ITEM: (1.4.2) ***Bulk excavation in soft rock to a depth 4.5m< x <6.0m*** EQUIPEMENTOUT PUT :

TOTAL QANTITY OF WORK ITEM: 1 m³ RESULT: **245.14**

Material Cost (1:01)					**Labor Cost (1:02)**					**Equi**
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	** Indexed Hourly Cost	Hourly Cost	Type of Equipment
					DL II	3	1	6.38	19.125	Tools
					G.Chief	1	0.25	10.50	2.625	Slege hammer
									-	
Total (1:-01)					**Total (1:02)**				21.75	**Tot**

A= Materials Unit Cost 0 Birr/m³ **B= Manpower Unit Cost** 158.18 Birr/m³ **C= Equipment Unit Cost**

	Total of (1:02)		Total of (1:03)
	Daily out put		Daily output:
Direct Cost of Work Item = A+B+C =			213.16
	Over head cost :	8%	17.05
	Profit Cost:	7%	14.92
	Total Unit Cost :		245.14

Remark _____

UF: UTILIZATION FACTOR **245.14**

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

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

:T FOR DIRECT & INDIRECT COSTS

PROJECT: **EXCAVATION AND EARTH WORK.** LABOUR HOURLY OUTPUT:

WORK ITEM: (1.4.3) ***Bulk excavation in soft rock to a depth 6m < x < 7.5m*** EQUIPEMENTOUT PUT :

TOTAL QANTITY OF WORK ITEM: 1 m³ RESULT: **278.39**

Material Cost (1:01)					**Labor Cost (1:02)**					**Equipment Cost (1:**
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	** Indexed Hourly Cost	Hourly Cost	Type of Equipment
					DL II	3	1	6.38	19.125	Tools
					G.Chief	1	0.25	10.50	2.63	
					Forman	1	0.04	23.75	0.95	
					Slege hammer	1	1	5.00	5.00	
Total (1:-01)					**Total (1:02)**				27.7	**Total (1:03)**

A= Materials Unit Cost 0 Birr/m³ **B= Manpower Unit Cost** 221.60 Birr/m³ **C= Equipment Unit Cost**

	Total of (1:02)		Total of (1:03)
	Daily out put		Daily output:
Direct Cost of Work Item = A+B+C =			242.08
	Over head cost :	8%	19.37
	Profit Cost:	7%	16.95
	Total Unit Cost :		278.39

Remark _____

_____ Data collested by _____ Prepared checked by _____ Approved by

UF: UTILIZATION FACTOR **278.39**
*: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.
**: INCLUSIVE OF BENEFITS, TRAVEL SUBSIDES AND COST OF OVERTIME RELATED TO TARGETED OUTPUT.

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: **EXCAVATION AND EARTH WORK.** LABOUR HOURLY OUTPUT:
WORK ITEM: (1.4.2) ***Bulk excavation in soft rock to a depth 7.5m< x <9.0m*** EQUIPEMENTOUT PUT :
TOTAL QANTITY OF WORK ITEM: 1 m³ RESULT: **309.32**

Material Cost (1:01)					**Labor Cost (1:02)**					**Equi**
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	** Indexed Hourly Cost	Hourly Cost	Type of Equipment
					DL II	3	1	6.38	19.125	Tools
					G.Chief	1	0.25	10.50	2.63	
					Forman	1	0.04	23.75	0.95	
					Slege hammer	1	1	5.00	5.00	
Total (1:-01)					**Total (1:02)**				27.7	**Tot**

A= Materials Unit Cost 0 Birr/m³ **B= Manpower Unit Cost** 246.22 Birr/m³ **C= Equipment Unit Cost**
Total of (1:02) Total of (1:03)
Daily out put Daily output:
Direct Cost of Work Item = A+B+C = 268.98
Over head cost : 8% 21.52
Profit Cost: 7% 18.83
Total Unit Cost : 309.32

Remark _____
UF: UTILIZATION FACTOR **309.32**
*: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.
**: INCLUSIVE OF BENEFITS, TRAVEL SUBSIDES AND COST OF OVERTIME RELATED TO TARGETED OUTPUT.

T FOR DIRECT & INDIRECT COSTS

PROJECT: **EXCAVATION AND EARTH WORK.** LABOUR HOURLY OUTPUT:
WORK ITEM: (1.4.3) ***Bulk excavation in soft rock to a depth 9m < x < 11.5m*** EQUIPEMENTOUT PUT :
TOTAL QANTITY OF WORK ITEM: 1 m³ RESULT: **347.99**

Material Cost (1:01)					**Labor Cost (1:02)**					**Equipment Cost (1:**
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	** Indexed Hourly Cost	Hourly Cost	Type of Equipment
					DL II	3	1	6.38	19.125	Tools
					G.Chief	1	0.25	10.50	2.63	
					Forman	1	0.04	23.75	0.95	
					Slege hammer	1	1	5.00	5.00	
Total (1:-01)					**Total (1:02)**				27.7	**Total (1:03)**

A= Materials Unit Cost 0 Birr/m³ **B= Manpower Unit Cost** 277.00 Birr/m³ **C= Equipment Unit Cost**
Total of (1:02) Total of (1:03)
Daily out put Daily output:
Direct Cost of Work Item = A+B+C = 302.60
Over head cost : 8% 24.21
Profit Cost: 7% 21.18
Total Unit Cost : 347.99

Remark _____
UF: UTILIZATION FACTOR **347.99**
*: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.
**: INCLUSIVE OF BENEFITS, TRAVEL SUBSIDES AND COST OF OVERTIME RELATED TO TARGETED OUTPUT.

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: **EXCAVATION AND EARTH WORK.** LABOUR HOURLY OUTPUT:

WORK ITEM: (1.5.1) ***Bulk excavation in hardrock to a depth not exceeding 1.5m*** EQUIPEMENTOUT PUT :Manual
TOTAL QANTITY OF WORK ITEM: 1 m^3 RESULT: **263.44**

Material Cost (1:01)					Labor Cost (1:02)					Equi
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	** Indexed Hourly Cost	Hourly Cost	Type of Equipment
					DL II	3	1	7.50	22.5	Tools
					G.Chief	1	0.25	10.50	2.625	
					Forman	1	0.04	23.75	0.95	
Total (1:-01)					**Total (1:02)**				26.075	**Tota**

A= Materials Unit Cost 0 Birr/m^3 **B= Manpower Unit Cost** 208.60 Birr/m^3 **C= Equipment Unit Cost**
Total of (1:02) Total of (1:03)
Daily out put Daily output:
Direct Cost of Work Item = A+B+C = 229.08
Over head cost : 8% 18.33
Profit Cost: 7% 16.04
Total Unit Cost : 263.44

Remark _____
UF: UTILIZATION FACTOR **263.44**
*: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.
**: INCLUSIVE OF BENEFITS, TRAVEL SUBSIDES AND COST OF OVERTIME RELATED TO TARGETED OUTPUT.

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: **EXCAVATION AND EARTH WORK.** LABOUR HOURLY OUTPUT:
WORK ITEM: (1.5.2) ***Bulk excavation in hardrock to a depth 1.5m< x <3.0m*** EQUIPEMENTOUT PUT :
TOTAL QANTITY OF WORK ITEM: 1 m^3 RESULT: **329.30**

Material Cost (1:01)					Labor Cost (1:02)					Equi
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	** Indexed Hourly Cost	Hourly Cost	Type of Equipment
					DL II	3	1	7.50	22.5	Tools
					G.Chief	1	0.25	10.50	2.63	
					Forman	1	0.04	23.75	0.95	
Total (1:-01)					**Total (1:02)**				26.075	**Tota**

A= Materials Unit Cost 0 Birr/m^3 **B= Manpower Unit Cost** 260.75 Birr/m^3 **C= Equipment Unit Cost**
Total of (1:02) Total of (1:03)
Daily out put Daily output:
Direct Cost of Work Item = A+B+C = 286.35
Over head cost : 8% 22.91
Profit Cost: 7% 20.04
Total Unit Cost : 329.30

Remark _____
UF: UTILIZATION FACTOR **329.30**
*: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.
**: INCLUSIVE OF BENEFITS, TRAVEL SUBSIDES AND COST OF OVERTIME RELATED TO TARGETED OUTPUT.

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: **EXCAVATION AND EARTH WORK.** LABOUR HOURLY OUTPUT:
WORK ITEM: (1.5.3) ***Bulk excavation in hardrock to a depth 3.0m< x <4.5m*** EQUIPEMENTOUT PUT :
TOTAL QANTITY OF WORK ITEM: 1 m^3 RESULT: **526.88**

Material Cost (1:01)	Labor Cost (1:02)	Equi

Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	** Indexed Hourly Cost	Hourly Cost	Type of Equipment
					DL II	3	1	7.50	22.5	Tools
					G.Chief	1	0.25	10.50	2.625	
					Forman	1	0.04	23.75	0.95	
Total (1:-01)					**Total (1:02)**				26.075	**Tota**

A= Materials Unit Cost 0 Birr/m³ **B= Manpower Unit Cost** 417.20 Birr/m³ **C= Equipment Unit Cost**

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

Daily out put Daily output:

Direct Cost of Work Item = A+B+C = 458.16

Over head cost : 8% 36.65

Profit Cost: 7% 32.07

Total Unit Cost : 526.88

Remark _____

UF: UTILIZATION FACTOR **526.88**

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

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

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: **EXCAVATION AND EARTH WORK.** LABOUR HOURLY OUTPUT:

WORK ITEM: (1.5.2) ***Bulk excavation in hardrock to a depth 4.5m< x < 6.0m*** EQUIPEMENTOUT PUT :

TOTAL QANTITY OF WORK ITEM: 1 m³ RESULT: **774.64**

Material Cost (1:01)					**Labor Cost (1:02)**					**Equi**
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	** Indexed Hourly Cost	Hourly Cost	Type of Equipment
					DL II	3	1	6.38	19.125	Tools
					G.Chief	1	0.25	10.50	2.63	
					Forman	1	0.04	23.75	0.95	
Total (1:-01)					**Total (1:02)**				22.7	**Tota**

A= Materials Unit Cost 0 Birr/m³ **B= Manpower Unit Cost** 605.33 Birr/m³ **C= Equipment Unit Cost**

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

Daily out put Daily output:

Direct Cost of Work Item = A+B+C = 673.60

Over head cost : 8% 53.89

Profit Cost: 7% 47.15

Total Unit Cost : 774.64

Remark _____

UF: UTILIZATION FACTOR **774.64**

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

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ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: **EXCAVATION AND EARTH WORK.** LABOUR HOURLY OUTPUT:

WORK ITEM: (1.5.3) ***Bulk excavation in hardrock to a depth 6.0m< x <7.5m*** EQUIPEMENTOUT PUT :

TOTAL QANTITY OF WORK ITEM: 1 m³ RESULT: **1161.96**

Material Cost (1:01)					**Labor Cost (1:02)**					**Equi**
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	** Indexed Hourly Cost	Hourly Cost	Type of Equipment
					DL II	3	1	6.38	19.125	Tools

_____ Data collested by _____ Prepared checked by _____ Approved by

					G.Chief	1	0.25	10.50	2.625	
					Forman	1	0.04	23.75	0.95	
Total (1:-01)					**Total (1:02)**				22.7	**Tota**

A= Materials Unit Cost 0 Birr/m³ **B= Manpower Unit Cost** 908.00 Birr/m³ **C= Equipment Unit Cost**

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

Daily out put Daily output:

Direct Cost of Work Item = A+B+C = 1010.40

Over head cost : 8% 80.83

Profit Cost: 7% 70.73

Total Unit Cost : 1161.96

Remark _____

UF: UTILIZATION FACTOR **1161.96**

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

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

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: **EXCAVATION AND EARTH WORK.** LABOUR HOURLY OUTPUT:

WORK ITEM: (1.5.2) ***Bulk excavation in hardrock to a depth 7.5m< x <9.0m*** EQUIPEMENTOUT PUT :

TOTAL QANTITY OF WORK ITEM: 1 m³ RESULT: **2323.92**

Material Cost (1:01)					**Labor Cost (1:02)**					**Equi**
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	** Indexed Hourly Cost	Hourly Cost	Type of Equipment
					DL II	3	1	6.38	19.125	Tools
					G.Chief	1	0.25	10.50	2.63	
					Forman	1	0.04	23.75	0.95	
Total (1:-01)					**Total (1:02)**				22.7	**Tota**

A= Materials Unit Cost 0 Birr/m³ **B= Manpower Unit Cost** 1816.00 Birr/m³ **C= Equipment Unit Cost**

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

Daily out put Daily output:

Direct Cost of Work Item = A+B+C = 2020.80

Over head cost : 8% 161.66

Profit Cost: 7% 141.46

Total Unit Cost : 2323.92

Remark _____

UF: UTILIZATION FACTOR **2323.92**

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

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

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: **EXCAVATION AND EARTH WORK.** LABOUR HOURLY OUTPUT:

WORK ITEM: (1.5.3) ***Bulk excavation in hardrock to a depth 9.0m< x <11.5m*** EQUIPEMENTOUT PUT :

TOTAL QANTITY OF WORK ITEM: 1 m³ RESULT: **2582.13**

Material Cost (1:01)					**Labor Cost (1:02)**					**Equi**
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	** Indexed Hourly Cost	Hourly Cost	Type of Equipment
					DL II	3	1	6.38	19.125	Tools
					G.Chief	1	0.25	10.50	2.625	
					Forman	1	0.04	23.75	0.95	

Total (1:-01)					**Total (1:02)**				22.7	**Tot**

A= Materials Unit Cost 0 Birr/m³ **B= Manpower Unit Cost** 2017.78 Birr/m³ **C= Equipment Unit Cost**

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

Daily out put Daily output:

Direct Cost of Work Item = A+B+C = 2245.33

Over head cost : 8% 179.63

Profit Cost: 7% 157.17

Total Unit Cost : 2582.13

Remark _____

UF: UTILIZATION FACTOR **2582.13**

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

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ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT: **EXCAVATION AND EARTH WORK.** LABOUR HOURLY OUTPUT:

WORK ITEM: (1.6.1) ***Bulk Exc. of boulder material to a depth not exceeding 1.5m*** EQUIPEMENT: Machine

TOTAL QANTITY OF WORK ITEM: 1 m³ RESULT: **157.70**

Material Cost (1:01)					Labour Cost (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
					DL	1	0.5	6.38	3.19	Tools
					G.Chief	1	0.25	10.50	2.63	Excavator
					Foreman	1	0.04	23.75	0.95	Dozer
					Excav. opr.III	1	1	75.00	75	
					Dozer opr. III	1	1	75.00		
Total (1:-01)					**Total (1:02)**				81.7625	**Tot**

A= Materials Unit Cost **0** Birr/m³ B= Manpower Unit Cost **2.62** Birr/m³ C= Equipment Unit Cost

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

Hourly Output: Hourly output:

Direct Cost of Work Item = A+B+C = **137.13**

Over head cost : 8% 10.97

Profit Cost: 7% 9.60

Total Unit Cost : **157.70**

Remark _____

UF: UTILIZATION FACTOR

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ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT: **EXCAVATION AND EARTH WORK.** LABOUR HOURLY OUTPUT:

WORK ITEM: (1.6.2) ***Bulk Excavation of boulder material from a adepth of 150-300cm.*** EQUIPEMENT: Machine

TOTAL QANTITY OF WORK ITEM: 1 m³ RESULT: **213.18**

Material Cost (1:01)					Labour Cost (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
					DL	1	0.5	6.38	3.19	Tools
					G.Chief	1	0.25	10.50	2.63	Excavator
					Foreman	1	0.1	23.75	2.38	Dozer
					Excav opr. III	1	1	75.00	75	
					Dozer opr. III	1	1	75.00		
Total (1:-01)					**Total (1:02)**				83.1875	**Tot**

_____ Data collested by _____ Prepared checked by _____ Approved by

A= Materials Unit Cost **0** Birr/m³ B= Manpower Unit Cost **3.5973** Birr/m³ C= Equipment Unit Cost

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

Hourly Output: Hourly output:

Direct Cost of Work Item = A+B+C = **185.38**

Over head cost : 8% 14.83

Profit Cost: 7% 12.98

Total Unit Cost : **213.18**

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: **EXCAVATION AND EARTH WORK.** LABOUR HOURLY OUTPUT:

WORK ITEM: (1.6.3) **Bulk Excav of boulder materials from a adepth of 300-450cm.** EQUIPEMENT: Machine

TOTAL QANTITY OF WORK ITEM: 1 m³ RESULT: **287.58**

Material Cost (1:01)					Labour Cost (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
					DL	2	1	6.38	12.75	Tools
					G.Chief	1	0.5	10.50	5.25	Excavator
					Foreman	1	0.17	26.9	4.57	Dozer
					Excav opr. III	1	1	75.00	75	
					Dozer opr. III	1	1	75.00	75	
Total (1:-01)					**Total (1:02)**				172.573	**Tota**

A= Materials Unit Cost **0** Birr/m³ B= Manpower Unit Cost **9.86131** Birr/m³ C= Equipment Unit Cost

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

Hourly Output: Hourly output:

Direct Cost of Work Item = A+B+C = **250.07**

Over head cost : 8% 20.01

Profit Cost: 7% 17.51

Total Unit Cost : **287.58**

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 COSTS

PROJECT: **EXCAVATION AND EARTH WORK.** LABOUR HOURLY OUTPUT:

WORK ITEM: (1.7.1) ***Pit and Trench excavation not exceeding 150cm. Ordinary soil(manual)*** EQUIPEMENTOUT PUT :

TOTAL QANTITY OF WORK ITEM: 1 m³ RESULT: **152.47**

Material Cost (1:01)					**Labor Cost (1:02)**					**Equi**
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	** Indexed Hourly Cost	Hourly Cost	Type of Equipment
					Forman	1	0.25	31.25	7.8125	Tools
					G.Chief	1	0.5	18.75	9.375	
					DL	2	1	12.50	25	
Total (1:-01)					**Total (1:02)**				42.1875	**Tota**

A= Materials Unit Cost 0 Birr/m³ **B= Manpower Unit Cost** 125.00 Birr/m³ **C= Equipment Unit Cost**

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

Daily output: Daily output:

Direct Cost of Work Item = A+B+C = 132.59

Over head cost : 8% 10.61

_____ Data collested by _____ Prepared checked by _____ Approved by

Profit Cost:	7%	9.28
Total Unit Cost :		152.47

Remark _____

UF: UTILIZATION FACTOR **152.47**

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

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: **EXCAVATION AND EARTH WORK.** LABOUR HOURLY OUTPUT:

WORK ITEM: (1.7.2) ***Pit and Trench excavation to the depth of 150cm < x < 300cm. Ordinary soil*** EQUIPEMENTOUT PUT :

TOTAL QANTITY OF WORK ITEM: 1 m³ RESULT: **110.81**

Material Cost (1:01)					Labor Cost (1:02)					Equi
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	** Indexed Hourly Cost	Hourly Cost	Type of Equipment
					Forman	1	0.25	23.75	5.9375	Tools
					G.Chief	1	0.5	10.50	5.25	
					DL	2	1	6.38	12.75	
Total (1:-01)					**Total (1:02)**				23.9375	**Tota**

A= Materials Unit Cost 0 Birr/m³ **B= Manpower Unit Cost** 87.05 Birr/m³ **C= Equipment Unit Cost**

Total of (1:02) Over head cost : Total of (1:03)

Daily output: Profit Cost: Daily output:

Direct Cost of Work Item = A+B+C = 96.35

Over head cost :	8%	7.71
Profit Cost:	7%	6.74
Total Unit Cost		110.81

Remark _____

UF: UTILIZATION FACTOR **110.81**

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

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

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: **EXCAVATION AND EARTH WORK.** LABOUR HOURLY OUTPUT:

WORK ITEM: (1.7.3) ***Pit and Trench excav. to the depth of 300cm < x < 450cm. Ordinary soil*** EQUIPEMENTOUT PUT :

TOTAL QANTITY OF WORK ITEM: 1 m³ RESULT: **152.36**

Material Cost (1:01)					Labor Cost (1:02)					Equi
Type of Material	Unit	Qty *	Rate	Unit	Labor by Trade	No.	UF	Hourly Cost	Cost	Equipment
					Forman	1	0.25	23.75	5.9375	Tools
					G.Chief	1	0.5	10.50	5.25	
					DL	2	1	6.38	12.75	
Total (1:-01)					**Total (1:02)**				23.9375	**Tota**

A= Materials Unit Cost 0 Birr/m³ **B= Manpower Unit Cost** 119.69 Birr/m³ **C= Equipment Unit Cost**

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

Daily output: Daily output:

Direct Cost of Work Item = A+B+C = 132.49

Over head cost :	8%	10.60
Profit Cost:	7%	9.27
Total Unit Cost :		152.36

Remark _____

UF: UTILIZATION FACTOR **152.36**

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

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

_____ Data collested by _____ Prepared checked by _____ Approved by

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: **EXCAVATION AND EARTH WORK.** LABOUR HOURLY OUTPUT:
WORK ITEM: (1.8.1) **Pit and Trench excav. not exceeding 150cm. Soft rock** EQUIPEMENTOUT PUT :
TOTAL QANTITY OF WORK ITEM: 1 m^3 RESULT: **175.63**

Material Cost (1:01)					Labor Cost (1:02)					Equi
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	** Indexed hourly cost	Hourly cost	Type of Equipment
					DL II	3	1	7.50	22.5	Tools
					G.Chief	1	0.25	10.50	2.625	
					Forman	1	0.04	23.75	0.95	
Total (1:-01)					Total (1:02)				26.075	Tota

A= Materials Unit Cost 0 Birr/m^3 **B= Manpower Unit Cost** 139.07 Birr/m^3 **C= Equipment Unit Cost**

	Total of (1:02)		Total of (1:03)
	Daily output:		Daily output:
Direct Cost of Work Item = A+B+C =			152.72
	Over head cost :	8%	12.22
	Profit Cost:	7%	10.69
	Total :		175.63
Remark _____	VAT:		
UF: UTILIZATION FACTOR	**Total Unit Cost :**		**175.63**

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

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: **EXCAVATION AND EARTH WORK.** LABOUR HOURLY OUTPUT:
WORK ITEM (1.8.2) **Pit and Trench excavation to the debth of 150cm < x < 300cm. Soft rock** EQUIPEMENTOUT PUT :
TOTAL QANTITY OF WORK ITEM: 1 m^3 RESULT: **219.54**

Material Cost (1:01)					Labor Cost (1:02)					Equi
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	** Indexed hourl cost	Hourly cost	Type of Equipment
					DL II	3	1	7.50	22.5	Tools
					G.Chief	1	0.25	10.50	2.63	
					Forman	1	0.04	23.75	0.95	
Total (1:-01)					Total (1:02)				26.075	Tota

A= Materials Unit Cost 0 Birr/m^3 **B= Manpower Unit Cost** 173.83 Birr/m^3 **C= Equipment Unit Cost**

	Total of (1:02)		Total of (1:03)
	Daily output:		Daily output:
Direct Cost of Work Item = A+B+C =			190.90
	Over head cost :	8%	15.27
	Profit Cost:	7%	13.36
	Total :		219.54
Remark _____	VAT :		
UF: UTILIZATION FACTOR	**Total Unit Cost**		**219.54**

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

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: **EXCAVATION AND EARTH WORK.** LABOUR HOURLY OUTPUT:
WORK ITEM: (1.8.3) **Pit and Trench excavation to the debth of 300cm < x < 450cm. Soft rock** EQUIPEMENTOUT PUT :
TOTAL QANTITY OF WORK ITEM: 1 m^3 RESULT: **272.15**

Material Cost (1:01)	Labor Cost (1:02)	Equi

Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	** Indexed hourly cost	Hourly cost	Type of Equipment
					DL II	3	1	7.50	22.5	Tools
					G.Chief	1	0.25	10.50	2.63	
					Forman	1	0.04	23.75	0.95	
Total (1:-01)					**Total (1:02)**				26.075	**Tot**

A= Materials Unit Cost 0 Birr/m³ *B= Manpower Unit Cost* 208.60 Birr/m³ *C= Equipment Unit Cost*

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

Daily output: *Daily output:*

Direct Cost of Work Item = A+B+C = 229.08

Over head cost : 8% 18.33

Profit Cost: 7% 24.74

Total : 272.15

Remark _____ *VAT :*

UF: UTILIZATION FACTOR *Total Unit Cost :* ***272.15***

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

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

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: ***EXCAVATION AND EARTH WORK.*** *LABOUR HOURLY OUTPUT:*

WORK ITEM: (1.9.1) ***Pit excavation not exceeding 150cm.Hard rock*** *EQUIPEMENTOUT PUT :*

TOTAL QANTITY OF WORK ITEM: 1 m³ *RESULT:* ***292.71***

Material Cost (1:01)					Labor Cost (1:02)					Equi
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	** Indexed hourly cost	Daily cost	Type of Equipment
					DL II	3	1	7.50	22.5	Tools
					G.Chief	1	0.25	10.50	2.625	
					Forman	1	0.04	23.75	0.95	
Total (1:-01)				0	**Total (1:02)**				26.075	**Tot**

A= Materials Unit Cost 0 Birr/m³ ***B= Manpower Unit Cost*** 231.78 Birr/m³ ***C= Equipment Unit Cost***

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

Daily output: *Daily output:*

Direct Cost of Work Item = A+B+C = 254.53

Over head cost : 8% 20.36

Profit Cost: 7% 17.82

Total : 292.71

Remark _____ *VAT:*

UF: UTILIZATION FACTOR ***Total Unit Cost :*** ***292.71***

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

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

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: ***EXCAVATION AND EARTH WORK.*** *LABOUR HOURLY OUTPUT:*

WORK ITEM: (1.9.2) ***Pit excav. to the debth of 150cm < x < 300cm. Hard rock*** *EQUIPEMENTOUT PUT :*

TOTAL QANTITY OF WORK ITEM: 1 m³ *RESULT:* ***376.35***

Material Cost (1:01)					Labor Cost (1:02)					Equi
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	** Indexed hourly cost	Daily cost	Type of Equipment
					DL II	3	1	7.50	22.5	Tools
					G.Chief	1	0.25	10.50	2.63	
					Forman	1	0.04	23.75	0.95	

Total (1:-01)					**Total (1:02)**				26.075	**Tota**

A= Materials Unit Cost 0 Birr/m³ B= Manpower Unit Cost 298.00 Birr/m³ C= Equipment Unit Cost

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

Daily output: Daily output:

Direct Cost of Work Item = A+B+C = 327.26

Over head cost : 8% 26.18

Profit Cost: 7% 22.91

Total : 376.35

Remark _____ VAT :

UF: UTILIZATION FACTOR Total Unit Cost : **376.35**

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

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

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: **EXCAVATION AND EARTH WORK.** LABOUR HOURLY OUTPUT:

WORK ITEM: (1.9.3) **Pit excav. to the debth of 300cm < x < 450cm. Hard rock** EQUIPEMENTOUT PUT :

TOTAL QANTITY OF WORK ITEM: 1 m³ RESULT: **658.61**

Material Cost (1:01)					**Labor Cost (1:02)**					**Equi**
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	** Indexed hourly cost	Daily cost	Type of Equipment
					DL II	3	1	7.50	22.5	Tools
					G.Chief	1	0.25	10.50	2.63	
					Forman	1	0.04	23.75	0.95	
Total (1:-01)					**Total (1:02)**				26.075	**Tota**

A= Materials Unit Cost 0 Birr/m³ **B= Manpower Unit Cost** 521.50 Birr/m³ **C= Equipment Unit Cost**

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

Daily output: Daily output:

Direct Cost of Work Item = A+B+C = 572.70

Over head cost : 8% 45.82

Profit Cost: 7% 40.09

Total : 658.61

Remark _____ VAT :

UF: UTILIZATION FACTOR **Total Unit Cost** **658.61**

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

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

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: **EXCAVATION AND EARTH WORK.** LABOUR HOURLY OUTPUT:

WORK ITEM: (1.9.1) **Trench excavation not exceeding 150cm.Hard rock** EQUIPEMENTOUT PUT :

TOTAL QANTITY OF WORK ITEM: 1 m³ RESULT: **376.35**

Material Cost (1:01)					**Labor Cost (1:02)**					**Equi**
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	** Indexed hourly cost	Daily cost	Type of Equipment
					DL II	3	1	7.50	22.5	Tools
					G.Chief	1	0.25	10.50	2.63	
					Forman	1	0.04	23.75	0.95	
Total (1:-01)				0	**Total (1:02)**				26.075	**Tota**

A= Materials Unit Cost 0 Birr/m³ **B= Manpower Unit Cost** 298.00 Birr/m³ **C= Equipment Unit Cost**

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

Daily output: Daily output:

Direct Cost of Work Item = A+B+C = 327.26

Over head cost : 8% 26.18

Profit Cost: 7% 22.91

Total : 376.35

Remark _____ VAT:

UF: UTILIZATION FACTOR **Total Unit Cost :** **376.35**

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

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

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: **EXCAVATION AND EARTH WORK.** LABOUR HOURLY OUTPUT:

WORK ITEM: (1.9.2) **Pit excav. to the debth of 150cm < x < 300cm. Hard rock** EQUIPEMENTOUT PUT :

TOTAL QANTITY OF WORK ITEM: 1 m³ RESULT: **526.88**

Material Cost (1:01)					Labor Cost (1:02)					Equi
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	** Indexed hourly cost	Daily cost	Type of Equipment
					DL II	3	1	7.50	22.5	Tools
					G.Chief	1	0.25	10.50	2.63	
					Forman	1	0.04	23.75	0.95	
Total (1:-01)					Total (1:02)				26.075	Tota

A= Materials Unit Cost 0 Birr/m³ B= Manpower Unit Cost 417.20 Birr/m³ C= Equipment Unit Cost

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

Daily output: Daily output:

Direct Cost of Work Item = A+B+C = 458.16

Over head cost : 8% 36.65

Profit Cost: 7% 32.07

Total : 526.88

Remark _____ VAT :

UF: UTILIZATION FACTOR Total Unit Cost : **526.88**

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

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

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: **EXCAVATION AND EARTH WORK.** LABOUR HOURLY OUTPUT:

WORK ITEM: (1.9.3) **Pit excav. to the debth of 300cm < x < 450cm. Hard rock** EQUIPEMENTOUT PUT :

TOTAL QANTITY OF WORK ITEM: 1 m³ RESULT: **878.14**

Material Cost (1:01)					Labor Cost (1:02)					Equi
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	** Indexed hourly cost	Daily cost	Type of Equipment
					DL II	3	1	7.50	22.5	Tools
					G.Chief	1	0.25	10.50	2.63	
					Forman	1	0.04	23.75	0.95	
Total (1:-01)					Total (1:02)				26.075	Tota

A= Materials Unit Cost 0 Birr/m³ **B= Manpower Unit Cost** 695.33 Birr/m³ **C= Equipment Unit Cost**

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

Daily output: Daily output:

Direct Cost of Work Item = A+B+C = 763.60

Over head cost : 8% 61.09

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Profit Cost:	*7%*	*53.45*
Total :		*878.14*
VAT :		
Total Unit Cost		***878.14***

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: **EXCAVATION AND EARTH WORK.**

WORK ITEM: (1) ***Bulk Excavation not exceeding 150cm. in ordinary soil.***

TOTAL QANTITY OF WORK ITEM: 1 m^3

LABOUR HOURLY OUTPUT:

EQUIPEMENT: Machine 2.68m3 cap.

RESULT: **27.22**

Material Cost (1:01)					Labour Cost (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
					Forman	1	0.1	23.75	2.38	Tools
					DL	1	0.5	6.38	3.1875	Excavator
					Loader. opr.	1	1	60.00	60	
Total (1:-01)					**Total (1:02)**				65.56	**Tot**

0.87417 Birr/m^3

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

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

Hourly Output: Hourly output:

Direct Cost of Work Item = A+B+C = **23.56**

Over head cost :	8%	1.88
Profit Cost:	7%	1.78
Total Unit Cost :		**27.22**

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: **EXCAVATION AND EARTH WORK.**

WORK ITEM: (1.2.2) ***Bulk Excavation to adepth of 150-300cm. In ordinary soil.***

TOTAL QANTITY OF WORK ITEM: 1 m^3

LABOUR HOURLY OUTPUT:

EQUIPEMENT: Machine

RESULT: **27.68**

Material Cost (1:01)					Labour Cost (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
					DL	1	0.5	6.38	3.19	Tools
					Foreman	1	0.1	23.75	2.38	Excavator
					Loader. opr.	1	1	60.00	60	
Total (1:-01)					**Total (1:02)**				65.56	**Tot**

A= Materials Unit Cost **0** Birr/m^3 B= Manpower Unit Cost **0.88898** 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 = **23.96**

Over head cost :	8%	1.92
Profit Cost:	7%	1.81
Total Unit Cost :		**27.68**

Remark _____

UF: UTILIZATION FACTOR

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

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

_____ Data collested by _____ Prepared checked by _____ Approved by

ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT: **EXCAVATION AND EARTH WORK.** LABOUR HOURLY OUTPUT:
WORK ITEM: (1.2.3) ***Bulk Excavation foundation to adepth of 300-450cm. In ordinary soil.*** EQUIPEMENT: Machine
TOTAL QANTITY OF WORK ITEM: 1 m³ RESULT: **32.67**

Material Cost (1:01)					Labour Cost (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
					DL	1	0.5	6.38	3.19	Tools
					Foreman	1	0.1	23.75	2.38	Excavator
					Loader. opr.	1	1	60.00	60	
Total (1:-01)					**Total (1:02)**				65.5625	**Tota**

A= Materials Unit Cost **0** Birr/m³ B= Manpower Unit Cost **1.049** Birr/m³ C= Equipment Unit Cost
Total of (1:02) Total of (1:03)
Hourly Output: Hourly output:
Direct Cost of Work Item = A+B+C = **28.27**
Over head cost : 8% 2.26
Profit Cost: 7% 2.14
Total Unit Cost : **32.67**

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: **EXCAVATION AND EARTH WORK.** LABOUR HOURLY OUTPUT:
WORK ITEM: (1.2.3) ***Bulk Excavation foundation to adepth of 450-600cm. In ordinary soil.*** EQUIPEMENT: Machine
TOTAL QANTITY OF WORK ITEM: 1 m³ RESULT: **40.33**

Material Cost (1:01)					Labour Cost (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
					DL	1	0.5	6.38	3.19	Tools
					Foreman	1	0.1	23.75	2.38	Excavator
					Loader. opr.	1	1	60.00	60	
Total (1:-01)					**Total (1:02)**				65.5625	**Tota**

A= Materials Unit Cost **0** Birr/m³ B= Manpower Unit Cost **1.29506** Birr/m³ C= Equipment Unit Cost
Total of (1:02) Total of (1:03)
Hourly Output: Hourly output:
Direct Cost of Work Item = A+B+C = **34.90**
Over head cost : 8% 2.79
Profit Cost: 7% 2.64
Total Unit Cost : **40.33**

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: **EXCAVATION AND EARTH WORK.** LABOUR HOURLY OUTPUT:
WORK ITEM: (1.2.3) ***Bulk Excavation foundation to adepth of 600-750cm. In ordinary soil.*** EQUIPEMENT: Machine
TOTAL QANTITY OF WORK ITEM: 1 m³ RESULT: **50.26**

Material Cost (1:01)					Labour Cost (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
					DL	1	0.5	6.38	3.19	Tools
					Foreman	1	0.1	23.75	2.38	Excavator
					Loader. opr.	1	1	60.00	60	
Total (1:-01)					**Total (1:02)**				65.5625	**Tota**

A= Materials Unit Cost **0** Birr/m³ B= Manpower Unit Cost **1.61385** Birr/m³ C= Equipment Unit Cost

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

Hourly Output: Hourly output:

Direct Cost of Work Item = A+B+C = **43.49**

Over head cost : 8% 3.48

Profit Cost: 7% 3.29

Total Unit Cost : **50.26**

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: **EXCAVATION AND EARTH WORK.** LABOUR HOURLY OUTPUT:

WORK ITEM: (1.2.3) ***Bulk Excavation foundation to adepth of 750-900cm. In ordinary soil.*** EQUIPEMENT: Machine

TOTAL QANTITY OF WORK ITEM: 1 m³ RESULT: **61.64**

Material Cost (1:01)					Labour Cost (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
					DL	1	0.5	6.38	3.19	Tools
					Foreman	1	0.1	23.75	2.38	Excavator
					Loader. opr.	1	1	60.00	60	
Total (1:-01)					**Total (1:02)**				65.5625	**Tota**

A= Materials Unit Cost **0** Birr/m³ B= Manpower Unit Cost **1.97925** Birr/m³ C= Equipment Unit Cost

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

Hourly Output: Hourly output:

Direct Cost of Work Item = A+B+C = **53.34**

Over head cost : 8% 4.27

Profit Cost: 7% 4.03

Total Unit Cost : **61.64**

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: **EXCAVATION AND EARTH WORK.** LABOUR HOURLY OUTPUT:

WORK ITEM: (1.2.3) ***Bulk Excavation foundation to adepth of 900-1150cm. In ordinary soil.*** EQUIPEMENT: Machine

TOTAL QANTITY OF WORK ITEM: 1 m³ RESULT: **77.78**

Material Cost (1:01)					Labour Cost (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

					DL	1	0.5	6.38	3.19	Tools
					Foreman	1	0.1	23.75	2.38	Excavator
					Loader. opr.	1	1	60.00	60	
Total (1:-01)					**Total (1:02)**				65.5625	**Tota**

A= Materials Unit Cost **0** Birr/m³ B= Manpower Unit Cost **2.49762** Birr/m³ C= Equipment Unit Cost

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

Hourly Output: Hourly output:

Direct Cost of Work Item = A+B+C = **67.31**

Over head cost : 8% 5.38

Profit Cost: 7% 5.09

Total Unit Cost : **77.78**

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: **EXCAVATION AND EARTH WORK.** LABOUR HOURLY OUTPUT:

WORK ITEM: (1.2.3) ***Bulk Excavation not exceeding 150cm. in boulder/drilled & blasted rock.*** EQUIPEMENT: Machine

TOTAL QANTITY OF WORK ITEM: 1 m³ RESULT: **122.99**

Material Cost (1:01)					Labour Cost (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
					Foreman	1	0.25	23.75	5.94	Dozer
					Dozer operator	1	1	75.00	75.00	Excavator
					Excavtor. opr.	1	1	75.00	75.00	
Total (1:-01)					**Total (1:02)**				155.9375	**Tota**

A= Materials Unit Cost **0** Birr/m³ B= Manpower Unit Cost **4.99** Birr/m³ C= Equipment Unit Cost

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

Hourly Output: Hourly output:

Direct Cost of Work Item = A+B+C = **106.43**

Over head cost : 8% 8.51

Profit Cost: 7% 8.05

Total Unit Cost : **122.99**

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: **EXCAVATION AND EARTH WORK.** LABOUR HOURLY OUTPUT:

WORK ITEM: (1.2.3) ***Bulk Excavation in boulder/drilled & blasted rock. To a depth of 150 - 300cm*** EQUIPEMENT: Machine

TOTAL QANTITY OF WORK ITEM: 1 m³ RESULT: **166.20**

Material Cost (1:01)					Labour Cost (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
					Foreman	1	0.25	23.75	5.94	Dozer
					Dozer operator	1	1	75.00	75.00	Excavator
					Excavtor. opr.	1	1	75.00	75.00	

Total (1:-01)					**Total (1:02)**				155.9375	**Tota**

A= Materials Unit Cost **0** Birr/m³ B= Manpower Unit Cost **6.74324** Birr/m³ C= Equipment Unit Cost

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

Hourly Output: Hourly output:

Direct Cost of Work Item = A+B+C = **143.82**

Over head cost : 8% 11.51

Profit Cost: 7% 10.87

Total Unit Cost : **166.20**

Remark _____

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ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT: **EXCAVATION AND EARTH WORK.** LABOUR HOURLY OUTPUT:

WORK ITEM: (1.2.3) ***Bulk Excavation in boulder/drilled & blasted. To a depth of 300 - 450cm*** EQUIPEMENT: Machine

TOTAL QANTITY OF WORK ITEM: 1 m³ RESULT: **219.63**

Material Cost (1:01)					Labour Cost (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
					Foreman	1	0.25	23.75	5.94	Dozer
					Dozer operator	1	1	75.00	75.00	Excavator
					Excavtor. opr.	1	1	75.00	75.00	
Total (1:-01)					**Total (1:02)**				155.9375	**Tota**

A= Materials Unit Cost **0** Birr/m³ B= Manpower Unit Cost **8.91071** Birr/m³ C= Equipment Unit Cost

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

Hourly Output: Hourly output:

Direct Cost of Work Item = A+B+C = **190.05**

Over head cost : 8% 15.20

Profit Cost: 7% 14.37

Total Unit Cost : **219.63**

Remark _____

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ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT: **EXCAVATION AND EARTH WORK.** LABOUR HOURLY OUTPUT:

WORK ITEM: (1.2.3) ***Bulk Excavation in boulder/drilled & blasted. To a depth of 450 - 600cm*** EQUIPEMENT: Machine

TOTAL QANTITY OF WORK ITEM: 1 m³ RESULT: **279.52**

Material Cost (1:01)					Labour Cost (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
					Foreman	1	0.25	23.75	5.94	Dozer
					Dozer operator	1	1	75.00	75.00	Excavator
					Excavtor. opr.	1	1	75.00	75.00	
Total (1:-01)					**Total (1:02)**				155.9375	**Tota**

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A= Materials Unit Cost	**0** Birr/m³	B= Manpower Unit Cost	**11.3409** Birr/m³	C= Equipment Unit Cost	
		Total of (1:02)			Total of (1:03)
		Hourly Output:			Hourly output:
		Direct Cost of Work Item = A+B+C =			**241.89**
				Over head cost : 8%	19.35
				Profit Cost: 7%	18.29
				Total Unit Cost :	**279.52**

Remark _____

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ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT: **EXCAVATION AND EARTH WORK.** LABOUR HOURLY OUTPUT:

WORK ITEM: (1.2.3) ***Bulk Excavation in boulder/drilled & blasted. To a depth of 600 - 750cm*** EQUIPEMENT: Machine

TOTAL QANTITY OF WORK ITEM: 1 m³ RESULT: **341.64**

Material Cost (1:01)					Labour Cost (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
					Foreman	1	0.25	23.75	5.94	Dozer
					Dozer operator	1	1	75.00	75.00	Excavator
					Excavtor. opr.	1	1	75.00	75.00	
Total (1:-01)					**Total (1:02)**				155.9375	**Tota**

A= Materials Unit Cost	**0** Birr/m³	B= Manpower Unit Cost	**13.8611** Birr/m³	C= Equipment Unit Cost	
		Total of (1:02)			Total of (1:03)
		Hourly Output:			Hourly output:
		Direct Cost of Work Item = A+B+C =			**295.64**
				Over head cost : 8%	23.65
				Profit Cost: 7%	22.35
				Total Unit Cost :	**341.64**

Remark _____

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ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT: **EXCAVATION AND EARTH WORK.** LABOUR HOURLY OUTPUT:

WORK ITEM: (1.2.3) ***Bulk Excavation in boulder/drilled & blasted. To a depth of 7500 - 900cm*** EQUIPEMENT: Machine

TOTAL QANTITY OF WORK ITEM: 1 m³ RESULT: **439.25**

Material Cost (1:01)					Labour Cost (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
					Foreman	1	0.25	23.75	5.94	Dozer
					Dozer operator	1	1	75.00	75.00	Excavator
					Excavtor. opr.	1	1	75.00	75.00	
Total (1:-01)					**Total (1:02)**				155.9375	**Tota**

A= Materials Unit Cost	**0** Birr/m³	B= Manpower Unit Cost	**17.8214** Birr/m³	C= Equipment Unit Cost	
		Total of (1:02)			Total of (1:03)
		Hourly Output:			Hourly output:
		Direct Cost of Work Item = A+B+C =			**380.11**
				Over head cost : 8%	30.41

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Profit Cost:	7%	28.74
Total Unit Cost :		**439.25**

Remark _____

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ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT: **EXCAVATION AND EARTH WORK.**

WORK ITEM: (1.2.3) ***Bulk Excavation in boulder/drilled & blasted. To a depth of 9000 - 11500cm***

TOTAL QANTITY OF WORK ITEM: 1 m³

LABOUR HOURLY OUTPUT:

EQUIPEMENT: Machine

RESULT: **473.04**

Material Cost (1:01)					Labour Cost (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
					Foreman	1	0.25	23.75	5.94	Dozer
					Dozer operator	1	1	75.00	75.00	Excavator
					Excavtor. opr.	1	1	75.00	75.00	
Total (1:-01)					**Total (1:02)**				155.9375	**Tota**

A= Materials Unit Cost **0** Birr/m³ B= Manpower Unit Cost **19.1923** Birr/m³ C= Equipment Unit Cost

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

Hourly Output: Hourly output:

Direct Cost of Work Item = A+B+C = **409.35**

Over head cost :	8%	32.75
Profit Cost:	7%	30.95
Total Unit Cost :		**473.04**

Remark _____

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ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT: **EXCAVATION AND EARTH WORK.**

WORK ITEM: (1.2.3) ***Pit & Trench excavation in ordinary soil not exceeding1.5m (with Hydrolic Excavator) 0.96m³ cap.***

TOTAL QANTITY OF WORK ITEM: 1 m³

LABOUR HOURLY OUTPUT:

EQUIPEMENT: Machine

RESULT: **52.80**

Material Cost (1:01)					Labour Cost (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
					Equ.Oper.III	1	1	75.00	75.00	Excavator
					Grease boy	1	1	10.00	10.00	
Total (1:-01)					**Total (1:02)**				85	**Tota**

A= Materials Unit Cost **0** Birr/m³ B= Manpower Unit Cost **3.02222** Birr/m³ C= Equipment Unit Cost

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

Hourly Output: Hourly output:

Direct Cost of Work Item = A+B+C = **45.69**

Over head cost :	8%	3.66
Profit Cost:	7%	3.45
Total Unit Cost :		**52.80**

Remark _____

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ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT: **EXCAVATION AND EARTH WORK.** LABOUR HOURLY OUTPUT:

WORK ITEM: (1.2.3) ***Pit & Trench excavation in ordinary soil to the depth of 1.5=3.00m (with machine) 0.96m³ cap.*** EQUIPEMENT: Machine

RESULT: **56.57**

TOTAL QANTITY OF WORK ITEM: 1 m³

Material Cost (1:01)					Labour Cost (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
					Equ.Oper.III	1	1	75.00	75.00	Excavator
					Grease boy	1	1	10.00	10.00	
Total (1:-01)					**Total (1:02)**				85	**Tota**

A= Materials Unit Cost **0** Birr/m³ B= Manpower Unit Cost **3.24** Birr/m³ C= Equipment Unit Cost

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

Hourly Output: Hourly output:

Direct Cost of Work Item = A+B+C = **48.95**

Over head cost : 8% 3.92

Profit Cost: 7% 3.70

Total Unit Cost : **56.57**

Remark _____

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ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT: **EXCAVATION AND EARTH WORK.** LABOUR HOURLY OUTPUT:

WORK ITEM: (1.2.3) ***Pit & Trench excavation in ordinary soil to the depth of 3.00-4.50m (with machine) 0.96m³ cap.*** EQUIPEMENT: Machine

RESULT: **69.88**

TOTAL QANTITY OF WORK ITEM: 1 m³

Material Cost (1:01)					Labour Cost (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
					Equ.Oper.III	1	1	75.00	75.00	Excavator
					Grease boy	1	1	10.00	10.00	
Total (1:-01)					**Total (1:02)**				85	**Tota**

A= Materials Unit Cost **0** Birr/m³ B= Manpower Unit Cost **4.00** Birr/m³ C= Equipment Unit Cost

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

Hourly Output: Hourly output:

Direct Cost of Work Item = A+B+C = **60.47**

Over head cost : 8% 4.84

Profit Cost: 7% 4.57

Total Unit Cost : **69.88**

Remark _____

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ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

_____ Data collested by _____ Prepared checked by _____ Approved by

PROJECT: **EXCAVATION AND EARTH WORK.**
WORK ITEM: (1.2.3) ***Pit & Trench excavation in ordinary soil to the depth of 4.50-6.00m (with machine) 0.96m³ cap.***
TOTAL QANTITY OF WORK ITEM: 1 m³

LABOUR HOURLY OUTPUT:
EQUIPEMENT: Machine
RESULT: **81.93**

Material Cost (1:01)					Labour Cost (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
					Equ.Oper.III	1	1	75.00	75.00	Excavator
					Grease boy	1	1	10.00	10.00	
Total (1:-01)					**Total (1:02)**				85	**Tot**

A= Materials Unit Cost **0** Birr/m³ B= Manpower Unit Cost **4.69** Birr/m³ C= Equipment Unit Cost
Total of (1:02) Total of (1:03)
Hourly Output: Hourly output:
Direct Cost of Work Item = A+B+C = **70.90**
Over head cost : 8% 5.67
Profit Cost: 7% 5.36
Total Unit Cost : **81.93**

Remark _____
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ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT: **EXCAVATION AND EARTH WORK.**
WORK ITEM: (1.2.3) ***Pit & Trench excavation in ordinary soil to the depth of 6.00-7.50m (with machine) 0.96m³ cap.***
TOTAL QANTITY OF WORK ITEM: 1 m³

LABOUR HOURLY OUTPUT:
EQUIPEMENT: Machine
RESULT: **91.38**

Material Cost (1:01)					Labour Cost (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
					Equ.Oper.III	1	1	75.00	75.00	Excavator
					Equ.Oper.III	1	1	10.00	10.00	
Total (1:-01)					**Total (1:02)**				85	**Tot**

A= Materials Unit Cost **0** Birr/m³ B= Manpower Unit Cost **5.23** Birr/m³ C= Equipment Unit Cost
Total of (1:02) Total of (1:03)
Hourly Output: Hourly output:
Direct Cost of Work Item = A+B+C = **79.08**
Over head cost : 8% 6.33
Profit Cost: 7% 5.98
Total Unit Cost : **91.38**

Remark _____
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ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT: **EXCAVATION AND EARTH WORK.**
WORK ITEM: (1.2.3) ***Pit & Trench excavation in ordinary soil to the depth of 7.50-9.00m (with machine) 0.96m³ cap.***
TOTAL QANTITY OF WORK ITEM: 1 m³

LABOUR HOURLY OUTPUT:
EQUIPEMENT: Machine
RESULT: **99.00**

_____ Data collested by _____ Prepared checked by _____ Approved by

Material Cost (1:01)					Labour Cost (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
					Equ.Oper.III	1	1	75.00	75.00	Excavator
					Equ.Oper.III	1	1	10.00	10.00	
Total (1:-01)					**Total (1:02)**				85	**Tot**

A= Materials Unit Cost **0** Birr/m³ B= Manpower Unit Cost **5.67** Birr/m³ C= Equipment Unit Cost

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

Hourly Output: Hourly output:

Direct Cost of Work Item = A+B+C = **85.67**

Over head cost : 8% 6.85

Profit Cost: 7% 6.48

Total Unit Cost : **99.00**

Remark _____

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ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT: **EXCAVATION AND EARTH WORK.** LABOUR HOURLY OUTPUT:

WORK ITEM: (1.2.3) ***Pit & Trench excavation in ordinary soil to the depth of 9.00-11.50m (with machine) 0.96m³ cap.*** EQUIPEMENT: Machine

RESULT: **108.00**

TOTAL QANTITY OF WORK ITEM: 1 m³

Material Cost (1:01)					Labour Cost (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
					Equ.Oper.III	1	1	75.00	75.00	Excavator
					Equ.Oper.III	1	1	10.00	10.00	
Total (1:-01)					**Total (1:02)**				85	**Tot**

A= Materials Unit Cost **0** Birr/m³ B= Manpower Unit Cost **6.18** Birr/m³ C= Equipment Unit Cost

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

Hourly Output: Hourly output:

Direct Cost of Work Item = A+B+C = **93.45**

Over head cost : 8% 7.48

Profit Cost: 7% 7.07

Total Unit Cost : **108.00**

Remark _____

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ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT: **EXCAVATION AND EARTH WORK.** LABOUR HOURLY OUTPUT:

TOTAL QANTITY OF WORK ITEM: 1 m³ RESULT: **122.77**

Material Cost (1:01)					Labour Cost (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
					Equ.Oper.III	1	1	75.00	75.00	Dozer 300H.P.
					Equ.Oper.III	1	1	75.00	75.00	Excavator

_____ Data collested by _____ Prepared checked by _____ Approved by

Total (1:-01)					**Total (1:02)**				150	**Tota**

A= Materials Unit Cost **0** Birr/m³ B= Manpower Unit Cost **4.8** Birr/m³ C= Equipment Unit Cost

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

Hourly Output: Hourly output:

Direct Cost of Work Item = A+B+C = **106.24**

Over head cost : 8% 8.50

Profit Cost: 7% 8.03

Total Unit Cost : **122.77**

Remark _____

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ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT: **EXCAVATION AND EARTH WORK.** LABOUR HOURLY OUTPUT:

TOTAL QANTITY OF WORK ITEM: 1 m³ RESULT: **175.39**

Material Cost (1:01)					Labour Cost (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
					Equ.Oper.III	1	1	75.00	75.00	Dozer 300H.P.
					Equ.Oper.III	1	1	75.00	75.00	Excavator
Total (1:-01)					**Total (1:02)**				150	**Tota**

A= Materials Unit Cost **0** Birr/m³ B= Manpower Unit Cost **6.85714** Birr/m³ C= Equipment Unit Cost

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

Hourly Output: Hourly output:

Direct Cost of Work Item = A+B+C = **151.77**

Over head cost : 8% 12.14

Profit Cost: 7% 11.47

Total Unit Cost : **175.39**

Remark _____

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ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT: **EXCAVATION AND EARTH WORK.** LABOUR HOURLY OUTPUT:

TOTAL QANTITY OF WORK ITEM: 1 m³ RESULT: **266.89**

Material Cost (1:01)					Labour Cost (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
					Equ.Oper.III	1	1	75.00	75.00	Dozer 300H.P.
					Equ.Oper.III	1	1	75.00	75.00	Excavator
Total (1:-01)					**Total (1:02)**				150	**Tota**

_____ Data collested by _____ Prepared checked by _____ Approved by

A= Materials Unit Cost **0** Birr/m³ B= Manpower Unit Cost **10.4348** Birr/m³ C= Equipment Unit Cost

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

Hourly Output: Hourly output:

Direct Cost of Work Item = A+B+C = **230.96**

Over head cost : 8% 18.48

Profit Cost: 7% 17.46

Total Unit Cost : **266.89**

Remark _____

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ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: **EXCAVATION AND EARTH WORK.** LABOUR HOURLY OUTPUT:

WORK ITEM: (1.10.1) ***Back fill around footing and masonry foundation from the site*** EQUIPEMENTOUT PUT :

TOTAL QANTITY OF WORK ITEM: 1 m³ RESULT: **306.83**

Material Cost (1:01)					**Labor Cost (1:02)**					**Equi**
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	** Indexed Hourly Cost	Daily wage	Type of Equipment
					DL	3	1	6.38	19.125	Tool
					G.Chief	1	1	10.50	10.5	Plate compactor
					Forman	1	0.5	23.75	11.875	
Total (1:-01)					**Total (1:02)**				41.5	**Tota**

A= Materials Unit Cost 0 Birr/m³ **B= Manpower Unit Cost** 57.24 Birr/m³ **C= Equipment Unit Cost**

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

Daily output: Daily output:

Direct Cost of Work Item = A+B+C = 265.52

Over head cost : 8% 21.24

Profit Cost: 7% 20.07

Total Unit Cost : 306.83

Remark _____

UF: UTILIZATION FACTOR **306.83**

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

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

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: **EXCAVATION AND EARTH WORK.** LABOUR HOURLY OUTPUT:

WORK ITEM: (1.10.2) ***Back fill around footing and masonry foundation from borrowpit*** EQUIPEMENTOUT PUT :

TOTAL QANTITY OF WORK ITEM: 1 m³ RESULT: **212.70**

Material Cost (1:01)					**Labor Cost (1:02)**					**Equi**
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	** Indexed Hourly Cost	Daily wage	Type of Equipment
Selected material	m3	1.05	116	121.947	DL	1	1	6.38	6.375	Tool
					G.Chief	1	1	10.50	10.5	Power Tools
					Forman	1	0.5	23.75	11.875	
Total (1:-01)				121.947	**Total (1:02)**				28.75	**Tota**

A= Materials Unit Cost 121.947 Birr/m³ **B= Manpower Unit Cost** 39.66 Birr/m³ **C= Equipment Unit Cost**

_____ Data collested by _____ Prepared checked by _____ Approved by

	Total of (1:02)		Total of (1:03)
	Daily output:		Daily output:
	Direct Cost of Work Item = A+B+C =		184.06
	Over head cost :	8%	14.72
	Profit Cost:	7%	13.91
	Total Unit Cost :		212.70

Remark _____

UF: UTILIZATION FACTOR **212.70**

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

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

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: **EXCAVATION AND EARTH WORK.** LABOUR HOURLY OUTPUT:

WORK ITEM:(1.10.3) ***Back fill under hard core from the site*** EQUIPEMENTOUT PUT :

TOTAL QANTITY OF WORK ITEM: 1 m³ RESULT: **490.65**

Material Cost (1:01)					**Labor Cost (1:02)**					**Equi**
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	** Indexed Hourly Cost	Daily wage	Type of Equipment
selected material	m3	1.2	250	300	DL	3	1	25.00	75	Tool
					G.Chief	1	1	37.50	37.5	Power Tools
					Forman	1	0.5	50.00	25	
Total (1:-01)				300	**Total (1:02)**				137.5	**Tota**

A= Materials Unit Cost 300 Birr/m³ **B= Manpower Unit Cost** 91.67 Birr/m³ **C= Equipment Unit Cost**

	Total of (1:02)		Total of (1:03)
	Daily output:		Daily output:
	Direct Cost of Work Item = A+B+C =		392.52
	Over head cost :	10%	39.25
	Profit Cost:	15%	58.88
	Total Unit Cost :		490.65

Remark _____

UF: UTILIZATION FACTOR **490.65**

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

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

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: **EXCAVATION AND EARTH WORK.** LABOUR HOURLY OUTPUT:

WORK ITEM: (1.13.1) ***Spread & compact in 150mm layer hand traper*** EQUIPEMENTOUT PUT :

TOTAL QANTITY OF WORK ITEM: 1 m³ RESULT: **49.32**

Material Cost (1:01)					**Labor Cost (1:02)**					**Equi**
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	** Indexed Hourly Cost	Daily wage	Type of Equipment
					DL	4	1	7.50	30	Tool
					Forman	1	0.04	23.75	0.95	Earthwork equi.
					Equipment oper.	1	1	9.13	9.125	
Total (1:-01)					**Total (1:02)**				40.075	**Tota**

A= Materials Unit Cost 0 Birr/m³ **B= Manpower Unit Cost** 27.88 Birr/m³ **C= Equipment Unit Cost**

	Total of (1:02)		Total of (1:03)
	Daily output:		Daily output:
	Direct Cost of Work Item = A+B+C =		42.68
	Over head cost :	8%	3.41
	Profit Cost:	7%	3.23
	Total Unit Cost :		49.32

_____ Data collested by _____ Prepared checked by _____ Approved by

Remark _____
UF: UTILIZATION FACTOR **49.32**
*: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.
**: INCLUSIVE OF BENEFITS, TRAVEL SUBSIDES AND COST OF OVERTIME RELATED TO TARGETED OUTPUT.

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: **EXCAVATION AND EARTH WORK.** LABOUR HOURLY OUTPUT:
WORK ITEM: (1.10.2) ***Spread & compact in 150mm layer roller compaction*** EQUIPEMENTOUT PUT :
TOTAL QANTITY OF WORK ITEM: 1 m³ RESULT: **132.90**

Material Cost (1:01)					Labor Cost (1:02)					Equi
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	** Indexed Hourly Cost	Daily wage	Type of Equipment
					DL	1	1	7.50	7.5	Tool
					Equip. oper.III	1	1	60.00	60	Roller comp.
Total (1:-01)				0	Total (1:02)				67.5	Total (1:03)

A= Materials Unit Cost 0 Birr/m³ **B= Manpower Unit Cost** 10.80 Birr/m³ **C= Equipment Unit Cost**
Total of (1:02) Total of (1:03)
Daily output: Daily output:
Direct Cost of Work Item = A+B+C = 115.00
Over head cost : 8% 9.20
Profit Cost: 7% 8.69
Total Unit Cost : 132.90

Remark _____
UF: UTILIZATION FACTOR **132.90**
*: 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: **EXCAVATION AND EARTH WORK.** LABOUR HOURLY OUTPUT:
WORK ITEM: (1.10.3) ***Fill of 20cm selected Materials from site.*** EQUIPEMENT: Machine
TOTAL QANTITY OF WORK ITEM: 1 m³ RESULT: 53.90

Material Cost (1:01)					Labour Cost (1:02)					Equipment Cost (1
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labour by Grade	No.	UF	** Indexed Hourly Cost	Hourly Cost	Type of Equipment
Selected material	m3	1.05			time kee)	1	1	10.50	10.50	loader
					Loader opr.	1	1	60.00	60.00	dump truck with f
					Truck driver	8	1	45.00	360	
Total (1:-01)					**Total (1:02)**				430.5	**Total (1:03)**

A= Materials Unit Cost **0** Birr/m³ B= Manpower Unit Cost **3.444** Birr/m³ C= Equipment Unit Cost
Total of (1:02) Total of (1:03)
Hourly Output: Hourly output:
Direct Cost of Work Item = A+B+C = **46.64**
Over head cost : 8% 3.73
Profit Cost: 7% 3.53
Total Unit Cost : **53.90**

Remark _____
UF: UTILIZATION FACTOR
*: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.
**: INCLUSIVE OF BENEFITS, TRAVEL SUBSIDES AND COST OF OVERTIME RELATED TO TARGETED OUTPUT.

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ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT: **EXCAVATION AND EARTH WORK.**
WORK ITEM: (1.10.4) ***Borrow fill of 20cm selected Materials from 0-5Km from site.***
TOTAL QANTITY OF WORK ITEM: 1 m³

LABOUR HOURLY OUTPUT:
EQUIPEMENT: Machine
RESULT: 67.77

Material Cost (1:01)					Labour Cost (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
Selected material	m3	1.05			time kee)	1	1	10.50	10.50	loader
					Loader opr.	1	1	60.00	60.00	dump truck with f
					Truck driver	8	1	45.00	360	
Total (1:-01)					**Total (1:02)**				430.5	**Tota**

A= Materials Unit Cost **0** Birr/m³ B= Manpower Unit Cost **3.444** Birr/m³ C= Equipment Unit Cost
Total of (1:02) Total of (1:03)
Hourly Output: Hourly output:
Direct Cost of Work Item = A+B+C = **58.64**
Over head cost : 8% 4.69
Profit Cost: 7% 4.43
Total Unit Cost : **67.77**

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: **EXCAVATION AND EARTH WORK.**
WORK ITEM:(1.10.5) ***Borrow fill of 20cm selected Materials from 5-10Km from site.***
TOTAL QANTITY OF WORK ITEM: 1 m³

LABOUR HOURLY OUTPUT:
EQUIPEMENT: Machine
RESULT: 97.17

Material Cost (1:01)					Labour Cost (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
Selected material	m3	1.05			time kee)	1	1	10.50	10.50	loader
					Loader opr.	1	1	60.00	60.00	dump truck with f
					Truck driver	12	1	45.00	540	
Total (1:-01)					**Total (1:02)**				610.5	**Tota**

A= Materials Unit Cost **0** Birr/m³ B= Manpower Unit Cost **4.884** Birr/m³ C= Equipment Unit Cost
Total of (1:02) Total of (1:03)
Hourly Output: Hourly output:
Direct Cost of Work Item = A+B+C = **84.08**
Over head cost : 8% 6.73
Profit Cost: 7% 6.36
Total Unit Cost : **97.17**

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: **EXCAVATION AND EARTH WORK.**
WORK ITEM: (1.9.6) ***Borrow fill selected Materials from 10-15Km from site***
TOTAL QANTITY OF WORK ITEM: 1 m³

LABOUR HOURLY OUTPUT:
EQUIPEMENT: Machine
RESULT: 126.57

Material Cost (1:01)	Labour Cost (1:02)	Equ

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Type of Material	Unit	Qty *	Rate	Cost per Unit	Labour by Grade	No.	UF	** Indexed Hourly Cost	Hourly Cost	Type of Equipment
Selected material	m3	1.05			time kee)	1	1	10.50	10.50	loader
					Loader opr.	1	1	60.00	60.00	dump truck with f
					Truck driver	16	1	45.00	720	
Total (1:-01)					**Total (1:02)**				790.5	**Tot**

A= Materials Unit Cost **0** Birr/m³ B= Manpower Unit Cost **6.324** Birr/m³ C= Equipment Unit Cost

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

Hourly Output: Hourly output:

Direct Cost of Work Item = A+B+C = **109.52**

Over head cost : 8% 8.76

Profit Cost: 7% 8.28

Total Unit Cost : **126.57**

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: **EXCAVATION AND EARTH WORK.** LABOUR HOURLY OUTPUT:

WORK ITEM: (1.9.7) ***Borrow fill selected Materials from 15-20Km from the site.*** EQUIPEMENT: Machine

TOTAL QANTITY OF WORK ITEM: 1 m³ RESULT: 155.96

Material Cost (1:01)					Labour Cost (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
Selected material	m3	1.05		0	time kee)	1	1	10.50	10.50	loader
				0	Loader opr.	1	1	60.00	60.00	dump truck with f
				0	Truck driver	20	1	45.00	900	
				0						
				0						
				0						
				0						
				0						
				0						
Total (1:-01)				0	**Total (1:02)**				970.5	**Tot**

A= Materials Unit Cost **0** Birr/m³ B= Manpower Unit Cost **7.764** Birr/m³ C= Equipment Unit Cost

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

Hourly Output: Hourly output:

Direct Cost of Work Item = A+B+C = **134.96**

Over head cost : 8% 10.80

Profit Cost: 7% 10.20

Total Unit Cost : **155.96**

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: **EXCAVATION AND EARTH WORK.** LABOUR HOURLY OUTPUT:

WORK ITEM: (1.11.1) ***Cart away surplus excavated mats.0-5km from the site.*** EQUIPEMENT: Machine

TOTAL QANTITY OF WORK ITEM: 1 m³ RESULT: 72.85

Material Cost (1:01)					Labour Cost (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
					time kee)	1	1	10.50	10.50	loader
					Loader opr.	1	1	60.00	60.00	dump truck
					Truck driver	8	1	45.00	360.00	

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Total (1:-01)					**Total (1:02)**				430.5	**Tota**

A= Materials Unit Cost **0** Birr/m³ B= Manpower Unit Cost **3.444** Birr/m³ C= Equipment Unit Cost

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

Hourly Output: Hourly output:

Direct Cost of Work Item = A+B+C = **63.04**

Over head cost : 8% 5.04

Profit Cost: 7% 4.77

Total Unit Cost : **72.85**

Remark _____

UF: UTILIZATION FACTOR

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ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT: **EXCAVATION AND EARTH WORK.** LABOUR HOURLY OUTPUT:

WORK ITEM: (1.10.2) ***Cart away surplus excavated mats.5-10km from the site.*** EQUIPEMENT: Machine

TOTAL QANTITY OF WORK ITEM: 1 m³ RESULT: 97.14

Material Cost (1:01)					Labour Cost (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
					time kee)	1	1	10.50	10.50	loader
					Loader opr.	1	1	60.00	60.00	dump truck
					Truck driver	12	1	45.00	540.00	
Total (1:-01)					**Total (1:02)**				610.5	**Tota**

A= Materials Unit Cost **0** Birr/m³ B= Manpower Unit Cost **4.88244** Birr/m³ C= Equipment Unit Cost

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

Hourly Output: Hourly output:

Direct Cost of Work Item = A+B+C = **84.06**

Over head cost : 8% 6.72

Profit Cost: 7% 6.35

Total Unit Cost : **97.14**

Remark _____

UF: UTILIZATION FACTOR

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ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT: **EXCAVATION AND EARTH WORK.** LABOUR HOURLY OUTPUT:

WORK ITEM: (1.12.3) ***Cart away surplus excavated mats.10-15km from the site.*** EQUIPEMENT: Machine

TOTAL QANTITY OF WORK ITEM: 1 m³ RESULT: 126.57

Material Cost (1:01)					Labour Cost (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
					time kee)	1	1	10.50	10.50	loader
					Loader opr.	1	1	60.00	60.00	dump truck
					Truck driver	16	1	45.00	720	

_____ Data collested by _____ Prepared checked by _____ Approved by

Total (1:-01)		Total (1:02)	790.5	Tota

A= Materials Unit Cost **0** Birr/m³ B= Manpower Unit Cost **6.324** Birr/m³ C= Equipment Unit Cost

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

Hourly Output: Hourly output:

Direct Cost of Work Item = A+B+C = **109.52**

Over head cost : 8% 8.76

Profit Cost: 7% 8.28

Total Unit Cost : **126.57**

Remark _____

UF: UTILIZATION FACTOR

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ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT: **EXCAVATION AND EARTH WORK.** LABOUR HOURLY OUTPUT:

WORK ITEM: (1.11.4) ***Cart away surplus excavated mats.15-20km from the site.*** EQUIPEMENT: Machine

TOTAL QANTITY OF WORK ITEM: 1 m³ RESULT: 155.96

Material Cost (1:01)					Labour Cost (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
					time kee)	1	1	10.50	10.50	loader
					Loader opr.	1	1	60.00	60.00	dump truck
					Truck driver	20	1	45.00	900	
Total (1:-01)					**Total (1:02)**				970.5	**Tota**

A= Materials Unit Cost **0** Birr/m³ B= Manpower Unit Cost **7.764** Birr/m³ C= Equipment Unit Cost

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

Hourly Output: Hourly output:

Direct Cost of Work Item = A+B+C = **134.96**

Over head cost : 8% 10.80

Profit Cost: 7% 10.20

Total Unit Cost : **155.96**

Remark _____

UF: UTILIZATION FACTOR

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ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: **EXCAVATION AND EARTH WORK.** LABOUR HOURLY OUTPUT:

WORK ITEM: (1.12.1) ***Hauling surplus excavated material 2 km away*** EQUIPEMENTOUT PUT :

TOTAL QANTITY OF WORK ITEM: 1 m³ 12.6m³Truck RESULT: **62.48**

Material Cost (1:01)					**Labor Cost (1:02)**					**Equi**
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	** Indexed Hourly Cost	Hourly wage	Type of Equipment
					DL	1	0.1	12.50	1.25	dump truck with f
					Forman	1	0.04	23.75	0.95	loader
					Truck driver	1	1	45.00	45.00	
					Loader opr.	1	1	60.00	60.00	
					time kee)	1	1	10.50		
Total (1:-01)					**Total (1:02)**				107.20	**Tota**

A= Materials Unit Cost 0 Birr/m³ **B= Manpower Unit Cost** 3.30 Birr/m³ **C= Equipment Unit Cost**

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

Daily output: Daily output:

Direct Cost of Work Item = A+B+C = 54.07

_____ Data collested by _____ Prepared checked by _____ Approved by

Over head cost :	8%	4.33
Profit Cost:	7%	4.09
Total Unit Cost :		62.48

Remark _____

UF: UTILIZATION FACTOR **62.48**

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

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ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: **EXCAVATION AND EARTH WORK.** LABOUR HOURLY OUTPUT:

WORK ITEM: (1.12.2) **Hauling surplus excavated material 4 km away** EQUIPEMENTOUT PUT :

TOTAL QANTITY OF WORK ITEM: 1 m^3 12.6m^3Truck RESULT: **72.71**

Material Cost (1:01)					**Labor Cost (1:02)**					**Equi**
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	** Indexed Hourly Cost	Hourly wage	Type of Equipment
				0	DL	1	0.1	6.38	0.64	loader
				0	Forman	1	0.04	23.75	0.95	dump truck with f
				0	Truck driver	1	1	45.00	45.00	
				0	Loader opr.	1	1	60.00	60.00	
				0	time kee)	1	1			
				0						
				0						
				0						
				0						
Total (1:-01)				0	**Total (1:02)**				106.59	**Tota**

A= Materials Unit Cost 0 Birr/m^3 **B= Manpower Unit Cost** 4.06 Birr/m^3 **C= Equipment Unit Cost**

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

Daily output: Daily output:

Direct Cost of Work Item = A+B+C =		61.20
Over head cost :	8%	4.90
Profit Cost:	7%	6.61
Total Unit Cost :		72.71

Remark _____

UF: UTILIZATION FACTOR **72.71**

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ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: **EXCAVATION AND EARTH WORK.** LABOUR HOURLY OUTPUT:

WORK ITEM: (1.12.3) **Hauling surplus excavated material 6 km away** EQUIPEMENTOUT PUT :

TOTAL QANTITY OF WORK ITEM: 1 m^3 12.6m^3Truck RESULT: **90.51**

Material Cost (1:01)					**Labor Cost (1:02)**					**Equi**
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	** Indexed Hourly Cost	Hourly wage	Type of Equipment
					DL	1	1	6.38	6.38	dump truck with f
					Forman	1	0.04	23.75	0.95	loader
					Truck driver	1	1	45.00	45	
					Loader opr.	1	1	60.00	60.00	
					time kee)	1	1			
Total (1:-01)					**Total (1:02)**				112	**Tota**

A= Materials Unit Cost 0 Birr/m^3 **B= Manpower Unit Cost** 4.99 Birr/m^3 **C= Equipment Unit Cost**

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

Daily output: Daily output:

Direct Cost of Work Item = A+B+C =		78.33
Over head cost :	8%	6.27
Profit Cost:	7%	5.92
Total Unit Cost :		90.51

Remark _____

UF: UTILIZATION FACTOR **90.51**

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

_____ Data collested by _____ Prepared checked by _____ Approved by

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

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: **EXCAVATION AND EARTH WORK.** LABOUR HOURLY OUTPUT:
WORK ITEM: (1.12.4) **Hauling surplus excavated material 8 km away** EQUIPEMENTOUT PUT :
TOTAL QANTITY OF WORK ITEM: 1 m³ 12.6m³Truck RESULT: **101.50**

Material Cost (1:01)					**Labor Cost (1:02)**					**Equi**
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	** Indexed Hourly Cost	Hourly wage	Type of Equipment
				0	DL	1	0.1	6.38	0.64	dump truck with f
				0	Forman	1	0.04	23.75	0.95	loader
				0	Truck driver	1	1	45.00	45	
				0	Loader opr.	1	1	60.00	60.00	
				0	time kee)	1	1			
				0						
				0						
				0						
				0						
Total (1:-01)				0	**Total (1:02)**				107	**Tota**

A= Materials Unit Cost 0 Birr/m³ **B= Manpower Unit Cost** 5.33 Birr/m³ **C= Equipment Unit Cost**
Total of (1:02) Total of (1:03)
Daily output: Daily output:
Direct Cost of Work Item = A+B+C = 87.83
Over head cost : 8% 7.03
Profit Cost: 7% 6.64
Total Unit Cost : 101.50

Remark _____
UF: UTILIZATION FACTOR **101.50**
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**: INCLUSIVE OF BENEFITS, TRAVEL SUBSIDES AND COST OF OVERTIME RELATED TO TARGETED OUTPUT.

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: **EXCAVATION AND EARTH WORK.** LABOUR HOURLY OUTPUT:
WORK ITEM: (1.12.5) **Hand loading from stock pile, heavy soil or clay** EQUIPEMENTOUT PUT :
TOTAL QANTITY OF WORK ITEM: 1 m³ RESULT: **31.64**

Material Cost (1:01)					**Labor Cost (1:02)**					**Equi**
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	** Indexed Hourly Cost	Hourly wage	Type of Equipment
					DL	1	1	6.38	6.38	Tools
					G.Chief	1	0.1	10.50	1.05	
					Forman	1	0.25	23.75	5.94	
Total (1:-01)					**Total (1:02)**				13.36	**Tota**

A= Materials Unit Cost 0 Birr/m³ **B= Manpower Unit Cost** 19.80 Birr/m³ **C= Equipment Unit Cost**
Total of (1:02) Total of (1:03)
Daily output: Daily output:
Direct Cost of Work Item = A+B+C = 27.38
Over head cost : 8% 2.19
Profit Cost: 7% 2.07
Total Unit Cost : 31.64

Remark _____
UF: UTILIZATION FACTOR **31.64**
*: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.
**: INCLUSIVE OF BENEFITS, TRAVEL SUBSIDES AND COST OF OVERTIME RELATED TO TARGETED OUTPUT.

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: **EXCAVATION AND EARTH WORK.** LABOUR HOURLY OUTPUT:
WORK ITEM: (1.13.1) **25cm thick hard core.** EQUIPEMENTOUT PUT :
TOTAL QANTITY OF WORK ITEM: 1 m2 RESULT: **129.17**

_____ Data collested by _____ Prepared checked by _____ Approved by

Material Cost (1:01)					Labor Cost (1:02)					Equi
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	** Indexed Hourly Cost	Hourly wage	Type of Equipment
Basaltic stone	m^3	0.28	230	64.4	Mason-II	1	0.25	37.50	9.38	tools
					Helper	2	1	15.00	30.00	Sledge Hammer
					DL I	2	1	12.50	25.00	
					forman	1	0.25	37.50	9.38	
Total (1:-01)				64.4	**Total (1:02)**				73.75	**Tota**

A= Materials Unit Cost 64.4 Birr/m^2 **B= Manpower Unit Cost** 42.14 Birr/m^2 **C=Equipment Unit Cost**

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

Daily output: Daily output:

Direct Cost of Work Item = A+B+C = 112.33

Over head cost : 8% 8.99

Profit Cost: 7% 7.86

Total Unit Cost : 129.17

Remark _____

UF: UTILIZATION FACTOR **129.17**

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

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

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: **EXCAVATION AND EARTH WORK.** LABOUR HOURLY OUTPUT:

WORK ITEM: (1.13.2) **30-50 mm thick blinding.** EQUIPEMENTOUT PUT :

TOTAL QANTITY OF WORK ITEM: 1 m2 RESULT: **81.59**

Material Cost (1:01)					Labor Cost (1:02)					Equi
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	** Indexed Hourly Cost	Hourly wage	Type of Equipment
Basaltic stone	m^3	0.28	230.00	64.4	Mason-II	1	0.25	15.88	3.97	tool
					Helper	2	1	10.00	20.00	
					DL-II	2	1	6.38	12.75	
Total (1:-01)				64.4	**Total (1:02)**				36.72	**Tota**

A= Materials Unit Cost 64.4 Birr/m^2 **B= Manpower Unit Cost** 6.12 Birr/m^2 **C= Equipment Unit Cost**

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

Daily output: Daily output:

Direct Cost of Work Item = A+B+C = 70.95

Over head cost : 8% 5.68

Profit Cost: 7% 4.97

Total Unit Cost : 81.59

Remark _____

UF: UTILIZATION FACTOR **81.59**

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

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

_____ Data collested by_____Prepared checked by _____Approved by

0.15 m³/hr.
0.15 m³/hr.
Birr/m³

uipment Cost (1:03)		
No.	Hourly Rental	Hourly Cost
4	1.28	5.12
al (1:03)		5.12

34.13 Birr/m³

Birr/m²
"
"
Birr/m²

9 m²/hr.
9 m²/hr.
Birr/m²

uipment Cost (1:03)		
No.	Hourly Rental	Hourly Cost
2	1.28	2.56
al (1:03)		2.56

0.3 Birr/m²

Birr/m²
"
"
Birr/m²

7 m²/hr.
7 m²/hr.

Data collested by Prepared checked by Approved by

Birr/m²

uipment Cost (1:03)		
No.	Hourly Rental	Hourly Cost
2	1.28	2.56
al (1:03)		2.56

0.4 Birr/m²

Birr/m²
"
"
Birr/m²

5 m²/hr.
5 m²/hr.
Birr/m²

uipment Cost (1:03)		
No.	Hourly Rental	Hourly Cost
2	1.28	2.56
al (1:03)		2.56

0.5 Birr/m²

Birr/m²
"
"
Birr/m²

4.5 m²/hr.
4.5 m²/hr.
Birr/m²

uipment Cost (1:03)		
No.	Hourly Rental	Hourly Cost
2	1.28	2.56

al (1:03)		2.56

0.6 Birr/m²

Birr/m²
"
"
Birr/m²

7 m²/hr.
7 m²/hr.
Birr/m²

uipment Cost (1:03)		
No.	Hourly Rental	Hourly Cost
2	1.28	2.56
al (1:03)		2.56

0.4 Birr/m²

Birr/m²
"
"
Birr/m²

1 m²/hr.
1 m²/hr.
Birr/m²

uipment Cost (1:03)		
No.	Hourly Rental	Hourly Cost
2	1.28	2.56

al (1:03)		2.56

2.6 Birr/m²

Birr/m²
"
"
Birr/m²

1 pc/hr.
1 pc/hr.
Birr/pc

uipment Cost (1:03)		
No.	Hourly Rental	Hourly Cost
2	1.28	2.56
al (1:03)		2.56

2.6 Birr/pc

Birr/pc
"
"
Birr/pc

25 Kg/hr.
25 Kg/hr.
Birr/Kg

uipment Cost (1:03)		
No.	Hourly Rental	Hourly Cost
2	1.28	2.56
1	18.00	18
al (1:03)		20.56

0.8224 Birr/Kg

Birr/Kg
"
"
Birr/Kg

0.15 m³/hr.
0.15 m³/hr.
Birr/m³

ıipment Cost (1:03)		
No.	Hourly Rental	Hourly Cost
4	1.28	5.12
al (1:03)		5.12

34.13 Birr/m³

Birr/m²
"
"
Birr/m²

9 m²/hr.
9 m²/hr.
Birr/m²

ıipment Cost (1:03)		
No.	Hourly Rental	Hourly Cost
2	1.28	2.56
al (1:03)		2.56

0.3 Birr/m²

Birr/m²
"

"

Birr/m²

7 m²/hr.

7 m²/hr.

Birr/m²

uipment Cost (1:03)		
No.	Hourly Rental	Hourly Cost
2	1.28	2.56
al (1:03)		2.56

0.4 Birr/m²

Birr/m²

"

"

Birr/m²

5 m²/hr.

5 m²/hr.

Birr/m²

uipment Cost (1:03)		
No.	Hourly Rental	Hourly Cost
2	1.28	2.56
al (1:03)		2.56

0.5 Birr/m²

Birr/m²

"

"

Birr/m²

4.5 m²/hr.
4.5 m²/hr.

Birr/m²

ıipment Cost (1:03)		
No.	Hourly Rental	Hourly Cost
2	1.28	2.56
al (1:03)		2.56

0.6 Birr/m²

Birr/m²
"
"
Birr/m²

7 m²/hr.
7 m²/hr.

Birr/m²

ıipment Cost (1:03)		
No.	Hourly Rental	Hourly Cost
2	1.28	2.56
al (1:03)		2.56

0.4 Birr/m²

Birr/m²
"
"
Birr/m²

1 pc/hr.
1 pc/hr.

Birr/m²

uipment Cost (1:03)		
No.	Hourly Rental	Hourly Cost
2	1.28	2.56
al (1:03)		2.56

2.6 Birr/m²

Birr/m²
"
"
Birr/m²

1 pc/hr.
1 pc/hr.
Birr/pc

uipment Cost (1:03)		
No.	Hourly Rental	Hourly Cost
2	1.28	2.56
al (1:03)		2.56

2.6 Birr/pc

Birr/pc
"
"
Birr/pc

25 Kg/hr.
25 Kg/hr.
Birr/Kg

uipment Cost (1:03)		
No.	Hourly Rental	Hourly Cost
2	1.28	2.56

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1	18.00	18
al (1:03)		20.56

0.8224 Birr/Kg

Birr/Kg
"
"
Birr/Kg

0.15 m³/hr.
0.15 m³/hr.

Birr/m³

uipment Cost (1:03)		
No.	Hourly Rental	Hourly Cost
4	1.28	5.12
al (1:03)		5.12

34.13 Birr/m³

Birr/m²
"
"
Birr/m²

9 m²/hr.
9 m²/hr.

Birr/m²

uipment Cost (1:03)		
No.	Hourly Rental	Hourly Cost
2	1.28	2.56

al (1:03)		2.56

0.3 Birr/m²

Birr/m²
"
"
Birr/m²

7 m²/hr.
7 m²/hr.
Birr/m²

uipment Cost (1:03)		
No.	Hourly Rental	Hourly Cost
2	1.28	2.56
al (1:03)		2.56

0.4 Birr/m²

Birr/m²
"
"
Birr/m²

5 m²/hr.
5 m²/hr.
Birr/m²

uipment Cost (1:03)		
No.	Hourly Rental	Hourly Cost
2	1.28	2.56
al (1:03)		2.56

0.5 Birr/m²

Birr/m²
"
"
Birr/m²

4.5 m²/hr.
4.5 m²/hr.
Birr/m²

ıipment Cost (1:03)		
No.	Hourly Rental	Hourly Cost
2	1.28	2.56
al (1:03)		2.56

0.6 Birr/m²

Birr/m²
"
"
Birr/m²

7 m²/hr.
7 m²/hr.
Birr/m²

ıipment Cost (1:03)		
No.	Hourly Rental	Hourly Cost
2	1.28	2.56
al (1:03)		2.56

0.4 Birr/m²

Birr/m²
"
"
Birr/m²

1 pc/hr.
1 pc/hr.
Birr/m²

ıipment Cost (1:03)		
No.	Hourly Rental	Hourly Cost
2	1.28	2.56
al (1:03)		2.56

2.6 Birr/m²

Birr/m²
"
"
Birr/m²

1 pc/hr.
1 pc/hr.
Birr/pc

ıipment Cost (1:03)		
No.	Hourly Rental	Hourly Cost
2	1.28	2.56
al (1:03)		2.56

2.6 Birr/pc

Birr/pc
"
"
Birr/pc

25 Kg/hr.
25 Kg/hr.
Birr/Kg

uipment Cost (1:03)		
No.	Hourly Rental	Hourly Cost
2	1.28	2.56
1	18.00	18
al (1:03)		20.56

0.8224 Birr/Kg

Birr/Kg
"
"
Birr/Kg

0.15 m^3/hr.
0.15 m^3/hr.
Birr/m^3

uipment Cost (1:03)		
No.	Hourly Rental	Hourly Cost
4	1.28	5.12
al (1:03)		5.12

34.13 Birr/m^3

Birr/m^2
"
"
Birr/m^2

9 m^2/hr.
9 m^2/hr.

Birr/m²

ıipment Cost (1:03)		
No.	Hourly Rental	Hourly Cost
2	1.28	2.56
al (1:03)		2.56

0.3 Birr/m²

Birr/m²
"
"
Birr/m²

7 m²/hr.
7 m²/hr.
Birr/m²

ıipment Cost (1:03)		
No.	Hourly Rental	Hourly Cost
2	1.28	2.56
al (1:03)		2.56

0.4 Birr/m²

Birr/m²
"
"
Birr/m²

5 m²/hr.
5 m²/hr.
Birr/m²

ıipment Cost (1:03)		
No.	Hourly Rental	Hourly Cost

2	1.28	2.56
al (1:03)		2.56

0.5 Birr/m²

Birr/m²
"
"
Birr/m²

4.5 m²/hr.
4.5 m²/hr.
Birr/m²

uipment Cost (1:03)		
No.	Hourly Rental	Hourly Cost
2	1.28	2.56
al (1:03)		2.56

0.6 Birr/m²

Birr/m²
"
"
Birr/m²

7 m²/hr.
7 m²/hr.
Birr/m²

uipment Cost (1:03)		
No.	Hourly Rental	Hourly Cost
2	1.28	2.56

al (1:03)		2.56

0.4 Birr/m²

Birr/m²
"
"
Birr/m²

1 pc/hr.
1 pc/hr.
Birr/m²

uipment Cost (1:03)		
No.	Hourly Rental	Hourly Cost
2	1.28	2.56
al (1:03)		2.56

2.6 Birr/m²

Birr/m²
"
"
Birr/m²

1 pc/hr.
1 pc/hr.
Birr/pc

uipment Cost (1:03)		
No.	Hourly Rental	Hourly Cost
2	1.28	2.56
al (1:03)		2.56

2.6 Birr/pc

Birr/pc
"
"
Birr/pc

25 Kg/hr.
25 Kg/hr.
Birr/Kg

uipment Cost (1:03)		
No.	Hourly Rental	Hourly Cost
2	1.28	2.56
1	18.00	18
al (1:03)		20.56

0.8224 Birr/Kg

Birr/Kg
"
"
Birr/Kg

150 m²/hr.

Birr/m²

uipment Cost (1:03)		
No.	Hourly Rental	Hourly Cost
1	1.28	1.28
1	1450	1450
al (1:03)		1451.28

9.68 Birr/m²

Birr/m²

Data collested by Prepared checked by Approved by

"
"
Birr/m²

10 m²/hr.
10 m²/hr.
Birr/m²

ıipment Cost (1:03)		
No.	Hourly Rental	Hourly Cost
6	1.00	6
al (1:03)		6

0.6 Birr/m²

Birr/m²
"
"
Birr/m²

0.375 m³/hr.
0.375 m³/hr.
Birr/m³

ıipment Cost (1:03)		
No.	Hourly Rental	Hourly Cost
6	1.00	6
al (1:03)		6

16.0 Birr/m³

Birr/m³
"
"
Birr/m³

0.325 m³/hr.
0.325 m³/hr.

Birr/m³

ıipment Cost (1:03)		
No.	Hourly Rental	Hourly Cost
1	1.28	1.28
al (1:03)		1.28

3.9 Birr/m³

Birr/m³
"
"
Birr/m³

0.29 m³/hr.
0.29 m³/hr.

Birr/m³

ıipment Cost (1:03)		
No.	Hourly Rental	Hourly Cost
1	1.28	1.28
al (1:03)		1.28

4.5 Birr/m³

Birr/m³
"
"
Birr/m³

0.263 m³/hr.

0.263 m³/hr.

Birr/m³

uipment Cost (1:03)		
No.	Hourly Rental	Hourly Cost
1	1.28	1.28
al (1:03)		1.28

4.9 Birr/m³

Birr/m³
"
"
Birr/m³

0.25 m³/hr.
0.25 m³/hr.

Birr/m³

uipment Cost (1:03)		
No.	Hourly Rental	Hourly Cost
1	1.28	1.28
al (1:03)		1.28

5.1 Birr/m³

Birr/m³
"
"
Birr/m³

0.24 m³/hr.
0.24 m³/hr.

Birr/m³

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

1	1.28	1.28
al (1:03)		1.28

5.4 Birr/m³

Birr/m³
"
"
Birr/m³

0.23 m³/hr.
0.23 m³/hr.
Birr/m³

uipment Cost (1:03)		
No.	Hourly Rental	Hourly Cost
1	1.28	1.28
al (1:03)		1.28

5.7 Birr/m³

Birr/m³
"
"
Birr/m³

0.23 m³/hr
0.23 m³/hr
Birr/m³

ipment Cost (1:03)		
No.	Hourly Rental	Hourly Cost
1	0.625	0.625

al (1:03)		0.625

2.8 Birr/m³

t:
Birr/m³
"
"
Birr/m³

Birr/m³

0.2 m³/hr
0.2 m³/hr
Birr/m³

ipment Cost (1:03)

No.	Hourly Rental	Hourly Cost
1	0.625	0.63
al (1:03)		0.625

3.1 Birr/m³

Birr/m³
"
"
Birr/m³

Birr/m³

0.16 m³/hr
0.16 m³/hr
Birr/m³

03)

No.	Hourly Rental	Hourly Cost
2	1.28	2.56
1	1	0.63
		3.185

19.6 Birr/m³

_____ Data collested by _____ Prepared checked by _____ Approved by

3.2
1.3
Birr/m³
"
"
Birr/m³

Birr/m³

0.1375 m³/hr
0.1375 m³/hr
Birr/m³

ipment Cost (1:03)		
No.	Hourly Rental	Hourly Cost
2	1.28	2.56
1	1	5.00
al (1:03)		7.56

55.0 Birr/m³

Birr/m³
"
"
Birr/m³

Birr/m³

0.13 m³/hr
0.13 m³/hr
Birr/m³

03)		
No.	Hourly Rental	Hourly Cost
2	1.28	2.56
		2.56

20.5 Birr/m³

3.2
1.3
Birr/m³
"
"
Birr/m³

Birr/m³

0.1125 m³/hr
0.1125 m³/hr
Birr/m³

ipment Cost (1:03)		
No.	Hourly Rental	Hourly Cost
2	1.28	2.56
al (1:03)		2.56

22.8 Birr/m³

Birr/m³
"
"
Birr/m³

Birr/m³

0.10 m³/hr
0.10 m³/hr
Birr/m³

03)		
No.	Hourly Rental	Hourly Cost
2	1.28	2.56
		2.56

25.6 Birr/m³

3.2
1.3
Birr/m³
"
"
Birr/m³

Birr/m³

0.125 m³/hr

0.125 m³/hr

Birr/m³

ipment Cost (1:03)		
No.	Hourly Rental	Hourly Cost
2	1.28	2.56
al (1:03)		2.56

20 Birr/m³

Birr/m³

"

"

Birr/m³

Birr/m³

0.1 m³/hr

0.1 m³/hr

Birr/m³

ipment Cost (1:03)		
No.	Hourly Rental	Hourly Cost
2	1.28	2.56
al (1:03)		2.56

26 Birr/m³

3.2

1.3

Birr/m³

"

"

Birr/m³

Birr/m³

0.063 m³/hr

0.063 m³/hr

Birr/m³

ipment Cost (1:03)

No.	Hourly Rental	Hourly Cost
2	1.28	2.56
al (1:03)		2.56

41 Birr/m³

3.2
1.3
Birr/m³
"
"
Birr/m³

Birr/m³

0.0375 m³/hr
0.0375 m³/hr
Birr/m³

ipment Cost (1:03)

No.	Hourly Rental	Hourly Cost
2	1.28	2.56
al (1:03)		2.56

68 Birr/m³

3.2
1.3
Birr/m³
"
"
Birr/m³

Birr/m³

0.025 m³/hr
0.025 m³/hr
Birr/m³

ipment Cost (1:03)

No.	Hourly Rental	Hourly Cost
2	1.28	2.56

_____ Data collested by _____ Prepared checked by _____ Approved by

al (1:03)		2.56

102 Birr/m³

3.2

1.3

Birr/m³

"

"

Birr/m³

Birr/m³

0.0125 m³/hr

0.0125 m³/hr

Birr/m³

ipment Cost (1:03)		
No.	Hourly Rental	Hourly Cost
2	1.28	2.56
al (1:03)		2.56

205 Birr/m³

3.2

1.3

Birr/m³

"

"

Birr/m³

Birr/m³

0.011 m³/hr

0.011 m³/hr

Birr/m³

ipment Cost (1:03)		
No.	Hourly Rental	Hourly Cost
2	1.28	2.56

al (1:03)		2.56

228 Birr/m³

3.2

1.3

Birr/m³

"

"

Birr/m³

Birr/m³

31.25 m³/hr.

31.25 m³/hr.

Birr/m³

uipment Cost (1:03)		
No.	Hourly Rental	Hourly Cost
1	1.28	1.28
1	1200	1200
1	3002.4	3002.4
al (1:03)		4203.68

134.5 Birr/m³

Birr/m³

"

"

Birr/m³

23.13 m³/hr.

23.13 m³/hr.

Birr/m³

uipment Cost (1:03)		
No.	Hourly Rental	Hourly Cost
1	1.28	1.28
1	1200	1200
1	3002.4	3002.4
al (1:03)		4203.68

181.8 Birr/m³

Birr/m³
"
"
Birr/m³

17.5 m³/hr.
17.5 m³/hr.
Birr/m³

ıipment Cost (1:03)		
No.	Hourly Rental	Hourly Cost
1	1.28	1.28
1	1200	1200
1	3002.4	3002.4
al (1:03)		4203.68

240.2 Birr/m³

Birr/m³
"
"
Birr/m³

0.34 m³/hr
0.34 m³/hr
Birr/m³

ipment Cost (1:03)		
No.	Hourly Rental	Hourly Cost
2	1.28	2.56
al (1:03)		2.56

7.59 Birr/m³

Birr/m³
"

"
Birr/m³

Birr/m³

0.28 m³/hr
0.28 m³/hr
Birr/m³

ipment Cost (1:03)		
No.	Hourly Rental	Hourly Cost
2	1.28	2.56
al (1:03)		2.56

9.31 Birr/m³

Birr/m³
"
"
Birr/m³

Birr/m³

0.2 m³/hr
0.2 m³/hr
Birr/m³

ipment Cost (1:03)		
No.	Rental	Cost
2	1.28	2.56
al (1:03)		2.56

12.80 Birr/m³

Birr/m³
"
"
Birr/m³

Birr/m³

0.19 *m³/hr*
0.19 *m³/hr*
Birr/m³

ipment Cost (1:03)		
No.	Hourly Rental	Hourly Cost
2	*1.28*	*2.56*
al (1:03)		*2.56*

13.65 Birr/m³

Birr/m³
"
"
Birr/m³

Birr/m³

0.15 m³/rh
0.15 m³/hr
Birr/m³

ipment Cost (1:03)		
No.	Hourly Rental	Hourly Cost
2	*1.28*	*2.56*
al (1:03)		*2.56*

17.07 Birr/m³

Birr/m³
"
"
Birr/m³

Birr/m³

0.13 m³/hr
0.13 m³/hr
Birr/m³

ipment Cost (1:03)

No.	Hourly Rental	Hourly Cost
2	1.28	2.56
al (1:03)		2.56

20.48 Birr/m³

Birr/m³
"
"
Birr/m³

Birr/m³

0.11 m³/hr
0.11 m³/hr
Birr/m³

ipment Cost (1:03)

No.	Hourly Rental	Hourly Cost
2	1.28	2.56
al (1:03)		2.56

22.76 Birr/m³

Birr/m³
"
"
Birr/m³

Birr/m³

0.09 m³/hr
0.09 m³/hr
Birr/m³

ipment Cost (1:03)

No.	Hourly Rental	Hourly Cost
2	1.28	2.56

al (1:03)		*2.56*

29.26 Birr/m³

Birr/m³
"
"
Birr/m³

Birr/m³

0.05 m³/hr
0.05 m³/hr
Birr/m³

ipment Cost (1:03)		
No.	*Hourly Rental*	*Hourly Cost*
2	*1.28*	*2.56*
al (1:03)		*2.56*

51.20 Birr/m³

Birr/m³
"
"
Birr/m³

Birr/m³

0.09 m³/hr
0.09 m³/hr
Birr/m³

ipment Cost (1:03)		
No.	*Hourly Rental*	*Hourly Cost*
2	*1.28*	*2.56*
al (1:03)		*2.56*

29.26 Birr/m³

Birr/m³
"
"
Birr/m³

Birr/m³

0.063 m³/hr
0.063 m³/hr
Birr/m³

ipment Cost (1:03)		
No.	*Hourly Rental*	*Hourly Cost*
2	*1.28*	*2.56*
al (1:03)		*2.56*

40.96 Birr/m³

Birr/m³
"
"
Birr/m³

Birr/m³

0.04 m³/hr
0.04 m³/hr
Birr/m³

ipment Cost (1:03)		
No.	*Hourly Rental*	*Hourly Cost*
2	*1.28*	*2.56*
al (1:03)		*2.56*

68.27 Birr/m³

Birr/m³
"

"

Birr/m³

Birr/m³

75 m³/hr.

75 m³/hr.

Birr/m³

ıipment Cost (1:03)		
No.	Hourly Rental	Hourly Cost
1	1.28	1.28
1	1700	1700
al (1:03)		1701.28

22.7 Birr/m³

Birr/m³

"

"

Birr/m³

73.75 m³/hr.

73.75 m³/hr.

Birr/m³

ıipment Cost (1:03)		
No.	Hourly Rental	Hourly Cost
1	1.28	1.28
1	1700	1700
al (1:03)		1701.28

23.1 Birr/m³

Birr/m³

"

"

Birr/m³

62.5 m³/hr.
62.5 m³/hr.
Birr/m³

ıipment Cost (1:03)		
No.	Hourly Rental	Hourly Cost
1	1.28	1.28
1	1700	1700
al (1:03)		1701.28

27.2 Birr/m³

Birr/m³
"
"
Birr/m³

50.63 m³/hr.
50.63 m³/hr.
Birr/m³

ıipment Cost (1:03)		
No.	Hourly Rental	Hourly Cost
1	1.28	1.28
1	1700	1700
al (1:03)		1701.28

33.6 Birr/m³

Birr/m³
"
"
Birr/m³

40.63 m³/hr.
40.63 m³/hr.
Birr/m³

uipment Cost (1:03)		
No.	Hourly Rental	Hourly Cost
1	1.28	1.28
1	1700	1700
al (1:03)		1701.28

41.9 Birr/m³

Birr/m³
"
"
Birr/m³

33.13 m³/hr.
33.13 m³/hr.
Birr/m³

uipment Cost (1:03)		
No.	Hourly Rental	Hourly Cost
1	1.28	1.28
1	1700	1700
al (1:03)		1701.28

51.4 Birr/m³

Birr/m³
"
"
Birr/m³

26.25 m³/hr.
26.25 m³/hr.
Birr/m³

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

1	1.28	1.28
1	1700	1700
al (1:03)		1701.28

64.8 Birr/m³

Birr/m³
"
"
Birr/m³

31.25 m³/hr.
31.25 m³/hr.
Birr/m³

uipment Cost (1:03)		
No.	Hourly Rental	Hourly Cost
1	1,970	1970
1	1200	1200
al (1:03)		3170

101.4 Birr/m³

Birr/m³
"
"
Birr/m³

23.125 m³/hr.
23.125 m³/hr.
Birr/m³

uipment Cost (1:03)		
No.	Hourly Rental	Hourly Cost
1	1,970	1970
1	1200	1200

al (1:03)		3170

137.1 Birr/m³

Birr/m³
"
"
Birr/m³

17.5 m³/hr.
17.5 m³/hr.
Birr/m³

uipment Cost (1:03)		
No.	Hourly Rental	Hourly Cost
1	1,970	1970
1	1200	1200
al (1:03)		3170

181.1 Birr/m³

Birr/m³
"
"
Birr/m³

13.75 m³/hr.
13.75 m³/hr.
Birr/m³

uipment Cost (1:03)		
No.	Hourly Rental	Hourly Cost
1	1,970	1970
1	1200	1200
al (1:03)		3170

230.5 Birr/m³

Birr/m³
"
"
Birr/m³

11.25 m³/hr.
11.25 m³/hr.
Birr/m³

ıipment Cost (1:03)		
No.	Hourly Rental	Hourly Cost
1	1,970	1970
1	1200	1200
al (1:03)		3170

281.8 Birr/m³

Birr/m³
"
"
Birr/m³

8.75 m³/hr.
8.75 m³/hr.
Birr/m³

ıipment Cost (1:03)		
No.	Hourly Rental	Hourly Cost
1	1,970	1970
1	1200	1200
al (1:03)		3170

362.3 Birr/m³

Birr/m³
"

"
Birr/m³

8.125 m³/hr.
8.125 m³/hr.
Birr/m³

ıipment Cost (1:03)		
No.	Hourly Rental	Hourly Cost
1	1,970	1970
1	1200	1200
al (1:03)		3170

390.2 Birr/m³

Birr/m³
"
"
Birr/m³

28.125 m³/hr.
28.125 m³/hr.
Birr/m³

ıipment Cost (1:03)		
No.	Hourly Rental	Hourly Cost
1	1200	1,200
al (1:03)		1200

42.7 Birr/m³

Birr/m³
"
"
Birr/m³

26.25 m³/hr.
26.25 m³/hr.
Birr/m³

ıipment Cost (1:03)		
No.	Hourly Rental	Hourly Cost
1	1200	1,200
al (1:03)		1200

45.7 Birr/m³

Birr/m³
"
"
Birr/m³

21.25 m³/hr.
21.25 m³/hr.
Birr/m³

ıipment Cost (1:03)		
No.	Hourly Rental	Hourly Cost
1	1200	1,200
al (1:03)		1200

56.5 Birr/m³

Birr/m³
"
"
Birr/m³

18.125 m³/hr.
18.125 m³/hr.
Birr/m³

ıipment Cost (1:03)		
No.	Hourly Rental	Hourly Cost
1	1200	1,200
al (1:03)		1200

66.2 Birr/m³

Birr/m³
"
"
Birr/m³

16.25 m³/hr.
16.25 m³/hr.
Birr/m³

ıipment Cost (1:03)		
No.	Hourly Rental	Hourly Cost
1	1200	1,200
al (1:03)		1200

73.8 Birr/m³

Birr/m³
"
"
Birr/m³

15 m³/hr.
15 m³/hr.
Birr/m³

ıipment Cost (1:03)		
No.	Hourly Rental	Hourly Cost
1	1,200	1,200
al (1:03)		1200

80.0 Birr/m³

Birr/m³
"
"
Birr/m³

13.75 m³/hr.
13.75 m³/hr.
Birr/m³

ıipment Cost (1:03)		
No.	Hourly Rental	Hourly Cost
1	1,200	1,200
al (1:03)		1200

87.3 Birr/m³

Birr/m³
"
"
Birr/m³

31.25 m³/hr.
Birr/m³

ıipment Cost (1:03)		
No.	Hourly Rental	Hourly Cost
1	1,970	1,970
1	1200	1,200

al (1:03)		3170

101.4 Birr/m³

Birr/m³
"
"
Birr/m³

21.88 m³/hr.

Birr/m³

uipment Cost (1:03)		
No.	Hourly Rental	Hourly Cost
1	1,970	1,970
1	1200	1,200
al (1:03)		3170

144.9 Birr/m³

Birr/m³
"
"
Birr/m³

14.38 m³/hr.

Birr/m³

uipment Cost (1:03)		
No.	Hourly Rental	Hourly Cost
1	1,970	1,970
1	1200	1,200
al (1:03)		3170

220.5 Birr/m³

Birr/m³
"
"
Birr/m³

0.73 m³/hr
0.73 m³/hr
Birr/m³

ipment Cost (1:03)		
No.	Hourly Rental	Hourly Cost
1	1.00	1
1	150.00	150
al (1:03)		151

208 Birr/m³

Birr/m³
"
"
Birr/m³

Birr/m³

0.73 m³/hr
0.73 m³/hr
Birr/m³

ipment Cost (1:03)		
No.	Hourly Rental	Hourly Cost
1	1.28	1.28
1	15.00	15
al (1:03)		16.28

22 Birr/m³

Birr/m³
"
"
Birr/m³

Birr/m³

1.50 m³/hr
1.50 m³/hr
Birr/m³

ipment Cost (1:03)		
No.	Hourly Rental	Hourly Cost
1	1.28	1.28
2	-	0
al (1:03)		1.28

0.85 Birr/m³

Birr/m³
"
"
Birr/m³

Birr/m³

1.44 m³/hr
1.44 m³/hr
Birr/m³

ipment Cost (1:03)		
No.	Hourly Rental	Hourly Cost
1	1.28	1.28
4	5.00	20
al (1:03)		21.28

15 Birr/m³

Birr/m³
"
"
Birr/m³

Birr/m³

6.25 m³/hr
6.25 m³/hr
Birr/m³

ipment Cost (1:03)		
No.	Hourly Rental	Hourly Cost
1	1.28	1.28
1	650.00	650
		651.28

104 Birr/m³

Birr/m³
"
"
Birr/m³

Birr/m³

125 m³/hr.

Birr/m³

1:03)		
No.	Hourly Rental	Hourly Cost
1	900	900
6	750	4500
		5400

43.2 Birr/m³

Birr/m³
"
"
Birr/m³

125 m³/hr.

Birr/m³

ıipment Cost (1:03)		
No.	Hourly Rental	Hourly Cost
1	900	900
8	750	6000
al (1:03)		6900

55.2 Birr/m³

Birr/m³
"
"
Birr/m³

125 m³/hr.

Birr/m³

ıipment Cost (1:03)		
No.	Hourly Rental	Hourly Cost
1	900	900
12	750	9000
al (1:03)		9900

79.2 Birr/m³

Birr/m³
"
"
Birr/m³

125 m³/hr.

Birr/m³

ıipment Cost (1:03)

No.	Hourly Rental	Hourly Cost
1	900	900
16	750	12000
al (1:03)		12900

103.2 Birr/m³

Birr/m³
"
"
Birr/m³

125 m³/hr.

Birr/m³

uipment Cost (1:03)		
No.	Hourly Rental	Hourly Cost
1	900	900
20	750	15000
al (1:03)		15900

127.2 Birr/m³

Birr/m³
"
"
Birr/m³

125 m³/hr.
125 m³/hr.

Birr/m³

uipment Cost (1:03)		
No.	Hourly Rental	Hourly Cost
1	1450	1450
8	750	6000

al (1:03)		7450

59.6 Birr/m³

Birr/m³
"
"
Birr/m³

125.04 m³/hr.

Birr/m³

uipment Cost (1:03)		
No.	Hourly Rental	Hourly Cost
1	900	900
12	750	9000
al (1:03)		9900

79.2 Birr/m³

Birr/m³
"
"
Birr/m³

125 m³/hr.
125 m³/hr.
Birr/m³

uipment Cost (1:03)		
No.	Hourly Rental	Hourly Cost
1	900	900
16	750	12000

al (1:03)	12900

103.2 Birr/m³

Birr/m³
"
"
Birr/m³

125 m³/hr.

Birr/m³

uipment Cost (1:03)		
No.	Hourly Rental	Hourly Cost
1	900	900
20	750	15000
al (1:03)		15900

127.2 Birr/m³

Birr/m³
"
"
Birr/m³

32.5 m³/hr
32.5 m³/hr

Birr/m³

ipment Cost (1:03)		
No.	Hourly Rental	Hourly Cost
1	750	750
1	900	900
al (1:03)		1650

50.8 Birr/m³

Birr/m³

"
"
Birr/m³

Birr/m³

26.25 m³/hr
26.25 m³/hr
Birr/m³

ipment Cost (1:03)		
No.	Hourly Rental	Hourly Cost
1	900	900
1	600	600
al (1:03)		1500

57.1 Birr/m³

Birr/m³
"
"
Birr/m³

Birr/m³

22.5 m³/hr
22.5 m³/hr
Birr/m³

ipment Cost (1:03)		
No.	Hourly Rental	Hourly Cost
1	750	750
1	900	900
al (1:03)		1650

73 Birr/m³

Birr/m³
"
"
Birr/m³

Birr/m³

20 m³/hr
20 m³/hr
Birr/m³

ipment Cost (1:03)		
No.	Hourly Rental	Hourly Cost
1	750	750
1	900	900
al (1:03)		1650

83 Birr/m³

Birr/m³
"
"
Birr/m³

Birr/m³

0.675 m³/hr
0.675 m³/hr
Birr/m³

ipment Cost (1:03)		
No.	Hourly Rental	Hourly Cost
4	1.28	5.12
al (1:03)		5.12

7.59 Birr/m³

Birr/m³
"
"
Birr/m³

Birr/m³

1.75 m2/hr
1.75 m2/hr
Birr/m²

ipment Cost (1:03)		
No.	Hourly Rental	Hourly Cost
4	1.28	5.12
1	5	5
al (1:03)		10.12

5.78 Birr/m²

Birr/m²
"
"
Birr/m²

Birr/m²

6 m2/hr
6 m2/hr
Birr/m²

ipment Cost (1:03)		
No.	Hourly Rental	Hourly Cost
2	1.28	2.56
al (1:03)		2.56

0.43 Birr/m²

Birr/m²
"
"
Birr/m²

Birr/m²

ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT: ***CONCRETE WORK***

WORK ITEM: (2.7.1) **C-5 Lean Concrete (mechanical mix) (C-5)**

TOTAL QUANTITY OF WORK ITEM: 1 m^2 0.05 m. thick

LABOUR HOURLY OUTP

EQUIPEMENT:

RESULT: 84.30

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
Cement	Qnt.	1.8	380.00	684.00	Foreman	1	0.25	33.33	8.33
Sand	m3	0.59	562.50	331.88	mason	1	1	37.50	37.50
Gravel (02)	m^3	0.87	500.00	435.00	DL	15	1	18.75	281.25
Water	m^3	0.13	3.45	0.43	G.CHIEF	1	1	25.00	25.00
					Mixer Ope.	*1*	*1*	*25.00*	25.00
Total (1:-01)				1451.31	**Total (1:02)**				377.08

A= Materials Unit Cost **1451.31** Br./m^2

B=Manpower Unit Cost **12.57** Br./m^2

Total of (1:02) 5.65

Hourly Output 6.25

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

Overhead Cost: 8%

Profit Cost: 7%

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.

_____Data collected by _____Prepared checked by _____Approved by

ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT: ***CONCRETE WORK***
WORK ITEM: (2.7.1) **C-7 Lean Concrete (mechanical mix) (C-5)**
TOTAL QUANTITY OF WORK ITEM: 1 m^2 0.07 m. thick

LABOUR HOURLY OUTP
EQUIPEMENT:
RESULT: 47.57

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
Cement	Qnt.	1.5		0.00	Foreman	1	0.25	23.75	5.94
Sand	m3	0.42	448.96	188.56	mason	1	1	15.88	15.88
Gravel (02)	m^3	0.84	470.68	395.37	DL	15	1	6.38	95.63
Water	m^3	0.06	3.45	0.21	G.CHIEF	1	1	10.50	10.50
					Mixer Ope.	*1*	*1*	*9.13*	9.13
Total (1:-01)				584.14	**Total (1:02)**				137.06

A= Materials Unit Cost **584.14** Br./m^2

B=Manpower Unit Cost **4.57** Br./m^2

Total of (1:02) 5.65
Hourly Output 6.25
Direct Cost of work item= A+B+C=
Overhead Cost: 8%
Profit Cost: 7%
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.

_____Data collected by _____Prepared checked by _____Approved by

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: **CONCRETE WORK** LABOR DAILY OUTPUT:

WORK ITEM:(2.7.2) **Light weight concrete** EQUIPMENT DAILY OUT

TOTAL QUANTITY OF WORK ITEM: **1m³** 1 m³ RESULT:

Material Cost (1:01)					**Labor (1:02)**				
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	Indexed Hourly Cost	Hourly Cost
				0.0	Foreman	1	0.25	23.75	5.94
Sand	m3	0.39	390.40	152.3	Plasterer	2	1	15.38	30.75
Gravel (02)	m3	0.39	409.29	159.62	Carpenter	1	1	8.50	8.5
Water	m3	0.13	3.00	0.39	Bar bender	1	1	7.25	7.25
Pumice	m3	0.39	131.14	51.14	DL	18	1	6.38	114.75
Total (1:-01)				363.41	**Total (1:02)**				167.19

A= Materials Unit Cost 363.41 Birr/m³ **B=Manpower Unit Cost** 111.46 Br./m³

Total of (1:02) 12.08

Daily Output 0.625

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

Overhead Cost: 8%

Profit Cost: 7%

Total :

Vat:

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.

_____Data collected by _____Prepared checked by _____Approved by

ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT: ***CONCRETE WORK*** LABOUR HOURLY OUTP

WORK ITEM: (2.7.3) **C-15 Concrete (mass concrete) (Mechanical Mix) 1:2:3** EQUIPEMENT: Mixer &

TOTAL QUANTITY OF WORK ITEM: 1 m^3 2.3 RESULT:

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
Cement	Qnt.	2.8		0.00	Foreman	1	0.5	23.75	11.88
Sand	m3	0.55	448.96	246.93	Plasterer	2	1	10.50	21.00
Gravel (02)	m^3	0.74	470.68	348.30	Carpenter	1	1	8.50	8.50
Water	m^3	0.20	3.45	0.69	Bar bender	1	1	7.25	
					D/L	18	1	6.38	114.75
					vibrator operato	1	1	8.75	8.75
					mixure operato	1	1	9.13	9.125
Total (1:-01)				595.92	**Total (1:02)**				174.00
									1392.00

A= Materials Unit Cost **595.92** Birr/m^3 B=Manpower Unit Cost **116.00** Br./m^3

Total of (1:02) 174.00

Hourly Output 1.5

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

Overhead Cost: 176.22 8%

Profit Cost: 7%

Total Unit Cost :

Remark _____

UF: UTILIZATION FACTOR

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

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

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: ***CONCRETE WORK*** LABOUR HC

_____Data collected by _____Prepared checked by _____Approved by

WORK ITEM:(2.4.1) ***C-20 Concrete Ground slab, Footing, Mat foundation*** *EQUIPMENT*

TOTAL QUANTITY OF WORK ITEM: ***1m³*** *1 m³* *RESULT:*

Material Cost (1:01)					***Labor (1:02)***				
Type of Material	*Unit*	*Qty **	*Rate*	*Cost per Unit*	*Labor by Trade*	*No.*	*UF*	*Indexed hourly Cost*	*Daily Cost*
Cement	*Qtl..*	*3.2*		*0.00*	*Foreman*	*1*	*0.5*	*23.75*	*11.875*
Sand	*m3*	*0.45*	*448.96*	*202.03*	*Plasterer I*	*2*	*1*	*15.38*	*30.75*
Gravel (02)	*m3*	*0.83*	*470.68*	*390.66*	Carpenter I	1	1	16.75	*16.75*
Water	*m3*	*0.21*	*3.45*	*0.72*	*Bar bender*	*1*	*1*	*7.25*	*7.25*
					DL II	*18*	*1*	*7.50*	*135*
					Vibrator Ope.	*1*	*1*	*8.75*	*8.75*
					Mixer Ope.	*1*	*1*	*9.13*	*9.125*
Total (1:-01)				*593.41*	***Total (1:02)***				*219.50*

A= Materials Unit Cost *593 Birr/m³* ***B=Manpower Unit Cost*** *146.33 Br./m³*

Total of (1:02)

Daily Output

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

Overhead Cost: *8%*

Profit Cost: *7%*

Total :

Vat

Total unit cost:

Remark _____

UF: UTILIZATION FACTOR

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

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

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: ***CONCRETE WORK*** LABOUR HO

_____Data collected by _____Prepared checked by _____Approved by

WORK ITEM:(2.4.1) ***C-20 Concrete 50cm thick mat slab.*** *EQUIPMENT*

TOTAL QUANTITY OF WORK ITEM: ***1m³*** *1 m³* *0.5* *RESULT:*

Material Cost (1:01)					***Labor (1:02)***				
Type of Material	*Unit*	*Qty **	*Rate*	*Cost per Unit*	*Labor by Trade*	*No.*	*UF*	*Indexed hourly Cost*	*Daily Cost*
Cement	*Qtl..*	*3.2*		*0.00*	*Foreman*	*1*	*0.5*	*23.75*	*11.875*
Sand	*m3*	*0.45*	*448.96*	*202.03*	*Plasterer I*	*2*	*1*	*15.38*	*30.75*
Gravel (02)	*m3*	*0.83*	*470.68*	*390.66*	Carpenter I	1	1	16.75	*16.75*
Water	*m3*	*0.21*	*3.45*	*0.72*	*Bar bender*	*1*	*1*	*7.25*	*7.25*
					DL II	*18*	*1*	*7.50*	*135*
					Vibrator Ope.	*1*	*1*	*8.75*	*8.75*
					Mixer Ope.	*1*	*1*	*9.13*	*9.125*
Total (1:-01)				*593.41*	***Total (1:02)***				*219.50*

A= Materials Unit Cost *593 Birr/m³* ***B=Manpower Unit Cost*** *146.33 Br./m³*

Total of (1:02)

Daily Output

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

Overhead Cost: *8%*

Profit Cost: *7%*

Total :

Vat

Total unit cost:

Remark _____

UF: UTILIZATION FACTOR

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

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

ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT: ***CONCRETE WORK*** LABOUR HOURLY OUTP

_____Data collected by _____Prepared checked by _____Approved by

WORK ITEM (2.5.2) ***C-20 Concrete Foundation Column*** EQUIPEMENT: Mixer &

TOTAL QUANTITY OF WORK ITEM: _ 1 m^3 RESULT:

Material Cost (1:01)					Labour (1:02)				
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labour byTrade	No.	UF	** Indexed Hourly Cost	Hourly Cost
Cement	Qnt.	3.65		0.00	Forman	1	1/2	23.75	11.88
Sand	m3	0.44	448.96	197.54	Plasterer	2	1	15.38	30.75
Gravel (02)	m^3	0.81	470.68	381.25	Carpenter	1	1	16.75	16.75
Water	m^3	0.24	3.45	0.83	Bar bender	1	1	7.25	7.25
					Daily labourer	18	1	7.50	135.00
					vibrator operato	1	1	8.75	8.75
					mixure operato	1	1	9.13	9.13
Total (1:-01)				579.62	**Total (1:02)**				219.50
									206.5882

A= Materials Unit Cost **579.62** Birr/m^2 B=Manpower Unit Cost **206.59** Br./m^2

Total of (1:02)

Hourly Output

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

Overhead Cost: 8%

Profit Cost: 7%

Total Unit Cost :

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 COSTS

_____Data collected by _____Prepared checked by _____Approved by

PROJECT: ***CONCRETE WORK*** LABOUR HOURLY OUTP

WORK ITEM: (2.4.2) ***C-20 Concrete Grade beam*** *EQUIPMENT DAILY OUT*

TOTAL QUANTITY OF WORK ITEM: ***1m³*** *1 m³* *RESULT:*

Material Cost (1:01)					***Labor (1:02)***				
Type of Material	*Unit*	*Qty **	*Rate*	*Cost per Unit*	*Labor by Trade*	*No.*	*UF*	*Indexed hourly Cost*	*Daily Cost*
Cement	*Qtl..*	*3.2*		*0.00*	*Foreman*	*1*	*0.5*	*23.75*	*11.875*
Sand	*m3*	*0.45*	*448.96*	*202.03*	*Plasterer I*	*2*	*1*	*15.38*	*30.75*
Gravel (02)	*m3*	*0.83*	*470.68*	*390.66*	*Carpenter I*	*1*	*1*	*16.75*	*16.75*
Water	*m3*	*0.208*	*3.45*	*0.72*	*Bar bender I*	*1*	*1*	*7.25*	*7.25*
					DL I	*18*	*1*	*6.38*	*114.75*
					Vibrator Ope.	*1*	*1*	*8.75*	*8.75*
					Mixer Ope.	*1*	*1*	*9.13*	*9.125*
Total (1:-01)				*593.41*	***Total (1:02)***				*199.25*

A= Materials Unit Cost *593 Birr/m³* ***B=Manpower Unit Cost*** *151.81 Br./m³*

Total of (1:02)

Daily Output

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

Overhead Cost: *8%*

Profit Cost: *7%*

Total :

Vat

Total unit cost:

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 COSTS

_____Data collected by _____Prepared checked by _____Approved by

PROJECT: ***CONCRETE WORK*** LABOUR HOURLY OUTP

WORK ITEM: (2.4.2) ***C-20 Concrete Ground floor slab*** *EQUIPMENT DAILY OUT*

TOTAL QUANTITY OF WORK ITEM: ***1m³*** *1 m³* *0.1 m thick* *RESULT:*

Material Cost (1:01)					***Labor (1:02)***				
Type of Material	*Unit*	*Qty **	*Rate*	*Cost per Unit*	*Labor by Trade*	*No.*	*UF*	*Indexed hourly Cost*	*Daily Cost*
Cement	*Qtl..*	*3.2*		*0.00*	*Foreman*	*1*	*0.5*	*23.75*	*11.875*
Sand	*m3*	*0.45*	*448.96*	*202.03*	*Plasterer I*	*2*	*1*	*15.38*	*30.75*
Gravel (02)	*m3*	*0.83*	*470.68*	*390.66*	*Carpenter I*	*1*	*1*	*16.75*	*16.75*
Water	*m3*	*0.21*	*3.45*	*0.72*	*Bar bender I*	*1*	*1*	*7.25*	*7.25*
					DL I	*18*	*1*	*6.38*	*114.75*
					Vibrator Ope.	*1*	*1*	*8.75*	*8.75*
					Mixer Ope.	*1*	*1*	*9.13*	*9.125*
Total (1:-01)				*593.41*	***Total (1:02)***				*199.25*

A= Materials Unit Cost *593 Birr/m³* ***B=Manpower Unit Cost*** *132.83 Br./m³*

Total of (1:02)

Daily Output

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

Overhead Cost: *8%*

Profit Cost: *7%*

Total :

Vat

Total unit cost:

Remark _____

UF: UTILIZATION FACTOR

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

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

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

_____Data collected by _____Prepared checked by _____Approved by

PROJECT: ***CONCRETE WORK*** LABOUR HOURLY OUTP

WORK ITEM: (2.4.2) ***C-20 Concrete Ground floor slab*** *EQUIPMENT DAILY OUT*

TOTAL QUANTITY OF WORK ITEM: ***1m³*** *1 m³* *0.17 m thick* *RESULT:*

Material Cost (1:01)					***Labor (1:02)***				
Type of Material	*Unit*	*Qty **	*Rate*	*Cost per Unit*	*Labor by Trade*	*No.*	*UF*	*Indexed hourly Cost*	*Daily Cost*
Cement	*Qtl..*	*3.2*		*0.00*	*Foreman*	*1*	*0.5*	*23.75*	*11.875*
Sand	*m3*	*0.45*	*448.96*	*202.03*	*Plasterer I*	*2*	*1*	*15.38*	*30.75*
Gravel (02)	*m3*	*0.83*	*470.68*	*390.66*	*Carpenter I*	*1*	*1*	*16.75*	*16.75*
Water	*m3*	*0.21*	*3.45*	*0.72*	*Bar bender I*	*1*	*1*	*7.25*	*7.25*
					DL I	*18*	*1*	*6.38*	*114.75*
					Vibrator Ope.	*1*	*1*	*8.75*	*8.75*
					Mixer Ope.	*1*	*1*	*9.13*	*9.125*
Total (1:-01)				*593.41*	***Total (1:02)***				*199.25*

A= Materials Unit Cost *593 Birr/m³* ***B=Manpower Unit Cost*** *132.83 Br./m³*

Total of (1:02)

Daily Output

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

Overhead Cost: *8%*

Profit Cost: *7%*

Total :

Vat

Total unit cost:

Remark _____

UF: UTILIZATION FACTOR

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

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

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

_____Data collected by _____Prepared checked by _____Approved by

PROJECT: ***CONCRETE WORK*** LABOUR HOURLY OUTP

WORK ITEM: (2.4.2) ***C-20 Concrete Ground floor slab*** *EQUIPMENT DAILY OUT*

TOTAL QUANTITY OF WORK ITEM: ***1m³*** *1 m³* *0.18 m thick* *RESULT:*

Material Cost (1:01)					***Labor (1:02)***				
Type of Material	*Unit*	*Qty **	*Rate*	*Cost per Unit*	*Labor by Trade*	*No.*	*UF*	*Indexed hourly Cost*	*Daily Cost*
Cement	*Qtl..*	*3.2*		*0.00*	*Foreman*	*1*	*0.5*	*23.75*	*11.875*
Sand	*m3*	*0.45*	*448.96*	*202.03*	*Plasterer I*	*2*	*1*	*15.38*	*30.75*
Gravel (02)	*m3*	*0.83*	*470.68*	*390.66*	*Carpenter I*	*1*	*1*	*16.75*	*16.75*
Water	*m3*	*0.21*	*3.45*	*0.72*	*Bar bender I*	*1*	*1*	*7.25*	*7.25*
					DL I	*18*	*1*	*6.38*	*114.75*
					Vibrator Ope.	*1*	*1*	*8.75*	*8.75*
					Mixer Ope.	*1*	*1*	*9.13*	*9.125*
Total (1:-01)				*593.41*	***Total (1:02)***				*199.25*

A= Materials Unit Cost *593 Birr/m³* ***B=Manpower Unit Cost*** *132.83 Br./m³*

Total of (1:02)

Daily Output

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

Overhead Cost: *8%*

Profit Cost: *7%*

Total :

Vat

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.*

_____Data collected by _____Prepared checked by _____Approved by

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: ***CONCRETE WORK*** LABOUR HOURLY OUTP

WORK ITEM: (2.4.3) ***C-20 Concrete in foundation column*** *EQUIPMENT HOURLY O*

TOTAL QUANTITY OF WORK ITEM: ***1m³*** *1 m³* *RESULT:*

Material Cost (1:01)					***Labor (1:02)***				
Type of Material	*Unit*	*Qty **	*Rate*	*Cost per Unit*	*Labor by Trade*	*No.*	*UF*	*** Indexed Daily Cost*	*Daily Cost*
Cement	*Qtl..*	*3.2*		*0.00*	*Foreman*	*1*	*0.5*	*23.75*	*11.875*
Sand	*m3*	*0.45*	*448.96*	*202.03*	*Plasterer I*	*2*	*1*	*15.38*	*30.75*
Gravel (02)	*m3*	*0.83*	*470.68*	*390.66*	*Carpenter*	*1*	*1*	*16.75*	*16.75*
Water	*m3*	*0.208*	*3.45*	*0.72*	*Bar bender*	*1*	*1*	*7.25*	*7.25*
					DL I	*18*	*1*	*6.38*	*114.75*
					Vibrator Ope.	*1*	*1*	*8.75*	*8.75*
					Mixer Ope.	*1*	*1*	*9.13*	*9.125*
Total (1:-01)				*593.41*	***Total (1:02)***				*199.25*

A= Materials Unit Cost *593 Birr/m³* ***B=Manpower Unit Cost*** *187.53 Br./m³*

Total of (1:02)

Daily Output

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

Overhead Cost: *8%*

Profit Cost: *7%*

Total :

Vat

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.*

_____Data collected by _____Prepared checked by _____Approved by

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: ***CONCRETE WORK*** LABOUR HOURLY OUTP

WORK ITEM:(2.4.4) ***C-20 Concrete shear wall, lift shaft*** *EQUIPMENT HOURLY O*

TOTAL QUANTITY OF WORK ITEM: ***1m³*** *1 m³* *RESULT:*

Material Cost (1:01)					***Labor (1:02)***				
Type of Material	*Unit*	*Qty **	*Rate*	*Cost per Unit*	*Labor by Trade*	*No.*	*UF*	*** Indexed Daily Cost*	*Daily Cost*
Cement	*Qtl..*	*3.2*		*0.00*	*Foreman*	*1*	*0.5*	*23.75*	*11.875*
Sand	*m3*	*0.45*	*448.96*	*202.03*	*Plasterer I*	*2*	*1*	*15.38*	*30.75*
Gravel (02)	*m3*	*0.83*	*470.68*	*390.66*	*Carpenter*	*1*	*1*	*16.75*	*16.75*
Water	*m3*	*0.208*	*3.45*	*0.72*	*Bar bender*	*1*	*1*	*7.25*	*7.25*
					DL II	*18*	*1*	*6.38*	*114.75*
					Vibrator Ope.	*1*	*1*	*8.75*	*8.75*
					Mixer Ope.	*1*	*1*	*9.13*	*9.125*
Total (1:-01)				*593.41*	***Total (1:02)***				*199.25*

A= Materials Unit Cost *593 Birr/m³* ***B=Manpower Unit Cost*** *212.53 Br./m³*

Total of (1:02)

Daily Output

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

Overhead Cost: *8%*

Profit Cost: *7%*

Total :

Vat

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.*

_____Data collected by _____Prepared checked by _____Approved by

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: ***CONCRETE WORK*** LABOUR HOURLY OUTP

WORK ITEM: (2.4.5) ***C-25 Concrete stair case*** *EQUIPMENT DAILY OUT*

TOTAL QUANTITY OF WORK ITEM: ***1m³*** *1 m³* *RESULT:*

Material Cost (1:01)					***Labor (1:02)***				
Type of Material	*Unit*	*Qty **	*Rate*	*Cost per Unit*	*Labor by Trade*	*No.*	*UF*	*** Indexed Daily Cost*	*Daily Cost*
Cement	*Qtl..*	*3.2*	*380.00*	*1216.00*	*Foreman*	*1*	*0.5*	*23.75*	*11.875*
Sand	*m3*	*0.45*	*448.96*	*202.03*	*Plasterer I*	*2*	*1*	*15.38*	*30.75*
Gravel (02)	*m3*	*0.83*	*470.68*	*390.66*	*Carpenter*	*1*	*1*	*16.75*	*16.75*
Water	*m3*	*0.208*	*3.45*	*0.72*	*Bar bender*	*1*	*1*	*7.25*	*7.25*
					DL II	*18*	*1*	*6.38*	*114.75*
					Vibrator Ope.	*1*	*1*	*8.75*	*8.75*
					Mixer Ope.	*1*	*1*	*9.13*	*9.125*
Total (1:-01)				*1809.41*	***Total (1:02)***				*199.25*

A= Materials Unit Cost *1809 Birr/m³* ***B=Manpower Unit Cost*** *144.91 Br./m³*

Total of (1:02)

Daily Output

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

Overhead Cost: *8%*

Profit Cost:

Total :

Vat

Total unit cost:

Remark _____

UF: UTILIZATION FACTOR

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

_____Data collected by _____Prepared checked by _____Approved by

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

ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT: ***CONCRETE WORK*** LABOUR HOURLY OUTP

WORK ITEM: (2.5.1) ***C-25 Concretein ground slab footing & Mat Foundation*** EQUIPEMENT: Mixer &

TOTAL QUANTITY OF WORK ITEM: _ 1 m^3 RESULT:

Material Cost (1:01)					Labour (1:02)				
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labour byTrade	No.	UF	** Indexed Hourly Cost	Hourly Cost
Cement	Qnt.	3.65	380.00	1387.00	*Foreman*	1	1/2	23.75	11.88
Sand	m3	0.44	448.96	197.54	*Plasterer I*	2	1.00	15.38	30.75
Gravel (02)	m^3	0.81	470.68	381.25	Carpenter I	1	1	16.75	16.75
Water	m^3	0.24	3.45	0.83	*Bar bender I*	1	1.00	7.25	7.25
					DL I	18	1.00	6.38	114.75
					Vibrator Ope.	1	1	8.75	8.75
					Mixer Ope.	1	1	9.13	9.13
Total (1:-01)				1966.62	**Total (1:02)**				199.25

A= Materials Unit Cost **1966.62** Birr/m^2 B=Manpower Unit Cost **132.83** Br./m^2

Total of (1:02)

Hourly Output

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

Overhead Cost: 10%

Profit Cost: 15%

Total Unit Cost :

Remark _____

UF: UTILIZATION FACTOR

_____Data collected by _____Prepared checked by _____Approved by

*: 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: ***CONCRETE WORK*** LABOUR HOURLY OUTP
WORK ITEM: (2.5.1) ***C-25 Concretein 50cm thick mat slab.*** EQUIPEMENT: Mixer &
TOTAL QUANTITY OF WORK ITEM: _ 1 m^3 0.5 RESULT: 444.2879

Material Cost (1:01)					Labour (1:02)				
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labour byTrade	No.	UF	** Indexed Hourly Cost	Hourly Cost
Cement	Qnt.	3.65		0.00	*Foreman*	1	1/2	23.75	11.88
Sand	m3	0.44	448.96	197.54	*Plasterer I*	2	1.00	15.38	30.75
Gravel (02)	m^3	0.81	470.68	381.25	Carpenter I	1	1	16.75	16.75
Water	m^3	0.24	3.45	0.83	*Bar bender I*	1	1.00	7.25	7.25
					DL I	18	1.00	6.38	114.75
					Vibrator Ope.	1	1	8.75	8.75
					Mixer Ope.	1	1	9.13	9.13
Total (1:-01)				579.62	**Total (1:02)**				199.25

A= Materials Unit Cost **579.62** Birr/m^2 B=Manpower Unit Cost **132.83** Br./m^2

Total of (1:02)
Hourly Output
Direct Cost of work item = A+B+C =
Overhead Cost: 8%
Profit Cost: 7%
Total Unit Cost :

Remark _____

_____Data collected by _____Prepared checked by _____Approved by

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: ***CONCRETE WORK*** LABOUR HOURLY OUTP
WORK ITEM (2.5.2) ***C-25 Concrete Foundation Column*** EQUIPEMENT: Mixer &
TOTAL QUANTITY OF WORK ITEM: _ 1 m^3 RESULT:

Material Cost (1:01)					Labour (1:02)				
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labour byTrade	No.	UF	** Indexed Hourly Cost	Hourly Cost
Cement	Qnt.	3.65	380.00	1387.00	Forman	1	1/2	31.00	15.50
Sand	m3	0.44	448.96	197.54	Plasterer	2	1	25.00	50.00
Gravel (02)	m^3	0.81	470.68	381.25	Carpenter	1	1	31.00	31.00
Water	m^3	0.24	3.45	0.83	Bar bender	1	1	15.00	15.00
					Daily labourer	18	1	12.00	216.00
					vibrator operato	1	1	12.00	12.00
					mixure operato	1	1	20.00	20.00
Total (1:-01)				1966.62	**Total (1:02)**				359.50
									338.3529

A= Materials Unit Cost **1966.62** Birr/m^2 B=Manpower Unit Cost **338.35** Br./m^2

Total of (1:02)
Hourly Output
Direct Cost of work item = A+B+C =
Overhead Cost: 10%
Profit Cost: 15%
Total Unit Cost :

_____Data collected by _____Prepared checked by _____Approved by

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: ***CONCRETE WORK*** LABOUR HOURLY OUTP

WORK ITEM (2.5.3) ***C-25 Concrete Grade Beam (Mech. Mix) 1:2:3*** EQUIPEMENT: Mixer &

TOTAL QUANTITY OF WORK ITEM: _ 1 m^3 RESULT:

Material Cost (1:01)					Labour (1:02)				
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labour byTrade	No.	UF	** Indexed Hourly Cost	Hourly Cost
Cement	Qnt.	3.65	380.00	1387.00	Forman	1	1/2	31.00	15.50
Sand	m3	0.44	448.96	197.54	Plasterer	2	1.00	31.00	62.00
Gravel (02)	m^3	0.81	470.68	381.25	Carpenter	1	1	31.00	31.00
Water	m^3	0.24	3.45	0.83	Bar bender	1	1.00	25.00	25.00
					Daily labourer	18	1.00	12.00	216.00
					vibrator operato	1	1	12.00	12.00
					mixure operato	1	1	15.00	15.00
Total (1:-01)				1966.62	**Total (1:02)**				376.50
									286.8571

A= Materials Unit Cost **1966.62** Birr/m^2 B=Manpower Unit Cost **286.86** Br./m^2

Total of (1:02)

Hourly Output

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

Overhead Cost: 10%

Profit Cost: 15%

Total Unit Cost :

_____Data collected by _____Prepared checked by _____Approved by

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: ***CONCRETE WORK*** LABOUR HOURLY OUTP

WORK ITEM (2.5.3) ***C-25 Concrete Ramp Beam (Mech. Mix) 1:2:3*** EQUIPEMENT: Mixer &

TOTAL QUANTITY OF WORK ITEM: _ 1 m^3 RESULT:

Material Cost (1:01)					Labour (1:02)				
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labour byTrade	No.	UF	** Indexed Hourly Cost	Hourly Cost
Cement	Qnt.	3.65		0.00	Forman	1	1/2	23.75	11.88
Sand	m3	0.44	448.96	197.54	Plasterer	2	1.00	15.38	30.75
Gravel (02)	m^3	0.81	470.68	381.25	Carpenter	1	1	16.75	16.75
Water	m^3	0.24	3.45	0.83	Bar bender	1	1.00	7.25	7.25
					Daily labourer	18	1.00	6.38	114.75
					vibrator operato	1	1	8.75	8.75
					mixure operato	1	1	9.13	9.13
Total (1:-01)				579.62	**Total (1:02)**				199.25

A= Materials Unit Cost **579.62** Birr/m^2 B=Manpower Unit Cost **159.40** Br./m^2

Total of (1:02)

Hourly Output

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

Overhead Cost: 8%

Profit Cost: 7%

_____Data collected by _____Prepared checked by _____Approved by

Total Unit Cost :

Remark _____

UF: UTILIZATION FACTOR

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

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

ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT: ***CONCRETE WORK*** LABOUR HOURLY OUTP

WORK ITEM: (2.5.1) ***C-25 Concrete in 18cm thick ramp slab*** EQUIPEMENT: Mixer &

TOTAL QUANTITY OF WORK ITEM: _ 1 m^3 0.18 m thick RESULT:

Material Cost (1:01)					Labour (1:02)				
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labour byTrade	No.	UF	** Indexed Hourly Cost	Hourly Cost
Cement	Qnt.	3.65		0.00	*Foreman*	1	1/2	23.75	11.88
Sand	m3	0.44	448.96	197.54	*Plasterer I*	2	1.00	15.38	30.75
Gravel (02)	m^3	0.81	470.68	381.25	Carpenter I	1	1	16.75	16.75
Water	m^3	0.24	3.45	0.83	*Bar bender I*	1	1.00	7.25	7.25
					DL I	18	1.00	6.38	114.75
					Vibrator Ope.	1	1	8.75	8.75
					Mixer Ope.	1	1	9.13	9.13
Total (1:-01)				579.62	**Total (1:02)**				199.25

A= Materials Unit Cost **579.62** Birr/m^2 B=Manpower Unit Cost **144.91** Br./m^2

Total of (1:02)

Hourly Output

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

Overhead Cost: 8%

_____Data collected by _____Prepared checked by _____Approved by

Profit Cost: 7%
Total Unit Cost :

Remark _____
UF: UTILIZATION FACTOR
*: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.
**: INCLUSIVE OF BENEFITS, TRAVEL SUBSIDES AND COST OF OVERTIME RELATED TO TARGETED OUTPUT.

ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT: ***CONCRETE WORK*** LABOUR HOURLY OUTP
WORK ITEM: (2.5.1) ***C-25 Concretein ground floor slab*** EQUIPEMENT: Mixer &
TOTAL QUANTITY OF WORK ITEM: _ 1 m^3 0.1 m thick RESULT:

Material Cost (1:01)					Labour (1:02)				
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labour byTrade	No.	UF	** Indexed Hourly Cost	Hourly Cost
Cement	Qnt.	3.65		0.00	*Foreman*	1	1/2	23.75	11.88
Sand	m3	0.44	448.96	197.54	*Plasterer I*	2	1.00	15.38	30.75
Gravel (02)	m^3	0.81	470.68	381.25	Carpenter I	1	1	16.75	16.75
Water	m^3	0.24	3.45	0.83	*Bar bender I*	1	1.00	7.25	7.25
					DL I	18	1.00	6.38	114.75
					Vibrator Ope.	1	1	8.75	8.75
					Mixer Ope.	1	1	9.13	9.13
Total (1:-01)				579.62	**Total (1:02)**				199.25

A= Materials Unit Cost **579.62** Birr/m^2 B=Manpower Unit Cost **132.83** Br./m^2

Total of (1:02)
Hourly Output
Direct Cost of work item = A+B+C =

_____Data collected by _____Prepared checked by _____Approved by

Overhead Cost: 8%
Profit Cost: 7%
Total Unit Cost :

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: ***CONCRETE WORK*** LABOUR HOURLY OUTP
WORK ITEM: (2.5.1) ***C-25 Concretein ground floor slab*** EQUIPEMENT: Mixer &
TOTAL QUANTITY OF WORK ITEM: _ 1 m^3 0.17 m thick RESULT:

Material Cost (1:01)					Labour (1:02)				
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labour byTrade	No.	UF	** Indexed Hourly Cost	Hourly Cost
Cement	Qnt.	3.65		0.00	*Foreman*	1	1/2	23.75	11.88
Sand	m3	0.44	448.96	197.54	*Plasterer I*	2	1.00	15.38	30.75
Gravel (02)	m^3	0.81	470.68	381.25	Carpenter I	1	1	16.75	16.75
Water	m^3	0.24	3.45	0.83	*Bar bender I*	1	1.00	7.25	7.25
					DL I	18	1.00	6.38	114.75
					Vibrator Ope.	1	1	8.75	8.75
					Mixer Ope.	1	1	9.13	9.13
Total (1:-01)				579.62	**Total (1:02)**				199.25

A= Materials Unit Cost **579.62** Birr/m^2 B=Manpower Unit Cost **132.83** Br./m^2
Total of (1:02)
Hourly Output

_____Data collected by _____Prepared checked by _____Approved by

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

Overhead Cost: 8%

Profit Cost: 7%

Total Unit Cost :

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: ***CONCRETE WORK*** LABOUR HOURLY OUTP

WORK ITEM: (2.5.1) ***C-25 Concretein ground floor slab*** EQUIPEMENT: Mixer &

TOTAL QUANTITY OF WORK ITEM: _ 1 m^3 0.18 m thick RESULT:

Material Cost (1:01)					Labour (1:02)				
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labour byTrade	No.	UF	** Indexed Hourly Cost	Hourly Cost
Cement	Qnt.	3.65		0.00	*Foreman*	1	1/2	23.75	11.88
Sand	m3	0.44	448.96	197.54	*Plasterer I*	2	1.00	15.38	30.75
Gravel (02)	m^3	0.81	470.68	381.25	Carpenter I	1	1	16.75	16.75
Water	m^3	0.24	3.45	0.83	*Bar bender I*	1	1.00	7.25	7.25
					DL I	18	1.00	6.38	114.75
					Vibrator Ope.	1	1	8.75	8.75
					Mixer Ope.	1	1	9.13	9.13
Total (1:-01)				579.62	**Total (1:02)**				199.25

A= Materials Unit Cost **579.62** Birr/m^2 B=Manpower Unit Cost **132.83** Br./m^2

Total of (1:02)

_____Data collected by _____Prepared checked by _____Approved by

Hourly Output

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

Overhead Cost: 8%

Profit Cost: 7%

Total Unit Cost :

Remark _____

UF: UTILIZATION FACTOR

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

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

ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT: ***CONCRETE WORK*** LABOUR HOURLY OUTP

WORK ITEM (2.5.4) ***C-25 Concrete in foundation column*** EQUIPEMENT: Mixer &

TOTAL QUANTITY OF WORK ITEM: _ 1 m^3 RESULT:

Material Cost (1:01)					Labour (1:02)				
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labour byTrade	No.	UF	** Indexed Hourly Cost	Hourly Cost
Cement	Qnt.	3.65		0.00	Forman	1	1/2	23.75	11.88
Sand	m3	0.44	448.96	197.54	Plasterer	2	1.00	15.38	30.75
Gravel (02)	m^3	0.81	470.68	381.25	Carpenter	1	1	16.75	16.75
Water	m^3	0.24	3.45	0.83	Bar bender	1	1.00	7.25	7.25
					Daily labourer	18	1.00	6.38	114.75
					vibrator operato	1	1	8.75	8.75
					mixure operato	1	1	9.13	9.13
Total (1:-01)				579.62	**Total (1:02)**				199.25
									187.5294

A= Materials Unit Cost **579.62** Birr/m^2 B=Manpower Unit Cost **187.53** Br./m^2

_____Data collected by _____Prepared checked by _____Approved by

Total of (1:02)
Hourly Output
Direct Cost of work item = A+B+C =
Overhead Cost: 8%
Profit Cost: 7%
Total Unit Cost :

Remark _____
UF: UTILIZATION FACTOR
*: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.
**: INCLUSIVE OF BENEFITS, TRAVEL SUBSIDES AND COST OF OVERTIME RELATED TO TARGETED OUTPUT.

ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT: ***CONCRETE WORK*** LABOUR HOURLY OUTP
WORK ITEM: (2.5.6) ***C-25 Concrete stair case*** EQUIPEMENT: Mixer &
TOTAL QUANTITY OF WORK ITEM: _ 1 m^3 RESULT:

Material Cost (1:01)					Labour (1:02)				
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labour byTrade	No.	UF	** Indexed Hourly Cost	Hourly Cost
Cement	Qnt.	3.65		0.00	Forman	1	1/2	23.75	11.88
Sand	m3	0.44	448.96	197.54	Plasterer	2	1	15.38	30.75
Gravel (02)	m^3	0.81	470.68	381.25	Carpenter	1	1	16.75	16.75
Water	m^3	0.24	3.45	0.83	Bar bender	1	1	7.25	7.25
					Daily labourer	18	1	6.38	114.75
					vibrator operato	1	1	8.75	8.75
					mixure operato	1	1	9.13	9.13
Total (1:-01)				579.62	**Total (1:02)**				199.25
									151.8095

_____Data collected by _____Prepared checked by _____Approved by

A= Materials Unit Cost **579.62** Birr/m² B=Manpower Unit Cost **151.81** Br./m²

Total of (1:02)

Hourly Output

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

Overhead Cost: 8%

Profit Cost: 7%

Total Unit Cost :

Remark _____

UF: UTILIZATION FACTOR

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

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

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: **CONCRETE WORK** LABOUR HOURLY OUTP

WORK ITEM (2.5.5) **C-25 Concrete (mechanical mix) shear wall, Lift shaft** EQUIPMENT DAILY OUT

TOTAL QUANTITY OF WORK ITEM: **1m³** 1 m³ RESULT:

Material Cost (1:01)					**Labor (1:02)**				
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	** Indexed Hourly Cost	Daily Cost
Cement	Qnt.	3.65		0.00	Forman	1	1/2	23.75	11.875
Sand	m3	0.44	448.96	197.54	Plasterer	2	1.00	15.38	30.75
Gravel (02)	m³	0.81	470.68	381.25	Carpenter	1	1	16.75	16.75
Water	m³	0.24	3.45	0.83	Bar bender	1	1.00	7.25	7.25
					Daily labourer	18	1.00	6.38	114.75
					vibrator operato	1	1	8.75	8.75
					mixure operato	1	1	9.13	9.125
									0
									0

_____Data collected by _____Prepared checked by _____Approved by

Total (1:-01)	579.62	Total (1:02)	199.25

A= Materials Unit Cost 579.62 Birr/m^3 **B=Manpower Unit Cost** 212.53 Br./m^3

Total of (1:02)

Daily Output

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

Overhead Cost: 8%

Profit Cost: 7%

Total :

Remark _____

UF: UTILIZATION FACTOR **Total unit cost:**

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

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

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: **CONCRETE WORK** LABOUR HOURLY OUTP

WORK ITEM:(2.6.1) **C-30 Concrete ,ground slab ,Footing, & Mat foudation** EQUIPMENT DAILY OUT

TOTAL QUANTITY OF WORK ITEM: **1m^3** 1 m^3 RESULT:

Material Cost (1:01)					Labor (1:02)				
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	** Indexed Hourly Cost	Daily Cost
Cement	Qnt.	4.00		0.00	Forman	1	1/4	23.75	5.9375
Sand	m3	0.42	448.96	188.56	Plasterer	2	1.00	15.38	30.75
Gravel (02)	m^3	0.79	470.68	371.84	Carpenter	1	1/4	16.75	4.1875
Water	m^3	0.26	3.45	0.90	Bar bender	1	1.00	7.25	7.25
					Daily labourer	18	1.00	6.38	114.75
					vibrator operato	1	1	8.75	8.75
					mixure operato	1	1	9.13	9.125
									0

_____Data collected by _____Prepared checked by _____Approved by

									0
Total (1:-01)				561.30	**Total (1:02)**				180.75

A= Materials Unit Cost 561.30 Birr/m³ **B=Manpower Unit Cost** 120.50 Br./m³

Total of (1:02)

Daily Output

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

Overhead Cost: 8%

Profit Cost: 7%

Total :

Remark _____

UF: UTILIZATION FACTOR **Total unit cost:**

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

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

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: **CONCRETE WORK** LABOUR HOURLY OUTP

WORK ITEM: (2.6.2) **C-30 Concrete foundation column** EQUIPMENT DAILY OUT

TOTAL QUANTITY OF WORK ITEM: **1m³** 1 m³ RESULT:

Material Cost (1:01)					**Labor (1:02)**				
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	** Indexed Hourly Cost	Daily Cost
Cement	Qnt.	4.00		0.00	Forman	1	1/4	23.75	5.9375
Sand	m3	0.42	448.96	188.56	Plasterer	2	1.00	15.38	30.75
Gravel (02)	m³	0.79	470.68	371.84	Carpenter	1	1/4	16.75	4.1875
Water	m³	0.26	3.45	0.90	Bar bender	1	1.00	7.25	7.25
					Daily labourer	18	1.00	6.38	114.75
					vibrator operato	1	1	8.75	8.75
					mixure operato	1	1	9.13	9.125

_____Data collected by _____Prepared checked by _____Approved by

									0
									0
Total (1:-01)				561.30	**Total (1:02)**				180.75

A= Materials Unit Cost 561.30 Birr/m³

B=Manpower Unit Cost 170.12 Br./m³

Total of (1:02)

Daily Output

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

Overhead Cost: 8%

Profit Cost: 7%

Total :

Remark _____

UF: UTILIZATION FACTOR

Total unit cost:

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

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

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: **CONCRETE WORK**

WORK ITEM: (2.6.3) **C-30 Concrete grade beam**

TOTAL QUANTITY OF WORK ITEM: **1m³** 1 m³

LABOUR HOURLY OUTP

EQUIPMENT DAILY OUT

RESULT:

Material Cost (1:01)					**Labor (1:02)**				
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	** Indexed Hourly Cost	Daily Cost
Cement	Qnt.	4.00		0.00	Forman	1	1/2	23.75	11.875
Sand	m3	0.42	448.96	188.56	Plasterer	2	1.00	15.38	30.75
Gravel (02)	m³	0.79	470.68	371.84	Carpenter	1	1	16.75	16.75
Water	m³	0.26	3.45	0.90	Bar bender	1	1.00	7.25	7.25
					Daily labourer	18	1.00	6.38	114.75
					vibrator operato	1	1	8.75	8.75

_____Data collected by _____Prepared checked by _____Approved by

					mixure operato	1	1	9.13	9.125
									0
									0
Total (1:-01)				561.30	**Total (1:02)**				199.25

A= Materials Unit Cost 561.30 Birr/m^3 **B=Manpower Unit Cost** 151.81 Br./m^3

Total of (1:02)

Daily Output

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

Overhead Cost: 8%

Profit Cost: 7%

Total :

Remark _____

UF: UTILIZATION FACTOR **Total unit cost:**

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

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

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: **CONCRETE WORK** LABOUR HOURLY OUTP

WORK ITEM: (2.6.3) **C-30 Concrete ground floor slab** EQUIPMENT DAILY OUT

TOTAL QUANTITY OF WORK ITEM: **1m^3** 1 m^3 0.1 cm RESULT:

Material Cost (1:01)					**Labor (1:02)**				
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	** Indexed Hourly Cost	Daily Cost
Cement	Qnt.	4.00		0.00	Forman	1	1/2	23.75	11.875
Sand	m3	0.42	448.96	188.56	Plasterer	2	1.00	15.38	30.75
Gravel (02)	m^3	0.79	470.68	371.84	Carpenter	1	1	16.75	16.75
Water	m^3	0.26	3.45	0.90	Bar bender	1	1.00	7.25	7.25
					Daily labourer	18	1.00	6.38	114.75

_____Data collected by _____Prepared checked by _____Approved by

					vibrator operato	1	1	8.75	8.75
					mixure operato	1	1	9.13	9.125
									0
									0
Total (1:-01)				561.30	**Total (1:02)**				199.25

A= Materials Unit Cost 561.30 Birr/m^3 **B=Manpower Unit Cost** 132.83 Br./m^3

Total of (1:02)

Daily Output

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

Overhead Cost: 8%

Profit Cost: 7%

Total :

Remark _____

UF: UTILIZATION FACTOR **Total unit cost:**

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

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

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: **CONCRETE WORK** LABOUR HOURLY OUTP

WORK ITEM: (2.6.4) **C-30 Concrete in foundation column** EQUIPMENT HOURLY O

TOTAL QUANTITY OF WORK ITEM: **1m^3** 1 m^3 RESULT:

Material Cost (1:01)					**Labor (1:02)**				
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	** Indexed Hourly Cost	Daily Cost
Cement	Qnt.	4.00		0.00	Forman	1	1/2	23.75	11.875
Sand	m3	0.42	448.96	188.56	Plasterer	2	1.00	15.38	30.75
Gravel (02)	m^3	0.79	470.68	371.84	Carpenter	1	1/4	16.75	4.1875
Water	m^3	0.26	3.45	0.90	Bar bender	1	1.00	7.25	7.25

_____Data collected by _____Prepared checked by _____Approved by

					Daily labourer	18	1.00	10.50	189
					vibrator operato	1	1	8.75	8.75
					mixure operato	1	1	9.13	9.125
									0
									0
Total (1:-01)				561.30	**Total (1:02)**				260.94

A= Materials Unit Cost 561.30 Birr/m³ **B=Manpower Unit Cost** 198.81 Br./m³

Total of (1:02)

Daily Output

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

Overhead Cost: 8%

Profit Cost: 7%

Total :

Remark _____

UF: UTILIZATION FACTOR **Total unit cost:**

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

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

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: **CONCRETE WORK** LABOUR HOURLY OUTP

WORK ITEM: (2.6.5) ***C-30 Concrete shear wall & lift shaft*** EQUIPMENT HOURLY O

TOTAL QUANTITY OF WORK ITEM: **1m³** 1 m³ RESULT:

Material Cost (1:01)					**Labor (1:02)**				
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	** Indexed Hourly Cost	Daily Cost
Cement	Qnt.	4.00		0.00	Forman	1	1/2	23.75	11.875
Sand	m3	0.42	448.96	188.56	Plasterer	2	1.00	15.38	30.75
Gravel (02)	m³	0.79	470.68	371.84	Carpenter	1	1/4	16.75	4.1875

_____Data collected by _____Prepared checked by _____Approved by

Water	m^3	0.26	3.45	0.90	Bar bender	1	1.00	7.25	7.25
					Daily labourer	18	1.00	6.38	114.75
					vibrator operato	1	1	8.75	8.75
					mixure operato	1	1	9.13	9.125
									0
									0
Total (1:-01)				561.30	**Total (1:02)**				186.69

A= Materials Unit Cost 561.30 Birr/m^3 **B=Manpower Unit Cost** 199.13 Br./m^3

Total of (1:02)

Daily Output

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

Overhead Cost: 8%

Profit Cost: 7%

Total :

Remark _____

UF: UTILIZATION FACTOR **Total unit cost:**

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

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

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: **CONCRETE WORK** LABOUR HOURLY OUTP

WORK ITEM: (2.6.6) ***C-30 Concrete stair cases*** EQUIPMENT DAILY OUT

TOTAL QUANTITY OF WORK ITEM: **1m^3** 1 m^3 RESULT:

Material Cost (1:01)					**Labor (1:02)**				
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	** Indexed Hourly Cost	Daily Cost
Cement	Qnt.	4.00		0.00	Forman	1	1/2	23.75	11.875
Sand	m3	0.42	448.96	188.56	Plasterer	2	1.00	15.38	30.75

_____Data collected by _____Prepared checked by _____Approved by

Gravel (02)	m^3	0.79	470.68	371.84	Carpenter	1	1	16.75	16.75
Water	m^3	0.26	3.45	0.90	Bar bender	1	1.00	7.25	7.25
					Daily labourer	18	1.00	6.38	114.75
					vibrator operato	1	1	8.75	8.75
					mixure operato	1	1	9.13	9.125
									0
									0
Total (1:-01)				561.30	**Total (1:02)**				199.25

A= Materials Unit Cost 561.30 Birr/m^3 **B=Manpower Unit Cost** 151.81 Br./m^3

Total of (1:02)

Daily Output

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

Overhead Cost: 8%

Profit Cost: 7%

Total :

Remark _____

UF: UTILIZATION FACTOR **Total unit cost:**

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

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

Sub structure

ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT : REINFORCEMENT BARS Sub structure LABOUR HO

WORK ITEM: (3.1) ***dia. 6 mm. plain bars*** EQUIPEMEN

TOTAL QANTITY OF WORK ITEM: _ 1 kg. RESULT:

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

_____Data collected by _____Prepared checked by _____Approved by

0 6 mm plain bars	kg	1.02		0.00	Foreman	1	0.25	23.75	5.94
1.5 mm black anneald wire	kg	0.02		0.00	Bar bender I	1	1	14.00	14.00
					Ass.Bar bender	1	1	7.25	7.25
					DL	2	1	6.38	12.75
									0.00
Total (1:-01)				0.00	**Total (1:02)**				39.94

A= Materials Unit Cost _____ 0.00 birr/kg

B= Manpower Unit Cost 1.42 Birr/kg.

Total of (1:02)

hourly output: 7.08/9=0.79

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

Over head cost : 8%

Profit Cost: 7%

Total Unit Cost :

Remark _____

UF: UTILIZATION FACTOR

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

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

ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT : REINFORCEMENT BARS Sub structure LABOUR HC

WORK ITEM: (3.2) ***dia. 8 mm. & 10mm. Deformed bars bars*** EQUIPEMEN

TOTAL QANTITY OF WORK ITEM: _ 1 kg. RESULT:

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
0 8 - 0 10 mm plain bars	kg	1.02		0.00	Foreman	1	0.25	23.75	5.94

_____Data collected by _____Prepared checked by _____Approved by

1.5 mm black anneald wire	"	0.02		0.00	Ass.Bar bender	1	1	7.25	7.25
					Bar bender II	1	1	14.00	14.00
					Helper	1	1		0.00
					D/L	3	1	6.38	19.13
Total (1:-01)				0.00	**Total (1:02)**				46.31

A= Materials Unit Cost _____ **0.00** birr/kg

B= Manpower Unit Cost **1.43** Birr/kg.

Total of (1:02)

hourly output:

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

Over head cost : 8%

Profit Cost: 7%

Total Unit Cost :

Remark _____

UF: UTILIZATION FACTOR

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

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

ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT : REINFORCEMENT BARS Sub structure LABOUR HOURLY OUTP

WORK ITEM: (3.4) dia. 12mm.- 18 mm. deformed bars EQUIPEMENT:

TOTAL QANTITY OF WORK ITEM: _ 1 kg RESULT:

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
0 12- 0 16 mm deformed bars	kg	1.02		0	Foreman	1	0.25	23.75	5.94
1.5 mm black Annealed wire	"	0.02		0	Ass.Bar bender	1	1	7.25	7.25

_____Data collected by _____Prepared checked by _____Approved by

					Bar bender II	1	1	14.00	14.00
					Helper	1	1		0.00
					D/L	2	1	6.38	12.75
Total (1:-01)				0	**Total (1:02)**				39.9375

A= Materials Unit Cost __ **0** Birr/kg. B= Manpower Unit Cost **1.03** Birr/kg.

Total of (1:02)

Hourly Output: _____

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

Over head cost : 8%

Profit Cost: 7%

Total Unit Cost :

Remark _____

UF: UTILIZATION FACTOR

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

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

ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT : REINFORCEMENT BARS Sub structure LABOUR HOURLY OUTP

WORK ITEM: (3.7) ***dia. 20mm-26 mm. deformed bars*** EQUIPEMENT:

TOTAL QANTITY OF WORK ITEM: _ 1 kg RESULT:

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

_____Data collected by _____Prepared checked by _____Approved by

0 20- 0 24 mm deformed bars	kg	1.02		0	Foreman	1	0.25	23.75	5.94
1.5 mm black Annealed wire	"	0.02		0	Ass. Bar bender	1	1	7.25	7.25
					Bar bender II	1	1	14.00	14.00
					Helper	1	1		0.00
					D/L	2	1	6.38	12.75
Total (1:-01)				0	**Total (1:02)**				39.9375

A= Materials Unit Cost __ **0** Birr/kg.

B= Manpower Unit Cost **0.97** Birr/kg.

Total of (1:02)

Hourly Output: _____

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

Over head cost : 8%

Profit Cost: 7%

Total Unit Cost :

Remark _____

UF: UTILIZATION FACTOR

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

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

ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT : REINFORCEMENT BARS Sub structure LABOUR HOURLY OUTP

WORK ITEM: (3.9) ***dia. 28mm - 32 mm. deformed bars*** EQUIPEMENT:

TOTAL QANTITY OF WORK ITEM: _ 1 kg RESULT:

Material Cost (1:01)	Labour (1:02)

_____Data collected by _____Prepared checked by _____Approved by

Type of Material	Unit	Qty *	Rate	Cost per Unit	Labour by Grade	No.	UF	** Indexed Hourly Cost	Hourly Cost
0 28- 0 32 mm deformed bars	kg	1.02		0	Foreman	1	0.25	23.75	5.94
1.5 mm black Annealed wire	"	0.02		0	Ass.Bar bender	1	1	7.25	7.25
					Bar bender II	1	1	14.00	14.00
					Helper	1	1		0.00
					D/L	2	1	6.38	12.75
Total (1:-01)				0	**Total (1:02)**				39.9375

A= Materials Unit Cost __ **0** Birr/kg. B= Manpower Unit Cost **0.90** Birr/kg.

Total of (1:02)

Hourly Output: _____

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

Over head cost : 8%

Profit Cost: 7%

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.

Super structure

ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT : REINFORCEMENT BARS Super structure LABOUR HOURLY OUTP

WORK ITEM: (3.10) ***dia. 6 mm. plain bars*** EQUIPEMENT:

_____Data collected by _____Prepared checked by _____Approved by

TOTAL QANTITY OF WORK ITEM: _ 1 kg. RESULT:

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
0 6 mm plain bars	kg	1.02		0.00	Foreman	1	0.25	23.75	5.94
1.5 mm black anneald wire	kg	0.02		0.00	Bar bender I	1	1	7.25	7.25
					Bar bender II	1	1	14.00	14.00
					Helper	1	1		0.00
					D/L	2	1	6.38	12.75
Total (1:-01)				0.00	**Total (1:02)**				39.94

A= Materials Unit Cost _____ 0.00 birr/kg

B= Manpower Unit Cost 1.73 Birr/kg.

Total of (1:02)

hourly output: 7.08/9=0.79

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

Over head cost : 8%

Profit Cost: 7%

Total Unit Cost :

Remark _____

UF: UTILIZATION FACTOR

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

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

ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT : REINFORCEMENT BARS super structure LABOUR HOURLY OUTP

WORK ITEM: (3.11) ***dia. 8 mm. & 10mm. Deformed bars bars*** EQUIPEMENT:

TOTAL QANTITY OF WORK ITEM: _ 1 kg. RESULT:

_____Data collected by _____Prepared checked by _____Approved by

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
0 8 - 0 10 mm plain bars	kg	1.02		0.00	Foreman	1	0.25	23.75	5.94
1.5 mm black anneald wire	"	0.02		0.00	Ass.Bar bender	1	1	7.25	7.25
					Bar bender II	1	1	14.00	14.00
					Helper	1	1		0.00
					D/L	2	1	6.38	12.75
Total (1:-01)				0.00	**Total (1:02)**				39.94

A= Materials Unit Cost _____ **0.00** birr/kg

B= Manpower Unit Cost **1.52** Birr/kg.

Total of (1:02)

hourly output:

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

Over head cost : 8%

Profit Cost: 7%

Total Unit Cost :

Remark _____

UF: UTILIZATION FACTOR

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

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

ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT : REINFORCEMENT BARS Super structure LABOUR HOURLY OUTP

WORK ITEM: (3.13) ***dia. 12mm.- 18mm. deformed bars*** EQUIPEMENT:

TOTAL QANTITY OF WORK ITEM: _ 1 kg RESULT:

_____Data collected by _____Prepared checked by _____Approved by

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
0 12- 0 16 mm deformed bars	kg	1.02		0	Foreman	1	0.25	23.75	5.94
1.5 mm black Annealed wire	"	0.02		0	Bar bender I	1	1	7.25	7.25
					Bar bender II	1	1	14.00	14.00
					Helper	1	1		0.00
					D/L	2	1	6.38	12.75
Total (1:-01)				0	**Total (1:02)**				39.9375

A= Materials Unit Cost __ **0** Birr/kg. B= Manpower Unit Cost **1.16** Birr/kg.

Total of (1:02)

Hourly Output: _____

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

Over head cost : 8%

Profit Cost: 7%

Total Unit Cost :

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 : REINFORCEMENT BARS Super structure LABOUR HOURLY OUTP

_____Data collected by _____Prepared checked by _____Approved by

WORK ITEM: (3.16) ***dia. 20mm-26mm. deformed bars*** EQUIPEMENT:

TOTAL QANTITY OF WORK ITEM: _ 1 kg RESULT:

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
0 20- 0 24 mm deformed bars	kg	1.02		0	Foreman	1	0.25	23.75	5.94
1.5 mm black Annealed wire	"	0.02		0	Bar bender I	1	1	7.25	7.25
					Bar bender II	1	1	14.00	14.00
					Helper	1	1		0.00
					D/L	2	1	6.38	12.75
Total (1:-01)				0	**Total (1:02)**				39.9375

A= Materials Unit Cost __ **0** Birr/kg. B= Manpower Unit Cost **1.08** Birr/kg.

Total of (1:02)

Hourly Output: _____

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

Over head cost : 8%

Profit Cost: 7%

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.

_____Data collected by _____Prepared checked by _____Approved by

ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT : REINFORCEMENT BARS Super structure LABOUR HOURLY OUTP

WORK ITEM: (3.18) ***dia. 28mm - 32 mm. deformed bars*** EQUIPEMENT:

TOTAL QANTITY OF WORK ITEM: _ 1 kg RESULT:

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
0 28- 0 23 mm deformed bars	kg	1.02		0	Foreman	1	0.25	23.75	5.94
1.5 mm black Annealed wire	"	0.02		0	Bar bender I	1	1	7.25	7.25
					Bar bender II	1	1	14.00	14.00
					Helper	1	1		0.00
					D/L	2	1	6.38	12.75
Total (1:-01)				0	**Total (1:02)**				39.9375

A= Materials Unit Cost __ **0** Birr/kg. B= Manpower Unit Cost **1.05** Birr/kg.

Total of (1:02)

Hourly Output: _____

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

Over head cost : 8%

Profit Cost: 7%

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.

_____Data collected by _____Prepared checked by _____Approved by

ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT: ***CONCRETE WORK*** Super structure LABOUR HO

WORK ITEM:(2.7.1) ***C-20 Concrete elevation column*** EQUIPEMEN

TOTAL QUANTITY OF WORK ITEM: 1 m^3 RESULT:

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
Cement	Qnt.	3.2		0.00	Foreman	1	0.5	23.75	11.88
Sand	m3	0.45	448.96	202.03	Plasterer I	2	1	15.38	30.75
Gravel (02)	m^3	0.83	470.68	390.66	Bar bender	1	1	7.25	7.25
Water	m^3	0.21	3.45	0.72	D/L	18	1	6.38	114.75
					Carpenter	1	1	16.75	16.75
					Mixer op.	1	1	9.13	9.125
					Vibrator op.	1	1	8.75	8.75
Total (1:-01)				593.42	**Total (1:02)**				199.25
									1594.00

A= Materials Unit Cost **593.42** Birr/m^3 B=Manpower Unit Cost **318.80** Br./m^3

Total of (1:02)

Hourly Output 0.625

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

Overhead Cost: 551.65 8%

Profit Cost: 7%

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.

_____Data collected by _____Prepared checked by _____Approved by

ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT: ***CONCRETE WORK*** Super structure LABOUR HC
WORK ITEM: (2.7.2) ***C-20 Concrete beam & lintels*** EQUIPEMEN
TOTAL QUANTITY OF WORK ITEM: 1 m^3 RESULT:

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
Cement	Qnt.	3.2		0.00	Foreman	1	0.5	23.75	11.88
Sand	m3	0.45	448.96	202.03	Plasterer	2	1	15.38	30.75
Gravel (02)	m^3	0.83	470.68	390.66	Bar bender	1	1	7.25	7.25
Water	m^3	0.213	3.45	0.73	D/L	18	1	6.38	114.75
				0.00	Carpenter	1	1	16.75	16.75
				0.00	Mixer op.	1	1	9.13	9.125
				0.00	Vibrator op.	1	1	8.75	8.75
Total (1:-01)				593.43	**Total (1:02)**				199.25
									1594.0

A= Materials Unit Cost **593** Birr/m^3 B=Manpower Unit Cost **187.53** Br./m^3

Total of (1:02)
Hourly Output 1.0625

Direct Cost of work item = A+B+C =
Overhead Cost: 324.50 8%
Profit Cost: 7%
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.

_____Data collected by _____Prepared checked by _____Approved by

ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT: ***CONCRETE WORK*** Super structure LABOUR HO

WORK ITEM: (2.7.3) ***C-20 Concrete Suspended slab /15cm thick/*** EQUIPEMEN

TOTAL QUANTITY OF WORK ITEM: 1 m^2 RESULT:

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
Cement	Qnt.	0.48		0.00	Foreman	1	0.5	23.75	11.88
Sand	m3	0.0675	448.96	30.30	Plasterer	2	1	15.38	30.75
Gravel (02)	m^3	0.1245	470.68	58.60	Bar bender	1	1	7.25	7.25
Water	m^3	0.03	3.45	0.11	D/L	18	1	6.38	114.75
					Carpenter	1	1	16.75	16.75
					Mixer op.	1	1	9.13	9.125
					Vibrator op.	1	1	8.75	8.75
Total (1:-01)				89.01	**Total (1:02)**				199.25

A= Materials Unit Cost **89.01** Birr/m^2 B=Manpower Unit Cost **23.93** Br./m^2

Total of (1:02) 199.25

Hourly Output 8.325

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

Overhead Cost: 41.42 8%

Profit Cost: 7%

Total Unit Cost :

Remark _____

UF: UTILIZATION FACTOR

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

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

ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

_____Data collected by _____Prepared checked by _____Approved by

PROJECT: ***CONCRETE WORK*** Super structure LABOUR HOURLY OUTP

WORK ITEM:(2.7.4) ***C-20 Concrete shear wall & lift shaft*** EQUIPEMENT: Mixer &

TOTAL QUANTITY OF WORK ITEM: _ 1 m^3 RESULT:

Material Cost (1:01)					Labour (1:02)				
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labour byTrade	No.	UF	** Indexed Hourly Cost	Hourly Cost
Cement	Qnt.	3.20		0.00	Forman	1	1/2	23.75	11.88
Sand	m3	0.45	448.96	202.03	Plasterer	2	1.00	15.38	30.75
Gravel (02)	m^3	0.83	470.68	390.66	Carpenter	1	1	16.75	16.75
Water	m^3	0.21	3.45	0.72	Bar bender	1	1.00	7.25	7.25
					Daily labourer	18	1.00	6.38	114.75
					Mixer op.	1	1	9.13	9.13
					Vibrator op.	1	1	8.75	8.75
Total (1:-01)				593.42	**Total (1:02)**				199.25

A= Materials Unit Cost **593** Birr/m^2 B=Manpower Unit Cost **199.25** Br./m^2

Total of (1:02)

Hourly Output

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

Overhead Cost: 8%

Profit Cost: 7%

Total Unit Cost :

Remark _____

UF: UTILIZATION FACTOR

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

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

ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

_____Data collected by _____Prepared checked by _____Approved by

PROJECT: ***CONCRETE WORK*** Super structure LABOUR HO

WORK ITEM:(2.7.5) ***C -20 Concrete stair case*** EQUIPEMEN

TOTAL QUANTITY OF WORK ITEM: _ 1 m^3 RESULT:

Material Cost (1:01)					Labour (1:02)				
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labour byTrade	No.	UF	** Indexed Hourly Cost	Hourly Cost
Cement	Qnt.	3.20		0.00	Forman	1	1/2	23.75	11.88
Sand	m3	0.45	448.96	202.03	Plasterer	2	1	15.38	30.75
Gravel (02)	m^3	0.83	470.68	390.66	Carpenter	1	1	16.75	16.75
Water	m^3	0.21	3.45	0.72	Bar bender	1	1	7.25	7.25
					DL	18	1	6.38	114.75
					Mixer op.	1	1	9.13	9.13
					Vibrator op.	1	1	8.75	8.75
Total (1:-01)				593.42	**Total (1:02)**				199.25

A= Materials Unit Cost **593** Birr/m^2 B=Manpower Unit Cost **151.81** Br./m^2

Total of (1:02)

Hourly Output

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

Overhead Cost: 8%

Profit Cost: 7%

Total Unit Cost :

Remark _____

UF: UTILIZATION FACTOR

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

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

ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

_____Data collected by _____Prepared checked by _____Approved by

PROJECT: ***CONCRETE WORK*** Super structure LABOUR HOURLY OUTP

WORK ITEM: (2.8.1) ***C-25 Concrete Elevation column*** EQUIPEMENT: Mixer &

TOTAL QUANTITY OF WORK ITEM: _ 1 m^3 RESULT:

Material Cost (1:01)					Labour (1:02)				
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labour byTrade	No.	UF	** Indexed Hourly Cost	Hourly Cost
Cement	Qnt.	3.65		0.00	Forman	1	1/2	23.75	11.88
Sand	m3	0.44	448.96	197.54	Plasterer	2	1	15.38	30.75
Gravel (02)	m^3	0.81	470.68	381.25	Carpenter	1	1	16.75	16.75
Water	m^3	0.24	3.45	0.83	Bar bender	1	1	7.25	7.25
					Daily labourer	18	1	6.38	114.75
					Mixer op.	1	1	9.13	9.13
					Vibrator op.	1	1	9.13	9.13
Total (1:-01)				579.62	**Total (1:02)**				199.63

A= Materials Unit Cost **579.6** Birr/m^2 B=Manpower Unit Cost **319.4** Br./m^2

Total of (1:02)

Hourly Output

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

Overhead Cost: 8%

Profit Cost: 7%

Total Unit Cost :

Remark _____

UF: UTILIZATION FACTOR

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

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

ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

_____Data collected by _____Prepared checked by _____Approved by

PROJECT: ***CONCRETE WORK*** Super structure LABOUR HOURLY OUTP

WORK ITEM: (2.8.2) ***C-25 Concrete Beams lintels*** EQUIPEMENT: Mixer ,\

TOTAL QUANTITY OF WORK ITEM: _ 1 m^3 RESULT:

Material Cost (1:01)					Labour (1:02)				
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labour byTrade	No.	UF	** Indexed Hourly Cost	Hourly Cost
Cement	Qnt.	3.65		0.00	Forman	1	1/2	23.75	11.88
Sand	m3	0.44	448.96	197.54	Plasterer	2	1	15.38	30.75
Gravel (02)	m^3	0.81	470.68	381.25	Carpenter	1	1	16.75	16.75
Water	m^3	0.24	3.45	0.83	Bar bender	1	1	7.25	7.25
					Daily labourer	18	1	6.38	114.75
					Mixer op.	1	1	9.13	9.13
					Vibrator op.	1	1	8.75	8.75
Total (1:-01)				579.62	**Total (1:02)**				199.25

A= Materials Unit Cost **579.6** Birr/m^2 B=Manpower Unit Cost **187.53** Br./m^2

Total of (1:02)

Hourly Output

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

Overhead Cost: 8%

Profit Cost: 7%

Total Unit Cost :

Remark _____

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

ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

_____Data collected by _____Prepared checked by _____Approved by

PROJECT: ***CONCRETE WORK*** Super structure LABOUR HOURLY OUTP

WORK ITEM:(2.8.3) ***15cm thick C-25 Concrete Suspended slab*** EQUIPEMENT: Mixer ,\

TOTAL QUANTITY OF WORK ITEM: _ 1 m^2 RESULT:

Material Cost (1:01)					Labour (1:02)				
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labour byTrade	No.	UF	** Indexed Hourly Cost	Hourly Cost
Cement	Qnt.	0.55		0.00	Forman	1	1/2	23.75	11.88
Sand	m3	0.07	448.96	29.63	Plasterer	2	1	15.38	30.75
Gravel (02)	m^3	0.12	470.68	57.19	Carpenter	1	1	16.75	16.75
Water	m^3	0.04	3.45	0.12	Bar bender	1	1	7.25	7.25
					Daily labourer	18	1	6.38	114.75
					Mixer op.	1	1	9.13	9.13
					Vibrator op.	1	1	8.75	8.75
Total (1:-01)				86.94	**Total (1:02)**				199.25

A= Materials Unit Cost **86.94** Birr/m^2 B=Manpower Unit Cost **23.93** Br./m^2

Total of (1:02)

Hourly Output

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

Overhead Cost: 8%

Profit Cost: 7%

Total Unit Cost :

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

_____Data collected by _____Prepared checked by _____Approved by

PROJECT: ***CONCRETE WORK*** Super structure LABOUR HOURLY OUTP

WORK ITEM:(2.8.4) ***C-25 Concrete 18cm thick floor slab*** EQUIPEMENT: Mixer ,\

TOTAL QUANTITY OF WORK ITEM: _ 1 m^3 0.17 cm RESULT:

Material Cost (1:01)					Labour (1:02)				
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labour byTrade	No.	UF	** Indexed Hourly Cost	Hourly Cost
Cement	Qnt.	3.65		0.00	Forman	1	1/2	23.75	11.88
Sand	m3	0.44	448.96	197.54	Plasterer	2	1	15.38	30.75
Gravel (02)	m^3	0.81	470.68	381.25	Carpenter	1	1	16.75	16.75
Water	m^3	0.24	3.45	0.83	Bar bender	1	1	7.25	7.25
					Daily labourer	18	1	6.38	114.75
					Mixer op.	1	1	8.75	8.75
					Vibrator op.	1	1	9.13	9.13
Total (1:-01)				579.62	**Total (1:02)**				199.25

A= Materials Unit Cost **579.6** Birr/m^2 B=Manpower Unit Cost **159.4** Br./m^2

Total of (1:02)

Hourly Output

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

Overhead Cost: 8%

Profit Cost: 7%

Total Unit Cost :

Remark _____

UF: UTILIZATION FACTOR

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

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

ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

_____Data collected by _____Prepared checked by _____Approved by

PROJECT: ***CONCRETE WORK*** Super structure LABOUR HOURLY OUTP

WORK ITEM:(2.8.4) ***C-25 Concrete 18cm thick floor slab*** EQUIPEMENT: Mixer ,\

TOTAL QUANTITY OF WORK ITEM: _ 1 m^3 0.18 cm RESULT:

Material Cost (1:01)					Labour (1:02)				
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labour byTrade	No.	UF	** Indexed Hourly Cost	Hourly Cost
Cement	Qnt.	3.65		0.00	Forman	1	1/2	23.75	11.88
Sand	m3	0.44	448.96	197.54	Plasterer	2	1	15.38	30.75
Gravel (02)	m^3	0.81	470.68	381.25	Carpenter	1	1	16.75	16.75
Water	m^3	0.24	0.00	0.00	Bar bender	1	1	7.25	7.25
					Daily labourer	18	1	6.38	114.75
					Mixer op.	1	1	8.75	8.75
					Vibrator op.	1	1	9.13	9.13
Total (1:-01)				578.79	**Total (1:02)**				199.25

A= Materials Unit Cost **578.8** Birr/m^2 B=Manpower Unit Cost **159.4** Br./m^2

Total of (1:02)

Hourly Output

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

Overhead Cost: 8%

Profit Cost: 7%

Total Unit Cost :

Remark _____

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

ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

_____Data collected by _____Prepared checked by _____Approved by

PROJECT: ***CONCRETE WORK*** Super structure LABOUR HOURLY OUTP

WORK ITEM:(2.8.4) ***C-25 Concrete shear wall & lift shaft*** EQUIPEMENT: Mixer ,\

TOTAL QUANTITY OF WORK ITEM: _ 1 m^3 RESULT:

Material Cost (1:01)					Labour (1:02)				
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labour byTrade	No.	UF	** Indexed Hourly Cost	Hourly Cost
Cement	Qnt.	3.65		0.00	Forman	1	1/2	23.75	11.88
Sand	m3	0.44	448.96	197.54	Plasterer	2	1	15.38	30.75
Gravel (02)	m^3	0.81	470.68	381.25	Carpenter	1	1	16.75	16.75
Water	m^3	0.24	3.45	0.83	Bar bender	1	1	7.25	7.25
					Daily labourer	18	1	6.38	114.75
					Mixer op.	1	1	9.13	9.13
					Vibrator op.	1	1	8.75	8.75
Total (1:-01)				579.62	**Total (1:02)**				199.25

A= Materials Unit Cost **579.6** Birr/m^2 B=Manpower Unit Cost **199.3** Br./m^2

Total of (1:02)

Hourly Output

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

Overhead Cost: 8%

Profit Cost: 7%

Total Unit Cost :

Remark _____

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

ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

_____Data collected by _____Prepared checked by _____Approved by

PROJECT: ***CONCRETE WORK*** Super structure LABOUR HOURLY OUTP

WORK ITEM:(2.8.5) ***C -25 Concrete stair case*** EQUIPEMENT: Mixer ,\

TOTAL QUANTITY OF WORK ITEM: _ 1 m^3 RESULT:

Material Cost (1:01)					Labour (1:02)				
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labour byTrade	No.	UF	** Indexed Hourly Cost	Hourly Cost
Cement	Qnt.	3.65		0.00	Forman	1	1/2	23.75	11.88
Sand	m3	0.44	448.96	197.54	Mason	2	1	15.88	31.75
Gravel (02)	m^3	0.81	470.68	381.25	Carpenter	1	1	16.75	16.75
Water	m^3	0.24	3.45	0.83	Bar bender	1	1	7.25	7.25
					Daily labourer	18	1	6.38	114.75
					Mixer op.	1	1	9.13	9.13
					Vibrator op.	1	1	8.75	8.75
Total (1:-01)				579.6	**Total (1:02)**				200.25

A= Materials Unit Cost **579.6** Birr/m^2 B=Manpower Unit Cost **152.57** Br./m^2

Total of (1:02)

Hourly Output

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

Overhead Cost: 8%

Profit Cost: 7%

Total Unit Cost :

Remark _____

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

ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

_____Data collected by _____Prepared checked by _____Approved by

PROJECT: ***CONCRETE WORK*** Super structure LABOUR HOURLY OUTP

WORK ITEM:(2.8.5) ***C -25 R.Concrete gutter*** EQUIPEMENT: Mixer ,\

TOTAL QUANTITY OF WORK ITEM: _ 1 m^3 0.1 cm RESULT:

Material Cost (1:01)					Labour (1:02)				
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labour byTrade	No.	UF	** Indexed Hourly Cost	Hourly Cost
Cement	Qnt.	3.65		0.00	Forman	1	1	23.75	23.75
Sand	m3	0.44	448.96	197.54	Plasterer II	2	1	15.38	30.75
Gravel (02)	m^3	0.81	470.68	381.25	Carpenter	2	1	16.75	33.50
Water	m^3	0.24	3.45	0.83	Bar bender	1	1	7.25	7.25
					D/L II	3	1	6.38	19.13
					Mixer op.	1	1	9.13	9.13
					Vibrator op.	1	1	8.75	8.75
Total (1:-01)				579.6	**Total (1:02)**				132.25

A= Materials Unit Cost **579.6** Birr/m^2 B=Manpower Unit Cost **24.89** Br./m^2

Total of (1:02)

Hourly Output

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

Overhead Cost: 8%

Profit Cost: 7%

Total Unit Cost :

Remark _____

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

in 180mm thick roof slab

ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

_____Data collected by _____Prepared checked by _____Approved by

PROJECT: ***CONCRETE WORK*** Super structure LABOUR HOURLY OUTP

WORK ITEM:(2.8.5) ***C -25 180mm thick roof slab*** EQUIPEMENT: Mixer ,V

TOTAL QUANTITY OF WORK ITEM: _ 1 m^3 0.18 cm RESULT:

Material Cost (1:01)					Labour (1:02)				
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labour byTrade	No.	UF	** Indexed Hourly Cost	Hourly Cost
Cement	Qnt.	1.23		0.00	Forman	1	1/4	23.75	5.94
Sand	m3	0.39	448.96	175.09	Plasterer II	2	1	15.38	30.75
Gravel (02)	m^3	0.39	470.68	183.57	Carpenter	1	1	16.75	16.75
Water	m^3	0.13	3.45	0.45	Bar bender	1	1	7.25	7.25
Pumice	m^3	0.39	150.81	58.82	D/L II	18	1	6.38	114.75
					Mixer op.	1	1	8.75	8.75
					Vibrator op.	1	1	9.13	9.13
Total (1:-01)				417.9	**Total (1:02)**				193.31

A= Materials Unit Cost **417.9** Birr/m^2 B=Manpower Unit Cost **128.88** Br./m^2

Total of (1:02)

Hourly Output

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

Overhead Cost: 8%

Profit Cost: 7%

Total Unit Cost :

Remark _____

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

ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

_____Data collected by _____Prepared checked by _____Approved by

PROJECT: ***CONCRETE WORK*** Super structure LABOUR HO

WORK ITEM:(2.8.6) ***C-25 Concrete 20x20x250cm including Ø14 deformed bar*** EQUIPEMEN

TOTAL QUANTITY OF WORK ITEM: _ 1 pcs RESULT:

Material Cost (1:01)					Labour (1:02)				
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labour byTrade	No.	UF	** Indexed Hourly Cost	Hourly Cost
Cocrete	m^3	0.10	621.52	62.15	Forman	1	1/4	23.75	5.94
Ø14 bar	kg	12.10		0.00	Carpenter	1	1	16.75	16.75
Ø8 bar	kg	4.15		0.00	Bar bender	1	1	7.25	7.25
					Daily labourer	4	1	6.38	25.50
					Mixer op.	1	1	9.13	9.13
					Vibrator op.	1	1	8.75	8.75
Total (1:-01)				62.15	**Total (1:02)**				73.31
									146.625

A= Materials Unit Cost **62.2** Birr/pcs B=Manpower Unit Cost **146.63** Br./pcs

Total of (1:02)

Hourly Output

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

Overhead Cost: 8%

Profit Cost: 7%

Total Unit Cost :

Remark _____

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ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT: ***CONCRETE WORK*** Super structure LABOUR HO

_____Data collected by _____Prepared checked by _____Approved by

WORK ITEM:(2.9.2) ***C-30 Concrete Elevation column*** EQUIPEMEN

TOTAL QUANTITY OF WORK ITEM: _ 1 m^3 RESULT:

Material Cost (1:01)					Labour (1:02)				
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labour byTrade	No.	UF	** Indexed Hourly Cost	Hourly Cost
Cement	Qnt.	4.00		0.00	Forman	1	1/2	23.75	11.88
Sand	m3	0.42	448.96	188.56	Plasterer	2	1	15.38	30.75
Gravel (02)	m^3	0.79	470.68	371.84	Carpenter	1	1	16.75	16.75
Water	m^3	0.26	3.45	0.90	Bar bender	1	1	7.25	7.25
					Daily labourer	18	1	6.38	114.75
					Mixer op.	1	1	9.13	9.13
					Vibrator op.	1	1	8.75	8.75
Total (1:-01)				561.30	**Total (1:02)**				199.25
									318.8

A= Materials Unit Cost **561.3** Birr/m^2 B=Manpower Unit Cost **318.80** Br./m^2

Total of (1:02)

Hourly Output

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

Overhead Cost: 8%

Profit Cost: 7%

Total Unit Cost :

Remark _____

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

ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT: ***CONCRETE WORK*** Super structure LABOUR HO

WORK ITEM:(2.9.2) ***C-30 Concrete Beams lintels*** EQUIPEMEN

_____Data collected by _____Prepared checked by _____Approved by

TOTAL QUANTITY OF WORK ITEM: _ 1 m^3 RESULT:

Material Cost (1:01)					Labour (1:02)				
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labour byTrade	No.	UF	** Indexed Hourly Cost	Hourly Cost
Cement	Qnt.	4.00	0.00	0.00	Forman	1	1/2	23.75	11.88
Sand	m3	0.42	0.00	0.00	Plasterer	1	1	15.38	15.38
Gravel (02)	m^3	0.79	0.00	0.00	Carpenter	1	1/2	16.75	8.38
Water	m^3	0.26	0.00	0.00	gang chief	1	1	10.00	10.00
					Daily labourer	18	1	8.75	157.50
					Mixer op.	1	1	10.00	10.00
					Vibrator op.	1	1		0.00
Total (1:-01)				0.00	**Total (1:02)**				213.13
									200.5882

A= Materials Unit Cost **0.0** Birr/m^2 B=Manpower Unit Cost **200.59** Br./m^2

Total of (1:02)

Hourly Output

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

Overhead Cost: 8%

Profit Cost: 7%

Total Unit Cost :

Remark _____

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

ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT: ***CONCRETE WORK*** Super structure LABOUR HOURLY OUTP

WORK ITEM:(2.9.3) ***15cm thick C-30 Concrete in Suspended slab*** EQUIPEMENT: Mixer ,\

_____Data collected by _____Prepared checked by _____Approved by

TOTAL QUANTITY OF WORK ITEM: _ 1 m^3 RESULT:

Material Cost (1:01)					Labour (1:02)				
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labour byTrade	No.	UF	** Indexed Hourly Cost	Hourly Cost
Cement	Qnt.	0.60		0.00	Forman	1	1/2	23.75	11.88
Sand	m3	0.06	448.96	28.28	Plasterer	2	1	15.38	30.75
Gravel (02)	m^3	0.12	470.68	55.78	Carpenter	1	1	16.75	16.75
Water	m^3	0.04	3.45	0.13	Bar bender	1	1	7.25	7.25
					DL	18	1	6.38	114.75
					Mixer op.	1	1	9.13	9.13
					Vibrator op.	1	1	8.75	8.75
Total (1:-01)				84.19	**Total (1:02)**				199.25

A= Materials Unit Cost **84.2** Birr/m^2 B=Manpower Unit Cost **23.93** Br./m^2

Total of (1:02)

Hourly Output

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

Overhead Cost: 8%

Profit Cost: 7%

Total Unit Cost :

Remark _____

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

ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT: ***CONCRETE WORK*** Super structure LABOUR HC

WORK ITEM:(2.9.4) ***C-30 Concrete Shear wall and lift shaft*** EQUIPEMEN

_____Data collected by _____Prepared checked by _____Approved by

TOTAL QUANTITY OF WORK ITEM: _ 1 m^3 RESULT:

Material Cost (1:01)					Labour (1:02)				
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labour byTrade	No.	UF	** Indexed Hourly Cost	Hourly Cost
Cement	Qnt.	4.00		0.00	Forman	1	1/2	23.75	11.88
Sand	m3	0.42	448.96	188.56	Plasterer	2	1	15.38	30.75
Gravel (02)	m^3	0.79	470.68	371.84	Carpenter	1	1	16.75	16.75
Water	m^3	0.26	3.45	0.90	Bar bender	1	1	7.25	7.25
					Daily labourer	18	1	6.38	114.75
					Mixer op.	1	1	9.13	9.13
					Vibrator op.	1	1	8.75	8.75
Total (1:-01)				561.30	**Total (1:02)**				199.25

A= Materials Unit Cost **561.30** Birr/m^2 B=Manpower Unit Cost **199.25** Br./m^2

Total of (1:02)

Hourly Output

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

Overhead Cost: 8%

Profit Cost: 7%

Total Unit Cost :

Remark _____

UF: UTILIZATION FACTOR

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

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

ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT: ***CONCRETE WORK*** Super structure LABOUR HC

WORK ITEM:(2.9.5) ***C-30 Concrete Stair case*** EQUIPEMEN

_____Data collected by _____Prepared checked by _____Approved by

TOTAL QUANTITY OF WORK ITEM: _ 1 m^3 RESULT:

Material Cost (1:01)					Labour (1:02)				
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labour byTrade	No.	UF	** Indexed Hourly Cost	Hourly Cost
Cement	Qnt.	4.00		0.00	Forman	1	1/2	23.75	11.88
Sand	m3	0.42	448.96	188.56	Plasterer	2	1	15.38	30.75
Gravel (02)	m^3	0.79	470.68	371.84	Carpenter	1	1	16.75	16.75
Water	m^3	0.26	3.45	0.90	Bar bender	1	1	7.25	7.25
					Daily labourer	18	1	6.38	114.75
					Mixer op.	1	1	9.13	9.13
					Vibrator op.	1	1	8.75	8.75
Total (1:-01)				561.30	**Total (1:02)**				199.25

A= Materials Unit Cost **561.3** Birr/m^2 B=Manpower Unit Cost **151.81** Br./m^2

Total of (1:02)

Hourly Output

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

Overhead Cost: 8%

Profit Cost: 7%

Total Unit Cost :

Remark _____

UF: UTILIZATION FACTOR

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

ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT: **CONCRETE WORK** LABOUR HOURLY OUTP

WORK ITEM:(2.9.6) **C-30 Concrete Ground slab, Footing, Mat fou.** EQUIPMENT DAILY OUT

TOTAL QUANTITY OF WORK ITEM: 1 m^3 RESULT:

_____Data collected by _____Prepared checked by _____Approved by

Material Cost (1:01)					Labor (1:02)				
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	** Indexed Hourly Cost	Daily Cost
Cement	Qtl..	4.20		0.00	Foreman	1	0.5	23.75	11.875
Sand	m3	0.55	448.96	246.93	Plasterer	2	1	15.38	30.75
Gravel (02)	m3	0.82	470.68	385.96	Carpenter	1	1	16.75	16.75
Water	m3	0.25	3.45	0.86	Bar bender	1	1	7.25	7.25
Admixture	lit	8	40	320.00	DL II	18	1	6.38	114.75
					Eq. Ope.1	1	1	9.13	9.125
					Eq. Ope.2	1	1	9.13	9.125
Total (1:-01)				953.75	**Total (1:02)**				199.63

A= Materials Unit Cost 953.7 Birr/m^3 **B=Manpower Unit Cost** 133.08 Br./m^3

Total of (1:02)

Daily Output

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

Overhead Cost: 8%

Profit Cost: 7%

Total :

Remark _____

UF: UTILIZATION FACTOR **Total unit cost:**

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

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

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: ***CONCRETE WORK*** Super structure LABOUR HOURLY OUTP

WORK ITEM:_ (2.34) ***Ribbed slab for suspended floor slab*** *EQUIPMENT DAILY OUT*

_____Data collected by _____Prepared checked by _____Approved by

TOTAL QUANTITY OF WORK ITEM: ***1m³*** *1 m²* *0.06 cm* *RESULT:*

Material Cost (1:01)					*Labor (1:02)*				
Type of Material	*Unit*	*Qty **	*Rate*	*Cost per Unit*	*Labor by Trade*	*No.*	*UF*	** Indexed Hourly Cost	hourly wage
Cement	*Qtl..*	*0.21*		*0.00*	*Forman*	*1*	*0.5*	*23.75*	*11.88*
Sand	*m3*	*0.025*	*448.96*	*11.22*	*Mason*	*1*	*1*	*15.88*	*15.88*
Gravel (02)	*m3*	*0.047*	*470.68*	*22.12*	*DL*	*4*	*1*	*6.38*	*25.5*
Water	*m3*	*0.26*	*3.45*	*0.90*					
Hollow block	*No*	*10.00*		*0.0*					
Beam	*No.*	*1.00*		*0.00*					
Total (1:-01)				*34.24*	***Total (1:02)***				*53.25*

A= Materials Unit Cost *34.24 Birr/m²* ***B=Manpower Unit Cost*** *37.04 Birr/m²*

Total of (1:02)

Daily Output

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

Overhead Cost: *8%*

Profit Cost: *7%*

Total :

Remark _____

UF: UTILIZATION FACTOR

Total unit cost:

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

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

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: ***CONCRETE WORK*** Super structure LABOUR HOURLY OUTP

_____Data collected by _____Prepared checked by _____Approved by

WORK ITEM:_ (2.34) ***Ribbed slab for suspended floor slab*** *EQUIPMENT DAILY OUT*

TOTAL QUANTITY OF WORK ITEM: ***1m³*** *1 m²* *0.08 cm* *RESULT:*

Material Cost (1:01)					*Labor (1:02)*				
Type of Material	*Unit*	*Qty **	*Rate*	*Cost per Unit*	*Labor by Trade*	*No.*	*UF*	** Indexed Hourly Cost	hourly wage
Cement	*Qtl..*	*0.29*		*0.00*	*Forman*	*1*	*0.5*	*23.75*	*11.88*
Sand	*m3*	*0.035*	*448.96*	*15.71*	*Mason*	*1*	*1*	*15.88*	*15.88*
Gravel (02)	*m3*	*0.065*	*470.68*	*30.59*	*DL*	*4*	*1*	*6.38*	*25.5*
Water	*m3*	*0.26*	*3.45*	*0.90*					
Hollow block	*No*	*10.00*		*0.0*					
Beam	*No.*	*1.00*		*0.00*					
Total (1:-01)				*47.20*	***Total (1:02)***				*53.25*

A= Materials Unit Cost *47.20 Birr/m²* ***B=Manpower Unit Cost*** *37.04 Birr/m²*

Total of (1:02)

Daily Output

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

Overhead Cost: *8%*

Profit Cost: *7%*

Total :

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.*

Sub-structure

PROJECT: **FORM WORKS** LABOUR HOURLY OUTP

WORK ITEM: (4.1) ***Zigba form work for footing & mat foundation*** EQUIPMENT HOURLY O

_____Data collected by _____Prepared checked by _____Approved by

TOTAL QUANTITY OF WORK ITEM: 1 m^2 RESULT:

Material Cost (1:01)					Labor Cost (1:02)				
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	** Indexed Hourly Cost	hourly wage
Eucaly. wood 4cm diameter	m	2.40	2.50	6.00	Forman	1	0.25	23.75	5.94
form work 2.5cm - local wood	m^3	0.027	2100.00	56.70	Carpenter I	1	1	16.75	16.75
Eucaly. wood 6cm diameter	m	3.60	3.75	13.50	Helper	2	1	10.00	20.00
nails of different size	Kg	0.20	33.96	6.79					
mould oil	lit	0.06	15.00	0.90					
Total (1:01)				83.89	**Total (1:02)**				42.69

A= Materials Unit Cost 83.89 Birr/m^2 **B= Manpower Unit Cost** 77.61 Birr/m^2 **C=Equi**

Total of (1:02)

Daily output:

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

Over head cost : 8%

Profit Cost: 7%

Total:

Remark _____

UF: UTILIZATION FACTOR **Total unit cost:**

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

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

SUB STRUCTURE

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: **FORM WORKS** LABOUR HOURLY OUTP

WORK ITEM:(4.2) ***Zigba form work for Sub grade beam .*** EQUIPMENT HOURLY O

_____Data collected by _____Prepared checked by _____Approved by

TOTAL QUANTITY OF WORK ITEM: 1 m^2 RESULT:

Material Cost (1:01)					Labor Cost (1:02)				
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	** Indexed Hourly Cost	Daily wage
Eucalyptus wood 4cm diameter	m	2.40	2.50	6.00	Foreman	1	0.25	23.75	5.94
form work 2.5cm - local wood	m^3	0.027	2100.00	56.70	Carpenter I	1	1	16.75	16.75
Eucalyptus wood 6cm diameter	m	3.60	3.75	13.50	Helper	2	1	10.00	20.00
nails of different size	Kg	0.20	33.96	6.79					
mould oil	lit	0.06	15.00	0.90					
				0.00					
				0.00					
Total (1:01)				83.89	**Total (1:02)**				42.69

A= Materials Unit Cost 83.89 Birr/m^2 **B= Manpower Unit Cost** 74.24 Birr/m^2 **C=Equi**

Total of (1:02)

Daily output:

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

Over head cost : 8%

Profit Cost: 7%

Total:

Remark _____

UF: UTILIZATION FACTOR **Total unit cost:**

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

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

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: **FORM WORKS** LABOUR HOURLY OUTP

WORK ITEM:(4.3) ***Zigba form work for foundation column*** EQUIPMENT HOURLY O

TOTAL QUANTITY OF WORK ITEM: 1 m^2 RESULT:

_____Data collected by _____Prepared checked by _____Approved by

Material Cost (1:01)					Labor Cost (1:02)				
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	** Indexed Hourly Cost	Daily wage
Eucalyptus wood 8cm diameter	M	12	5.63	67.50	Foreman	1	0.25	23.75	5.94
form work 2.5cm local wood	m^3	0.027	2100.00	56.70	Carpenter I	1	1	16.75	16.75
Eucalyptus wood 4cm diameter	m	3	2.50	7.50	Helper	2	1	10.00	20.00
Eucalyptus wood 6cm diameter	m	4	3.75	15.00					
nails of different size	kg	0.3	33.96	10.19					
mould oil	lit	0.06	15.00	0.90					
Total (1:01)				157.79	**Total (1:02)**				42.69

A= Materials Unit Cost 157.79 Birr/m^2 **B= Manpower Unit Cost** 72.66 Birr/m^2 **C=Equi**

Total of (1:02)

Daily output:

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

Over head cost : 8%

Profit Cost: 7%

Total:

Remark _____

UF: UTILIZATION FACTOR **Total unit cost:**

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

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

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: **FORM WORKS** LABOUR HC

WORK ITEM: (4.4) ***Zigba form work for conc. shear wall, Lift shaft, stair case and landing, and parapet*** EQUIPMEN

TOTAL QUANTITY OF WORK ITEM: 1 m^2 RESULT:

_____Data collected by _____Prepared checked by _____Approved by

Material Cost (1:01)					Labor Cost (1:02)				
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	** Indexed Hourly Cost	Daily wage
Eucalyptus wood 8cm diameter	Ml	12	5.63	67.50	Foreman	1	0.25	23.75	5.94
form work 2.5cm local wood	m^3	0.027	2100.00	56.70	Carpenter I	1	1	16.75	16.75
Eucalyptus wood 4cm diameter	ml	3	2.50	7.50	Helper	2	1	10.00	20.00
Eucalyptus wood 6cm diameter	ml	4	3.75	15.00					
nails of different size	kg	0.3	33.96	10.19					
mould oil	lit	0.06	15.00	0.90					
Total (1:01)				157.79	**Total (1:02)**				42.69

A= Materials Unit Cost 157.79 Birr/m^2 **B= Manpower Unit Cost** 79.42 Birr/m^2 **C=Equi**

Total of (1:02)

Daily output:

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

Over head cost : 8%

Profit Cost: 7%

Total:

Remark _____

UF: UTILIZATION FACTOR **Total unit cost:**

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

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

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: **FORM WORKS** LABOUR HOURLY OUTP

WORK ITEM: _(4.5) ***Zigba form work for suspended slab*** EQUIPMENT HOURLY O

TOTAL QUANTITY OF WORK ITEM: 1 m^2 RESULT:

Material Cost (1:01)	Labor Cost (1:02)

_____Data collected by _____Prepared checked by _____Approved by

Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	** Indexed Hourly Cost	Daily wage
Eucalyptus wood 8cm diameter	M	12	5.63	67.50	Foreman	1	0.25	23.75	5.94
form work 2.5cm local wood	m^3	0.027	2100.00	56.70	Carpenter I	1	1	16.75	16.75
Eucalyptus wood 6cm diameter	m	12	3.75	45.00	Helper	2	1	10.00	20.00
nails of different size	kg	0.3	33.96	10.19					
mould oil	lit	0.06	15.00	0.90					
Total (1:01)				180.29	**Total (1:02)**				42.69

A= Materials Unit Cost 180.29 Birr/m^2 **B= Manpower Unit Cost** 72.66 Birr/m^2 **C=Equi**

Total of (1:02)

Daily output:

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

Over head cost : 8%

Profit Cost: 7%

Total:

Remark _____

UF: UTILIZATION FACTOR **Total unit cost:**

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

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

Super structure

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: **FORM WORKS** LABOUR HOURLY OUTP

WORK ITEM: _ (4.6) ***Zigba form work for elevation column*** EQUIPMENT HOURLY O

TOTAL QUANTITY OF WORK ITEM: 1 m^2 RESULT:

Material Cost (1:01)	**Labor Cost (1:02)**

_____Data collected by _____Prepared checked by _____Approved by

Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	** Indexed Hourly Cost	Daily wage
Eucalyptus wood 8cm diameter	M	12	5.63	67.50	Foreman	1	0.25	23.75	5.94
form work 2.5cm local wood	m^3	0.027	2100.00	56.70	Carpenter I	1	1	16.75	16.75
Eucalyptus wood 4cm diameter	m	3	2.50	7.50	Helper	2	1	10.00	20.00
Eucalyptus wood 6cm diameter	m	12	3.75	45.00					
nails of different size	kg	0.3	33.96	10.19					
mould oil	lit	0.06	15.00	0.90					
Total (1:01)				187.79	**Total (1:02)**				42.69

A= Materials Unit Cost 187.79 Birr/m^2 **B= Manpower Unit Cost** 72.66 Birr/m^2 **C=Equi**

Total of (1:02)

Daily output:

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

Over head cost : 8%

Profit Cost: 7%

Total:

Remark _____

UF: UTILIZATION FACTOR **Total unit cost:**

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

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

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: **FORM WORKS** LABOUR HOURLY OUTP

WORK ITEM: _ (4.7) ***PLYWOOD form work for beams and lintels*** EQUIPMENT HOURLY O

TOTAL QUANTITY OF WORK ITEM: 1 m^2 RESULT:

Material Cost (1:01)	**Labor Cost (1:02)**

_____Data collected by _____Prepared checked by _____Approved by

Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	** Indexed Hourly Cost	Daily wage
Eucalyptus wood 8cm diameter	M	4	10.00	40.00	Foreman	1	0.25	23.75	5.94
form work 1.6CM PLY wood	m2	0.027	59.33	1.60	Carpenter I	1	1	16.75	16.75
Eucalyptus wood 4cm diameter	m	6	4.00	24.00	Helper	1	1	10.00	10.00
Eucalyptus wood 6cm diameter	m	12	4.00	48.00					
nails of different size	kg	0.3	70.00	21.00					
mould oil	lit	0.06	3.00	0.18					
				0.00					
Total (1:01)				134.78	**Total (1:02)**				32.69

A= Materials Unit Cost 134.78 Birr/m²

B= Manpower Unit Cost 58.11 Birr/m²

Total of (1:02)

Daily output:

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

Over head cost : 10%

Profit Cost: 0%

Total:

C=Equi

Remark _____

UF: UTILIZATION FACTOR

Total unit cost:

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

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

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: **FORM WORKS**

LABOUR HC

WORK ITEM:(4.8) ***Zigba form work for concrete shear wall, Lift shaft, stair case and landing, and parapet***

EQUIPMEN

TOTAL QUANTITY OF WORK ITEM: 1 m²

RESULT:

Material Cost (1:01)	**Labor Cost (1:02)**

_____Data collected by _____Prepared checked by _____Approved by

Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	** Indexed Hourly Cost	Daily wage
Eucalyptus wood 8cm diameter	M	14	5.63	78.75	Foreman	1	0.25	23.75	5.94
form work 2.5cm local wood	m^3	0.027	2100.00	56.70	Carpenter I	1	1	16.75	16.75
Eucalyptus wood 6cm diameter	m	12	3.75	45.00	Helper	2	1	10.00	20.00
nails of different size	kg	0.4	33.96	13.58					
mould oil	lit	0.06	15.00	0.90					
Eucalyptus wood 4cm diameter	m	12	2.50						
Total (1:01)				194.93	**Total (1:02)**				42.69

A= Materials Unit Cost 194.93 Birr/m^2 **B= Manpower Unit Cost** 79.42 Birr/m^2 **C=Equi**

Total of (1:02)

Daily output:

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

Over head cost : 8%

Profit Cost: 7%

Total:

Remark _____

UF: UTILIZATION FACTOR **Total unit cost:**

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

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

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: **FORM WORKS** LABOUR HOURLY OUTP

WORK ITEM: _ (4.9) ***Zigba form work for suspended and ribbed slab*** EQUIPMENT DAILY OUT

TOTAL QUANTITY OF WORK ITEM: 1 m^2 RESULT:

Material Cost (1:01)	**Labor Cost (1:02)**

_____Data collected by _____Prepared checked by _____Approved by

Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	** Indexed Hourly Cost	Daily wage
Eucalyptus wood 8cm diameter	M	20	5.63	112.50	Foreman	1	0.25	23.75	5.94
form work 2.5cm local wood	m^3	0.027	2100.00	56.70	Carpenter II	1	1	16.75	16.75
Eucalyptus wood 6cm diameter	m	6	3.75	22.50	Helper	2	1	10.00	20.00
nails of different size	kg	0.4	33.96	13.58					
mould oil	lit	0.06	15.00	0.90					
				0					
Total (1:01)				206.18	**Total (1:02)**				42.69

A= Materials Unit Cost 206.18 Birr/m^2 **B= Manpower Unit Cost** 72.66 Birr/m^2 **C=Equi**

Total of (1:02)

Daily output:

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

Over head cost : 8%

Profit Cost: 7%

Total:

Remark _____

UF: UTILIZATION FACTOR **Total unit cost:**

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

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

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: **FORM WORKS** Building exterior (wall) LABOUR HOURLY OUTP

WORK ITEM: _ (4.9) ***Scaffoldings tubular steel*** 1 to 5 stories EQUIPMENT HOURLY O

TOTAL QUANTITY OF WORK ITEM: 1 m^2 RESULT:

Material Cost (1:01)	**Labor Cost (1:02)**

_____Data collected by _____Prepared checked by _____Approved by

Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	** Indexed Hourly Cost	Daily wage
Tubular steel	M	8	1.00	8.00	Foreman	1	0.25	23.75	5.94
Steel panels	m^2	0.5	1.50	0.75	Carpenter II	3	1	16.75	50.25
					Helper	2	1	6.38	12.75
Total (1:01)				8.75	**Total (1:02)**				68.94

A= Materials Unit Cost 8.75 Birr/m^2 **B= Manpower Unit Cost** 8.62 Birr/m^2 **C=Equi**

Total of (1:02)

Daily output:

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

Over head cost : 8%

Profit Cost: 7%

Total:

Remark _____

UF: UTILIZATION FACTOR **Total unit cost:**

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

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

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: **FORM WORKS** Building exterior (wall) LABOUR HOURLY OUTP

WORK ITEM: _ (4.9) ***Scaffoldings tubular steel*** 6 to 12 stories EQUIPMENT HOURLY O

TOTAL QUANTITY OF WORK ITEM: 1 m^2 RESULT:

Material Cost (1:01)	**Labor Cost (1:02)**

_____Data collected by _____Prepared checked by _____Approved by

Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	** Indexed Hourly Cost	Daily wage
Tubular steel	M	8	1.00	8.00	Foreman	1	0.25	23.75	5.94
Steel panels	m^2	0.5	1.50	0.75	Carpenter II	4	1	16.75	67.00
					Helper	2	1	10.00	20.00
Total (1:01)				8.75	**Total (1:02)**				92.94

A= Materials Unit Cost 8.75 Birr/m^2 **B= Manpower Unit Cost** 13.04 Birr/m^2 **C=Equi**

Total of (1:02)

Daily output:

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

Over head cost : 8%

Profit Cost: 7%

Total:

Remark _____

UF: UTILIZATION FACTOR **Total unit cost:**

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

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

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: **FORM WORKS** Building exterior (wall) LABOUR HOURLY OUTP

WORK ITEM: _ (4.9) ***Scaffoldings tubular steel*** 13 to 20 stories EQUIPMENT HOURLY O

TOTAL QUANTITY OF WORK ITEM: 1 m^2 RESULT:

Material Cost (1:01)	**Labor Cost (1:02)**

_____Data collected by _____Prepared checked by _____Approved by

Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	** Indexed Hourly Cost	Daily wage
Tubular steel	M	8	1.00	8.00	Foreman	1	0.25	23.75	5.94
Steel panels	m^2	0.5	1.50	0.75	Carpenter II	5	1	16.75	83.75
					Helper	2	1	10.00	20.00
Total (1:01)				8.75	**Total (1:02)**				109.69

A= Materials Unit Cost 8.75 Birr/m^2 **B= Manpower Unit Cost** 13.71 Birr/m^2 **C=Equi**

Total of (1:02)

Daily output:

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

Over head cost : 8%

Profit Cost: 7%

Total:

Remark _____

UF: UTILIZATION FACTOR **Total unit cost:**

*: 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: ***CONCRETE WORK*** From 1th - 3th floor LABOUR HC

WORK ITEM:(2.7.1) ***C-20 Concrete elevation column up to 30cm thick*** EQUIPEMEN

TOTAL QUANTITY OF WORK ITEM: 1 m^3 RESULT:

Material Cost (1:01)	Labour (1:02)

_____Data collected by _____Prepared checked by _____Approved by

Type of Material	Unit	Qty *	Rate	Cost per Unit	Labour by Trade	No.	UF	** Indexed Hourly Cost	Hourly Cost
Cement	Qnt.	3.2		0.00	Foreman	1	1	23.75	23.75
Sand	m3	0.45	448.96	202.03	Plasterer II	2	1	15.38	30.75
Gravel (02)	m^3	0.83	470.68	390.66	D/L II	5	1	7.50	37.50
Water	m^3	0.21	3.45	0.72	Equi. Operator I	2	1	75.00	150.00
					Bar bender	1	1	14.00	14.00
					Carpentary	1	1	16.75	16.75
					Vibrator oper.	2	1	8.75	17.5
Total (1:-01)				593.42	**Total (1:02)**				290.25

A= Materials Unit Cost **593.42** Birr/m^3 B=Manpower Unit Cost **91.06** Br./m^3

Total of (1:02)

Hourly Output 3.1875

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

Overhead Cost: 561.71 8%

Profit Cost: 7%

Total Unit Cost :

Remark _____

UF: UTILIZATION FACTOR

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

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

ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT: ***CONCRETE WORK*** From 1th - 3th floor LABOUR HC

WORK ITEM:(2.7.1) ***C-20 Concrete elevation column 30cm - 45cm thick*** EQUIPEMEN

TOTAL QUANTITY OF WORK ITEM: 1 m^3 RESULT:

Material Cost (1:01)	Labour (1:02)

_____Data collected by _____Prepared checked by _____Approved by

Type of Material	Unit	Qty *	Rate	Cost per Unit	Labour by Trade	No.	UF	** Indexed Hourly Cost	Hourly Cost
Cement	Qnt.	3.2		0.00	Foreman	1	1	23.75	23.75
Sand	m3	0.45	448.96	202.03	Plasterer II	2	1	15.38	30.75
Gravel (02)	m^3	0.83	470.68	390.66	D/L II	5	1	7.50	37.50
Water	m^3	0.21	3.45	0.72	Equi. Operator I	2	1	75.00	150.00
					Bar bender	1	1	14.00	14.00
					Carpentary	1	1	16.75	16.75
					Vibrator oper.	2	1	8.75	17.5
Total (1:-01)				593.42	**Total (1:02)**				290.25

A= Materials Unit Cost **593.42** Birr/m^3 B=Manpower Unit Cost **66.34** Br./m^3

Total of (1:02)

Hourly Output 4.375

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

Overhead Cost: 409.25 8%

Profit Cost: 7%

Total Unit Cost :

Remark _____

UF: UTILIZATION FACTOR

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

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

ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT: ***CONCRETE WORK*** From 1th - 3th floor LABOUR HC

WORK ITEM: (2.7.2) ***C-20 Small Elevated Concrete beam < 0.09m²*** EQUIPEMEN

TOTAL QUANTITY OF WORK ITEM: 1 m^3 RESULT:

Material Cost (1:01)	Labour (1:02)

_____Data collected by _____Prepared checked by _____Approved by

Type of Material	Unit	Qty *	Rate	Cost per Unit	Labour by Trade	No.	UF	** Indexed Hourly Cost	Hourly Cost
Cement	Qnt.	3.2		0.00	Foreman	1	0.333333	31.25	10.42
Sand	m3	0.45	0.00	0.00	Plasterer	2	1	31.25	62.50
Gravel (02)	m^3	0.83	0.00	0.00	D/L	18	1	12.50	225.00
Water	m^3	0.213	0.00	0.00	Equi. Operator	1	1	12.50	12.50
			0.00	0.00	gang chief	1	1	18.75	18.75
				0.00	Carpentary	1	0.5	31.25	15.625
				0.00	Vibrator oper.	2	1	-	0
Total (1:-01)				0.00	**Total (1:02)**				344.79

A= Materials Unit Cost **0** Birr/m^3 B=Manpower Unit Cost **306.48** Br./m^3

Total of (1:02)

Hourly Output 1.125

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

Overhead Cost: 306.48 8%

Profit Cost: 7%

Total Unit Cost :

Remark _____

UF: UTILIZATION FACTOR

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

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

ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT: ***CONCRETE WORK*** From 1th - 3th floor LABOUR HC

WORK ITEM: (2.7.2) ***C-20 Large elevated Concrete beam > 0.25m²*** EQUIPEMEN

TOTAL QUANTITY OF WORK ITEM: 1 m^3 RESULT:

Material Cost (1:01)	Labour (1:02)

_____Data collected by _____Prepared checked by _____Approved by

Type of Material	Unit	Qty *	Rate	Cost per Unit	Labour by Trade	No.	UF	** Indexed Hourly Cost	Hourly Cost
Cement	Qnt.	3.2		0.00	Foreman	1	1	23.75	23.75
Sand	m3	0.45	448.96	202.03	Plasterer	2	1	15.38	30.75
Gravel (02)	m^3	0.83	470.68	390.66	D/L	5	1	7.50	37.50
Water	m^3	0.213	3.45	0.73	Equi. Operator	2	1	75.00	150.00
				0.00	Bar bender	1	1	14.00	14.00
				0.00	Carpentary	1	1	16.75	16.75
				0.00	Vibrator oper.	2	1	8.75	17.5
Total (1:-01)				593.43	**Total (1:02)**				290.25

A= Materials Unit Cost **593** Birr/m^3 B=Manpower Unit Cost **58.73** Br./m^3

Total of (1:02)

Hourly Output 4.9425

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

Overhead Cost: 362.26 8%

Profit Cost: 7%

Total Unit Cost :

Remark _____

UF: UTILIZATION FACTOR

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

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

ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT: ***CONCRETE WORK*** From 1th - 3th floor LABOUR HC

WORK ITEM: (2.7.3) ***C-20 Concrete Suspended slab < 15cm thick*** EQUIPEMEN

TOTAL QUANTITY OF WORK ITEM: 1 m^3 0.1 cm RESULT:

Material Cost (1:01)	Labour (1:02)

_____Data collected by _____Prepared checked by _____Approved by

Type of Material	Unit	Qty *	Rate	Cost per Unit	Labour by Trade	No.	UF	** Indexed Hourly Cost	Hourly Cost
Cement	Qnt.	3.2		0.00	Foreman	1	1	23.75	23.75
Sand	m3	0.45	448.96	202.03	Plasterer	2	1	15.38	30.75
Gravel (02)	m^3	0.83	470.68	390.66	D/L	5	1	7.50	37.50
Water	m^3	0.21	3.45	0.72	Equi.Operator.	2	1	75.00	150.00
					Bar bender	1	1	14.00	14.00
					Carpentary	1	1	16.75	16.75
					Vibrator oper.	2	1	8.75	17.5
Total (1:-01)				593.41	**Total (1:02)**				290.25

A= Materials Unit Cost **593.41** Birr/m^2 B=Manpower Unit Cost **40.74** Br./m^2

Total of (1:02) 290.25

Hourly Output 7.125

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

Overhead Cost: 251.29 8%

Profit Cost: 7%

Total Unit Cost :

Remark _____

UF: UTILIZATION FACTOR

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

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

ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT: ***CONCRETE WORK*** From 1th - 3th floor LABOUR HC

WORK ITEM: (2.7.3) ***C-20 Concrete Suspended slab 15cm to 25.5cm thick*** EQUIPEMEN

TOTAL QUANTITY OF WORK ITEM: 1 m^2 0.2 cm RESULT:

Material Cost (1:01)	Labour (1:02)

_____Data collected by _____Prepared checked by _____Approved by

Type of Material	Unit	Qty *	Rate	Cost per Unit	Labour by Trade	No.	UF	** Indexed Hourly Cost	Hourly Cost
Cement	Qnt.	3.2		0.00	Foreman	1	1	23.75	23.75
Sand	m3	0.45	448.96	202.03	Plasterer	2	1	15.38	30.75
Gravel (02)	m^3	0.83	470.68	390.66	D/L	5	1	7.50	37.50
Water	m^3	0.21	3.45	0.72	Equi.Operator.	2	1	75.00	150.00
					Bar bender	1	1	14.00	14.00
					Carpentary	1	1	16.75	16.75
					Vibrator oper.	2	1	8.75	17.5
Total (1:-01)				593.41	**Total (1:02)**				290.25

A= Materials Unit Cost **593.41** Birr/m^2 B=Manpower Unit Cost **35.72** Br./m^2

Total of (1:02) 290.25

Hourly Output 8.125

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

Overhead Cost: 220.36 8%

Profit Cost: 7%

Total Unit Cost :

Remark _____

UF: UTILIZATION FACTOR

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

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

ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT: ***CONCRETE WORK*** From 1th - 3th floor LABOUR HC

WORK ITEM: (2.7.3) ***C-20 Concrete Suspended slab over 25.5cm thick*** EQUIPEMEN

TOTAL QUANTITY OF WORK ITEM: 1 m^2 0.26 cm RESULT:

Material Cost (1:01)	Labour (1:02)

_____Data collected by _____Prepared checked by _____Approved by

Type of Material	Unit	Qty *	Rate	Cost per Unit	Labour by Trade	No.	UF	** Indexed Hourly Cost	Hourly Cost
Cement	Qnt.	3.2		0.00	Foreman	1	1	23.75	23.75
Sand	m3	0.45	448.96	202.03	Plasterer	2	1	15.38	30.75
Gravel (02)	m^3	0.83	470.68	390.66	D/L	5	1	7.50	37.50
Water	m^3	0.21	3.45	0.72	Equi.Operator.	2	1	75.00	150.00
					Bar bender	1	1	14.00	14.00
					Carpentary	1	1	16.75	16.75
					Vibrator oper.	2	1	8.75	17.5
Total (1:-01)				593.41	**Total (1:02)**				290.25

A= Materials Unit Cost **593.41** Birr/m^2 B=Manpower Unit Cost **29.39** Br./m^2

Total of (1:02) 290.25

Hourly Output 9.875

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

Overhead Cost: 181.31 8%

Profit Cost: 7%

Total Unit Cost :

Remark _____

UF: UTILIZATION FACTOR

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

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

ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT: ***CONCRETE WORK*** From 1th - 3th floor LABOUR HOURLY OUTP

WORK ITEM:(2.7.4) ***C-20 Concrete wall /20cm thick/*** EQUIPEMENT: Mixer &

TOTAL QUANTITY OF WORK ITEM: _ 1 m^3 0.2 cm RESULT:

Material Cost (1:01)	Labour (1:02)

_____Data collected by _____Prepared checked by _____Approved by

Type of Material	Unit	Qty *	Rate	Cost per Unit	Labour byTrade	No.	UF	** Indexed Hourly Cost	Hourly Cost
Cement	Qnt.	3.20		0.00	Foreman	1	1	23.75	23.75
Sand	m3	0.45	448.96	202.03	Plasterer	2	1	15.38	30.75
Gravel (02)	m^3	0.83	470.68	390.66	D/L	5	1	7.50	37.50
Water	m^3	0.21	3.45	0.72	Equi.Operator.	2	1	75.00	150.00
					Bar bender	1	1	14.00	14.00
					Carpentary	1	1	14.00	14
					Vibrator oper.	2	1	8.75	17.5
									0.00
Total (1:-01)				593.42	**Total (1:02)**				287.50

A= Materials Unit Cost **593** Birr/m^2 B=Manpower Unit Cost **42.59** Br./m^2

Total of (1:02)

Hourly Output

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

Overhead Cost: 8%

Profit Cost: 7%

Total Unit Cost :

Remark _____

UF: UTILIZATION FACTOR

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

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

ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT: ***CONCRETE WORK*** From 1th - 3th floor LABOUR HC

WORK ITEM:(2.7.5) ***C -20 Concrete stair case*** EQUIPEMEN

TOTAL QUANTITY OF WORK ITEM: _ 1 m^3 RESULT:

Material Cost (1:01)	Labour (1:02)

_____Data collected by _____Prepared checked by _____Approved by

Type of Material	Unit	Qty *	Rate	Cost per Unit	Labour byTrade	No.	UF	** Indexed Hourly Cost	Hourly Cost
Cement	Qnt.	3.20		0.00	Foreman	1	1/2	23.75	11.88
Sand	m3	0.45	448.96	202.03	Plasterer	2	1.00	15.38	30.75
Gravel (02)	m^3	0.83	470.68	390.66	D/L	5	1	7.50	37.50
Water	m^3	0.21	3.45	0.72	Equi.Operator.	2	1.00	75.00	150.00
					Bar bender	1	1	14.00	14.00
					Carpentary	1	1	16.75	16.75
					Vibrator oper.	2	1	8.75	17.5
Total (1:-01)				593.42	**Total (1:02)**				278.38

A= Materials Unit Cost **593** Birr/m^3 B=Manpower Unit Cost **38.40** Br./m^2

Total of (1:02)

Hourly Output

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

Overhead Cost: 8%

Profit Cost: 7%

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.

In 2011

ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT: ***CONCRETE WORK*** From 1th - 3th floor LABOUR HC

WORK ITEM:(2.7.5) ***C -20 Precast beam*** EQUIPEMEN

TOTAL QUANTITY OF WORK ITEM: _ 1 ml RESULT:

4 m

Material Cost (1:01)	Labour (1:02)

_____Data collected by _____Prepared checked by _____Approved by

Type of Material	Unit	Qty *	Rate	Cost per Unit	Labour byTrade	No.	UF	** Indexed Hourly Cost	Hourly Cost
Cement	Qnt.	0.0250	231.00	5.77	Foreman	1	1/4	19.94	4.99
Sand	m3	0.0026	375.00	0.98	Carpentary	1	1	18.75	18.75
Gravel (02)	m^3	0.0029	425.00	1.23	D/L	2	1	9.38	18.76
Water	m^3	0.0023	3.45	0.01	Bar bender	1	1	16.25	16.25
Formwork	m^2	0.10	52.50	5.25					
Reinforcement									
Dia 6mm	kg	1.90	21.00	39.90					
Dia 14mm	kg	1.21	19.00	22.99					
Dia 16mm	kg	3.16	19.00	60.04					
Total (1:-01)				76.12	**Total (1:02)**				58.75

A= Materials Unit Cost **76** Birr/ml B=Manpower Unit Cost **14.69** Br./ml

Total of (1:02)

Hourly Output

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

Overhead Cost: 8%

Profit Cost: 7%

Total Unit Cost :

Remark _____

UF: UTILIZATION FACTOR

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

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

ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT: ***CONCRETE WORK*** From 1th - 3th floor LABOUR HC

WORK ITEM:(2.7.5) ***C -20 Precast beam*** EQUIPEMEN

TOTAL QUANTITY OF WORK ITEM: _ 1 ml RESULT:

_____Data collected by _____Prepared checked by _____Approved by

Material Cost (1:01)					Labour (1:02)				
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labour byTrade	No.	UF	** Indexed Hourly Cost	Hourly Cost
Cement	Qnt.	0.0250	240.00	6.00	Foreman	1	1/4	23.75	5.94
Sand	m3	0.0026	448.96	1.17	Plasterer	1	1.00	15.38	15.38
Gravel (02)	m^3	0.0029	470.68	1.36	D/L	2	1	7.50	15.00
Water	m^3	0.0023	3.45	0.01	Bar bender	1	1	14.00	14.00
Formwork	m^2	0.10	52.50	5.25					
Reinforcement				0.00					
Dia 6mm	kg	1.9	24.00	45.60					
Dia 14mm	kg	1.21	23.00	27.83					
Dia 16mm	kg	3.16	23.00	72.68					
Total (1:-01)				87.22	**Total (1:02)**				50.31

A= Materials Unit Cost **87** Birr/m^2 B=Manpower Unit Cost **12.58** Br./m^2

Total of (1:02)

Hourly Output

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

Overhead Cost: 8%

Profit Cost: 7%

Total Unit Cost :

Remark _____

UF: UTILIZATION FACTOR

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

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

ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT: ***CONCRETE WORK*** From 1th - 3th floor LABOUR HOURLY OUTP

WORK ITEM: (2.8.1) ***C-25 Concrete elevation column up to 30cm thick*** EQUIPEMENT: Mixer &

TOTAL QUANTITY OF WORK ITEM: _ 1 m^3 RESULT:

_____Data collected by _____Prepared checked by _____Approved by

Material Cost (1:01)					Labour (1:02)				
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labour byTrade	No.	UF	** Indexed Hourly Cost	Hourly Cost
Cement	Qnt.	3.65	244.36	891.91	Foreman	1	1/2	23.75	11.88
Sand	m3	0.44	448.96	197.54	Plasterer	2	1.00	15.38	30.75
Gravel (02)	m^3	0.81	470.68	381.25	D/L	5	1	7.50	37.50
Water	m^3	0.24	3.45	0.83	Equi.Operator.	2	1.00	75.00	150.00
					Bar bender	1	1	14.00	14.00
					Carpentary	1	1	16.75	16.75
					Vibrator oper.	2	1	8.75	17.5
Total (1:-01)				1471.54	**Total (1:02)**				278.38

A= Materials Unit Cost **1471.5** Birr/m^2 B=Manpower Unit Cost **87.3** Br./m^2

Total of (1:02)

Hourly Output

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

Overhead Cost: 8%

Profit Cost: 7%

Total Unit Cost :

Remark _____

UF: UTILIZATION FACTOR

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

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

ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT: ***CONCRETE WORK*** From 1th - 3th floor LABOUR HOURLY OUTP

WORK ITEM: (2.8.1) ***C-25 Concrete elevation column 30cm to 45cm thick*** EQUIPEMENT: Mixer &

TOTAL QUANTITY OF WORK ITEM: _ 1 m^3 RESULT:

_____Data collected by _____Prepared checked by _____Approved by

Material Cost (1:01)					Labour (1:02)				
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labour byTrade	No.	UF	** Indexed Hourly Cost	Hourly Cost
Cement	Qnt.	3.65		0.00	Foreman	1	1/2	23.75	11.88
Sand	m3	0.44	448.96	197.54	Plasterer	2	1.00	15.38	30.75
Gravel (02)	m^3	0.81	470.68	381.25	D/L	5	1	7.50	37.50
Water	m^3	0.24	3.45	0.83	Equi.Operator.	2	1.00	75.00	150.00
					Bar bender	1	1	14.00	14.00
					Carpentary	1	1	16.75	16.75
					Vibrator oper.	2	1	8.75	17.5
Total (1:-01)				579.62	**Total (1:02)**				278.38

A= Materials Unit Cost **579.6** Birr/m^2 B=Manpower Unit Cost **63.6** Br./m^2

Total of (1:02)

Hourly Output

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

Overhead Cost: 8%

Profit Cost: 7%

Total Unit Cost :

Remark _____

UF: UTILIZATION FACTOR

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

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

ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT: ***CONCRETE WORK*** From 1th - 3th floor LABOUR HOURLY OUTP

WORK ITEM: (2.8.2) ***C-25 Small Elevated Concrete beam < 0.09m²*** EQUIPEMENT: Mixer ,\

TOTAL QUANTITY OF WORK ITEM: _ 1 m^3 RESULT:

_____Data collected by _____Prepared checked by _____Approved by

Material Cost (1:01)					Labour (1:02)				
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labour byTrade	No.	UF	** Indexed Hourly Cost	Hourly Cost
Cement	Qnt.	3.65		0.00	Foreman	1	1/2	23.75	11.88
Sand	m3	0.44	448.96	197.54	Plasterer	2	1.00	15.38	30.75
Gravel (02)	m^3	0.81	470.68	381.25	D/L	5	1	7.50	37.50
Water	m^3	0.24	3.45	0.83	Equi.Operator.	2	1.00	75.00	150.00
					Bar bender	1	1	14.00	14.00
					Carpentary	1	1	16.75	16.75
					Vibrator oper.	2	1	8.75	17.5
Total (1:-01)				579.62	**Total (1:02)**				278.38

A= Materials Unit Cost **579.6** Birr/m^2 B=Manpower Unit Cost **82.48** Br./m^2

Total of (1:02)

Hourly Output

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

Overhead Cost: 8%

Profit Cost: 7%

Total Unit Cost :

Remark _____

UF: UTILIZATION FACTOR

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

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

ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT: ***CONCRETE WORK*** From 1th - 3th floor LABOUR HOURLY OUTP

WORK ITEM: (2.8.2) ***C-25 Large Elevated Concrete beam > 0.25m²*** EQUIPEMENT: Mixer ,\

TOTAL QUANTITY OF WORK ITEM: _ 1 m^3 RESULT:

_____Data collected by _____Prepared checked by _____Approved by

Material Cost (1:01)					Labour (1:02)				
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labour byTrade	No.	UF	** Indexed Hourly Cost	Hourly Cost
Cement	Qnt.	3.65		0.00	Foreman	1	1/2	23.75	11.88
Sand	m3	0.44	448.96	197.54	Plasterer	2	1.00	15.38	30.75
Gravel (02)	m^3	0.81	470.68	381.25	D/L	5	1	7.50	37.50
Water	m^3	0.24	3.45	0.83	Equi.Operator.	2	1.00	75.00	150.00
					Bar bender	1	1	14.00	14.00
					Carpentary	1	1	16.75	16.75
					Vibrator oper.	2	1	8.75	17.5
Total (1:-01)				579.62	**Total (1:02)**				278.38

A= Materials Unit Cost **579.6** Birr/m^2 B=Manpower Unit Cost **56.38** Br./m^2

Total of (1:02)

Hourly Output

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

Overhead Cost: 8%

Profit Cost: 7%

Total Unit Cost :

Remark _____

UF: UTILIZATION FACTOR

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

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

ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT: ***CONCRETE WORK*** From 1th - 3th floor LABOUR HOURLY OUTP

WORK ITEM:(2.8.3) *C-25 Concrete Suspended slab < 15cm thick* EQUIPEMENT: Mixer ,\

TOTAL QUANTITY OF WORK ITEM: _ 1 m^3 0.1 cm RESULT:

_____Data collected by _____Prepared checked by _____Approved by

Material Cost (1:01)					Labour (1:02)				
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labour byTrade	No.	UF	** Indexed Hourly Cost	Hourly Cost
Cement	Qnt.	3.65		0.00	Foreman	1	1/2	23.75	11.88
Sand	m3	0.44	448.96	197.54	Plasterer	2	1.00	15.38	30.75
Gravel (02)	m^3	0.81	470.68	381.25	D/L	5	1	7.50	37.50
Water	m^3	0.24	3.45	0.83	Equi.Operator.	2	1.00	75.00	150.00
					Bar bender	1	1	14.00	14.00
					Carpentary	1	1	16.75	16.75
					Vibrator oper.	2	1	8.75	17.5
Total (1:-01)				579.62	**Total (1:02)**				278.38

A= Materials Unit Cost **579.62** Birr/m^3 B=Manpower Unit Cost **39.07** Br./m^3

Total of (1:02)

Hourly Output

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

Overhead Cost: 8%

Profit Cost: 7%

Total Unit Cost :

Remark _____

UF: UTILIZATION FACTOR

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

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

ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT: ***CONCRETE WORK*** From 1th - 3th floor LABOUR HOURLY OUTP

WORK ITEM:(2.8.3) ***C-25 Concrete Suspended slab 15cm - 25.5cm thick*** EQUIPEMENT: Mixer ,\

TOTAL QUANTITY OF WORK ITEM: _ 1 m^3 0.2 cm RESULT:

_____Data collected by _____Prepared checked by _____Approved by

Material Cost (1:01)					Labour (1:02)				
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labour byTrade	No.	UF	** Indexed Hourly Cost	Hourly Cost
Cement	Qnt.	3.65		0.00	Foreman	1	1/2	23.75	11.88
Sand	m3	0.44	448.96	197.54	Plasterer	2	1.00	15.38	30.75
Gravel (02)	m^3	0.81	470.68	381.25	D/L	5	1	7.50	37.50
Water	m^3	0.24	3.45	0.83	Equi.Operator.	2	1.00	75.00	150.00
					Bar bender	1	1	14.00	14.00
					Carpentary	1	1	16.75	16.75
					Vibrator oper.	2	1	8.75	17.5
Total (1:-01)				579.62	**Total (1:02)**				278.38

A= Materials Unit Cost **579.62** Birr/m^3 B=Manpower Unit Cost **34.26** Br./m^3

Total of (1:02)

Hourly Output

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

Overhead Cost: 8%

Profit Cost: 7%

Total Unit Cost :

Remark _____

UF: UTILIZATION FACTOR

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

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

ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT: ***CONCRETE WORK*** From 1th - 3th floor LABOUR HOURLY OUTP

WORK ITEM:(2.8.3) ***C-25 Concrete Suspended slab Over 25.5cm thick*** EQUIPEMENT: Mixer ,\

TOTAL QUANTITY OF WORK ITEM: _ 1 m^3 0.26 cm RESULT:

_____Data collected by _____Prepared checked by _____Approved by

Material Cost (1:01)					Labour (1:02)				
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labour byTrade	No.	UF	** Indexed Hourly Cost	Hourly Cost
Cement	Qnt.	3.65		0.00	Foreman	1	1/2	23.75	11.88
Sand	m3	0.44	448.96	197.54	Plasterer	2	1.00	15.38	30.75
Gravel (02)	m^3	0.81	470.68	381.25	D/L	5	1	7.50	37.50
Water	m^3	0.24	3.45	0.83	Equi.Operator.	2	1.00	75.00	150.00
					Bar bender	1	1	14.00	14.00
					Carpentary	1	1	16.75	16.75
					Vibrator oper.	2	1	8.75	17.5
Total (1:-01)				579.62	**Total (1:02)**				278.38

A= Materials Unit Cost **579.62** Birr/m^3 B=Manpower Unit Cost **28.19** Br./m^3

Total of (1:02)

Hourly Output

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

Overhead Cost: 8%

Profit Cost: 7%

Total Unit Cost :

Remark _____

UF: UTILIZATION FACTOR

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

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

ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT: ***CONCRETE WORK*** From 1th - 3th floor LABOUR HOURLY OUTP

WORK ITEM:(2.8.4) ***C-25 Concrete wall /20cm thick/*** EQUIPEMENT: Mixer ,\

TOTAL QUANTITY OF WORK ITEM: _ 1 m^3 RESULT:

_____Data collected by _____Prepared checked by _____Approved by

Material Cost (1:01)					Labour (1:02)				
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labour byTrade	No.	UF	** Indexed Hourly Cost	Hourly Cost
Cement	Qnt.	3.65		0.00	Foreman	1	1/2	23.75	11.88
Sand	m3	0.44	448.96	197.54	Plasterer	2	1.00	15.38	30.75
Gravel (02)	m^3	0.81	470.68	381.25	D/L	5	1	7.50	37.50
Water	m^3	0.24	3.45	0.83	Equi.Operator.	2	1.00	75.00	150.00
					Bar bender	1	1	14.00	14.00
					Carpentary	1	1	16.75	16.75
					Vibrator oper.	2	1	8.75	17.5
Total (1:-01)				579.62	**Total (1:02)**				278.38

A= Materials Unit Cost **579.6** Birr/m^2 B=Manpower Unit Cost **41.2** Br./m^2

Total of (1:02)

Hourly Output

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

Overhead Cost: 8%

Profit Cost: 7%

Total Unit Cost :

Remark _____

UF: UTILIZATION FACTOR

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

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

ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT: ***CONCRETE WORK*** From 1th - 3th floor LABOUR HOURLY OUTP

WORK ITEM:(2.8.5) ***C -25 Concrete stair case*** EQUIPEMENT: Mixer ,\

TOTAL QUANTITY OF WORK ITEM: _ 1 m^3 RESULT:

_____Data collected by _____Prepared checked by _____Approved by

Material Cost (1:01)					Labour (1:02)				
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labour byTrade	No.	UF	** Indexed Hourly Cost	Hourly Cost
Cement	Qnt.	3.65		0.00	Foreman	1	1/2	23.75	11.88
Sand	m3	0.44	448.96	197.54	Plasterer	2	1.00	15.38	30.75
Gravel (02)	m^3	0.81	470.68	381.25	D/L	5	1	7.50	37.50
Water	m^3	0.24	3.45	0.83	Equi.Operator.	2	1.00	75.00	150.00
					Bar bender	1	1	14.00	14.00
					Carpentary	1	1	16.75	16.75
					Vibrator oper.	2	1	8.75	17.5
Total (1:-01)				579.6	**Total (1:02)**				278.38

A= Materials Unit Cost **579.6** Birr/m^2 B=Manpower Unit Cost **37.12** Br./m^2

Total of (1:02)

Hourly Output

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

Overhead Cost: 8%

Profit Cost: 7%

Total Unit Cost :

Remark _____

UF: UTILIZATION FACTOR

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

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

ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT: ***CONCRETE WORK*** From 1th - 3th floor LABOUR HOURLY OUTP

WORK ITEM: (2.8.1) ***C-30 Concrete elevation column up to 30cm thick*** EQUIPEMENT: Mixer &

TOTAL QUANTITY OF WORK ITEM: _ 1 m^3 RESULT:

_____Data collected by _____Prepared checked by _____Approved by

Material Cost (1:01)					Labour (1:02)				
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labour byTrade	No.	UF	** Indexed Hourly Cost	Hourly Cost
Cement	Qnt.	4.00		0.00	Foreman	1	1/2	23.75	11.88
Sand	m3	0.42	448.96	188.56	Plasterer	2	1.00	15.38	30.75
Gravel (02)	m^3	0.79	470.68	371.84	D/L	5	1	7.50	37.50
Water	m^3	0.26	3.45	0.90	Equi.Operator.	2	1.00	75.00	150.00
					Bar bender	1	1	14.00	14.00
					Carpentary	1	1	16.75	16.75
					Vibrator oper.	2	1	8.75	17.5
Total (1:-01)				561.30	**Total (1:02)**				278.38

A= Materials Unit Cost **561.3** Birr/m^2 B=Manpower Unit Cost **87.3** Br./m^2

Total of (1:02)

Hourly Output

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

Overhead Cost: 8%

Profit Cost: 7%

Total Unit Cost :

Remark _____

UF: UTILIZATION FACTOR

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

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

ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT: ***CONCRETE WORK*** From 1th - 3th floor LABOUR HOURLY OUTP

WORK ITEM: (2.8.1) ***C-30 Concrete elevation column 30cm to 45cm thick*** EQUIPEMENT: Mixer &

TOTAL QUANTITY OF WORK ITEM: _ 1 m^3 RESULT:

_____Data collected by _____Prepared checked by _____Approved by

Material Cost (1:01)					Labour (1:02)				
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labour byTrade	No.	UF	** Indexed Hourly Cost	Hourly Cost
Cement	Qnt.	4.00		0.00	Foreman	1	1/2	23.75	11.88
Sand	m3	0.42	448.96	188.56	Plasterer	2	1.00	15.38	30.75
Gravel (02)	m^3	0.79	470.68	371.84	D/L	5	1	7.50	37.50
Water	m^3	0.26	3.45	0.90	Equi.Operator.	2	1.00	75.00	150.00
					Bar bender	1	1	14.00	14.00
					Carpentary	1	1	16.75	16.75
					Vibrator oper.	2	1	8.75	17.5
Total (1:-01)				561.30	**Total (1:02)**				278.38

A= Materials Unit Cost **561.3** Birr/m^2 B=Manpower Unit Cost **63.6** Br./m^2

Total of (1:02)

Hourly Output

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

Overhead Cost: 8%

Profit Cost: 7%

Total Unit Cost :

Remark _____

UF: UTILIZATION FACTOR

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

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

ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT: ***CONCRETE WORK*** From 1th - 3th floor LABOUR HOURLY OUTP

WORK ITEM: (2.8.2) ***C-30 Small Elevated Concrete beam < 0.09m²*** EQUIPEMENT: Mixer ,\

TOTAL QUANTITY OF WORK ITEM: _ 1 m^3 RESULT:

_____Data collected by _____Prepared checked by _____Approved by

Material Cost (1:01)					Labour (1:02)				
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labour byTrade	No.	UF	** Indexed Hourly Cost	Hourly Cost
Cement	Qnt.	4.00		0.00	Foreman	1	1/2	23.75	11.88
Sand	m3	0.42	448.96	188.56	Plasterer	2	1.00	15.38	30.75
Gravel (02)	m^3	0.79	470.68	371.84	D/L	5	1	7.50	37.50
Water	m^3	0.26	3.45	0.90	Equi.Operator.	2	1.00	75.00	150.00
					Bar bender	1	1	14.00	14.00
					Carpentary	1	1	16.75	16.75
					Vibrator oper.	2	1	8.75	17.5
Total (1:-01)				561.30	**Total (1:02)**				278.38

A= Materials Unit Cost **561.3** Birr/m^2 B=Manpower Unit Cost **82.48** Br./m^2

Total of (1:02)

Hourly Output

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

Overhead Cost: 8%

Profit Cost: 7%

Total Unit Cost :

Remark _____

UF: UTILIZATION FACTOR

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

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

ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT: ***CONCRETE WORK*** From 1th - 3th floor LABOUR HOURLY OUTP

WORK ITEM: (2.8.2) ***C-30 Large Elevated Concrete beam > 0.25m²*** EQUIPEMENT: Mixer ,\

TOTAL QUANTITY OF WORK ITEM: _ 1 m^3 RESULT:

_____Data collected by _____Prepared checked by _____Approved by

Material Cost (1:01)					Labour (1:02)				
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labour byTrade	No.	UF	** Indexed Hourly Cost	Hourly Cost
Cement	Qnt.	4.00		0.00	Foreman	1	1/2	23.75	11.88
Sand	m3	0.42	448.96	188.56	Plasterer	2	1.00	15.38	30.75
Gravel (02)	m^3	0.79	470.68	371.84	D/L	5	1	7.50	37.50
Water	m^3	0.26	3.45	0.90	Equi.Operator.	2	1.00	75.00	150.00
					Bar bender	1	1	14.00	14.00
					Carpentary	1	1	16.75	16.75
					Vibrator oper.	2	1	8.75	17.5
Total (1:-01)				561.30	**Total (1:02)**				278.38

A= Materials Unit Cost **561.3** Birr/m^2 B=Manpower Unit Cost **56.38** Br./m^2

Total of (1:02)

Hourly Output

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

Overhead Cost: 8%

Profit Cost: 7%

Total Unit Cost :

Remark _____

UF: UTILIZATION FACTOR

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

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

ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT: ***CONCRETE WORK*** From 1th - 3th floor LABOUR HOURLY OUTP

WORK ITEM:(2.8.3) ***C-30 Concrete Suspended slab < 15cm thick*** EQUIPEMENT: Mixer ,\

TOTAL QUANTITY OF WORK ITEM: _ 1 m^3 0.1 cm RESULT:

_____Data collected by _____Prepared checked by _____Approved by

Material Cost (1:01)					Labour (1:02)				
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labour byTrade	No.	UF	** Indexed Hourly Cost	Hourly Cost
Cement	Qnt.	4.00		0.00	Foreman	1	1/2	23.75	11.88
Sand	m3	0.42	448.96	188.56	Plasterer	2	1.00	15.38	30.75
Gravel (02)	m^3	0.79	470.68	371.84	D/L	5	1	7.50	37.50
Water	m^3	0.26	3.45	0.90	Equi.Operator.	2	1.00	75.00	150.00
					Bar bender	1	1	14.00	14.00
					Carpentary	1	1	16.75	16.75
					Vibrator oper.	2	1	8.75	17.5
Total (1:-01)				561.30	**Total (1:02)**				278.38

A= Materials Unit Cost **561.30** Birr/m^3 B=Manpower Unit Cost **39.07** Br./m^3

Total of (1:02)

Hourly Output

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

Overhead Cost: 8%

Profit Cost: 7%

Total Unit Cost :

Remark _____

UF: UTILIZATION FACTOR

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

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

ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT: ***CONCRETE WORK*** From 1th - 3th floor LABOUR HOURLY OUTP

WORK ITEM:(2.8.3) ***C-30 Concrete Suspended slab 15cm - 25.5cm thick*** EQUIPEMENT: Mixer ,\

TOTAL QUANTITY OF WORK ITEM: _ 1 m^3 0.2 cm RESULT:

_____Data collected by _____Prepared checked by _____Approved by

Material Cost (1:01)					Labour (1:02)				
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labour byTrade	No.	UF	** Indexed Hourly Cost	Hourly Cost
Cement	Qnt.	4.00		0.00	Foreman	1	1/2	23.75	11.88
Sand	m3	0.42	448.96	188.56	Plasterer	2	1.00	15.38	30.75
Gravel (02)	m^3	0.79	470.68	371.84	D/L	5	1	7.50	37.50
Water	m^3	0.26	3.45	0.90	Equi.Operator.	2	1.00	75.00	150.00
					Bar bender	1	1	14.00	14.00
					Carpentary	1	1	16.75	16.75
					Vibrator oper.	2	1	8.75	17.5
Total (1:-01)				561.30	**Total (1:02)**				278.38

A= Materials Unit Cost **561.30** Birr/m^3 B=Manpower Unit Cost **34.26** Br./m^3

Total of (1:02)

Hourly Output

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

Overhead Cost: 8%

Profit Cost: 7%

Total Unit Cost :

Remark _____

UF: UTILIZATION FACTOR

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

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

ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT: ***CONCRETE WORK*** From 1th - 3th floor LABOUR HOURLY OUTP

WORK ITEM:(2.8.3) ***C-30 Concrete Suspended slab Over 25.5cm thick*** EQUIPEMENT: Mixer ,\

TOTAL QUANTITY OF WORK ITEM: _ 1 m^3 0.26 cm RESULT:

_____Data collected by _____Prepared checked by _____Approved by

Material Cost (1:01)					Labour (1:02)				
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labour byTrade	No.	UF	** Indexed Hourly Cost	Hourly Cost
Cement	Qnt.	4.00		0.00	Foreman	1	1/2	23.75	11.88
Sand	m3	0.42	448.96	188.56	Plasterer	2	1.00	15.38	30.75
Gravel (02)	m^3	0.79	470.68	371.84	D/L	5	1	7.50	37.50
Water	m^3	0.26	3.45	0.90	Equi.Operator.	4	1.00	75.00	300.00
					Bar bender	1	1	14.00	14.00
					Carpentary	1	1	16.75	16.75
					Vibrator oper.	2	1	8.75	17.5
Total (1:-01)				561.30	**Total (1:02)**				428.38

A= Materials Unit Cost **561.30** Birr/m^3 B=Manpower Unit Cost **43.38** Br./m^3

Total of (1:02)

Hourly Output

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

Overhead Cost: 8%

Profit Cost: 7%

Total Unit Cost :

Remark _____

UF: UTILIZATION FACTOR

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

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

ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT: ***CONCRETE WORK*** From 1th - 3th floor LABOUR HOURLY OUTP

WORK ITEM:(2.8.4) ***C-30 Concrete wall /20cm thick/*** EQUIPEMENT: Mixer ,\

TOTAL QUANTITY OF WORK ITEM: _ 1 m^3 RESULT:

_____Data collected by _____Prepared checked by _____Approved by

Material Cost (1:01)					Labour (1:02)				
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labour byTrade	No.	UF	** Indexed Hourly Cost	Hourly Cost
Cement	Qnt.	4.00		0.00	Foreman	1	1/2	23.75	11.88
Sand	m3	0.42	448.96	188.56	Plasterer	2	1.00	15.38	30.75
Gravel (02)	m^3	0.79	470.68	371.84	D/L	5	1	7.50	37.50
Water	m^3	0.26	3.45	0.90	Equi.Operator.	2	1.00	75.00	150.00
					Bar bender	1	1	14.00	14.00
					Carpentary	1	1	16.75	16.75
					Vibrator oper.	2	1	8.75	17.5
Total (1:-01)				561.30	**Total (1:02)**				278.38

A= Materials Unit Cost **561.3** Birr/m^2 B=Manpower Unit Cost **41.2** Br./m^2

Total of (1:02)

Hourly Output

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

Overhead Cost: 8%

Profit Cost: 7%

Total Unit Cost :

Remark _____

UF: UTILIZATION FACTOR

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

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

ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT: ***CONCRETE WORK*** From 1th - 3th floor LABOUR HOURLY OUTP

WORK ITEM:(2.8.5) ***C -30 Concrete stair case*** EQUIPEMENT: Mixer ,\

TOTAL QUANTITY OF WORK ITEM: _ 1 m^3 RESULT:

_____Data collected by _____Prepared checked by _____Approved by

Material Cost (1:01)					Labour (1:02)				
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labour byTrade	No.	UF	** Indexed Hourly Cost	Hourly Cost
Cement	Qnt.	4.00		0.00	Foreman	1	1/2	23.75	11.88
Sand	m3	0.42	448.96	188.56	Plasterer	2	1.00	15.38	30.75
Gravel (02)	m^3	0.79	470.68	371.84	D/L	5	1	7.50	37.50
Water	m^3	0.26	3.45	0.90	Equi.Operator.	2	1.00	75.00	150.00
					Bar bender	1	1	14.00	14.00
					Carpentary	1	1	16.75	16.75
					Vibrator oper.	2	1	8.75	17.5
Total (1:-01)				561.3	**Total (1:02)**				278.38

A= Materials Unit Cost **561.3** Birr/m^2 B=Manpower Unit Cost **37.12** Br./m^2

Total of (1:02)

Hourly Output

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

Overhead Cost: 8%

Profit Cost: 7%

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.

Super structure

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: **FORM WORKS** From 1th - 3th floor LABOUR HOURLY OUTP

WORK ITEM: _ (4.6) ***Zigba form work for elevation column*** EQUIPMENT DAILY OUT

_____Data collected by _____Prepared checked by _____Approved by

TOTAL QUANTITY OF WORK ITEM: 1 m^2 RESULT:

Material Cost (1:01)					Labor Cost (1:02)				
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	** Indexed Hourly Cost	Daily wage
Eucalyptus wood 8cm diameter	M	12	5.63	67.50	Foreman	1	0.25	23.75	5.94
form work 2.5cm local wood	m^3	0.027	2100.00	56.70	Carpenter I	1	1	8.50	8.50
Eucalyptus wood 4cm diameter	m	3	2.50	7.50	Helper	2	1	10.00	20.00
Eucalyptus wood 6cm diameter	m	12	3.75	45.00					
nails of different size	kg	0.3	33.96	10.19					
mould oil	lit	0.06	15.00	0.90					
Total (1:01)				187.79	**Total (1:02)**				34.44

A= Materials Unit Cost 187.79 Birr/m^2 **B= Manpower Unit Cost** 61.22 Birr/m^2 **C=Equi**

Total of (1:02)

Daily output:

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

Over head cost : 8%

Profit Cost: 7%

Total:

Remark _____

UF: UTILIZATION FACTOR **Total unit cost:**

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

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

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: **FORM WORKS** From 1th - 3th floor LABOUR HOURLY OUTP

WORK ITEM: _ (4.7) ***Zigba form work for beams and lintels*** EQUIPMENT DAILY OUT

TOTAL QUANTITY OF WORK ITEM: 1 m^2 RESULT:

_____Data collected by _____Prepared checked by _____Approved by

Material Cost (1:01)					Labor Cost (1:02)				
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	** Indexed Hourly Cost	Daily wage
Eucalyptus wood 8cm diameter	M	16	5.63	90.00	Foreman	1	0.25	23.75	5.94
form work 2.5cm local wood	m^3	0.027	2100.00	56.70	Carpenter I	1	1	8.50	8.50
Eucalyptus wood 4cm diameter	m	6	2.50	15.00	Helper	2	1	10.00	20.00
Eucalyptus wood 6cm diameter	m	12	3.75	45.00					
nails of different size	kg	0.3	33.96	10.19					
mould oil	lit	0.06	15.00	0.90					
				0.00					
Total (1:01)				217.79	**Total (1:02)**				34.44

A= Materials Unit Cost 217.79 Birr/m^2 **B= Manpower Unit Cost** 64.07 Birr/m^2 **C=Equi**

Total of (1:02)

Daily output:

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

Over head cost : 8%

Profit Cost: 7%

Total:

Remark _____

UF: UTILIZATION FACTOR **Total unit cost:**

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

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

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: **FORM WORKS** From 1th - 3th floor LABOUR HC

WORK ITEM:(4.8) ***Slab*** EQUIPMEN

TOTAL QUANTITY OF WORK ITEM: 1 m^2 RESULT:

Material Cost (1:01)	Labor Cost (1:02)

_____Data collected by _____Prepared checked by _____Approved by

Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	** Indexed Hourly Cost	Daily wage
Eucalyptus wood 8cm diameter	M	14	5.63	78.75	Foreman	1	0.25	23.75	5.94
form work 2.5cm local wood	m^3	0.027	2100.00	56.70	Carpenter I	1	1	8.50	8.50
Eucalyptus wood 6cm diameter	m	12	3.75	45.00	Helper	2	1	10.00	20.00
nails of different size	kg	0.4	33.96	13.58					
mould oil	lit	0.06	33.96	2.04					
Eucalyptus wood 4cm diameter	m	12	2.50						
Total (1:01)				196.07	**Total (1:02)**				34.44

A= Materials Unit Cost 196.07 Birr/m^2 **B= Manpower Unit Cost** 61.22 Birr/m^2 **C=Equi**

Total of (1:02)

Daily output:

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

Over head cost : 8%

Profit Cost: 7%

Total:

Remark _____

Total unit cost:

UF: UTILIZATION FACTOR

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ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: **FORM WORKS** From 1th - 3th floor LABOUR HC

WORK ITEM: _ (4.9) ***Zigba form work for Concrete walls,Lift shalf,Stair case & Landing*** EQUIPMENT

TOTAL QUANTITY OF WORK ITEM: 1 m^2 RESULT:

Material Cost (1:01)	**Labor Cost (1:02)**

_____Data collected by _____Prepared checked by _____Approved by

Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	** Indexed Hourly Cost	Daily wage
Eucalyptus wood 8cm diameter	M	20	5.63	112.50	Foreman	1	0.25	23.75	5.94
form work 2.5cm local wood	m^3	0.027	2100.00	56.70	Carpenter II	1	1	8.50	8.50
Eucalyptus wood 6cm diameter	m	6	3.75	22.50	Helper	2	1	10.00	20.00
nails of different size	kg	0.4	33.96	1.50					
mould oil	lit	0.06		2.04					
				0					
Total (1:01)				195.24	**Total (1:02)**				34.44

A= Materials Unit Cost 195.24 Birr/m^2 **B= Manpower Unit Cost** 67.20 Birr/m^2 **C=Equi**

Total of (1:02)

Daily output:

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

Over head cost : 8%

Profit Cost: 7%

Total:

Remark _____

UF: UTILIZATION FACTOR **Total unit cost:**

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

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

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: **FORM WORKS** From 1th - 3th floor LABOUR HC

WORK ITEM: _ (4.9) ***Zigba form work for Canopy*** EQUIPMENT

TOTAL QUANTITY OF WORK ITEM: 1 m^2 RESULT:

Material Cost (1:01)	**Labor Cost (1:02)**

_____Data collected by _____Prepared checked by _____Approved by

Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	** Indexed Hourly Cost	Daily wage
Eucalyptus wood 8cm diameter	M	20	5.63	112.50	Foreman	1	0.25	23.75	5.94
form work 2.5cm local wood	m^3	0.027	2100.00	56.70	Carpenter II	1	1	8.50	8.50
Eucalyptus wood 6cm diameter	m	6	3.75	22.50	Helper	2	1	10.00	20.00
nails of different size	kg	0.4	33.96	13.58					
mould oil	lit	0.06	15.00	0.90					
				0					
Total (1:01)				206.18	**Total (1:02)**				34.44

A= Materials Unit Cost 206.18 Birr/m^2 **B= Manpower Unit Cost** 61.22 Birr/m^2 **C=Equi**

Total of (1:02)

Daily output:

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

Over head cost : 8%

Profit Cost: 7%

Total:

Remark _____

Total unit cost:

UF: UTILIZATION FACTOR

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Super structure

ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT : REINFORCEMENT BARS From 1th - 3th floor LABOUR HOURLY OUTP

WORK ITEM: (3.10) ***dia. 6 mm. plain bars*** EQUIPEMENT:

TOTAL QANTITY OF WORK ITEM: _ 1 kg. RESULT:

Material Cost (1:01)	Labour (1:02)

_____Data collected by _____Prepared checked by _____Approved by

Type of Material	Unit	Qty *	Rate	Cost per Unit	Labour by Grade	No.	UF	** Indexed Hourly Cost	Hourly Cost
0 6 mm plain bars	kg	1.02		0.00	Foreman	1	0.25	23.75	5.94
1.5 mm black anneald wire	kg	0.02		0.00	Bar bender I	1	1	7.25	7.25
					Bar bender II	1	1	14.00	14.00
					Helper	1	1	10.00	10.00
					D/L	2	1	6.38	12.75
Total (1:-01)				0.00	**Total (1:02)**				49.94

A= Materials Unit Cost _____ 0.00 birr/kg

B= Manpower Unit Cost 2.28 Birr/kg.

Total of (1:02)

hourly output: 7.08/9=0.79

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

Over head cost : 8%

Profit Cost: 7%

Total Unit Cost :

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 : REINFORCEMENT BARS From 1th - 3th floor LABOUR HOURLY OUTP

WORK ITEM: (3.11) ***dia. 8 mm. & 10mm. Deformed bars bars*** EQUIPEMENT:

TOTAL QANTITY OF WORK ITEM: _ 1 kg. RESULT:

Material Cost (1:01)	Labour (1:02)

_____Data collected by _____Prepared checked by _____Approved by

Type of Material	Unit	Qty *	Rate	Cost per Unit	Labour by Grade	No.	UF	** Indexed Hourly Cost	Hourly Cost
0 8 - 0 10 mm plain bars	kg	1.02	21.00	21.42	Foreman	1	0.25	23.75	5.94
1.5 mm black anneald wire	"	0.02	32.00	0.64	Bar bender I	1	1	7.25	7.25
					Bar bender II	1	1	14.00	14.00
					Helper	1	1	10.00	10.00
					D/L	2	1	6.38	12.75
Total (1:-01)				22.06	**Total (1:02)**				49.94

A= Materials Unit Cost _____ **22.06** birr/kg

B= Manpower Unit Cost **2.00** Birr/kg.

Total of (1:02)

hourly output:

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

Over head cost : 8%

Profit Cost: 7%

Total Unit Cost :

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 : REINFORCEMENT BARS From 1th - 3th floor LABOUR HOURLY OUTP

WORK ITEM: (3.13) ***dia. 12mm.- 16 mm. deformed bars*** EQUIPEMENT:

TOTAL QANTITY OF WORK ITEM: _ 1 kg RESULT:

Material Cost (1:01)	Labour (1:02)

_____Data collected by _____Prepared checked by _____Approved by

Type of Material	Unit	Qty *	Rate	Cost per Unit	Labour by Grade	No.	UF	** Indexed Hourly Cost	Hourly Cost
0 12- 0 16 mm deformed bars	kg	1.02	21.00	21.42	Foreman	1	0.25	23.75	5.94
1.5 mm black Annealed wire	"	0.02	32.00	0.64	Bar bender I	1	1	7.25	7.25
					Bar bender II	1	1	14.00	14.00
					Helper	1	1	10.00	10.00
					D/L	2	1	6.38	12.75
Total (1:-01)				22.06	**Total (1:02)**				49.9375

A= Materials Unit Cost __ **22.06** Birr/kg.

B= Manpower Unit Cost **1.51** Birr/kg.

Total of (1:02)

Hourly Output: _____

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

Over head cost : 8%

Profit Cost: 7%

Total Unit Cost :

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 : REINFORCEMENT BARS From 1th - 3th floor LABOUR HOURLY OUTP

WORK ITEM: (3.16) ***dia. 20mm-24 mm. deformed bars*** EQUIPEMENT:

TOTAL QANTITY OF WORK ITEM: _ 1 kg RESULT:

_____Data collected by _____Prepared checked by _____Approved by

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
0 20- 0 24 mm deformed bars	kg	1.02	21.00	21.42	Foreman	1	0.25	23.75	5.94
1.5 mm black Annealed wire	"	0.02	32.00	0.64	Bar bender I	1	1	7.25	7.25
					Bar bender II	1	1	14.00	14.00
					Helper	1	1	10.00	10.00
					D/L	2	1	6.38	12.75
Total (1:-01)				22.06	**Total (1:02)**				49.9375

A= Materials Unit Cost __ **22.06** Birr/kg.

B= Manpower Unit Cost **1.40** Birr/kg.

Total of (1:02)

Hourly Output: _____

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

Over head cost : 8%

Profit Cost: 7%

Total Unit Cost :

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 : **REINFORCEMENT BARS** From 1th - 3th floor LABOUR HOURLY OUTP

_____Data collected by _____Prepared checked by _____Approved by

WORK ITEM: (3.18) ***dia. 28mm - 32 mm. deformed bars*** EQUIPEMENT:

TOTAL QANTITY OF WORK ITEM: _ 1 kg RESULT:

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
0 28- 0 23 mm deformed bars	kg	1.02	21.00	21.42	Foreman	1	0.25	23.75	5.94
1.5 mm black Annealed wire	"	0.02	32.00	0.64	Bar bender I	1	1	7.25	7.25
					Bar bender II	1	1	14.00	14.00
					Helper	1	1	10.00	10.00
					D/L	2	1	6.38	12.75
Total (1:-01)				22.06	**Total (1:02)**				49.9375

A= Materials Unit Cost __ **22.06** Birr/kg.

B= Manpower Unit Cost **1.35** Birr/kg.

Total of (1:02)

Hourly Output: _____

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

Over head cost : 8%

Profit Cost: 7%

Total Unit Cost :

Remark _____

UF: UTILIZATION FACTOR

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

_____Data collected by _____Prepared checked by _____Approved by

ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT: ***CONCRETE WORK*** From 4th - 7th floor LABOUR HO

WORK ITEM:(2.7.1) ***C-20 Concrete elevation column up to 30cm thick*** EQUIPEMEN

TOTAL QUANTITY OF WORK ITEM: 1 m^3 RESULT:

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
Cement	Qnt.	3.2	244.36	781.95	Foreman	1	0.25	23.75	5.94
Sand	m3	0.45	448.96	202.03	Plasterer II	2	1	15.38	30.75
Gravel (02)	m^3	0.83	470.68	390.66	D/L II	5	1	7.50	37.50
Water	m^3	0.21	3.45	0.72	Equi. Operator I	2	1	75.00	150.00
					Bar bender	1	1	14.00	14.00
					Carpentary	1	1	16.75	16.75
					Vibrator oper.	2	1	8.75	17.5
Total (1:-01)				1375.37	**Total (1:02)**				272.44

A= Materials Unit Cost **1375.37** Birr/m^3 B=Manpower Unit Cost **92.74** Br./m^3

Total of (1:02)

Hourly Output 2.9375

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

Overhead Cost: 603.45 8%

Profit Cost: 7%

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.

_____Data collected by _____Prepared checked by _____Approved by

ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT: ***CONCRETE WORK*** From 4th - 7th floor LABOUR HO

WORK ITEM:(2.7.1) ***C-20 Concrete elevation column 30cm - 45cm thick*** EQUIPEMEN

TOTAL QUANTITY OF WORK ITEM: 1 m^3 RESULT:

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
Cement	Qnt.	3.2	244.36	781.95	Foreman	1	0.25	23.75	5.94
Sand	m3	0.45	448.96	202.03	Plasterer II	2	1	15.38	30.75
Gravel (02)	m^3	0.83	470.68	390.66	D/L II	5	1	7.50	37.50
Water	m^3	0.21	3.45	0.72	Equi. Operator	2	1	75.00	150.00
					Bar bender	1	1	14.00	14.00
					Carpentary	1	1	16.75	16.75
					Vibrator oper.	2	1	8.75	17.5
Total (1:-01)				1375.37	**Total (1:02)**				272.44

A= Materials Unit Cost **1375.37** Birr/m^3 B=Manpower Unit Cost **66.05** Br./m^3

Total of (1:02)

Hourly Output 4.125

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

Overhead Cost: 429.73 8%

Profit Cost: 7%

Total Unit Cost :

Remark _____

UF: UTILIZATION FACTOR

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

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

ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

_____Data collected by _____Prepared checked by _____Approved by

PROJECT: ***CONCRETE WORK*** From 4th - 7th floor LABOUR H(

WORK ITEM: (2.7.2) ***C-20 Small Elevated Concrete beam < 0.09m²*** EQUIPEMEN

TOTAL QUANTITY OF WORK ITEM: 1 m^3 RESULT:

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
Cement	Qnt.	3.2	244.36	781.95	Foreman	1	0.25	23.75	5.94
Sand	m3	0.45	448.96	202.03	Plasterer	2	1	15.38	30.75
Gravel (02)	m^3	0.83	470.68	390.66	D/L	5	1	7.50	37.50
Water	m^3	0.213	3.45	0.73	Equi. Operator	2	1	75.00	150.00
				0.00	Bar bender	1	1	14.00	14.00
				0.00	Carpentary	1	1	16.75	16.75
				0.00	Vibrator oper.	2	1	8.75	17.5
Total (1:-01)				1375.38	**Total (1:02)**				272.44

A= Materials Unit Cost **1375** Birr/m^3 B=Manpower Unit Cost **87.18** Br./m^3

Total of (1:02)

Hourly Output 3.125

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

Overhead Cost: 567.24 8%

Profit Cost: 7%

Total Unit Cost :

Remark _____

UF: UTILIZATION FACTOR

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

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

ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT: ***CONCRETE WORK*** From 4th - 7th floor LABOUR H(

_____Data collected by _____Prepared checked by _____Approved by

WORK ITEM: (2.7.2) ***C-20 Large elevated Concrete beam > 0.25m²*** EQUIPEMEN

TOTAL QUANTITY OF WORK ITEM: 1 m^3 RESULT:

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
Cement	Qnt.	3.2	244.36	781.95	Foreman	1	0.25	23.75	5.94
Sand	m3	0.45	448.96	202.03	Plasterer	2	1	15.38	30.75
Gravel (02)	m^3	0.83	470.68	390.66	D/L	5	1	7.50	37.50
Water	m^3	0.213	3.45	0.73	Equi. Operator	2	1	75.00	150.00
				0.00	Bar bender	1	1	14.00	14.00
				0.00	Carpentary	1	1	16.75	16.75
				0.00	Vibrator oper.	2	1	8.75	17.5
Total (1:-01)				1375.38	**Total (1:02)**				272.44

A= Materials Unit Cost **1375** Birr/m^3 B=Manpower Unit Cost **58.12** Br./m^3

Total of (1:02)

Hourly Output 4.6875

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

Overhead Cost: 378.16 8%

Profit Cost: 7%

Total Unit Cost :

Remark _____

UF: UTILIZATION FACTOR

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

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

ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT: ***CONCRETE WORK*** From 4th - 7th floor LABOUR HO

WORK ITEM: (2.7.3) ***C-20 Concrete Suspended slab < 15cm thick*** EQUIPEMEN

_____Data collected by _____Prepared checked by _____Approved by

TOTAL QUANTITY OF WORK ITEM: 1 m^3 0.1 cm RESULT:

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
Cement	Qnt.	3.2	244.36	781.95	Foreman	1	0.5	23.75	11.88
Sand	m3	0.45	448.96	202.03	Plasterer	2	1	15.38	30.75
Gravel (02)	m^3	0.83	470.68	390.66	D/L	5	1	7.50	37.50
Water	m^3	0.21	3.45	0.72	Equi.Operator.	2	1	75.00	150.00
					Bar bender	1	1	14.00	14.00
					Carpentary	1	1	16.75	16.75
					Vibrator oper.	2	1	8.75	17.5
Total (1:-01)				1375.37	**Total (1:02)**				278.38

A= Materials Unit Cost **1375.37** Birr/m^2 B=Manpower Unit Cost **40.49** Br./m^2

Total of (1:02) 278.38

Hourly Output 6.875

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

Overhead Cost: 258.70 8%

Profit Cost: 7%

Total Unit Cost :

Remark _____

UF: UTILIZATION FACTOR

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ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT: ***CONCRETE WORK*** From 4th - 7th floor LABOUR HO

WORK ITEM: (2.7.3) ***C-20 Concrete Suspended slab 15cm to 25.5cm thick*** EQUIPEMEN

TOTAL QUANTITY OF WORK ITEM: 1 m^2 0.2 cm RESULT:

_____Data collected by _____Prepared checked by _____Approved by

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
Cement	Qnt.	3.2	244.36	781.95	Foreman	1	0.5	23.75	11.88
Sand	m3	0.45	448.96	202.03	Plasterer	2	1	15.38	30.75
Gravel (02)	m^3	0.83	470.68	390.66	D/L	5	1	7.50	37.50
Water	m^3	0.21	3.45	0.72	Equi.Operator.	2	1	75.00	150.00
					Bar bender	1	1	14.00	14.00
					Carpentary	1	1	16.75	16.75
					Vibrator oper.	2	1	8.75	17.5
Total (1:-01)				1375.37	**Total (1:02)**				278.38

A= Materials Unit Cost **1375.37** Birr/m^2 B=Manpower Unit Cost **35.35** Br./m^2

Total of (1:02) 278.38

Hourly Output 7.875

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

Overhead Cost: 225.85 8%

Profit Cost: 7%

Total Unit Cost :

Remark _____

UF: UTILIZATION FACTOR

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ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT: ***CONCRETE WORK*** From 4th - 7th floor LABOUR HC

WORK ITEM: (2.7.3) ***C-20 Concrete Suspended slab over 25.5cm thick*** EQUIPEMEN

TOTAL QUANTITY OF WORK ITEM: 1 m^2 0.26 cm RESULT:

_____Data collected by _____Prepared checked by _____Approved by

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
Cement	Qnt.	3.2	244.36	781.95	Foreman	1	0.5	23.75	11.88
Sand	m3	0.45	448.96	202.03	Plasterer	2	1	15.38	30.75
Gravel (02)	m^3	0.83	470.68	390.66	D/L	5	1	7.50	37.50
Water	m^3	0.21	3.45	0.72	Equi.Operator.	2	1	75.00	150.00
					Bar bender	1	1	14.00	14.00
					Carpentary	1	1	16.75	16.75
					Vibrator oper.	2	1	8.75	17.5
Total (1:-01)				1375.37	**Total (1:02)**				278.38

A= Materials Unit Cost **1375.37** Birr/m^2 B=Manpower Unit Cost **28.92** Br./m^2

Total of (1:02) 278.38

Hourly Output 9.625

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

Overhead Cost: 184.79 8%

Profit Cost: 7%

Total Unit Cost :

Remark _____

UF: UTILIZATION FACTOR

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ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT: ***CONCRETE WORK*** From 4th - 7th floor LABOUR HOURLY OUTP

WORK ITEM:(2.7.4) ***C-20 Concrete wall /20cm thick/*** EQUIPEMENT: Mixer &

TOTAL QUANTITY OF WORK ITEM: _ 1 m^3 RESULT:

Material Cost (1:01)	Labour (1:02)

_____Data collected by _____Prepared checked by _____Approved by

Type of Material	Unit	Qty *	Rate	Cost per Unit	Labour byTrade	No.	UF	** Indexed Hourly Cost	Hourly Cost
Cement	Qnt.	3.20	244.36	781.95	Foreman	1	1/2	23.75	11.88
Sand	m3	0.45	448.96	202.03	Plasterer	2	1.00	15.38	30.75
Gravel (02)	m^3	0.83	470.68	390.66	D/L	5	1	7.50	37.50
Water	m^3	0.21	3.45	0.72	Equi.Operator.	2	1.00	75.00	150.00
					Bar bender	1	1	14.00	14.00
					Carpentary	1	1	16.75	16.75
					Vibrator oper.	2	1	8.75	17.5
									0.00
Total (1:-01)				1375.37	**Total (1:02)**				278.38

A= Materials Unit Cost **1375** Birr/m^2 B=Manpower Unit Cost **42.83** Br./m^2

Total of (1:02)

Hourly Output

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

Overhead Cost: 8%

Profit Cost: 7%

Total Unit Cost :

Remark _____

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ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT: ***CONCRETE WORK*** From 4th - 7th floor LABOUR HC

WORK ITEM:(2.7.5) ***C -20 Concrete stair case*** EQUIPEMEN

TOTAL QUANTITY OF WORK ITEM: _ 1 m^3 RESULT:

Material Cost (1:01)	Labour (1:02)

_____Data collected by _____Prepared checked by _____Approved by

Type of Material	Unit	Qty *	Rate	Cost per Unit	Labour byTrade	No.	UF	** Indexed Hourly Cost	Hourly Cost
Cement	Qnt.	3.20	244.36	781.95	Foreman	1	1/2	23.75	11.88
Sand	m3	0.45	448.96	202.03	Plasterer	2	1.00	15.38	30.75
Gravel (02)	m^3	0.83	470.68	390.66	D/L	5	1	7.50	37.50
Water	m^3	0.21	3.45	0.72	Equi.Operator.	2	1.00	75.00	150.00
					Bar bender	1	1	14.00	14.00
					Carpentary	1	1	16.75	16.75
					Vibrator oper.	2	1	8.75	17.5
Total (1:-01)				1375.37	**Total (1:02)**				278.38

A= Materials Unit Cost **1375** Birr/m^2 B=Manpower Unit Cost **38.40** Br./m^2

Total of (1:02)

Hourly Output

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

Overhead Cost: 8%

Profit Cost: 7%

Total Unit Cost :

Remark _____

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

ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT: ***CONCRETE WORK*** From 4th - 7th floor LABOUR HOURLY OUTP

WORK ITEM: (2.8.1) ***C-25 Concrete elevation column up to 30cm thick*** EQUIPEMENT: Mixer &

TOTAL QUANTITY OF WORK ITEM: _ 1 m^3 RESULT:

Material Cost (1:01)	Labour (1:02)

_____Data collected by _____Prepared checked by _____Approved by

Type of Material	Unit	Qty *	Rate	Cost per Unit	Labour byTrade	No.	UF	** Indexed Hourly Cost	Hourly Cost
Cement	Qnt.	3.65	244.36	891.91	Foreman	1	1/2	23.75	11.88
Sand	m3	0.44	448.96	197.54	Plasterer	2	1.00	15.38	30.75
Gravel (02)	m^3	0.81	470.68	381.25	D/L	5	1	7.50	37.50
Water	m^3	0.24	3.45	0.83	Equi.Operator.	2	1.00	75.00	150.00
					Bar bender	1	1	14.00	14.00
					Carpentary	1	1	16.75	16.75
					Vibrator oper.	2	1	8.75	17.5
Total (1:-01)				1471.54	**Total (1:02)**				278.38

A= Materials Unit Cost **1471.5** Birr/m^2 B=Manpower Unit Cost **94.8** Br./m^2

Total of (1:02)

Hourly Output

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

Overhead Cost: 8%

Profit Cost: 7%

Total Unit Cost :

Remark _____

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

ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT: ***CONCRETE WORK*** From 4th - 7th floor LABOUR HOURLY OUTP

WORK ITEM: (2.8.1) ***C-25 Concrete elevation column 30cm to 45cm thick*** EQUIPEMENT: Mixer &

TOTAL QUANTITY OF WORK ITEM: _ 1 m^3 RESULT:

Material Cost (1:01)	Labour (1:02)

_____Data collected by _____Prepared checked by _____Approved by

Type of Material	Unit	Qty *	Rate	Cost per Unit	Labour byTrade	No.	UF	** Indexed Hourly Cost	Hourly Cost
Cement	Qnt.	3.65	244.36	891.91	Foreman	1	1/2	23.75	11.88
Sand	m3	0.44	448.96	197.54	Plasterer	2	1.00	15.38	30.75
Gravel (02)	m^3	0.81	470.68	381.25	D/L	5	1	7.50	37.50
Water	m^3	0.24	3.45	0.83	Equi.Operator.	2	1.00	75.00	150.00
					Bar bender	1	1	14.00	14.00
					Carpentary	1	1	16.75	16.75
					Vibrator oper.	2	1	8.75	17.5
Total (1:-01)				1471.54	**Total (1:02)**				278.38

A= Materials Unit Cost **1471.5** Birr/m^2 B=Manpower Unit Cost **67.5** Br./m^2

Total of (1:02)

Hourly Output

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

Overhead Cost: 8%

Profit Cost: 7%

Total Unit Cost :

Remark _____

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ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT: ***CONCRETE WORK*** From 4th - 7th floor LABOUR HOURLY OUTP

WORK ITEM: (2.8.2) ***C-25 Small Elevated Concrete beam < 0.09m²*** EQUIPEMENT: Mixer ,\

TOTAL QUANTITY OF WORK ITEM: _ 1 m^3 RESULT:

Material Cost (1:01)	Labour (1:02)

_____Data collected by _____Prepared checked by _____Approved by

Type of Material	Unit	Qty *	Rate	Cost per Unit	Labour byTrade	No.	UF	** Indexed Hourly Cost	Hourly Cost
Cement	Qnt.	3.65	244.36	891.91	Foreman	1	1/2	23.75	11.88
Sand	m3	0.44	448.96	197.54	Plasterer	2	1.00	15.38	30.75
Gravel (02)	m^3	0.81	470.68	381.25	D/L	5	1	7.50	37.50
Water	m^3	0.24	3.45	0.83	Equi.Operator.	2	1.00	75.00	150.00
					Bar bender	1	1	14.00	14.00
					Carpentary	1	1	16.75	16.75
					Vibrator oper.	2	1	8.75	17.5
Total (1:-01)				1471.54	**Total (1:02)**				278.38

A= Materials Unit Cost **1471.5** Birr/m^2 B=Manpower Unit Cost **89.08** Br./m^2

Total of (1:02)

Hourly Output

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

Overhead Cost: 8%

Profit Cost: 7%

Total Unit Cost :

Remark _____

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ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT: ***CONCRETE WORK*** From 4th - 7th floor LABOUR HOURLY OUTP

WORK ITEM: (2.8.2) ***C-25 Large Elevated Concrete beam > 0.25m²*** EQUIPEMENT: Mixer ,\

TOTAL QUANTITY OF WORK ITEM: _ 1 m^3 RESULT:

Material Cost (1:01)	Labour (1:02)

_____Data collected by _____Prepared checked by _____Approved by

Type of Material	Unit	Qty *	Rate	Cost per Unit	Labour byTrade	No.	UF	** Indexed Hourly Cost	Hourly Cost
Cement	Qnt.	3.65	244.36	891.91	Foreman	1	1/2	23.75	11.88
Sand	m3	0.44	448.96	197.54	Plasterer	2	1.00	15.38	30.75
Gravel (02)	m^3	0.81	470.68	381.25	D/L	5	1	7.50	37.50
Water	m^3	0.24	3.45	0.83	Equi.Operator.	2	1.00	75.00	150.00
					Bar bender	1	1	14.00	14.00
					Carpentary	1	1	16.75	16.75
					Vibrator oper.	2	1	8.75	17.5
Total (1:-01)				1471.54	**Total (1:02)**				278.38

A= Materials Unit Cost **1471.5** Birr/m^2 B=Manpower Unit Cost **59.39** Br./m^2

Total of (1:02)

Hourly Output

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

Overhead Cost: 8%

Profit Cost: 7%

Total Unit Cost :

Remark _____

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ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT: ***CONCRETE WORK*** From 4th - 7th floor LABOUR HOURLY OUTP

WORK ITEM:(2.8.3) *C-25 Concrete Suspended slab < 15cm thick* EQUIPEMENT: Mixer ,\

TOTAL QUANTITY OF WORK ITEM: _ 1 m^3 0.1 cm RESULT:

Material Cost (1:01)	Labour (1:02)

_____Data collected by _____Prepared checked by _____Approved by

Type of Material	Unit	Qty *	Rate	Cost per Unit	Labour byTrade	No.	UF	** Indexed Hourly Cost	Hourly Cost
Cement	Qnt.	3.65	244.36	891.91	Foreman	1	1/2	23.75	11.88
Sand	m3	0.44	448.96	197.54	Plasterer	2	1.00	15.38	30.75
Gravel (02)	m^3	0.81	470.68	381.25	D/L	5	1	7.50	37.50
Water	m^3	0.24	3.45	0.83	Equi.Operator.	2	1.00	75.00	150.00
					Bar bender	1	1	14.00	14.00
					Carpentary	1	1	16.75	16.75
					Vibrator oper.	2	1	8.75	17.5
Total (1:-01)				1471.54	**Total (1:02)**				278.38

A= Materials Unit Cost **1471.54** Birr/m^3 B=Manpower Unit Cost **40.49** Br./m^3

Total of (1:02)

Hourly Output

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

Overhead Cost: 8%

Profit Cost: 7%

Total Unit Cost :

Remark _____

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ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT: ***CONCRETE WORK*** From 4th - 7th floor LABOUR HOURLY OUTP

WORK ITEM:(2.8.3) ***C-25 Concrete Suspended slab 15cm - 25.5cm thick*** EQUIPEMENT: Mixer ,\

TOTAL QUANTITY OF WORK ITEM: _ 1 m^3 0.15 cm RESULT:

Material Cost (1:01)	Labour (1:02)

_____Data collected by _____Prepared checked by _____Approved by

Type of Material	Unit	Qty *	Rate	Cost per Unit	Labour byTrade	No.	UF	** Indexed Hourly Cost	Hourly Cost
Cement	Qnt.	3.65	244.36	891.91	Foreman	1	1/2	23.75	11.88
Sand	m3	0.44	448.96	197.54	Plasterer	2	1.00	15.38	30.75
Gravel (02)	m^3	0.81	470.68	381.25	D/L	5	1	7.50	37.50
Water	m^3	0.24	3.45	0.83	Equi.Operator.	2	1.00	75.00	150.00
					Bar bender	1	1	14.00	14.00
					Carpentary	1	1	16.75	16.75
					Vibrator oper.	2	1	8.75	17.5
Total (1:-01)				1471.54	**Total (1:02)**				278.38

A= Materials Unit Cost **1471.54** Birr/m^3 B=Manpower Unit Cost **35.35** Br./m^3

Total of (1:02)

Hourly Output

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

Overhead Cost: 8%

Profit Cost: 7%

Total Unit Cost :

Remark _____

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ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT: ***CONCRETE WORK*** From 4th - 7th floor LABOUR HOURLY OUTP

WORK ITEM:(2.8.3) ***C-25 Concrete Suspended slab Over 25.5cm thick*** EQUIPEMENT: Mixer ,\

TOTAL QUANTITY OF WORK ITEM: _ 1 m^3 0.26 cm RESULT:

Material Cost (1:01)	Labour (1:02)

_____Data collected by _____Prepared checked by _____Approved by

Type of Material	Unit	Qty *	Rate	Cost per Unit	Labour byTrade	No.	UF	** Indexed Hourly Cost	Hourly Cost
Cement	Qnt.	3.65	244.36	891.91	Foreman	1	1/2	23.75	11.88
Sand	m3	0.44	448.96	197.54	Plasterer	2	1.00	15.38	30.75
Gravel (02)	m^3	0.81	470.68	381.25	D/L	5	1	7.50	37.50
Water	m^3	0.24	3.45	0.83	Equi.Operator.	2	1.00	75.00	150.00
					Bar bender	1	1	14.00	14.00
					Carpentary	1	1	16.75	16.75
					Vibrator oper.	2	1	8.75	17.5
Total (1:-01)				1471.54	**Total (1:02)**				278.38

A= Materials Unit Cost **1471.54** Birr/m^3 B=Manpower Unit Cost **28.92** Br./m^3

Total of (1:02)

Hourly Output

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

Overhead Cost: 8%

Profit Cost: 7%

Total Unit Cost :

Remark _____

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ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT: ***CONCRETE WORK*** From 4th - 7th floor LABOUR HOURLY OUTP

WORK ITEM:(2.8.4) ***C-25 Concrete wall /20cm thick/*** EQUIPEMENT: Mixer ,\

TOTAL QUANTITY OF WORK ITEM: _ 1 m^3 RESULT:

Material Cost (1:01)	Labour (1:02)

_____Data collected by _____Prepared checked by _____Approved by

Type of Material	Unit	Qty *	Rate	Cost per Unit	Labour byTrade	No.	UF	** Indexed Hourly Cost	Hourly Cost
Cement	Qnt.	3.65	244.36	891.91	Foreman	1	1/2	23.75	11.88
Sand	m3	0.44	448.96	197.54	Plasterer	2	1.00	15.38	30.75
Gravel (02)	m^3	0.81	470.68	381.25	D/L	5	1	7.50	37.50
Water	m^3	0.24	3.45	0.83	Equi.Operator.	2	1.00	75.00	150.00
					Bar bender	1	1	14.00	14.00
					Carpentary	1	1	16.75	16.75
					Vibrator oper.	2	1	8.75	17.5
Total (1:-01)				1471.54	**Total (1:02)**				278.38

A= Materials Unit Cost **1471.5** Birr/m^2 B=Manpower Unit Cost **42.8** Br./m^2

Total of (1:02)

Hourly Output

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

Overhead Cost: 8%

Profit Cost: 7%

Total Unit Cost :

Remark _____

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

ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT: ***CONCRETE WORK*** From 4th - 7th floor LABOUR HOURLY OUTP

WORK ITEM:(2.8.5) ***C -25 Concrete stair case*** EQUIPEMENT: Mixer ,\

TOTAL QUANTITY OF WORK ITEM: _ 1 m^3 RESULT:

Material Cost (1:01)	Labour (1:02)

_____Data collected by _____Prepared checked by _____Approved by

Type of Material	Unit	Qty *	Rate	Cost per Unit	Labour byTrade	No.	UF	** Indexed Hourly Cost	Hourly Cost
Cement	Qnt.	3.65	244.36	891.91	Foreman	1	1/2	23.75	11.88
Sand	m3	0.44	448.96	197.54	Plasterer	2	1.00	15.38	30.75
Gravel (02)	m^3	0.81	470.68	381.25	D/L	5	1	7.50	37.50
Water	m^3	0.24	3.45	0.83	Equi.Operator.	2	1.00	75.00	150.00
					Bar bender	1	1	14.00	14.00
					Carpentary	1	1	16.75	16.75
					Vibrator oper.	2	1	8.75	17.5
Total (1:-01)				1471.5	**Total (1:02)**				278.38

A= Materials Unit Cost **1471.5** Birr/m^2 B=Manpower Unit Cost **38.40** Br./m^2

Total of (1:02)

Hourly Output

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

Overhead Cost: 8%

Profit Cost: 7%

Total Unit Cost :

Remark _____

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

ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT: ***CONCRETE WORK*** From 4th - 7th floor LABOUR HOURLY OUTP

WORK ITEM: (2.8.1) ***C-30 Concrete elevation column up to 30cm thick*** EQUIPEMENT: Mixer &

TOTAL QUANTITY OF WORK ITEM: _ 1 m^3 RESULT:

Material Cost (1:01)	Labour (1:02)

_____Data collected by _____Prepared checked by _____Approved by

Type of Material	Unit	Qty *	Rate	Cost per Unit	Labour byTrade	No.	UF	** Indexed Hourly Cost	Hourly Cost
Cement	Qnt.	4.00	244.36	977.44	Foreman	1	1/2	23.75	11.88
Sand	m3	0.42	448.96	188.56	Plasterer	2	1.00	15.38	30.75
Gravel (02)	m^3	0.79	470.68	371.84	D/L	5	1	7.50	37.50
Water	m^3	0.26	3.45	0.90	Equi.Operator.	2	1.00	75.00	150.00
					Bar bender	1	1	14.00	14.00
					Carpentary	1	1	16.75	16.75
					Vibrator oper.	2	1	8.75	17.5
Total (1:-01)				1538.74	**Total (1:02)**				278.38

A= Materials Unit Cost **1538.7** Birr/m^2 B=Manpower Unit Cost **94.8** Br./m^2

Total of (1:02)

Hourly Output

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

Overhead Cost: 8%

Profit Cost: 7%

Total Unit Cost :

Remark _____

UF: UTILIZATION FACTOR

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

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

ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT: ***CONCRETE WORK*** From 4th - 7th floor LABOUR HOURLY OUTP

WORK ITEM: (2.8.1) ***C-30 Concrete elevation column 30cm to 45cm thick*** EQUIPEMENT: Mixer &

TOTAL QUANTITY OF WORK ITEM: _ 1 m^3 RESULT:

Material Cost (1:01)	Labour (1:02)

_____Data collected by _____Prepared checked by _____Approved by

Type of Material	Unit	Qty *	Rate	Cost per Unit	Labour byTrade	No.	UF	** Indexed Hourly Cost	Hourly Cost
Cement	Qnt.	4.00	244.36	977.44	Foreman	1	1/2	23.75	11.88
Sand	m3	0.42	448.96	188.56	Plasterer	2	1.00	15.38	30.75
Gravel (02)	m^3	0.79	470.68	371.84	D/L	5	1	7.50	37.50
Water	m^3	0.26	3.45	0.90	Equi.Operator.	2	1.00	75.00	150.00
					Bar bender	1	1	14.00	14.00
					Carpentary	1	1	16.75	16.75
					Vibrator oper.	2	1	8.75	17.5
Total (1:-01)				1538.74	**Total (1:02)**				278.38

A= Materials Unit Cost **1538.7** Birr/m^2 B=Manpower Unit Cost **67.5** Br./m^2

Total of (1:02)

Hourly Output

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

Overhead Cost: 8%

Profit Cost: 7%

Total Unit Cost :

Remark _____

UF: UTILIZATION FACTOR

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

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

ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT: ***CONCRETE WORK*** From 4th - 7th floor LABOUR HOURLY OUTP

WORK ITEM: (2.8.2) ***C-30 Small Elevated Concrete beam < 0.09m²*** EQUIPEMENT: Mixer ,\

TOTAL QUANTITY OF WORK ITEM: _ 1 m^3 RESULT:

Material Cost (1:01)	Labour (1:02)

_____Data collected by _____Prepared checked by _____Approved by

Type of Material	Unit	Qty *	Rate	Cost per Unit	Labour byTrade	No.	UF	** Indexed Hourly Cost	Hourly Cost
Cement	Qnt.	4.00	244.36	977.44	Foreman	1	1/2	23.75	11.88
Sand	m3	0.42	448.96	188.56	Plasterer	2	1.00	15.38	30.75
Gravel (02)	m^3	0.79	470.68	371.84	D/L	5	1	7.50	37.50
Water	m^3	0.26	3.45	0.90	Equi.Operator.	2	1.00	75.00	150.00
					Bar bender	1	1	14.00	14.00
					Carpentary	1	1	16.75	16.75
					Vibrator oper.	2	1	8.75	17.5
Total (1:-01)				1538.74	**Total (1:02)**				278.38

A= Materials Unit Cost **1538.7** Birr/m^2 B=Manpower Unit Cost **89.08** Br./m^2

Total of (1:02)

Hourly Output

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

Overhead Cost: 8%

Profit Cost: 7%

Total Unit Cost :

Remark _____

UF: UTILIZATION FACTOR

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

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

ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT: ***CONCRETE WORK*** From 4th - 7th floor LABOUR HOURLY OUTP

WORK ITEM: (2.8.2) ***C-30 Large Elevated Concrete beam > 0.25m²*** EQUIPEMENT: Mixer ,\

TOTAL QUANTITY OF WORK ITEM: _ 1 m^3 RESULT:

Material Cost (1:01)	Labour (1:02)

_____Data collected by _____Prepared checked by _____Approved by

Type of Material	Unit	Qty *	Rate	Cost per Unit	Labour byTrade	No.	UF	** Indexed Hourly Cost	Hourly Cost
Cement	Qnt.	4.00	244.36	977.44	Foreman	1	1/2	23.75	11.88
Sand	m3	0.42	448.96	188.56	Plasterer	2	1.00	15.38	30.75
Gravel (02)	m^3	0.79	470.68	371.84	D/L	5	1	16.00	80.00
Water	m^3	0.26	3.45	0.90	Equi.Operator.	2	1.00	75.00	150.00
					Bar bender	1	1	14.00	14.00
					Carpentary	1	1	16.75	16.75
					Vibrator oper.	2	1	8.75	17.5
Total (1:-01)				1538.74	**Total (1:02)**				320.88

A= Materials Unit Cost **1538.7** Birr/m^2 B=Manpower Unit Cost **68.45** Br./m^2

Total of (1:02)

Hourly Output

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

Overhead Cost: 8%

Profit Cost: 7%

Total Unit Cost :

Remark _____

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

ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT: ***CONCRETE WORK*** From 4th - 7th floor LABOUR HOURLY OUTP

WORK ITEM:(2.8.3) ***C-30 Concrete Suspended slab < 15cm thick*** EQUIPEMENT: Mixer ,\

TOTAL QUANTITY OF WORK ITEM: _ 1 m^3 0.1 cm RESULT:

Material Cost (1:01)	Labour (1:02)

_____Data collected by _____Prepared checked by _____Approved by

Type of Material	Unit	Qty *	Rate	Cost per Unit	Labour byTrade	No.	UF	** Indexed Hourly Cost	Hourly Cost
Cement	Qnt.	4.00	244.36	977.44	Foreman	1	1/2	23.75	11.88
Sand	m3	0.42	448.96	188.56	Plasterer	2	1.00	15.38	30.75
Gravel (02)	m^3	0.79	470.68	371.84	D/L	5	1	7.50	37.50
Water	m^3	0.26	3.45	0.90	Equi.Operator.	2	1.00	75.00	150.00
					Bar bender	1	1	14.00	14.00
					Carpentary	1	1	16.75	16.75
					Vibrator oper.	2	1	8.75	17.5
Total (1:-01)				1538.74	**Total (1:02)**				278.38

A= Materials Unit Cost **1538.74** Birr/m^3 B=Manpower Unit Cost **40.49** Br./m^3

Total of (1:02)

Hourly Output

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

Overhead Cost: 8%

Profit Cost: 7%

Total Unit Cost :

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: ***CONCRETE WORK*** From 4th - 7th floor LABOUR HOURLY OUTP

WORK ITEM:(2.8.3) ***C-30 Concrete Suspended slab 15cm - 25.5cm thick*** EQUIPEMENT: Mixer ,\

TOTAL QUANTITY OF WORK ITEM: _ 1 m^3 0.15 cm RESULT:

Material Cost (1:01)	Labour (1:02)

_____Data collected by _____Prepared checked by _____Approved by

Type of Material	Unit	Qty *	Rate	Cost per Unit	Labour byTrade	No.	UF	** Indexed Hourly Cost	Hourly Cost
Cement	Qnt.	4.00	244.36	977.44	Foreman	1	1/2	23.75	11.88
Sand	m3	0.42	448.96	188.56	Plasterer	2	1.00	15.38	30.75
Gravel (02)	m^3	0.79	470.68	371.84	D/L	5	1	7.50	37.50
Water	m^3	0.26	3.45	0.90	Equi.Operator.	2	1.00	75.00	150.00
					Bar bender	1	1	14.00	14.00
					Carpentary	1	1	16.75	16.75
					Vibrator oper.	2	1	8.75	17.5
Total (1:-01)				1538.74	**Total (1:02)**				278.38

A= Materials Unit Cost **1538.74** Birr/m^3 B=Manpower Unit Cost **35.35** Br./m^3

Total of (1:02)

Hourly Output

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

Overhead Cost: 8%

Profit Cost: 7%

Total Unit Cost :

Remark _____

UF: UTILIZATION FACTOR

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

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

ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT: ***CONCRETE WORK*** From 4th - 7th floor LABOUR HOURLY OUTP

WORK ITEM:(2.8.3) ***C-30 Concrete Suspended slab Over 25.5cm thick*** EQUIPEMENT: Mixer ,\

TOTAL QUANTITY OF WORK ITEM: _ 1 m^3 0.26 cm RESULT:

Material Cost (1:01)	Labour (1:02)

_____Data collected by _____Prepared checked by _____Approved by

Type of Material	Unit	Qty *	Rate	Cost per Unit	Labour byTrade	No.	UF	** Indexed Hourly Cost	Hourly Cost
Cement	Qnt.	4.00	244.36	977.44	Foreman	1	1/2	23.75	11.88
Sand	m3	0.42	448.96	188.56	Plasterer	2	1.00	15.38	30.75
Gravel (02)	m^3	0.79	470.68	371.84	D/L	5	1	7.50	37.50
Water	m^3	0.26	3.45	0.90	Equi.Operator.	4	1.00	75.00	300.00
					Bar bender	1	1	14.00	14.00
					Carpentary	1	1	16.75	16.75
					Vibrator oper.	2	1	8.75	17.5
Total (1:-01)				1538.74	**Total (1:02)**				428.38

A= Materials Unit Cost **1538.74** Birr/m^3 B=Manpower Unit Cost **44.51** Br./m^3

Total of (1:02)

Hourly Output

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

Overhead Cost: 8%

Profit Cost: 7%

Total Unit Cost :

Remark _____

UF: UTILIZATION FACTOR

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

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

ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT: ***CONCRETE WORK*** From 4th - 7th floor LABOUR HOURLY OUTP

WORK ITEM:(2.8.4) ***C-30 Concrete wall /20cm thick/*** EQUIPEMENT: Mixer ,\

TOTAL QUANTITY OF WORK ITEM: _ 1 m^3 RESULT:

Material Cost (1:01)	Labour (1:02)

_____Data collected by _____Prepared checked by _____Approved by

Type of Material	Unit	Qty *	Rate	Cost per Unit	Labour byTrade	No.	UF	** Indexed Hourly Cost	Hourly Cost
Cement	Qnt.	4.00	244.36	977.44	Foreman	1	1/2	23.75	11.88
Sand	m3	0.42	448.96	188.56	Plasterer	2	1.00	15.38	30.75
Gravel (02)	m^3	0.79	470.68	371.84	D/L	5	1	7.50	37.50
Water	m^3	0.26	3.45	0.90	Equi.Operator.	2	1.00	75.00	150.00
					Bar bender	1	1	14.00	14.00
					Carpentary	1	1	16.75	16.75
					Vibrator oper.	2	1	8.75	17.5
Total (1:-01)				1538.74	**Total (1:02)**				278.38

A= Materials Unit Cost **1538.7** Birr/m^2 B=Manpower Unit Cost **42.8** Br./m^2

Total of (1:02)

Hourly Output

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

Overhead Cost: 8%

Profit Cost: 7%

Total Unit Cost :

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: ***CONCRETE WORK*** From 4th - 7th floor LABOUR HOURLY OUTP

WORK ITEM:(2.8.5) ***C -30 Concrete stair case*** EQUIPEMENT: Mixer ,\

TOTAL QUANTITY OF WORK ITEM: _ 1 m^3 RESULT:

Material Cost (1:01)	Labour (1:02)

_____Data collected by _____Prepared checked by _____Approved by

Type of Material	Unit	Qty *	Rate	Cost per Unit	Labour byTrade	No.	UF	** Indexed Hourly Cost	Hourly Cost
Cement	Qnt.	4.00	244.36	977.44	Foreman	1	1/2	23.75	11.88
Sand	m3	0.42	448.96	188.56	Plasterer	2	1.00	15.38	30.75
Gravel (02)	m^3	0.79	470.68	371.84	D/L	5	1	7.50	37.50
Water	m^3	0.26	3.45	0.90	Equi.Operator.	2	1.00	75.00	150.00
					Bar bender	1	1	14.00	14.00
					Carpentary	1	1	16.75	16.75
					Vibrator oper.	2	1	8.75	17.5
Total (1:-01)				1538.7	**Total (1:02)**				278.38

A= Materials Unit Cost **1538.7** Birr/m^2 B=Manpower Unit Cost **38.40** Br./m^2

Total of (1:02)

Hourly Output

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

Overhead Cost: 8%

Profit Cost: 7%

Total Unit Cost :

Remark _____

UF: UTILIZATION FACTOR

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

Super structure

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: **FORM WORKS** From 4th - 7th floor LABOUR HOURLY OUTP

WORK ITEM: _ (4.6) ***Zigba form work for elevation column*** EQUIPMENT DAILY OUT

TOTAL QUANTITY OF WORK ITEM: 1 m^2 RESULT:

_____Data collected by _____Prepared checked by _____Approved by

Material Cost (1:01)					Labor Cost (1:02)				
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	** Indexed Hourly Cost	Daily wage
Eucalyptus wood 8cm diameter	M	12	5.63	67.50	Foreman	1	0.25	23.75	5.94
form work 2.5cm local wood	m^3	0.027	2100.00	56.70	Carpenter I	1	1	8.50	8.50
Eucalyptus wood 4cm diameter	m	3	2.50	7.50	Helper	2	1	10.00	20.00
Eucalyptus wood 6cm diameter	m	12	3.75	45.00					
nails of different size	kg	0.3	33.96	10.19					
mould oil	lit	0.06	15.00	0.90					
Total (1:01)				187.79	**Total (1:02)**				34.44

A= Materials Unit Cost 187.79 Birr/m^2 **B= Manpower Unit Cost** 64.07 Birr/m^2 **C=Equi**

Total of (1:02)

Daily output:

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

Over head cost : 8%

Profit Cost: 7%

Total:

Remark _____

UF: UTILIZATION FACTOR **Total unit cost:**

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

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

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: **FORM WORKS** From 4th - 7th floor LABOUR HOURLY OUTP

WORK ITEM: _ (4.7) ***Zigba form work for beams and lintels*** EQUIPMENT DAILY OUT

TOTAL QUANTITY OF WORK ITEM: 1 m^2 RESULT:

Material Cost (1:01)	Labor Cost (1:02)

_____Data collected by _____Prepared checked by _____Approved by

Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	** Indexed Hourly Cost	Daily wage
Eucalyptus wood 8cm diameter	M	16	5.63	90.00	Foreman	1	0.25	23.75	5.94
form work 2.5cm local wood	m^3	0.027	2100.00	56.70	Carpenter I	1	1	8.50	8.50
Eucalyptus wood 4cm diameter	m	6	2.50	15.00	Helper	2	1	10.00	20.00
Eucalyptus wood 6cm diameter	m	12	3.75	45.00					
nails of different size	kg	0.3	33.96	10.19					
mould oil	lit	0.06	15.00	0.90					
				0.00					
Total (1:01)				217.79	**Total (1:02)**				34.44

A= Materials Unit Cost 217.79 Birr/m^2 **B= Manpower Unit Cost** 67.20 Birr/m^2 **C=Equi**

Total of (1:02)

Daily output:

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

Over head cost : 8%

Profit Cost: 7%

Total:

Remark _____

UF: UTILIZATION FACTOR **Total unit cost:**

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

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

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: **FORM WORKS** From 4th - 7th floor LABOUR HC

WORK ITEM:(4.8) ***Slab*** EQUIPMEN

TOTAL QUANTITY OF WORK ITEM: 1 m^2 RESULT:

Material Cost (1:01)	**Labor Cost (1:02)**

_____Data collected by _____Prepared checked by _____Approved by

Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	** Indexed Hourly Cost	Daily wage
Eucalyptus wood 8cm diameter	M	14	5.63	78.75	Foreman	1	0.25	23.75	5.94
form work 2.5cm local wood	m^3	0.027	2100.00	56.70	Carpenter I	1	1	8.50	8.50
Eucalyptus wood 6cm diameter	m	12	3.75	45.00	Helper	2	1	10.00	20.00
nails of different size	kg	0.4	33.96	13.58					
mould oil	lit	0.06	15.00	0.90					
Eucalyptus wood 4cm diameter	m	12	2.50						
Total (1:01)				194.93	**Total (1:02)**				34.44

A= Materials Unit Cost 194.93 Birr/m^2 **B= Manpower Unit Cost** 64.07 Birr/m^2 **C=Equi**

Total of (1:02)

Daily output:

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

Over head cost : 8%

Profit Cost: 7%

Total:

Remark _____

Total unit cost:

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 COSTS

PROJECT: **FORM WORKS** From 4th - 7th floor LABOUR HC

WORK ITEM: _ (4.9) ***Zigba form work for Concrete walls,Lift shalf,Stair case & Landing*** EQUIPMENT

TOTAL QUANTITY OF WORK ITEM: 1 m^2 RESULT:

Material Cost (1:01)	**Labor Cost (1:02)**

_____Data collected by _____Prepared checked by _____Approved by

Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	** Indexed Hourly Cost	Daily wage
Eucalyptus wood 8cm diameter	M	20	5.63	112.50	Foreman	1	0.25	23.75	5.94
form work 2.5cm local wood	m^3	0.027	2100.00	56.70	Carpenter II	1	1	8.50	8.50
Eucalyptus wood 6cm diameter	m	6	2.50	15.00	Helper	2	1	10.00	20.00
nails of different size	kg	0.4	33.96	13.58					
mould oil	lit	0.06	15.00	0.90					
				0					
Total (1:01)				198.68	**Total (1:02)**				34.44

A= Materials Unit Cost 198.68 Birr/m^2 **B= Manpower Unit Cost** 70.64 Birr/m^2 **C=Equi**

Total of (1:02)

Daily output:

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

Over head cost : 8%

Profit Cost: 7%

Total:

Remark _____

UF: UTILIZATION FACTOR **Total unit cost:**

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

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

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: **FORM WORKS** From 4th - 7th floor LABOUR HC

WORK ITEM: _ (4.9) ***Zigba form work for Canopy*** EQUIPMENT

TOTAL QUANTITY OF WORK ITEM: 1 m^2 RESULT:

Material Cost (1:01)	**Labor Cost (1:02)**

_____Data collected by _____Prepared checked by _____Approved by

Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	** Indexed Hourly Cost	Daily wage
Eucalyptus wood 8cm diameter	M	20	5.63	112.50	Foreman	1	0.25	23.75	5.94
form work 2.5cm local wood	m^3	0.027	2100.00	56.70	Carpenter II	1	1	8.50	8.50
Eucalyptus wood 6cm diameter	m	6	3.75	22.50	Helper	2	1	10.00	20.00
nails of different size	kg	0.4	33.96	13.58					
mould oil	lit	0.06	15.00	0.90					
				0					
Total (1:01)				206.18	**Total (1:02)**				34.44

A= Materials Unit Cost 206.18 Birr/m^2 **B= Manpower Unit Cost** 64.07 Birr/m^2 **C=Equi**

Total of (1:02)

Daily output:

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

Over head cost : 8%

Profit Cost: 7%

Total:

Remark _____

Total unit cost:

UF: UTILIZATION FACTOR

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

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

Super structure

ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT : REINFORCEMENT BARS From 4th - 7th floor LABOUR HOURLY OUTP

WORK ITEM: (3.10) ***dia. 6 mm. plain bars*** EQUIPEMENT:

TOTAL QANTITY OF WORK ITEM: _ 1 kg. RESULT:

Material Cost (1:01)	Labour (1:02)

_____Data collected by _____Prepared checked by _____Approved by

Type of Material	Unit	Qty *	Rate	Cost per Unit	Labour by Grade	No.	UF	** Indexed Hourly Cost	Hourly Cost
0 6 mm plain bars	kg	1.02	23.00	23.46	Foreman	1	0.25	23.75	5.94
1.5 mm black anneald wire	kg	0.02	32.00	0.64	Bar bender I	1	1	7.25	7.25
					Bar bender II	1	1	14.00	14.00
					Helper	1	1	10.00	10.00
					D/L	2	1	6.38	12.75
Total (1:-01)				24.10	**Total (1:02)**				49.94

A= Materials Unit Cost _____ 24.10 birr/kg

B= Manpower Unit Cost 2.42 Birr/kg.

Total of (1:02)

hourly output: 7.08/9=0.79

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

Over head cost : 8%

Profit Cost: 7%

Total Unit Cost :

Remark _____

UF: UTILIZATION FACTOR

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

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

ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT : REINFORCEMENT BARS From 4th - 7th floor LABOUR HOURLY OUTP

WORK ITEM: (3.11) ***dia. 8 mm. & 10mm. Deformed bars bars*** EQUIPEMENT:

TOTAL QANTITY OF WORK ITEM: _ 1 kg. RESULT:

Material Cost (1:01)	Labour (1:02)

_____Data collected by _____Prepared checked by _____Approved by

Type of Material	Unit	Qty *	Rate	Cost per Unit	Labour by Grade	No.	UF	** Indexed Hourly Cost	Hourly Cost
0 8 - 0 10 mm plain bars	kg	1.02	21.00	21.42	Foreman	1	0.25	23.75	5.94
1.5 mm black anneald wire	"	0.02	32.00	0.64	Bar bender I	1	1	7.25	7.25
					Bar bender II	1	1	14.00	14.00
					Helper	1	1	7.50	7.50
					D/L	2	1	6.38	12.75
Total (1:-01)				22.06	**Total (1:02)**				47.44

A= Materials Unit Cost _____ **22.06** birr/kg

B= Manpower Unit Cost **2.00** Birr/kg.

Total of (1:02)

hourly output:

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

Over head cost : 8%

Profit Cost: 7%

Total Unit Cost :

Remark _____

UF: UTILIZATION FACTOR

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

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

ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT : REINFORCEMENT BARS From 4th - 7th floor LABOUR HOURLY OUTP

WORK ITEM: (3.13) ***dia. 12mm.- 16 mm. deformed bars*** EQUIPEMENT:

TOTAL QANTITY OF WORK ITEM: _ 1 kg RESULT:

Material Cost (1:01)	Labour (1:02)

_____Data collected by _____Prepared checked by _____Approved by

Type of Material	Unit	Qty *	Rate	Cost per Unit	Labour by Grade	No.	UF	** Indexed Hourly Cost	Hourly Cost
0 12- 0 16 mm deformed bars	kg	1.02	21.00	21.42	Foreman	1	0.25	23.75	5.94
1.5 mm black Annealed wire	"	0.02	32.00	0.64	Bar bender I	1	1	7.25	7.25
					Bar bender II	1	1	14.00	14.00
					Helper	1	1	7.50	7.50
					D/L	2	1	6.38	12.75
Total (1:-01)				22.06	**Total (1:02)**				47.4375

A= Materials Unit Cost __ **22.06** Birr/kg.

B= Manpower Unit Cost **1.49** Birr/kg.

Total of (1:02)

Hourly Output: _____

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

Over head cost : 8%

Profit Cost: 7%

Total Unit Cost :

Remark _____

UF: UTILIZATION FACTOR

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

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

ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT : REINFORCEMENT BARS From 4th - 7th floor LABOUR HOURLY OUTP

WORK ITEM: (3.16) ***dia. 20mm-24 mm. deformed bars*** EQUIPEMENT:

TOTAL QANTITY OF WORK ITEM: _ 1 kg RESULT:

_____Data collected by _____Prepared checked by _____Approved by

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
0 20- 0 24 mm deformed bars	kg	1.02	21.00	21.42	Foreman	1	0.25	23.75	5.94
1.5 mm black Annealed wire	"	0.02	32.00	0.64	Bar bender I	1	1	7.25	7.25
					Bar bender II	1	1	14.00	14.00
					Helper	1	1	7.50	7.50
					D/L	2	1	7.50	15.00
Total (1:-01)				22.06	**Total (1:02)**				49.6875

A= Materials Unit Cost __ **22.06** Birr/kg.

B= Manpower Unit Cost **1.45** Birr/kg.

Total of (1:02)

Hourly Output: _____

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

Over head cost : 8%

Profit Cost: 7%

Total Unit Cost :

Remark _____

UF: UTILIZATION FACTOR

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

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

ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT : **REINFORCEMENT BARS** From 4th - 7th floor LABOUR HOURLY OUTP

_____Data collected by _____Prepared checked by _____Approved by

WORK ITEM: (3.18) ***dia. 28mm - 32 mm. deformed bars*** EQUIPEMENT:

TOTAL QANTITY OF WORK ITEM: _ 1 kg RESULT:

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
0 28- 0 23 mm deformed bars	kg	1.02	21.00	21.42	Foreman	1	0.25	23.75	5.94
1.5 mm black Annealed wire	"	0.02	32.00	0.64	Bar bender I	1	1	7.25	7.25
					Bar bender II	1	1	14.00	14.00
					Helper	1	1	7.50	7.50
					D/L	2	1	6.38	12.75
Total (1:-01)				22.06	**Total (1:02)**				47.4375

A= Materials Unit Cost __ **22.06** Birr/kg.

B= Manpower Unit Cost **1.33** Birr/kg.

Total of (1:02)

Hourly Output: _____

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

Over head cost : 8%

Profit Cost: 7%

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.

_____Data collected by _____Prepared checked by _____Approved by

ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT: ***CONCRETE WORK*** From 8th - 12th floor LABOUR HO

WORK ITEM:(2.7.1) ***C-20 Concrete elevation column up to 30cm thick*** EQUIPEMEN

TOTAL QUANTITY OF WORK ITEM: 1 m^3 RESULT:

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
Cement	Qnt.	3.2	244.36	781.95	Foreman	1	0.25	23.75	5.94
Sand	m3	0.45	448.96	202.03	Plasterer II	2	1	15.38	30.75
Gravel (02)	m^3	0.83	470.68	390.66	D/L II	5	1	7.50	37.50
Water	m^3	0.21	3.45	0.72	Equi. Operator I	1	1	75.00	75.00
					Bar bender	1	1	14.00	14.00
					Carpentary	1	1	16.75	16.75
					Vibrator oper.	2	1	8.75	17.5
Total (1:-01)				1375.37	**Total (1:02)**				197.44

A= Materials Unit Cost **1375.37** Birr/m^3 B=Manpower Unit Cost **65.81** Br./m^3

Total of (1:02)

Hourly Output 3

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

Overhead Cost: 532.55 8%

Profit Cost: 7%

Total Unit Cost :

Remark _____

UF: UTILIZATION FACTOR

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

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

ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

_____Data collected by _____Prepared checked by _____Approved by

PROJECT: ***CONCRETE WORK*** From 8th - 12th floor LABOUR HO

WORK ITEM:(2.7.1) ***C-20 Concrete elevation column 30cm - 45cm thick*** EQUIPEMEN

TOTAL QUANTITY OF WORK ITEM: 1 m^3 RESULT:

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
Cement	Qnt.	3.2	244.36	781.95	Foreman	1	1	23.75	23.75
Sand	m3	0.45	448.96	202.03	Plasterer II	2	1	15.38	30.75
Gravel (02)	m^3	0.83	470.68	390.66	D/L II	5	1	7.50	37.50
Water	m^3	0.21	3.45	0.72	Equi. Operator I	1	1	75.00	75.00
					Bar bender	1	1	14.00	14.00
					Carpentary	1	1	16.75	16.75
					Vibrator oper.	2	1	8.75	17.5
Total (1:-01)				1375.37	**Total (1:02)**				215.25

A= Materials Unit Cost **1375.37** Birr/m^3 B=Manpower Unit Cost **51.40** Br./m^3

Total of (1:02)

Hourly Output 4.1875

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

Overhead Cost: 385.78 8%

Profit Cost: 7%

Total Unit Cost :

Remark _____

UF: UTILIZATION FACTOR

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ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT: ***CONCRETE WORK*** From 8th - 12th floor LABOUR HO

_____Data collected by _____Prepared checked by _____Approved by

WORK ITEM: (2.7.2) ***C-20 Small Elevated Concrete beam < 0.09m²*** EQUIPEMEN

TOTAL QUANTITY OF WORK ITEM: 1 m^3 RESULT:

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
Cement	Qnt.	3.2	244.36	781.95	Foreman	1	0.25	23.75	5.94
Sand	m3	0.45	448.96	202.03	Plasterer	2	1	15.38	30.75
Gravel (02)	m^3	0.83	470.68	390.66	D/L	5	1	7.50	37.50
Water	m^3	0.213	3.45	0.73	Equi. Operator	1	1	75.00	75.00
				0.00	Bar bender	1	1	14.00	14.00
				0.00	Carpentary	1	1	16.75	16.75
				0.00	Vibrator oper.	2	1	8.75	17.5
Total (1:-01)				1375.38	**Total (1:02)**				197.44
									1579.5

A= Materials Unit Cost **1375** Birr/m^3 B=Manpower Unit Cost **77.05** Br./m^3

Total of (1:02)

Hourly Output 2.5625

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

Overhead Cost: 623.47 8%

Profit Cost: 7%

Total Unit Cost :

Remark _____

UF: UTILIZATION FACTOR

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

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

ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT: ***CONCRETE WORK*** From 8th - 12th floor LABOUR HO

WORK ITEM: (2.7.2) ***C-20 Large elevated Concrete beam > 0.25m²*** EQUIPEMEN

_____Data collected by _____Prepared checked by _____Approved by

TOTAL QUANTITY OF WORK ITEM: 1 m^3 RESULT:

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
Cement	Qnt.	3.2	244.36	781.95	Foreman	1	0.25	23.75	5.94
Sand	m3	0.45	448.96	202.03	Plasterer	2	1	15.38	30.75
Gravel (02)	m^3	0.83	175.00	145.25	D/L	5	1	7.50	37.50
Water	m^3	0.213	3.45	0.73	Equi. Operator	4	1	75.00	300.00
				0.00	Bar bender	1	1	14.00	14.00
				0.00	Carpentary	1	1	16.75	16.75
				0.00	Vibrator oper.	2	1	8.75	17.5
Total (1:-01)				1129.97	**Total (1:02)**				422.44
									3379.5

A= Materials Unit Cost **1130** Birr/m^3 B=Manpower Unit Cost **103.98** Br./m^3

Total of (1:02)

Hourly Output 4.0625

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

Overhead Cost: 448.65 8%

Profit Cost: 7%

Total Unit Cost :

Remark _____

UF: UTILIZATION FACTOR

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

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

ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT: ***CONCRETE WORK*** From 8th - 12th floor LABOUR HO

WORK ITEM: (2.7.3) ***C-20 Concrete Suspended slab < 15cm thick*** EQUIPEMEN

TOTAL QUANTITY OF WORK ITEM: 1 m^3 0.1 cm RESULT:

_____Data collected by _____Prepared checked by _____Approved by

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
Cement	Qnt.	3.2	244.36	781.95	Foreman	1	0.5	23.75	11.88
Sand	m3	0.45	448.96	202.03	Plasterer	2	1	15.38	30.75
Gravel (02)	m^3	0.83	470.68	390.66	D/L	5	1	7.50	37.50
Water	m^3	0.21	3.45	0.72	Equi.Operator.	4	1	75.00	300.00
					Carpenter	1	1	16.75	16.75
Total (1:-01)				1375.37	**Total (1:02)**				396.88

A= Materials Unit Cost **1375.37** Birr/m^2 B=Manpower Unit Cost **52.05** Br./m^2

Total of (1:02) 396.88

Hourly Output 7.625

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

Overhead Cost: 336.67 8%

Profit Cost: 7%

Total Unit Cost :

Remark _____

UF: UTILIZATION FACTOR

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

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

ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT: ***CONCRETE WORK*** From 8th - 12th floor LABOUR HC

WORK ITEM: (2.7.3) ***C-20 Concrete Suspended slab 15cm to 25.5cm thick*** EQUIPEMEN

TOTAL QUANTITY OF WORK ITEM: 1 m^2 0.2 cm RESULT:

_____Data collected by _____Prepared checked by _____Approved by

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
Cement	Qnt.	3.2	244.36	781.95	Foreman	1	0.5	23.75	11.88
Sand	m3	0.45	448.96	202.03	Plasterer	2	1	15.38	30.75
Gravel (02)	m^3	0.83	470.68	390.66	D/L	5	1	7.50	37.50
Water	m^3	0.21	3.45	0.72	Equi.Operator.	4	1	75.00	300.00
					Carpenter	1	1	0.00	0.00
Total (1:-01)				1375.37	**Total (1:02)**				380.13

A= Materials Unit Cost **1375.37** Birr/m^2 B=Manpower Unit Cost **41.09** Br./m^2

Total of (1:02) 380.13

Hourly Output 9.25

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

Overhead Cost: 275.71 8%

Profit Cost: 7%

Total Unit Cost :

Remark _____

UF: UTILIZATION FACTOR

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

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

ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT: ***CONCRETE WORK*** From 8th - 12th floor LABOUR HO

WORK ITEM: (2.7.3) ***C-20 Concrete Suspended slab over 25.5cm thick*** EQUIPEMEN

TOTAL QUANTITY OF WORK ITEM: 1 m^2 0.26 cm RESULT:

Material Cost (1:01)	Labour (1:02)

_____Data collected by _____Prepared checked by _____Approved by

Type of Material	Unit	Qty *	Rate	Cost per Unit	Labour by Trade	No.	UF	** Indexed Hourly Cost	Hourly Cost
Cement	Qnt.	3.2	244.36	781.95	Foreman	1	0.5	23.75	11.88
Sand	m3	0.45	448.96	202.03	Plasterer	2	1	15.38	30.75
Gravel (02)	m^3	0.83	470.68	390.66	D/L	5	1	7.50	37.50
Water	m^3	0.21	3.45	0.72	Equi.Operator.	4	1	75.00	300.00
					Carpenter	1	1	0.00	0.00
Total (1:-01)				1375.37	**Total (1:02)**				380.13

A= Materials Unit Cost **1375.37** Birr/m^2

B=Manpower Unit Cost **39.49** Br./m^2

Total of (1:02) 380.13

Hourly Output 9.625

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

Overhead Cost: 264.97 8%

Profit Cost: 7%

Total Unit Cost :

Remark _____

UF: UTILIZATION FACTOR

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

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

ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT: ***CONCRETE WORK*** From 8th - 12th floor LABOUR HOURLY OUTP

WORK ITEM:(2.7.4) ***C-20 Concrete wall /20cm thick/*** EQUIPEMENT: Mixer &

TOTAL QUANTITY OF WORK ITEM: _ 1 m^3 RESULT:

Material Cost (1:01)	Labour (1:02)

_____Data collected by _____Prepared checked by _____Approved by

Type of Material	Unit	Qty *	Rate	Cost per Unit	Labour byTrade	No.	UF	** Indexed Hourly Cost	Hourly Cost
Cement	Qnt.	3.20	244.36	781.95	Foreman	1	1/2	23.75	11.88
Sand	m3	0.45	448.96	202.03	Plasterer	2	1.00	15.38	37.50
Gravel (02)	m^3	0.83	470.68	390.66	D/L	5	1	7.50	50.00
Water	m^3	0.21	3.45	0.72	Equi.Operator.	4	1.00	75.00	300.00
					Bar bender	1	1	14.00	14.00
					Carpentary	1	1	16.75	16.75
					Vibrator oper.	2	1	8.75	17.5
Total (1:-01)				1375.37	**Total (1:02)**				447.63

A= Materials Unit Cost **1375** Birr/m^2 B=Manpower Unit Cost **67.57** Br./m^2

Total of (1:02)

Hourly Output

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

Overhead Cost: 8%

Profit Cost: 7%

Total Unit Cost :

Remark _____

UF: UTILIZATION FACTOR

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

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

ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT: ***CONCRETE WORK*** From 8th - 12th floor LABOUR HC

WORK ITEM:(2.7.5) ***C -20 Concrete stair case*** EQUIPEMEN

TOTAL QUANTITY OF WORK ITEM: _ 1 m^3 RESULT:

Material Cost (1:01)	Labour (1:02)

_____Data collected by _____Prepared checked by _____Approved by

Type of Material	Unit	Qty *	Rate	Cost per Unit	Labour byTrade	No.	UF	** Indexed Hourly Cost	Hourly Cost
Cement	Qnt.	3.20	244.36	781.95	Foreman	1	1/2	23.75	11.88
Sand	m3	0.45	448.96	202.03	Plasterer	2	1.00	15.38	30.75
Gravel (02)	m^3	0.83	470.68	390.66	D/L	5	1	7.50	37.50
Water	m^3	0.21	3.45	0.72	Equi.Operator.	1	1.00	75.00	75.00
					Bar bender	1	1	14.00	14.00
					Carpentary	1	1	16.75	16.75
					Vibrator oper.	2	1	8.75	17.5
Total (1:-01)				1375.37	**Total (1:02)**				203.38

A= Materials Unit Cost **1375** Birr/m^2 B=Manpower Unit Cost **30.13** Br./m^2

Total of (1:02)

Hourly Output

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

Overhead Cost: 8%

Profit Cost: 7%

Total Unit Cost :

Remark _____

UF: UTILIZATION FACTOR

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

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

ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT: ***CONCRETE WORK*** From 8th - 12th floor LABOUR HOURLY OUTP

WORK ITEM: (2.8.1) ***C-25 Concrete elevation column up to 30cm thick*** EQUIPEMENT: Mixer &

TOTAL QUANTITY OF WORK ITEM: _ 1 m^3 RESULT:

Material Cost (1:01)	Labour (1:02)

_____Data collected by _____Prepared checked by _____Approved by

Type of Material	Unit	Qty *	Rate	Cost per Unit	Labour byTrade	No.	UF	** Indexed Hourly Cost	Hourly Cost
Cement	Qnt.	3.65	244.36	891.91	Foreman	1	1/2	23.75	11.88
Sand	m3	0.44	448.96	197.54	Plasterer	2	1.00	15.38	30.75
Gravel (02)	m^3	0.81	470.68	381.25	D/L	5	1	7.50	37.50
Water	m^3	0.24	3.45	0.83	Equi.Operator.	1	1.00	75.00	75.00
					Bar bender	1	1	14.00	14.00
					Carpentary	1	1	16.75	16.75
					Vibrator oper.	2	1	8.75	17.5
Total (1:-01)				1471.54	**Total (1:02)**				203.38

A= Materials Unit Cost **1471.5** Birr/m^2 B=Manpower Unit Cost **67.8** Br./m^2

Total of (1:02)

Hourly Output

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

Overhead Cost: 8%

Profit Cost: 7%

Total Unit Cost :

Remark _____

UF: UTILIZATION FACTOR

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

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

ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT: ***CONCRETE WORK*** From 8th - 12th floor LABOUR HOURLY OUTP

WORK ITEM: (2.8.1) ***C-25 Concrete elevation column 30cm to 45cm thick*** EQUIPEMENT: Mixer &

TOTAL QUANTITY OF WORK ITEM: _ 1 m^3 RESULT:

Material Cost (1:01)	Labour (1:02)

_____Data collected by _____Prepared checked by _____Approved by

Type of Material	Unit	Qty *	Rate	Cost per Unit	Labour byTrade	No.	UF	** Indexed Hourly Cost	Hourly Cost
Cement	Qnt.	3.65	244.36	891.91	Foreman	1	1/2	23.75	11.88
Sand	m3	0.44	448.96	197.54	Plasterer	2	1.00	15.38	30.75
Gravel (02)	m^3	0.81	470.68	381.25	D/L	5	1	7.50	37.50
Water	m^3	0.24	3.45	0.83	Equi.Operator.	1	1.00	75.00	75.00
					Bar bender	1	1	14.00	14.00
					Carpentary	1	1	16.75	16.75
					Vibrator oper.	2	1	8.75	17.5
Total (1:-01)				1471.54	**Total (1:02)**				203.38

A= Materials Unit Cost **1471.5** Birr/m^2 B=Manpower Unit Cost **48.6** Br./m^2

Total of (1:02)

Hourly Output

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

Overhead Cost: 8%

Profit Cost: 7%

Total Unit Cost :

Remark _____

UF: UTILIZATION FACTOR

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

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

ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT: ***CONCRETE WORK*** From 8th - 12th floor LABOUR HOURLY OUTP

WORK ITEM: (2.8.2) ***C-25 Small Elevated Concrete beam < 0.09m²*** EQUIPEMENT: Mixer ,\

TOTAL QUANTITY OF WORK ITEM: _ 1 m^3 RESULT:

Material Cost (1:01)	Labour (1:02)

_____Data collected by _____Prepared checked by _____Approved by

Type of Material	Unit	Qty *	Rate	Cost per Unit	Labour byTrade	No.	UF	** Indexed Hourly Cost	Hourly Cost
Cement	Qnt.	3.65	244.36	891.91	Foreman	1	1/2	23.75	11.88
Sand	m3	0.44	448.96	197.54	Plasterer	2	1.00	15.38	30.75
Gravel (02)	m^3	0.81	470.68	381.25	D/L	5	1	7.50	37.50
Water	m^3	0.24	3.45	0.83	Equi.Operator.	1	1.00	75.00	75.00
					Bar bender	1	1	14.00	14.00
					Carpentary	1	1	16.75	16.75
					Vibrator oper.	2	1	8.75	17.5
Total (1:-01)				1471.54	**Total (1:02)**				203.38

A= Materials Unit Cost **1471.5** Birr/m^2 B=Manpower Unit Cost **75.67** Br./m^2

Total of (1:02)

Hourly Output

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

Overhead Cost: 8%

Profit Cost: 7%

Total Unit Cost :

Remark _____

UF: UTILIZATION FACTOR

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

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

ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT: ***CONCRETE WORK*** From 8th - 12th floor LABOUR HOURLY OUTP

WORK ITEM: (2.8.2) ***C-25 Large Elevated Concrete beam > 0.25m²*** EQUIPEMENT: Mixer ,\

TOTAL QUANTITY OF WORK ITEM: _ 1 m^3 RESULT:

Material Cost (1:01)	Labour (1:02)

_____Data collected by _____Prepared checked by _____Approved by

Type of Material	Unit	Qty *	Rate	Cost per Unit	Labour byTrade	No.	UF	** Indexed Hourly Cost	Hourly Cost
Cement	Qnt.	3.65	244.36	891.91	Foreman	1	1/2	23.75	11.88
Sand	m3	0.44	448.96	197.54	Plasterer	2	1.00	15.38	30.75
Gravel (02)	m^3	0.81	470.68	381.25	D/L	5	1	7.50	37.50
Water	m^3	0.24	3.45	0.83	Equi.Operator.	4	1.00	75.00	300.00
					Bar bender	1	1	14.00	14.00
					Carpentary	1	1	16.75	16.75
					Vibrator oper.	2	1	8.75	17.5
Total (1:-01)				1471.54	**Total (1:02)**				428.38

A= Materials Unit Cost **1471.5** Birr/m^2 B=Manpower Unit Cost **105.45** Br./m^2

Total of (1:02)

Hourly Output

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

Overhead Cost: 8%

Profit Cost: 7%

Total Unit Cost :

Remark _____

UF: UTILIZATION FACTOR

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

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

ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT: ***CONCRETE WORK*** From 8th - 12th floor LABOUR HOURLY OUTP

WORK ITEM:(2.8.3) *C-25 Concrete Suspended slab < 15cm thick* EQUIPEMENT: Mixer ,\

TOTAL QUANTITY OF WORK ITEM: _ 1 m^3 0.1 cm RESULT:

Material Cost (1:01)	Labour (1:02)

_____Data collected by _____Prepared checked by _____Approved by

Type of Material	Unit	Qty *	Rate	Cost per Unit	Labour byTrade	No.	UF	** Indexed Hourly Cost	Hourly Cost
Cement	Qnt.	3.65	244.36	891.91	Foreman	1	1/2	23.75	11.88
Sand	m3	0.44	448.96	197.54	Plasterer	2	1.00	15.38	30.75
Gravel (02)	m^3	0.81	470.68	381.25	D/L	5	1	7.50	37.50
Water	m^3	0.24	3.45	0.83	Equi.Operator.	1	1.00	75.00	75.00
					Bar bender	1	1	14.00	14.00
					Carpentary	1	1	16.75	16.75
					Vibrator oper.	2	1	8.75	17.5
Total (1:-01)				1471.54	**Total (1:02)**				203.38

A= Materials Unit Cost **1471.54** Birr/m^3 B=Manpower Unit Cost **26.67** Br./m^3

Total of (1:02)

Hourly Output

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

Overhead Cost: 8%

Profit Cost: 7%

Total Unit Cost :

Remark _____

UF: UTILIZATION FACTOR

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

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

ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT: ***CONCRETE WORK*** From 8th - 12th floor LABOUR HOURLY OUTP

WORK ITEM:(2.8.3) ***C-25 Concrete Suspended slab 15cm - 25.5cm thick*** EQUIPEMENT: Mixer ,\

TOTAL QUANTITY OF WORK ITEM: _ 1 m^3 0.2 cm RESULT:

Material Cost (1:01)	Labour (1:02)

_____Data collected by _____Prepared checked by _____Approved by

Type of Material	Unit	Qty *	Rate	Cost per Unit	Labour byTrade	No.	UF	** Indexed Hourly Cost	Hourly Cost
Cement	Qnt.	3.65	244.36	891.91	Foreman	1	1/2	23.75	11.88
Sand	m3	0.44	448.96	197.54	Plasterer	2	1.00	15.38	30.75
Gravel (02)	m^3	0.81	470.68	381.25	D/L	5	1	7.50	37.50
Water	m^3	0.24	3.45	0.83	Equi.Operator.	1	1.00	75.00	75.00
					Bar bender	1	1	14.00	14.00
					Carpentary	1	1	16.75	16.75
					Vibrator oper.	2	1	8.75	17.5
Total (1:-01)				1471.54	**Total (1:02)**				203.38

A= Materials Unit Cost **1471.54** Birr/m^3 B=Manpower Unit Cost **21.99** Br./m^3

Total of (1:02)

Hourly Output

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

Overhead Cost: 8%

Profit Cost: 7%

Total Unit Cost :

Remark _____

UF: UTILIZATION FACTOR

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

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

ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT: ***CONCRETE WORK*** From 8th - 12th floor LABOUR HOURLY OUTP

WORK ITEM:(2.8.3) ***C-25 Concrete Suspended slab Over 25.5cm thick*** EQUIPEMENT: Mixer ,\

TOTAL QUANTITY OF WORK ITEM: _ 1 m^3 0.26 cm RESULT:

Material Cost (1:01)	Labour (1:02)

_____Data collected by _____Prepared checked by _____Approved by

Type of Material	Unit	Qty *	Rate	Cost per Unit	Labour byTrade	No.	UF	** Indexed Hourly Cost	Hourly Cost
Cement	Qnt.	3.65	244.36	891.91	Foreman	1	1/2	23.75	11.88
Sand	m3	0.44	448.96	197.54	Plasterer	2	1.00	15.38	30.75
Gravel (02)	m^3	0.81	470.68	381.25	D/L	5	1	7.50	37.50
Water	m^3	0.24	3.45	0.83	Equi.Operator.	1	1.00	75.00	75.00
					Bar bender	1	1	14.00	14.00
					Carpentary	1	1	16.75	16.75
					Vibrator oper.	2	1	8.75	17.5
Total (1:-01)				1471.54	**Total (1:02)**				203.38

A= Materials Unit Cost **1471.54** Birr/m^3 B=Manpower Unit Cost **21.13** Br./m^3

Total of (1:02)

Hourly Output

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

Overhead Cost: 8%

Profit Cost: 7%

Total Unit Cost :

Remark _____

UF: UTILIZATION FACTOR

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

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

ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT: ***CONCRETE WORK*** From 8th - 12th floor LABOUR HOURLY OUTP

WORK ITEM:(2.8.4) ***C-25 Concrete wall /20cm thick/*** EQUIPEMENT: Mixer ,\

TOTAL QUANTITY OF WORK ITEM: _ 1 m^3 RESULT:

Material Cost (1:01)	Labour (1:02)

_____Data collected by _____Prepared checked by _____Approved by

Type of Material	Unit	Qty *	Rate	Cost per Unit	Labour byTrade	No.	UF	** Indexed Hourly Cost	Hourly Cost
Cement	Qnt.	3.65	244.36	891.91	Foreman	1	1/2	23.75	11.88
Sand	m3	0.44	448.96	197.54	Plasterer	2	1.00	15.38	30.75
Gravel (02)	m^3	0.81	470.68	381.25	D/L	5	1	7.50	37.50
Water	m^3	0.24	3.45	0.83	Equi.Operator.	1	1.00	75.00	75.00
					Bar bender	1	1	14.00	14.00
					Carpentary	1	1	16.75	16.75
					Vibrator oper.	2	1	8.75	17.5
Total (1:-01)				1471.54	**Total (1:02)**				203.38

A= Materials Unit Cost **1471.5** Birr/m^2 B=Manpower Unit Cost **30.7** Br./m^2

Total of (1:02)

Hourly Output

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

Overhead Cost: 8%

Profit Cost: 7%

Total Unit Cost :

Remark _____

UF: UTILIZATION FACTOR

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

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

ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT: ***CONCRETE WORK*** From 8th - 12th floor LABOUR HOURLY OUTP

WORK ITEM:(2.8.5) ***C -25 Concrete stair case*** EQUIPEMENT: Mixer ,\

TOTAL QUANTITY OF WORK ITEM: _ 1 m^3 RESULT:

Material Cost (1:01)	Labour (1:02)

_____Data collected by _____Prepared checked by _____Approved by

Type of Material	Unit	Qty *	Rate	Cost per Unit	Labour byTrade	No.	UF	** Indexed Hourly Cost	Hourly Cost
Cement	Qnt.	3.65	244.36	891.91	Foreman	1	1/2	23.75	11.88
Sand	m3	0.44	448.96	197.54	Plasterer	2	1.00	15.38	30.75
Gravel (02)	m^3	0.81	470.68	381.25	D/L	5	1	7.50	37.50
Water	m^3	0.24	3.45	0.83	Equi.Operator.	1	1.00	75.00	75.00
					Bar bender	1	1	14.00	14.00
					Carpentary	1	1	16.75	16.75
					Vibrator oper.	2	1	8.75	17.5
Total (1:-01)				1471.5	**Total (1:02)**				203.38

A= Materials Unit Cost **1471.5** Birr/m^2 B=Manpower Unit Cost **30.13** Br./m^2

Total of (1:02)

Hourly Output

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

Overhead Cost: 8%

Profit Cost: 7%

Total Unit Cost :

Remark _____

UF: UTILIZATION FACTOR

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

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

ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT: ***CONCRETE WORK*** From 8th - 12th floor LABOUR HOURLY OUTP

WORK ITEM: (2.8.1) ***C-30 Concrete elevation column up to 30cm thick*** EQUIPEMENT: Mixer &

TOTAL QUANTITY OF WORK ITEM: _ 1 m^3 RESULT:

Material Cost (1:01)	Labour (1:02)

_____Data collected by _____Prepared checked by _____Approved by

Type of Material	Unit	Qty *	Rate	Cost per Unit	Labour byTrade	No.	UF	** Indexed Hourly Cost	Hourly Cost
Cement	Qnt.	4.00	244.36	977.44	Foreman	1	1/2	23.75	11.88
Sand	m3	0.42	448.96	188.56	Plasterer	2	1.00	15.38	30.75
Gravel (02)	m^3	0.79	470.68	371.84	D/L	5	1	7.50	37.50
Water	m^3	0.26	3.45	0.90	Equi.Operator.	1	1.00	75.00	75.00
					Bar bender	1	1	14.00	14.00
					Carpentary	1	1	16.75	16.75
					Vibrator oper.	2	1	8.75	17.5
Total (1:-01)				1538.74	**Total (1:02)**				203.38

A= Materials Unit Cost **1538.7** Birr/m^2 B=Manpower Unit Cost **67.8** Br./m^2

Total of (1:02)

Hourly Output

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

Overhead Cost: 8%

Profit Cost: 7%

Total Unit Cost :

Remark _____

UF: UTILIZATION FACTOR

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

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

ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT: ***CONCRETE WORK*** From 8th - 12th floor LABOUR HOURLY OUTP

WORK ITEM: (2.8.1) ***C-30 Concrete elevation column 30cm to 45cm thick*** EQUIPEMENT: Mixer &

TOTAL QUANTITY OF WORK ITEM: _ 1 m^3 RESULT:

Material Cost (1:01)	Labour (1:02)

_____Data collected by _____Prepared checked by _____Approved by

Type of Material	Unit	Qty *	Rate	Cost per Unit	Labour byTrade	No.	UF	** Indexed Hourly Cost	Hourly Cost
Cement	Qnt.	4.00	244.36	977.44	Foreman	1	1/2	23.75	11.88
Sand	m3	0.42	448.96	188.56	Plasterer	2	1.00	15.38	30.75
Gravel (02)	m^3	0.79	470.68	371.84	D/L	5	1	7.50	37.50
Water	m^3	0.26	3.45	0.90	Equi.Operator.	1	1.00	75.00	75.00
					Bar bender	1	1	14.00	14.00
					Carpentary	1	1	16.75	16.75
					Vibrator oper.	2	1	8.75	17.5
Total (1:-01)				1538.74	**Total (1:02)**				203.38

A= Materials Unit Cost **1538.7** Birr/m^2 B=Manpower Unit Cost **48.6** Br./m^2

Total of (1:02)

Hourly Output

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

Overhead Cost: 8%

Profit Cost: 7%

Total Unit Cost :

Remark _____

UF: UTILIZATION FACTOR

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

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

ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT: ***CONCRETE WORK*** From 8th - 12th floor LABOUR HOURLY OUTP

WORK ITEM: (2.8.2) ***C-30 Small Elevated Concrete beam < 0.09m²*** EQUIPEMENT: Mixer ,\

TOTAL QUANTITY OF WORK ITEM: _ 1 m^3 RESULT:

Material Cost (1:01)	Labour (1:02)

_____Data collected by _____Prepared checked by _____Approved by

Type of Material	Unit	Qty *	Rate	Cost per Unit	Labour byTrade	No.	UF	** Indexed Hourly Cost	Hourly Cost
Cement	Qnt.	4.00	244.36	977.44	Foreman	1	1/2	23.75	11.88
Sand	m3	0.42	448.96	188.56	Plasterer	2	1.00	15.38	30.75
Gravel (02)	m^3	0.79	470.68	371.84	D/L	5	1	7.50	37.50
Water	m^3	0.26	3.45	0.90	Equi.Operator.	1	1.00	75.00	75.00
					Bar bender	1	1	14.00	14.00
					Carpentary	1	1	16.75	16.75
					Vibrator oper.	2	1	8.75	17.5
Total (1:-01)				1538.74	**Total (1:02)**				203.38

A= Materials Unit Cost **1538.7** Birr/m^2 B=Manpower Unit Cost **79.37** Br./m^2

Total of (1:02)

Hourly Output

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

Overhead Cost: 8%

Profit Cost: 7%

Total Unit Cost :

Remark _____

UF: UTILIZATION FACTOR

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

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

ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT: ***CONCRETE WORK*** From 8th - 12th floor LABOUR HOURLY OUTP

WORK ITEM: (2.8.2) ***C-30 Large Elevated Concrete beam > 0.25m²*** EQUIPEMENT: Mixer ,\

TOTAL QUANTITY OF WORK ITEM: _ 1 m^3 RESULT:

Material Cost (1:01)	Labour (1:02)

_____Data collected by _____Prepared checked by _____Approved by

Type of Material	Unit	Qty *	Rate	Cost per Unit	Labour byTrade	No.	UF	** Indexed Hourly Cost	Hourly Cost
Cement	Qnt.	4.00	244.36	977.44	Foreman	1	1/2	23.75	11.88
Sand	m3	0.42	448.96	188.56	Plasterer	2	1.00	15.38	30.75
Gravel (02)	m^3	0.79	470.68	371.84	D/L	5	1	7.50	37.50
Water	m^3	0.26	3.45	0.90	Equi.Operator.	1	1.00	75.00	75.00
					Bar bender	1	1	14.00	14.00
					Carpentary	1	1	16.75	16.75
					Vibrator oper.	2	1	8.75	17.5
Total (1:-01)				1538.74	**Total (1:02)**				203.38

A= Materials Unit Cost **1538.7** Birr/m^2 B=Manpower Unit Cost **50.06** Br./m^2

Total of (1:02)

Hourly Output

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

Overhead Cost: 8%

Profit Cost: 7%

Total Unit Cost :

Remark _____

UF: UTILIZATION FACTOR

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

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

ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT: ***CONCRETE WORK*** From 8th - 12th floor LABOUR HOURLY OUTP

WORK ITEM:(2.8.3) ***C-30 Concrete Suspended slab < 15cm thick*** EQUIPEMENT: Mixer ,\

TOTAL QUANTITY OF WORK ITEM: _ 1 m^3 0.1 cm RESULT:

Material Cost (1:01)	Labour (1:02)

_____Data collected by _____Prepared checked by _____Approved by

Type of Material	Unit	Qty *	Rate	Cost per Unit	Labour byTrade	No.	UF	** Indexed Hourly Cost	Hourly Cost
Cement	Qnt.	4.00	244.36	977.44	Foreman	1	1/2	23.75	11.88
Sand	m3	0.42	448.96	188.56	Plasterer	2	1.00	15.38	30.75
Gravel (02)	m^3	0.79	470.68	371.84	D/L	5	1	7.50	37.50
Water	m^3	0.26	3.45	0.90	Equi.Operator.	1	1.00	75.00	75.00
					Bar bender	1	1	14.00	14.00
					Carpentary	1	1	16.75	16.75
					Vibrator oper.	2	1	8.75	17.5
Total (1:-01)				1538.74	**Total (1:02)**				203.38

A= Materials Unit Cost **1538.74** Birr/m^3 B=Manpower Unit Cost **26.67** Br./m^3

Total of (1:02)

Hourly Output

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

Overhead Cost: 8%

Profit Cost: 7%

Total Unit Cost :

Remark _____

UF: UTILIZATION FACTOR

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

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

ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT: ***CONCRETE WORK*** From 8th - 12th floor LABOUR HOURLY OUTP

WORK ITEM:(2.8.3) ***C-30 Concrete Suspended slab 15cm - 25.5cm thick*** EQUIPEMENT: Mixer ,\

TOTAL QUANTITY OF WORK ITEM: _ 1 m^3 0.2 cm RESULT:

Material Cost (1:01)	Labour (1:02)

_____Data collected by _____Prepared checked by _____Approved by

Type of Material	Unit	Qty *	Rate	Cost per Unit	Labour byTrade	No.	UF	** Indexed Hourly Cost	Hourly Cost
Cement	Qnt.	4.00	244.36	977.44	Foreman	1	1/2	23.75	11.88
Sand	m3	0.42	448.96	188.56	Plasterer	2	1.00	15.38	30.75
Gravel (02)	m^3	0.79	470.68	371.84	D/L	5	1	7.50	37.50
Water	m^3	0.26	3.45	0.90	Equi.Operator.	1	1.00	75.00	75.00
					Bar bender	1	1	14.00	14.00
					Carpentary	1	1	16.75	16.75
					Vibrator oper.	2	1	8.75	17.5
Total (1:-01)				1538.74	**Total (1:02)**				203.38

A= Materials Unit Cost **1538.74** Birr/m^3 B=Manpower Unit Cost **21.99** Br./m^3

Total of (1:02)

Hourly Output

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

Overhead Cost: 8%

Profit Cost: 7%

Total Unit Cost :

Remark _____

UF: UTILIZATION FACTOR

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

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

ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT: ***CONCRETE WORK*** From 8th - 12th floor LABOUR HOURLY OUTP

WORK ITEM:(2.8.3) ***C-30 Concrete Suspended slab Over 25.5cm thick*** EQUIPEMENT: Mixer ,\

TOTAL QUANTITY OF WORK ITEM: _ 1 m^3 0.26 cm RESULT:

Material Cost (1:01)	Labour (1:02)

_____Data collected by _____Prepared checked by _____Approved by

Type of Material	Unit	Qty *	Rate	Cost per Unit	Labour byTrade	No.	UF	** Indexed Hourly Cost	Hourly Cost
Cement	Qnt.	4.00	244.36	977.44	Foreman	1	1/2	23.75	11.88
Sand	m3	0.42	448.96	188.56	Plasterer	2	1.00	15.38	30.75
Gravel (02)	m^3	0.79	470.68	371.84	D/L	5	1	7.50	37.50
Water	m^3	0.26	3.45	0.90	Equi.Operator.	4	1.00	75.00	300.00
					Bar bender	1	1	14.00	14.00
					Carpentary	1	1	16.75	16.75
					Vibrator oper.	2	1	8.75	17.5
Total (1:-01)				1538.74	**Total (1:02)**				428.38

A= Materials Unit Cost **1538.74** Birr/m^3 B=Manpower Unit Cost **44.51** Br./m^3

Total of (1:02)

Hourly Output

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

Overhead Cost: 8%

Profit Cost: 7%

Total Unit Cost :

Remark _____

UF: UTILIZATION FACTOR

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

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

ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT: ***CONCRETE WORK*** From 8th - 12th floor LABOUR HOURLY OUTP

WORK ITEM:(2.8.4) ***C-30 Concrete wall /20cm thick/*** EQUIPEMENT: Mixer ,\

TOTAL QUANTITY OF WORK ITEM: _ 1 m^3 RESULT:

Material Cost (1:01)	Labour (1:02)

_____Data collected by _____Prepared checked by _____Approved by

Type of Material	Unit	Qty *	Rate	Cost per Unit	Labour byTrade	No.	UF	** Indexed Hourly Cost	Hourly Cost
Cement	Qnt.	4.00	244.36	977.44	Foreman	1	1/2	23.75	11.88
Sand	m3	0.42	448.96	188.56	Plasterer	2	1.00	15.38	30.75
Gravel (02)	m^3	0.79	470.68	371.84	D/L	5	1	7.50	37.50
Water	m^3	0.26	3.45	0.90	Equi.Operator.	1	1.00	75.00	75.00
					Bar bender	1	1	14.00	14.00
					Carpentary	1	1	16.75	16.75
					Vibrator oper.	2	1	8.75	17.5
Total (1:-01)				1538.74	**Total (1:02)**				203.38

A= Materials Unit Cost **1538.7** Birr/m^2 B=Manpower Unit Cost **30.7** Br./m^2

Total of (1:02)

Hourly Output

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

Overhead Cost: 8%

Profit Cost: 7%

Total Unit Cost :

Remark _____

UF: UTILIZATION FACTOR

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

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

ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT: ***CONCRETE WORK*** From 8th - 12th floor LABOUR HOURLY OUTP

WORK ITEM:(2.8.5) ***C -30 Concrete stair case*** EQUIPEMENT: Mixer ,\

TOTAL QUANTITY OF WORK ITEM: _ 1 m^3 RESULT:

Material Cost (1:01)	Labour (1:02)

_____Data collected by _____Prepared checked by _____Approved by

Type of Material	Unit	Qty *	Rate	Cost per Unit	Labour byTrade	No.	UF	** Indexed Hourly Cost	Hourly Cost
Cement	Qnt.	4.00	244.36	977.44	Foreman	1	1/2	23.75	11.88
Sand	m3	0.42	448.96	188.56	Plasterer	2	1.00	15.38	30.75
Gravel (02)	m^3	0.79	470.68	371.84	D/L	5	1	7.50	37.50
Water	m^3	0.26	3.45	0.90	Equi.Operator.	1	1.00	75.00	75.00
					Bar bender	1	1	14.00	14.00
					Carpentary	1	1	16.75	16.75
					Vibrator oper.	2	1	8.75	17.5
Total (1:-01)				1538.7	**Total (1:02)**				203.38

A= Materials Unit Cost **1538.7** Birr/m^2 B=Manpower Unit Cost **30.13** Br./m^2

Total of (1:02)

Hourly Output

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

Overhead Cost: 8%

Profit Cost: 7%

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.

Super structure

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: **FORM WORKS** From 8th - 12th floor LABOUR HOURLY OUTP

WORK ITEM: _ (4.6) ***Zigba form work for elevation column*** EQUIPMENT DAILY OUT

TOTAL QUANTITY OF WORK ITEM: 1 m^2 RESULT:

_____Data collected by _____Prepared checked by _____Approved by

Material Cost (1:01)					Labor Cost (1:02)				
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	** Indexed Hourly Cost	Daily wage
Eucalyptus wood 8cm diameter	M	12	5.63	67.50	Foreman	1	0.25	23.75	5.94
form work 2.5cm local wood	m^3	0.027	2100.00	56.70	Carpenter I	1	1	8.50	8.50
Eucalyptus wood 4cm diameter	m	3	2.50	7.50	Helper	2	1	10.00	20.00
Eucalyptus wood 6cm diameter	m	12	3.75	45.00					
nails of different size	kg	0.3	33.96	10.19					
mould oil	lit	0.06	15.00	0.90					
Total (1:01)				187.79	**Total (1:02)**				34.44

A= Materials Unit Cost 187.79 Birr/m^2 **B= Manpower Unit Cost** 67.20 Birr/m^2 **C=Equi**

Total of (1:02)

Daily output:

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

Over head cost : 8%

Profit Cost: 7%

Total:

Remark _____

UF: UTILIZATION FACTOR **Total unit cost:**

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

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

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: **FORM WORKS** From 8th - 12th floor LABOUR HOURLY OUTP

WORK ITEM: _ (4.7) ***Zigba form work for beams and lintels*** EQUIPMENT DAILY OUT

TOTAL QUANTITY OF WORK ITEM: 1 m^2 RESULT:

Material Cost (1:01)	Labor Cost (1:02)

_____Data collected by _____Prepared checked by _____Approved by

Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	** Indexed Hourly Cost	Daily wage
Eucalyptus wood 8cm diameter	M	16	5.63	90.00	Foreman	1	0.25	23.75	5.94
form work 2.5cm local wood	m^3	0.027	2100.00	56.70	Carpenter I	1	1	8.50	8.50
Eucalyptus wood 4cm diameter	m	6	2.50	15.00	Helper	2	1	10.00	20.00
Eucalyptus wood 6cm diameter	m	12	3.75	45.00					
nails of different size	kg	0.3	33.96	10.19					
mould oil	lit	0.06	15.00	0.90					
				0.00					
Total (1:01)				217.79	**Total (1:02)**				34.44

A= Materials Unit Cost 217.79 Birr/m^2 **B= Manpower Unit Cost** 70.64 Birr/m^2 **C=Equi**

Total of (1:02)

Daily output:

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

Over head cost : 8%

Profit Cost: 7%

Total:

Remark _____

UF: UTILIZATION FACTOR **Total unit cost:**

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

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

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: **FORM WORKS** From 8th - 12th floor LABOUR HC

WORK ITEM:(4.8) ***Slab*** EQUIPMEN

TOTAL QUANTITY OF WORK ITEM: 1 m^2 RESULT:

Material Cost (1:01)	**Labor Cost (1:02)**

_____Data collected by _____Prepared checked by _____Approved by

Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	** Indexed Hourly Cost	Daily wage
Eucalyptus wood 8cm diameter	M	14	5.63	78.75	Foreman	1	0.25	23.75	5.94
form work 2.5cm local wood	m^3	0.027	2100.00	56.70	Carpenter I	1	1	8.50	8.50
Eucalyptus wood 6cm diameter	m	12	3.75	45.00	Helper	2	1	10.00	20.00
nails of different size	kg	0.4	33.96	13.58					
mould oil	lit	0.06	15.00	0.90					
Eucalyptus wood 4cm diameter	m	12	2.50						
Total (1:01)				194.93	**Total (1:02)**				34.44

A= Materials Unit Cost 194.93 Birr/m^2 **B= Manpower Unit Cost** 67.20 Birr/m^2 **C=Equi**

Total of (1:02)

Daily output:

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

Over head cost : 8%

Profit Cost: 7%

Total:

Remark _____

UF: UTILIZATION FACTOR **Total unit cost:**

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

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

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: **FORM WORKS** From 8th - 12th floor LABOUR HC

WORK ITEM: _ (4.9) ***Zigba form work for Concrete walls,Lift shalf,Stair case & Landing*** EQUIPMENT

TOTAL QUANTITY OF WORK ITEM: 1 m^2 RESULT:

Material Cost (1:01)	**Labor Cost (1:02)**

_____Data collected by _____Prepared checked by _____Approved by

Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	** Indexed Hourly Cost	Daily wage
Eucalyptus wood 8cm diameter	M	20	5.63	112.50	Foreman	1	0.25	23.75	5.94
form work 2.5cm local wood	m^3	0.027	2100.00	56.70	Carpenter II	1	1	8.50	8.50
Eucalyptus wood 6cm diameter	m	6	3.75	22.50	Helper	2	1	10.00	20.00
nails of different size	kg	0.4	33.96	13.58					
mould oil	lit	0.06	15.00	0.90					
				0					
Total (1:01)				206.18	**Total (1:02)**				34.44

A= Materials Unit Cost 206.18 Birr/m^2 **B= Manpower Unit Cost** 74.46 Birr/m^2 **C=Equi**

Total of (1:02)

Daily output:

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

Over head cost : 8%

Profit Cost: 7%

Total:

Remark _____

UF: UTILIZATION FACTOR **Total unit cost:**

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

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

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: **FORM WORKS** From 8th - 12th floor LABOUR HC

WORK ITEM: _ (4.9) ***Zigba form work for Canopy*** EQUIPMENT

TOTAL QUANTITY OF WORK ITEM: 1 m^2 RESULT:

Material Cost (1:01)	**Labor Cost (1:02)**

_____Data collected by _____Prepared checked by _____Approved by

Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	** Indexed Hourly Cost	Daily wage
Eucalyptus wood 8cm diameter	M	20	5.63	112.50	Foreman	1	0.25	23.75	5.94
form work 2.5cm local wood	m^3	0.027	2100.00	56.70	Carpenter II	1	1	8.50	8.50
Eucalyptus wood 6cm diameter	m	6	3.75	22.50	Helper	2	1	10.00	20.00
nails of different size	kg	0.4	33.96	13.58					
mould oil	lit	0.06	15.00	0.90					
				0					
Total (1:01)				206.18	**Total (1:02)**				34.44

A= Materials Unit Cost 206.18 Birr/m^2 **B= Manpower Unit Cost** 67.20 Birr/m^2 **C=Equi**

Total of (1:02)

Daily output:

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

Over head cost : 8%

Profit Cost: 7%

Total:

Remark _____

UF: UTILIZATION FACTOR **Total unit cost:**

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

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

Super structure

ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT : REINFORCEMENT BARS From 8th - 12th floor LABOUR HOURLY OUTP

WORK ITEM: (3.10) ***dia. 6 mm. plain bars*** EQUIPEMENT:

TOTAL QANTITY OF WORK ITEM: _ 1 kg. RESULT:

Material Cost (1:01)	Labour (1:02)

_____Data collected by _____Prepared checked by _____Approved by

Type of Material	Unit	Qty *	Rate	Cost per Unit	Labour by Grade	No.	UF	** Indexed Hourly Cost	Hourly Cost
0 6 mm plain bars	kg	1.02	23.00	23.46	Foreman	1	0.25	23.75	5.94
1.5 mm black anneald wire	kg	0.02	32.00	0.64	Bar bender I	1	1	7.25	7.25
					Bar bender II	1	1	14.00	14.00
					Helper	1	1	10.00	10.00
					D/L	2	1	6.38	12.75
Total (1:-01)				24.10	**Total (1:02)**				49.94

A= Materials Unit Cost _____ 24.10 birr/kg

B= Manpower Unit Cost 2.96 Birr/kg.

Total of (1:02)

hourly output: 7.08/9=0.79

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

Over head cost : 8%

Profit Cost: 7%

Total Unit Cost :

Remark _____

UF: UTILIZATION FACTOR

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

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

ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT : REINFORCEMENT BARS From 8th - 12th floor LABOUR HOURLY OUTP

WORK ITEM: (3.11) ***dia. 8 mm. & 10mm. Deformed bars bars*** EQUIPEMENT:

TOTAL QANTITY OF WORK ITEM: _ 1 kg. RESULT:

Material Cost (1:01)	Labour (1:02)

_____Data collected by _____Prepared checked by _____Approved by

Type of Material	Unit	Qty *	Rate	Cost per Unit	Labour by Grade	No.	UF	** Indexed Hourly Cost	Hourly Cost
0 8 - 0 10 mm plain bars	kg	1.02	21.00	21.42	Foreman	1	0.25	23.75	5.94
1.5 mm black anneald wire	"	0.02	32.00	0.64	Bar bender I	1	1	7.25	7.25
					Bar bender II	1	1	14.00	14.00
					Helper	1	1	10.00	10.00
					D/L	2	1	6.38	12.75
Total (1:-01)				22.06	**Total (1:02)**				49.94

A= Materials Unit Cost _____ **22.06** birr/kg

B= Manpower Unit Cost **2.50** Birr/kg.

Total of (1:02)

hourly output:

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

Over head cost : 8%

Profit Cost: 7%

Total Unit Cost :

Remark _____

UF: UTILIZATION FACTOR

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

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

ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT : REINFORCEMENT BARS From 8th - 12th floor LABOUR HOURLY OUTP

WORK ITEM: (3.13) ***dia. 12mm.- 16 mm. deformed bars*** EQUIPEMENT:

TOTAL QANTITY OF WORK ITEM: _ 1 kg RESULT:

Material Cost (1:01)	Labour (1:02)

_____Data collected by _____Prepared checked by _____Approved by

Type of Material	Unit	Qty *	Rate	Cost per Unit	Labour by Grade	No.	UF	** Indexed Hourly Cost	Hourly Cost
0 12- 0 16 mm deformed bars	kg	1.02	21.00	21.42	Foreman	1	0.25	23.75	5.94
1.5 mm black Annealed wire	"	0.02	32.00	0.64	Bar bender I	1	1	7.25	7.25
					Bar bender II	1	1	14.00	14.00
					Helper	1	1	10.00	10.00
					D/L	2	1	6.38	12.75
Total (1:-01)				22.06	**Total (1:02)**				49.9375

A= Materials Unit Cost __ **22.06** Birr/kg.

B= Manpower Unit Cost **1.78** Birr/kg.

Total of (1:02)

Hourly Output: _____

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

Over head cost : 8%

Profit Cost: 7%

Total Unit Cost :

Remark _____

UF: UTILIZATION FACTOR

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

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

ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT : REINFORCEMENT BARS From 8th - 12th floor LABOUR HOURLY OUTP

WORK ITEM: (3.16) ***dia. 20mm-24 mm. deformed bars*** EQUIPEMENT:

_____Data collected by _____Prepared checked by _____Approved by

TOTAL QANTITY OF WORK ITEM: _ 1 kg RESULT:

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
0 20- 0 24 mm deformed bars	kg	1.02	21.00	21.42	Foreman	1	0.25	23.75	5.94
1.5 mm black Annealed wire	"	0.02	32.00	0.64	Bar bender I	1	1	7.25	7.25
					Bar bender II	1	1	14.00	14.00
					Helper	1	1	10.00	10.00
					D/L	2	1	6.38	12.75
Total (1:-01)				22.06	**Total (1:02)**				49.9375

A= Materials Unit Cost __ **22.06** Birr/kg.

B= Manpower Unit Cost **1.63** Birr/kg.

Total of (1:02)

Hourly Output: _____

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

Over head cost : 8%

Profit Cost: 7%

Total Unit Cost :

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

_____Data collected by _____Prepared checked by _____Approved by

PROJECT : REINFORCEMENT BARS From 8th - 12th floor LABOUR HOURLY OUTP

WORK ITEM: (3.18) ***dia. 28mm - 32 mm. deformed bars*** EQUIPEMENT:

TOTAL QANTITY OF WORK ITEM: _ 1 kg RESULT:

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
0 28- 0 32 mm deformed bars	kg	1.02	21.00	21.42	Foreman	1	0.25	23.75	5.94
1.5 mm black Annealed wire	"	0.02	32.00	0.64	Bar bender I	1	1	7.25	7.25
					Bar bender II	1	1	14.00	14.00
					Helper	1	1	10.00	10.00
					D/L	2	1	6.38	12.75
Total (1:-01)				22.06	**Total (1:02)**				49.9375

A= Materials Unit Cost __ **22.06** Birr/kg. B= Manpower Unit Cost **1.57** Birr/kg.

Total of (1:02)

Hourly Output: _____

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

Over head cost : 8%

Profit Cost: 7%

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.

_____Data collected by _____Prepared checked by _____Approved by

'UT: **30** m^2/hr.

30 m^2/hr.

1686.06 Birr/m2

Equipment Cost (1:03)			
Type of Equipment	No.	Hourly Rental	Hourly Cost
mixer	*1*	*62.73*	*62.73*
Tools	*4*	*1.28*	*5.12*
Total (1:03)			67.85

C=Equipment Unit Cost 2.26 Br./m^2

Total of (1:03)

Hourly output: _____

1466.14 Birr/m^2 73.30704

117.29 "

102.63 "

1686.06 Birr/m^2

_____Data collected by _____Prepared checked by _____Approved by

'UT: **30** m^2/hr.

30 m^2/hr.

679.62 Birr/m2

Equipment Cost (1:03)			
Type of Equipment	No.	Hourly Rental	Hourly Cost
mixer	*1*	*62.73*	*62.73*
Tools	*4*	*1.28*	*5.12*
Total (1:03)			67.85

C=Equipment Unit Cost 2.26 Br./m^2

Total of (1:03)

Hourly output: _____

590.97 Birr/m^2 41.36803

47.28 "

41.37 "

679.62 Birr/m^2

_____Data collected by _____Prepared checked by _____Approved by

1.5 m³/hr.

PUT: *1.5* m³/hr.

541 *Birr/m³*

37.89466648 *Birr/m²*

6.45

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

C=Equipment Unit Cost *0.00 Br./m³*

Total of (1:03)

Daily Output

474.87 Birr/m³

37.99 "

33.24 "

541.35 Birr/m³

541 *Birr/m³*

_____Data collected by _____Prepared checked by _____Approved by

'UT: 1.5 m³ / hr.

ι Vibrator 1.5 m³ / hr. 220.8

887.96 Birr/m³ 501.84

Equipment Cost (1:03)			
Type of Equipment	No.	Hourly Rental	Hourly Cost
Mixer	1	62.73	62.73
Vibrator	1	27.60	27.6
Total (1:03)			90.33

C= Equipment Unit Cost : **60.22** Br./m³

Total of (1:03)

Hourly output:

772.14 Birr/m³

61.77 "

54.05 "

888.0 Birr/m³

)URLY OUTPUT: *1.5* m³ / hr.

_____Data collected by _____Prepared checked by _____Approved by

T *1.5* m³ / hr.

920 *Birr/m³*

Equipment Cost (1:03)			
Type of Equipment	*No.*	Hourly Rental	Hourly Cost
mixer	*1*	62.73	62.73
vibrator	*1*	27.60	27.6
Total (1:03)			*90.33*

C=Equipment Unit Cost *60.22 Br./m³*

Total of (1:03)

Daily Output

799.97 *Birr/m³*

64.00 "

56.00 "

919.96 *Birr/m³*

920.0 *Birr/m³*

OURLY OUTPUT: *1.5* m³ / hr.

_____Data collected by _____Prepared checked by _____Approved by

T DAILY OUT PUT: *1.5* m³ / hr.

459.98 ***920*** *Birr/m³*

Equipment Cost (1:03)			
Type of Equipment	*No.*	Hourly Rental	Hourly Cost
mixer	*1*	62.73	62.73
vibrator	*1*	27.60	27.6
Total (1:03)			*90.33*

C=Equipment Unit Cost *60.22 Br./m³*

Total of (1:03)

Daily Output

799.97 Birr/m³

64.00 "

56.00 "

919.96 Birr/m³

920.0 *Birr/m³*

'UT: 1.0625 m³ / hr.

_____Data collected by _____Prepared checked by _____Approved by

Vibrator 1.0625 m^3 / hr.

1001.9 Birr/m^3

Equipment Cost (1:03)			
Type of Equipment	No.	Hourly Rental	Hourly Cost
Mixer	1	62.73	62.73
Vibrator	1	27.60	27.6
			0
Total (1:03)			90.33

Br./m3 85.01647

C= Equipment Unit Cost **85.02** Br./m^2

Total of (1:03)

Hourly output: _____

871.23 Birr/m^2

69.70 "

60.99 "

1001.9 Birr/m^3

_____Data collected by _____Prepared checked by _____Approved by

UT: 1.31 m^3 / hr.

PUT: 1.31 m^3 / hr.

936.15 *Birr/m^3*

Equipment Cost (1:03)			
Type of Equipment	*No.*	Hourly Rental	Hourly Cost
mixer	*1*	62.73	62.73
vibrator	*1*	27.60	27.6
Total (1:03)			*90.33*

C=Equipment Unit Cost *68.82 Br./m^3*

Total of (1:03)

Daily Output

814.05 Birr/m^3

65.12 "

56.98 "

936.15 Birr/m^3

936 *Birr/m^3*

_____Data collected by _____Prepared checked by _____Approved by

UT: 1.50 m³ / hr.

PUT: 1.50 m³ / hr.

904.44 *Birr/m³*

90.44 *Birr/m²*

Equipment Cost (1:03)			
Type of Equipment	*No.*	Hourly Rental	Hourly Cost
mixer	*1*	62.73	62.73
vibrator	*1*	27.60	27.6
Total (1:03)			*90.33*

C=Equipment Unit Cost *60.22 Br./m³*

Total of (1:03)

Daily Output

786.47 Birr/m³

62.92 "

55.05 "

904.44 Birr/m³

904 *Birr/m³*

I

_____Data collected by _____Prepared checked by _____Approved by

UT: 1.50 m³ / hr.

PUT: 1.50 m³ / hr.

904.44 *Birr/m³*

153.75 *Birr/m²*

Equipment Cost (1:03)			
Type of Equipment	*No.*	Hourly Rental	Hourly Cost
mixer	*1*	62.73	62.73
vibrator	*1*	27.60	27.6
Total (1:03)			*90.33*

C=Equipment Unit Cost *60.22 Br./m³*

Total of (1:03)

Daily Output

786.47 *Birr/m³*

62.92 "

55.05 "

904.44 *Birr/m³*

904 *Birr/m³*

_____Data collected by _____Prepared checked by _____Approved by

UT: 1.50 m^3 / hr.

PUT: 1.50 m^3 / hr.

904.44 *Birr/m^3*

162.80 *Birr/m^2*

Equipment Cost (1:03)			
Type of Equipment	*No.*	Hourly Rental	Hourly Cost
mixer	*1*	62.73	62.73
vibrator	*1*	27.60	27.6
Total (1:03)			*90.33*

C=Equipment Unit Cost *60.22 Br./m^3*

Total of (1:03)

Daily Output

786.47 *Birr/m^3*

62.92 "

55.05 "

904.44 *Birr/m^3*

904 *Birr/m^3*

_____Data collected by _____Prepared checked by _____Approved by

'UT: *1.06* m³ / hr.

UT PUT: *1.06* m³ / hr.

995.85 *Birr/m³*

Equipment Cost (1:03)			
Type of Equipment	*No.*	Hourly Rental	Hourly Cost
mixer	*1*	62.73	62.73
vibrator	*1*	27.60	27.6
Total (1:03)			*90.33*

C=Equipment Unit Cost *85.02 Br./m³*

Total of (1:03)

Daily Output

865.96 *Birr/m³*

69.28 "

60.62 "

995.85 *Birr/m³*

995.85 *Birr/m³*

_____Data collected by _____Prepared checked by _____Approved by

'UT: 0.94 m^3 / hr.

UT PUT: 0.94 m^3 / hr.

1037.64 *Birr/m^3*

Equipment Cost (1:03)			
Type of Equipment	*No.*	Hourly Rental	Hourly Cost
mixer	*1*	62.73	62.73
vibrator	*1*	27.60	27.6
Total (1:03)			*90.33*

C=Equipment Unit Cost *96.35 Br./m^3*

Total of (1:03)

Daily Output

902.30 Birr/m^3

72.18 "

63.16 "

1037.64 Birr/m^3

1037.64 *Birr/m^3*

_____Data collected by _____Prepared checked by _____Approved by

'UT: 1.38 m^3 / hr.

' *PUT:* 1.38 m^3 / hr.

2181.62 *Birr/m^3*

Equipment Cost (1:03)			
Type of Equipment	*No.*	Hourly Rental	Hourly Cost
mixer	*1*	62.73	62.73
vibrator	*1*	27.60	27.6
Total (1:03)			*90.33*

C=Equipment Unit Cost *65.69 Br./m^3*

Total of (1:03)

Daily Output

2020.02 Birr/m^3

161.60 "

0.00 "

2181.62 Birr/m^3

2181.62 *Birr/m^3*

_____Data collected by _____Prepared checked by _____Approved by

'UT: 1.5 m^3 / hr.

ι Vibrator 1.5 m^3 / hr.

2656.40 Birr/m^3

Equipment Cost (1:03)			
Type of Equipment	No.	Hourly Rental	Hourly Cost
Mixer	1	62.73	62.73
Vibrator	1	27.60	27.6
			0
Total (1:03)			90.33
			60.22

C= Equipment Unit Cost **60.22** Br./m^2

Total of (1:03)

Hourly output: _____

2159.67 Birr/m^2

172.77 "

323.95 "

2656.40 Birr/m^3

0.3552

0.03552

_____Data collected by _____Prepared checked by _____Approved by

'UT: 1.5 m^3 / hr.

ι Vibrator 1.5 m^3 / hr.

888.58 Birr/m^3

Equipment Cost (1:03)			
Type of Equipment	No.	Hourly Rental	Hourly Cost
Mixer	1	62.73	62.73
Vibrator	1	27.60	27.6
			0
Total (1:03)			90.33
			60.22

C= Equipment Unit Cost **60.22** Br./m^2

Total of (1:03)

Hourly output: _____

772.67 Birr/m^2

61.81 "

54.09 "

888.58 Birr/m^3

_____Data collected by _____Prepared checked by _____Approved by

'UT: 1.063 m^3 / hr.

Vibrator 1.063 m^3 / hr.

2939.7 Birr/m^3

Equipment Cost (1:03)			
Type of Equipment	No.	Hourly Rental	Hourly Cost
Mixer	1	62.73	62.73
Vibrator	1	27.60	27.6
			0
Total (1:03)			90.33

Br./m3 85.01647

C= Equipment Unit Cost **85.02** Br./m^2

Total of (1:03)

Hourly output: _____

2389.99 Birr/m^2

191.20 "

358.50 "

2939.7 Birr/m^3

_____Data collected by _____Prepared checked by _____Approved by

'UT: 1.31 m^3 / hr.

ı Vibrator 1.31 m^3 / hr.

2875.62 Birr/m^3

Equipment Cost (1:03)			
Type of Equipment	No.	Hourly Rental	Hourly Cost
Mixer	1	62.73	62.73
Vibrator	1	27.60	27.6
tools	16	1.28	20.48
			0
Total (1:03)			110.81

Br./m3 84.42667

C= Equipment Unit Cost **84.43** Br./m^2

Total of (1:03)

Hourly output: _____

2337.9 Birr/m^2

187.03 "

350.69 "

2875.62 Birr/m^3

_____Data collected by _____Prepared checked by _____Approved by

UT: 1.25 m^3 / hr.

Vibrator 1.25 m^3 / hr.

951.82 Birr/m^3

Equipment Cost (1:03)			
Type of Equipment	No.	Hourly Rental	Hourly Cost
Mixer	1	62.73	62.73
Vibrator	1	27.60	27.6
tools	16	1.28	20.48
			0
Total (1:03)			110.81

C= Equipment Unit Cost **88.65** Br./m^2

Total of (1:03)

Hourly output: _____

827.7 Birr/m^2

66.21 "

57.94 "

_____Data collected by _____Prepared checked by _____Approved by

951.82 Birr/m³

'UT: 1.38 m³ / hr.

‹ Vibrator 1.38 m³ / hr.

908.76 Birr/m³

163.58

Equipment Cost (1:03)			
Type of Equipment	No.	Hourly Rental	Hourly Cost
Mixer	1	62.73	62.73
Vibrator	1	27.60	27.6
			0
Total (1:03)			90.33

65.69455

C= Equipment Unit Cost **65.69** Br./m²

Total of (1:03)

Hourly output: _____

790.22 Birr/m²

63.22 "

_____Data collected by _____Prepared checked by _____Approved by

55.32 "

908.76 Birr/m^3

'UT: 1.5 m^3 / hr.

Vibrator 1.5 m^3 / hr.

888.58 Birr/m^3

88.86

Equipment Cost (1:03)			
Type of Equipment	No.	Hourly Rental	Hourly Cost
Mixer	1	62.73	62.73
Vibrator	1	27.60	27.6
			0
Total (1:03)			90.33

60.22

C= Equipment Unit Cost **60.22** Br./m^2

Total of (1:03)

Hourly output: _____

772.67 Birr/m^2

_____Data collected by _____Prepared checked by _____Approved by

61.81 "

54.09 "

888.58 Birr/m^3

'UT: 1.5 m^3 / hr.

Vibrator 1.5 m^3 / hr.

888.58 Birr/m^3

151.06

Equipment Cost (1:03)			
Type of Equipment	No.	Hourly Rental	Hourly Cost
Mixer	1	62.73	62.73
Vibrator	1	27.60	27.6
			0
Total (1:03)			90.33

60.22

C= Equipment Unit Cost **60.22** Br./m^2

Total of (1:03)

Hourly output: _____

_____Data collected by _____Prepared checked by _____Approved by

772.67	Birr/m²
61.81	"
54.09	"
888.58	Birr/m³

'UT: 1.5 m³ / hr.

Vibrator 1.5 m³ / hr.

888.58	Birr/m³
159.94	

Equipment Cost (1:03)			
Type of Equipment	No.	Hourly Rental	Hourly Cost
Mixer	1	62.73	62.73
Vibrator	1	27.60	27.6
			0
Total (1:03)			90.33
			60.22

C= Equipment Unit Cost **60.22** Br./m²

Total of (1:03)

_____Data collected by _____Prepared checked by _____Approved by

Hourly output: _____

772.67 Birr/m^2
61.81 "
54.09 "
888.58 Birr/m^3

'UT: 1.063 m^3 / hr.
ι Vibrator Crain/Lif 1.063 m^3 / hr.
980.0 Birr/m^3

Equipment Cost (1:03)			
Type of Equipment	No.	Hourly Rental	Hourly Cost
Mixer	1	62.73	62.73
Vibrator	1	27.60	27.6
			0
Total (1:03)			90.33

Br./m3 85.01647

C= Equipment Unit Cost **85.0** Br./m^2

_____Data collected by _____Prepared checked by _____Approved by

Total of (1:03)

Hourly output: _____

852.2 Birr/m^2

68.17 "

59.65 "

980.0 Birr/m^3

'UT: 1.31 m^3 / hr.

ɛ Vibrator Crain/Lif 1.31 m^3 / hr.

920.29 Birr/m^3

Equipment Cost (1:03)			
Type of Equipment	No.	Hourly Rental	Hourly Cost
Mixer	1	62.73	62.73
Vibrator	1	27.60	27.6
			0
Total (1:03)			90.33

Br./m3 68.82286

_____Data collected by _____Prepared checked by _____Approved by

C= Equipment Unit Cost **68.82** Br./m^2

Total of (1:03)

Hourly output: _____

800.3 Birr/m^2

64.02 "

56.02 "

920.29 Birr/m^3

'UT: 0.94 m^3 / hr

' PUT: 0.94 m^3 / hr

1012.9 Birr/m^3

Equipment Cost (1:03)			
Type of Equipment	No.	Hourly Rental	Hourly Cost
Mixer	1	62.73	62.73
Vibrator	1	27.60	27.6
			0
			0
			0
			0
			0
			0

_____Data collected by _____Prepared checked by _____Approved by

Total (1:03)	90.33

C=Equipment Unit Cost 96.352 Br./m³

Total of (1:03)

Daily Output

888.51 Birr/m³

71.08 "

62.20 "

1012.90 Birr/m³

1012.9 Birr/m³

UT: 1.5 m³ / hr

PUT: 1.5 m³ / hr

845.90 Birr/m³

Equipment Cost (1:03)

Type of Equipment	No.	Hourly Rental	Hourly Cost
Mixer	1	62.73	62.73
Vibrator	1	27.60	27.6

_____Data collected by _____Prepared checked by _____Approved by

Total (1:03)			90.33

C=Equipment Unit Cost 60.22 Br./m³

Total of (1:03)

Daily Output

742.02 Birr/m³
59.36 "
51.94 "
845.90 Birr/m³

845.90 Birr/m³

UT: 1.06 m³ / hr

PUT: 1.06 m³ / hr

930.73 Birr/m³

Equipment Cost (1:03)

Type of Equipment	No.	Hourly Rental	Hourly Cost
Mixer	1	62.73	62.73
Vibrator	1	27.60	27.6

_____Data collected by _____Prepared checked by _____Approved by

Total (1:03)			90.33

C=Equipment Unit Cost 85.016471 Br./m³

Total of (1:03)

Daily Output

816.43 Birr/m³
65.31 "
57.15 "
930.73 Birr/m³

930.73 Birr/m³

UT: 1.31 m³ / hr
PUT: 1.31 m³ / hr

891.4 Birr/m³

Equipment Cost (1:03)			
Type of Equipment	No.	Hourly Rental	Hourly Cost
Mixer	1	62.73	62.73
Vibrator	1	27.60	27.6

_____Data collected by _____Prepared checked by _____Approved by

Total (1:03)			90.33

C=Equipment Unit Cost 68.822857 Br./m^3

Total of (1:03)

Daily Output

781.93 Birr/m^3

62.55 "

54.74 "

891.40 Birr/m^3

891.4 Birr/m^3

'UT: 1.50 m^3 / hr

' PUT: 1.50 m^3 / hr

860.0 Birr/m^3

86.00 Birr/m^3

Equipment Cost (1:03)			
Type of Equipment	No.	Hourly Rental	Hourly Cost
Mixer	1	62.73	62.73
Vibrator	1	27.60	27.6

_____Data collected by _____Prepared checked by _____Approved by

Total (1:03)			90.33

C=Equipment Unit Cost 60.22 Br./m³

Total of (1:03)

Daily Output

754.35 Birr/m³

60.35 "

52.80 "

859.96 Birr/m³

860.0 Birr/m³

'UT: 1.31 m³ / hr

UT PUT: 1.31 m³ / hr

944.98 Birr/m³

Equipment Cost (1:03)			
Type of Equipment	No.	Hourly Rental	Hourly Cost
Mixer	1	62.73	62.73
Vibrator	1	27.60	27.6

_____Data collected by _____Prepared checked by _____Approved by

Total (1:03)			90.33

C=Equipment Unit Cost 68.822857 Br./m^3

Total of (1:03)

Daily Output

828.93 Birr/m^3

66.31 "

58.03 "

944.98 Birr/m^3

945.0 Birr/m^3

'UT: 0.94 m^3 / hr

UT PUT: 0.94 m^3 / hr

976.7 Birr/m^3

Equipment Cost (1:03)			
Type of Equipment	No.	Hourly Rental	Hourly Cost
Mixer	1	62.73	62.73
Vibrator	1	27.60	27.6

_____Data collected by _____Prepared checked by _____Approved by

Total (1:03)			90.33

C=Equipment Unit Cost 96.352 Br./m³

Total of (1:03)

Daily Output

856.78 Birr/m³

68.54 "

59.97 "

976.73 Birr/m³

976.7 Birr/m³

UT: 1.31 m³ / hr

PUT: 1.31 m³ / hr

891.4 Birr/m³

Equipment Cost (1:03)			
Type of Equipment	No.	Hourly Rental	Hourly Cost
Mixer	1	62.73	62.73
Vibrator	1	27.60	27.6

_____Data collected by _____Prepared checked by _____Approved by

Total (1:03)			90.33

C=Equipment Unit Cost 68.822857 Br./m^3

Total of (1:03)

Daily Output

781.93 Birr/m^3

62.55 "

54.74 "

891.40 Birr/m^3

891.4 Birr/m^3

JURLY OUTPUT: 28.13 kg/hr.

NT: 28.13 kg/hr.

1.74 Birr/kg.

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

_____Data collected by _____Prepared checked by _____Approved by

tools	2	1.28	2.56
Total (1:03)			2.56

Equipment Unit Cost 0.09 Birr/kg.

Total of (1:03)

Hourly output: _____

1.51	Birr/kg.	1.51
0.12	"	
0.11	"	
1.74	Birr/kg.	

)URLY OUTPUT: 32.5 kg/hr.

NT: 32.5 kg/hr.

260

1.73 Birr/kg.

Equipment Cost (1:03)			
Type of Equipment	No.	Hourly Rental	Hourly Cost
tools	2	1.28	2.56

_____Data collected by _____Prepared checked by _____Approved by

Total (1:03)			2.56

Equipment Unit Cost **0.08** Birr/kg.

Total of (1:03)

Hourly output: _____

1.50	Birr/kg.
0.12	"
0.11	"
1.73	Birr/kg.

'UT: 38.75 kg./hr

38.75 kg./hr 310

1.26 Birr/kg.

Equipment Cost (1:03)			
Type of Equipment	No.	Hourly Rental	Hourly Cost
tools	2	1.28	2.56

_____Data collected by _____Prepared checked by _____Approved by

Total (1:03)			2.56

C= Equipment Unit Cost **0.06606452** Birr/kg.

Total of (1:03)

Hourly output: _____

1.10 Birr/kg.

0.09 "

0.08 "

1.261 Birr/kg.

'UT: 41.25 kg./hr

41.25 kg./hr

1.18 Birr/kg.

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

_____Data collected by _____Prepared checked by _____Approved by

tools	2	1.28	2.56
Total (1:03)			2.56

C= Equipment Unit Cost **0.06206061** Birr/kg.

Total of (1:03)

Hourly output: _____

1.03 Birr/kg.

0.08 "

0.07 "

1.185 Birr/kg.

'UT: 44.38 kg./hr 355

44.38 kg./hr

1.10 Birr/kg.

Equipment Cost (1:03)

_____Data collected by _____Prepared checked by _____Approved by

Type of Equipment	No.	Hourly Rental	Hourly Cost
tools	2	1.28	2.56
Total (1:03)			2.56

C= Equipment Unit Cost **0.05769014** Birr/kg.

Total of (1:03)

Hourly output: _____

0.96 Birr/kg.

0.08 "

0.07 "

1.101 Birr/kg.

'UT: 23.13 kg/hr.

23.13 kg/hr.

_____Data collected by _____Prepared checked by _____Approved by

2.11 Birr/kg.

Equipment Cost (1:03)			
Type of Equipment	No.	Hourly Rental	Hourly Cost
tools	2	1.28	2.56
Total (1:03)			2.56

Equipment Unit Cost 0.11 Birr/kg.

Total of (1:03)

Hourly output: _____

1.84 Birr/kg. 1.84

0.15 "

0.13 "

2.11 Birr/kg.

'UT: 26.25 kg/hr.

26.25 kg/hr.

1.86 Birr/kg.

_____Data collected by _____Prepared checked by _____Approved by

Equipment Cost (1:03)			
Type of Equipment	No.	Hourly Rental	Hourly Cost
tools	2	1.28	2.56
Total (1:03)			2.56

Equipment Unit Cost **0.10** Birr/kg.

Total of (1:03)

Hourly output: _____

1.62 Birr/kg.

0.13 "

0.11 "

1.86 Birr/kg.

'UT: 34.38 kg./hr

34.38 kg./hr

1.42 Birr/kg.

_____Data collected by _____Prepared checked by _____Approved by

Equipment Cost (1:03)			
Type of Equipment	No.	Hourly Rental	Hourly Cost
tools	2	1.28	2.56
Total (1:03)			2.56

C= Equipment Unit Cost **0.074** Birr/kg.

Total of (1:03)

Hourly output: _____

1.24 Birr/kg.

0.10 "

0.09 "

1.422 Birr/kg.

14.583333

'UT: 36.88 kg./hr

_____Data collected by _____Prepared checked by _____Approved by

36.88 kg./hr

1.33 Birr/kg.

Equipment Cost (1:03)			
Type of Equipment	No.	Hourly Rental	Hourly Cost
tools	2	1.28	2.56
Total (1:03)			2.56

C= Equipment Unit Cost **0.06942373** Birr/kg.

Total of (1:03)

Hourly output: _____

1.15 Birr/kg.

0.09 "

0.08 "

1.325 Birr/kg.

_____Data collected by _____Prepared checked by _____Approved by

'UT: 38.13 kg./hr

38.13 kg./hr

1.28 Birr/kg.

Equipment Cost (1:03)			
Type of Equipment	No.	Hourly Rental	Hourly Cost
tools	2	1.28	2.56
Total (1:03)			2.56

C= Equipment Unit Cost **0.06714754** Birr/kg.

Total of (1:03)

Hourly output: _____

1.11 Birr/kg.

0.09 "

0.08 "

1.282 Birr/kg.

_____Data collected by _____Prepared checked by _____Approved by

)URLY OUTPUT: 0.63 m^3 / hr.

NT: Mixer & Vibrator 0.63 m^3 / hr.

1316.83 Birr/m^3

Equipment Cost (1:03)			
Type of Equipment	No.	Hourly Rental	Hourly Cost
Mixer	1	62.73	62.73
Vibrator	3	27.60	82.8
Total (1:03)			145.53

C= Equipment Unit Cost : **232.85** Br./m^3

Total of (1:03)

Hourly output:

1145.07 Birr/m^3

91.61 "

80.15 "

1316.83 Birr/m^3

_____Data collected by _____Prepared checked by _____Approved by

)URLY OUTPUT: 1.06 m^3 / hr.

NT: Mixer & Vibrator 1.06 m^3 / hr.

1055.6 Birr/m^3

Equipment Cost (1:03)			
Type of Equipment	No.	Hourly Rental	Hourly Cost
Mixer	1	62.73	62.73
Vibrator	3	27.60	82.8
Total (1:03)			145.53

C= Equipment Unit Cost : **137.0** Br./m^3

Total of (1:03)		145.53
Hourly output:		1.0625
917.93	Birr/m^3	59.04
73.43	"	77.929412
64.26	"	
1055.6	Birr/m^3	

0.0608695652

6.0869565217

105.8

66.6*.15

9.99 1.5

76.666667 66.666667

73.333333

_____Data collected by _____Prepared checked by _____Approved by

)URLY OUTPUT: 8.33 m² / hr.

NT: Mixer & Vibrator 8.33 m² / hr.

149.99 Birr/m²

Equipment Cost (1:03)			
Type of Equipment	No.	Hourly Rental	Hourly Cost
Mixer	1	62.73	62.73
Vibrator	3	27.60	82.8
Total (1:03)			145.53

110.94
31.52
16.22
158.68

C= Equipment Unit Cost : **17.48** Br./m²

Total of (1:03)

Hourly output:

130.43 Birr/m²
10.43 "
9.13 "
149.99 Birr/m²

_____Data collected by _____Prepared checked by _____Approved by

'UT: 1 m^3 / hr.

ι Vibrator 1 m^3 / hr.

1015.5 Birr/m^2

Equipment Cost (1:03)			
Type of Equipment	No.	Hourly Rental	Hourly Cost
Mixer	1	62.73	62.73
Vibrator	1	27.60	27.6
			0
Total (1:03)			90.33
			90.33

C= Equipment Unit Cost **90.33** Br./m^2

Total of (1:03)

Hourly output: _____

883.00 Birr/m^2

70.64 "

61.81 "

1015.5 Birr/m^2

_____Data collected by _____Prepared checked by _____Approved by

)URLY OUTPUT: 1.31 m^3 / hr.

NT: Mixer & Vibrator 1.31 m^3 / hr.

936.2 Birr/m^2

Equipment Cost (1:03)			
Type of Equipment	No.	Hourly Rental	Hourly Cost
Mixer	1	62.73	62.73
Vibrator	1	27.60	27.6
Total (1:03)			90.33

C= Equipment Unit Cost **68.82** Br./m^2

Total of (1:03)

Hourly output: _____

814.1 Birr/m^2

65.12 "

56.98 "

936.16 Birr/m^2

_____Data collected by _____Prepared checked by _____Approved by

'UT: 0.625 m^3 / hr.

ι Vibrator Crain 0.625 m^3 / hr.

1200.1 Birr/m^2

Equipment Cost (1:03)			
Type of Equipment	No.	Hourly Rental	Hourly Cost
Mixer	1	62.73	62.73
Vibrator	1	27.60	27.6
Total (1:03)			90.33

C= Equipment Unit Cost **144.5** Br./m^2

Total of (1:03)

Hourly output: _____

1043.5 Birr/m^2

83.48 "

73.05 "

1200.1 Birr/m^2

_____Data collected by _____Prepared checked by _____Approved by

'UT: 1.06 m^3 / hr.

Vibrator,Crane 1.06 m^3 / hr.

980.0 Birr/m^2

Equipment Cost (1:03)			
Type of Equipment	No.	Hourly Rental	Hourly Cost
Mixer	1	62.73	62.73
Vibrator	1	27.60	27.6
Total (1:03)			90.33

146.99882

Br./m3

C= Equipment Unit Cost **85.0** Br./m^2

Total of (1:03)

Hourly output: _____

852.17 Birr/m^2

68.17 "

59.65 "

980.0 Birr/m^2

_____Data collected by _____Prepared checked by _____Approved by

'UT: 8.325 m^3 / hr.

Vibrator,Crane 8.325 m^3 / hr.

139.99 Birr/m^3

Equipment Cost (1:03)			
Type of Equipment	No.	Hourly Rental	Hourly Cost
Mixer	1	62.73	62.73
Vibrator	1	27.60	27.6
Total (1:03)			90.33

C= Equipment Unit Cost **10.85** Br./m^2

Total of (1:03)

Hourly output: _____

121.73 Birr/m^2

9.74 "

8.52 "

139.99 Birr/m^2

_____Data collected by _____Prepared checked by _____Approved by

'UT: 1.25 m^3 / hr.

Vibrator, 1.25 m^3 / hr.

932.98 Birr/m^2

158.61

Equipment Cost (1:03)			
Type of Equipment	No.	Hourly Rental	Hourly Cost
Mixer	1	62.73	62.73
Vibrator	1	27.60	27.6
Total (1:03)			90.33

Br./m3

C= Equipment Unit Cost **72.26** Br./m^2

Total of (1:03)

Hourly output: _____

811.29 Birr/m^2

64.90 "

56.79 "

933.0 Birr/m^2

_____Data collected by _____Prepared checked by _____Approved by

'UT: 1.25 m^3 / hr.

Vibrator, 1.25 m^3 / hr.

932.03 Birr/m^2

167.76

Equipment Cost (1:03)			
Type of Equipment	No.	Hourly Rental	Hourly Cost
Mixer	1	62.73	62.73
Vibrator	1	27.60	27.6
Total (1:03)			90.33

Br./m3

C= Equipment Unit Cost **72.26** Br./m^2

Total of (1:03)

Hourly output: _____

810.46 Birr/m^2

64.84 "

56.73 "

932.0 Birr/m^2

_____Data collected by _____Prepared checked by _____Approved by

'UT: 1 m^3 / hr.

Vibrator, 1 m^3 / hr.

999.58 Birr/m^2

Equipment Cost (1:03)			
Type of Equipment	No.	Hourly Rental	Hourly Cost
Mixer	1	62.73	62.73
Vibrator	1	27.60	27.6
Total (1:03)			90.33

Br./m3

C= Equipment Unit Cost **90.33** Br./m^2

Total of (1:03)

Hourly output: _____

869.20 Birr/m^2

69.54 "

60.84 "

999.6 Birr/m^2

_____Data collected by _____Prepared checked by _____Approved by

'UT: 1.31 m^3 / hr.

Vibrator 1.31 m^3 / hr.

921.2 Birr/m^2

Equipment Cost (1:03)			
Type of Equipment	No.	Hourly Rental	Hourly Cost
Mixer	1	62.73	62.73
Vibrator	1	27.60	27.6
Total (1:03)			90.33

Br./m3

C= Equipment Unit Cost **68.82** Br./m^2

Total of (1:03)

Hourly output: _____

801.0 Birr/m^2

64.08 "

56.07 "

921.2 Birr/m^2

_____Data collected by _____Prepared checked by _____Approved by

UT:	5.31 m³ / hr.	57	10	
Vibrator	5.31 m³ / hr.	42		7.3684211

714.7 Birr/m²

71.47 Birr/m³

Equipment Cost (1:03)			
Type of Equipment	No.	Hourly Rental	Hourly Cost
Mixer	1	62.73	62.73
Vibrator	1	27.60	27.6
Total (1:03)			90.33

Br./m3

C= Equipment Unit Cost **17.00** Br./m²

Total of (1:03)

Hourly output: _____

621.5 Birr/m²

49.72 "

43.51 "

714.7 Birr/m²

_____Data collected by _____Prepared checked by _____Approved by

'UT: 1.50 m^3 / hr.

Vibrator 1.50 m^3 / hr.

698.1 Birr/m^2

125.65 Birr/m^2

Equipment Cost (1:03)			
Type of Equipment	No.	Hourly Rental	Hourly Cost
Mixer	1	62.73	62.73
Vibrator	1	27.60	27.6
Total (1:03)			90.33

Br./m3

C= Equipment Unit Cost **60.22** Br./m^2

Total of (1:03)

Hourly output: _____

607.0 Birr/m^2

48.56 "

42.49 "

698.1 Birr/m^2

_____Data collected by _____Prepared checked by _____Approved by

)URLY OUTPUT: 0.50 pcs / hr.

NT: Mixer ,Vibrator, Cra 0.50 pcs / hr.

447.9 Birr/pcs

Equipment Cost (1:03)			
Type of Equipment	No.	Hourly Rental	Hourly Cost
Mixer	1	62.73	62.73
Vibrator	1	27.60	27.6
Total (1:03)			90.33

Br./pcs 180.66

C= Equipment Unit Cost **180.7** Br./pcs

Total of (1:03)

Hourly output: _____

389.44 Birr/pcs

31.15 "

27.26 "

447.9 Birr/pcs

)URLY OUTPUT: 0.63 m^3 / hr.

_____Data collected by _____Prepared checked by _____Approved by

NT: Mixer ,Vibrator 0.63 m^3 / hr.

1178.32 Birr/m^2

Equipment Cost (1:03)			
Type of Equipment	No.	Hourly Rental	Hourly Cost
Mixer	1	62.73	62.73
Vibrator	1	27.60	27.6
Total (1:03)			90.33

Br./m3 144.528

C= Equipment Unit Cost **144.5** Br./m^2

Total of (1:03)

Hourly output: _____

1024.6 Birr/m^2

81.97 "

71.72 "

1178.32 Birr/m^2

OURLY OUTPUT: 1.06 m^3 / hr.

NT: Mixer ,Vibrator 1.06 m^3 / hr.

_____Data collected by _____Prepared checked by _____Approved by

230.68 Birr/m²

Equipment Cost (1:03)			
Type of Equipment	No.	Hourly Rental	Hourly Cost
Mixer	1	0.00	0
Vibrator	1	0.00	0
Total (1:03)			0

Br./m3 0

C= Equipment Unit Cost **0.0** Br./m²

Total of (1:03)

Hourly output: _____

200.6 Birr/m²

16.05 "

14.04 "

230.68 Birr/m²

'UT: 8.325 m² / hr.

Vibrator, 8.325 m² / hr.

_____Data collected by _____Prepared checked by _____Approved by

136.8 Birr/m²

Equipment Cost (1:03)			
Type of Equipment	No.	Hourly Rental	Hourly Cost
Mixer	1	62.73	62.73
Vibrator	1	27.60	27.6
Total (1:03)			90.33

C= Equipment Unit Cost **10.85** Br./m²

Total of (1:03)

Hourly output: _____

118.98 Birr/m²

9.52 "

8.33 "

136.83 Birr/m²

)URLY OUTPUT: 1 m² / hr.

NT: Mixer ,Vibrator 1 m² / hr.

_____Data collected by _____Prepared checked by _____Approved by

978.51 Birr/m²

Equipment Cost (1:03)			
Type of Equipment	No.	Hourly Rental	Hourly Cost
Mixer	1	62.73	62.73
Vibrator	1	27.60	27.6
Total (1:03)			90.33

C= Equipment Unit Cost **90.33** Br./m²

Total of (1:03)

Hourly output: _____

850.88 Birr/m²

68.07 "

59.56 "

978.51 Birr/m²

)URLY OUTPUT: 1.31 m² / hr.

NT: Mixer ,Vibrator 1.31 m² / hr.

_____Data collected by _____Prepared checked by _____Approved by

899.2 Birr/m²

Equipment Cost (1:03)			
Type of Equipment	No.	Hourly Rental	Hourly Cost
Mixer	1	62.73	62.73
Vibrator	1	27.60	27.6
Total (1:03)			90.33

C= Equipment Unit Cost **68.82** Br./m²

Total of (1:03)

Hourly output: _____

781.93 Birr/m²

62.55 "

54.74 "

899.2 Birr/m²

UT: 1.5 m³ / hr.

PUT: 1.5 m³ / hr.

1307.6 Birr/m³

_____Data collected by _____Prepared checked by _____Approved by

Equipment Cost (1:03)			
Type of Equipment	No.	Hourly Rental	Daily Cost
mixer	1	62.73	62.73
vibrator	1	27.60	27.6
Total (1:03)			90.33

0.252
0.336
0.24
0.219

C=Equipment Unit Cost 60.22 Br./m^3

Total of (1:03)

Daily Output

1147.05 Birr/m^3
91.76 "
80.29 "
1307.64 Birr/m^3

1307.6 Birr/m^3

)UT: *1.44 m^2 / hr*

PUT: 1.44 m^2/ hr

_____Data collected by _____Prepared checked by _____Approved by

131.0 *Birr/m²*

Type of Equipment	No.	Hourly Rental	hourly Cost
mixer	1	*62.7*	*62.73*
vibrator	1	*27.60*	
Total (1:03)			*62.73*

C=Equipment Unit Cost *43.64 Birr/m²*

Total of (1:03)

Daily Output

114.92 Birr/m²

9.19 Birr/m²

8.04 Birr/m²

131.01 Birr/m²

131.0 *Birr/m²*

'UT: *1.44 m² / hr*

_____Data collected by _____Prepared checked by _____Approved by

PUT: *1.44 m²/ hr*

145.8 *Birr/m²*

Type of Equipment	No.	Hourly Rental	hourly Cost
mixer	1	*62.7*	*62.73*
vibrator	1	*27.60*	
Total (1:03)			*62.73*

3.65	0.219	0.292
0.44	0.0264	0.0352
0.81	0.0486	0.0648
0.24		0.0192

C=Equipment Unit Cost *43.64 Birr/m²*

Total of (1:03)

Daily Output

127.89 Birr/m²

10.23 Birr/m²

8.95 Birr/m²

145.79 Birr/m²

145.8 *Birr/m²*

UT: 0.55 m²/ hr.

UT PUT: 0.55 m³ / hr.

_____Data collected by _____Prepared checked by _____Approved by

189.08 Birr/m²

Equipment Cost (1:03)			
Type of Equipment	No.	Hourly Rental	hourly Cost
tools	2	1.28	1.6
Total (1:03)			1.6

pment Unit Cost 2.91 Birr/m²

Total of (1:03)

Daily output:

164.41 Birr/m²

13.15 Birr/m²

11.51 Birr/m²

189.08 Birr/m²

189.08 Birr/m2

'UT: 0.58 m²/ hr.

UT PUT: 0.58 m³ / hr.

_____Data collected by _____Prepared checked by _____Approved by

185.05 Birr/m²

Equipment Cost (1:03)			
Type of Equipment	No.	Hourly Rental	Daily Cost
tools	2	1.28	1.6
Total (1:03)			1.6

pment Unit Cost 2.78 Birr/m²

Total of (1:03)

Daily output:

160.91 Birr/m²

12.87 Birr/m²

11.26 Birr/m²

185.05 Birr/m²

185.05 Birr/m2

'UT: 0.59 m²/hr

UT PUT: 0.59 m²/hr.

270.03 Birr/m²

_____Data collected by _____Prepared checked by _____Approved by

Equipment Cost (1:03)			
Type of Equipment	No.	Hourly Rental	Daily Cost
tools	2	1.28	2.56
Total (1:03)			2.56

0.5

0.6

1.1

pment Unit Cost 4.36 Birr/m²

Total of (1:03)

Daily output:

234.81 Birr/m²

18.78 Birr/m²

16.44 Birr/m²

270.03 Birr/m²

270.03 Birr/m2

URLY OUTPUT: 0.54 m²/hr

T HOURLY OUT PUT: 0.54 m²/hr.

278.26 Birr/m²

_____Data collected by _____Prepared checked by _____Approved by

Equipment Cost (1:03)			
Type of Equipment	No.	Hourly Rental	Daily Cost
tools	2	1.28	2.56
Total (1:03)			2.56

pment Unit Cost 4.76 Birr/m²

Total of (1:03)

Daily output:

241.97 Birr/m²

19.36 Birr/m²

16.94 Birr/m²

278.26 Birr/m²

278.26 Birr/m2

'UT: 0.59 m²/hr.

UT PUT: 0.59 m²/hr.

295.90 Birr/m²

Equipment Cost (1:03)

_____Data collected by _____Prepared checked by _____Approved by

Type of Equipment	No.	Hourly Rental	Daily Cost
tools	2	1.28	2.56
Total (1:03)			2.56

pment Unit Cost 4.36 Birr/m²

Total of (1:03)

Daily output:

257.31 Birr/m²

20.58 Birr/m²

18.01 Birr/m²

295.90 Birr/m²

295.90 Birr/m2

'UT: 0.59 m²/hr

UT PUT: 0.59 m²/hr.

304.53 Birr/m²

Equipment Cost (1:03)

_____Data collected by _____Prepared checked by _____Approved by

Type of Equipment	No.	Hourly Rental	Daily Cost
tools	2	1.28	2.56
Total (1:03)			2.56

pment Unit Cost 4.36 Birr/m²

Total of (1:03)

Daily output:

264.81 Birr/m²
21.18 Birr/m²
18.54 Birr/m²
304.53 Birr/m²

304.53 Birr/m2

'UT: 0.56 m²/hr.

UT PUT: 0.56 m²/hr.

217.19 Birr/m²

Equipment Cost (1:03)

_____Data collected by _____Prepared checked by _____Approved by

Type of Equipment	No.	Hourly Rental	Daily Cost
tools	2	1.28	2.56
Total (1:03)			2.56

pment Unit Cost 4.55 Birr/m²

Total of (1:03)

Daily output:

197.44 Birr/m²

19.74 Birr/m²

0.00 Birr/m²

217.19 Birr/m²

217.19 Birr/m2

URLY OUTPUT: 0.54 m²/hr.

T HOURLY OUT PUT: 0.54 m²/hr.

320.98 Birr/m²

Equipment Cost (1:03)

_____Data collected by _____Prepared checked by _____Approved by

Type of Equipment	No.	Hourly Rental	Daily Cost
tools	2	1.28	2.56
Total (1:03)			2.56

pment Unit Cost 4.76 Birr/m²

Total of (1:03)

Daily output:

279.12 Birr/m²

22.33 Birr/m²

19.54 Birr/m²

320.98 Birr/m²

320.98 Birr/m2

'UT: 0.59 m²/hr.

' PUT: 0.59 m²/hr.

325.68 Birr/m²

Equipment Cost (1:03)

_____Data collected by _____Prepared checked by _____Approved by

Type of Equipment	No.	Daily Rental	Daily Cost
tools	2	1.28	2.56
Total (1:03)			2.56

pment Unit Cost 4.36 Birr/m²

Total of (1:03)

Daily output:

283.20 Birr/m²

22.66 Birr/m²

19.82 Birr/m²

325.68 Birr/m²

325.68 Birr/m2

'UT: 8.00 m²/hr.

UT PUT: 8.00 m²/hr.

20.52 Birr/m²

Equipment Cost (1:03)

_____Data collected by _____Prepared checked by _____Approved by

Type of Equipment	No.	Daily Rental	Daily Cost
tools	3	1.28	3.84
Total (1:03)			3.84

pment Unit Cost 0.48 Birr/m²

Total of (1:03)

Daily output:

17.85 Birr/m²

1.43 Birr/m²

1.25 Birr/m²

20.52 Birr/m²

20.52 Birr/m2

'UT: 7.13 m²/hr.

UT PUT: 7.13 m²/hr.

25.89 Birr/m²

Equipment Cost (1:03)

_____Data collected by _____Prepared checked by _____Approved by

Type of Equipment	No.	Daily Rental	Daily Cost
tools	4	1.28	5.12
Total (1:03)			5.12

pment Unit Cost 0.72 Birr/m²

Total of (1:03)

Daily output:

22.51 Birr/m²
1.80 Birr/m²
1.58 Birr/m²
25.89 Birr/m²

25.89 Birr/m2

'UT: 8.00 m²/hr.

UT PUT: 8.00 m²/hr.

26.75 Birr/m²

Equipment Cost (1:03)

_____Data collected by _____Prepared checked by _____Approved by

Type of Equipment	No.	Daily Rental	Daily Cost
tools	5	1.28	6.4
Total (1:03)			6.4

pment Unit Cost 0.80 Birr/m²

Total of (1:03)

Daily output:

23.26 Birr/m²
1.86 Birr/m²
1.63 Birr/m²
26.75 Birr/m²

26.75 Birr/m2

)URLY OUTPUT: 3.19 m³ / hr.

NT: Crane 3.19 m³ / hr.

1328.40 Birr/m³

2301.09

Equipment Cost (1:03)

_____Data collected by _____Prepared checked by _____Approved by

Type of Equipment	No.	Hourly Rental	Hourly Cost
Concr. Bucket	1	770.00	770
Vibrator	2	27.60	55.2
Crane	1	675.00	675
Total (1:03)			1500.2

C= Equipment Unit Cost : **470.65** Br./m^3

Total of (1:03)

Hourly output:

1155.13 Birr/m^3

92.41 "

80.86 "

1328.40 Birr/m^3

)URLY OUTPUT: 4.38 m^3 / hr.

NT: Crane 4.38 m^3 / hr.

1153.07 Birr/m^3

Equipment Cost (1:03)

_____Data collected by _____Prepared checked by _____Approved by

Type of Equipment	No.	Hourly Rental	Hourly Cost
Concr. Bucket	1	770.00	770
Vibrator	2	27.60	55.2
Crane	1	675.00	675
Total (1:03)			1500.2

C= Equipment Unit Cost : **342.90** Br./m^3

Total of (1:03)

Hourly output:

1002.67 Birr/m^3

80.21 "

70.19 "

1153.07 Birr/m^3

)URLY OUTPUT: 1.13 m^3 / hr.

NT: Mixer & Vibrator 1.13 m^3 / hr.

354.2 Birr/m^3

Equipment Cost (1:03)

_____Data collected by _____Prepared checked by _____Approved by

Type of Equipment	No.	Hourly Rental	Hourly Cost
Concr. Bucket	1	0.00	0
Vibrator	2	0.00	0
Crane	1	0.00	0
Total (1:03)			0

C= Equipment Unit Cost : **0.0** Br./m^3

Total of (1:03) 0

Hourly output: 1.125

306.48 Birr/m^3 0.00

24.52 " 0

23.17 "

354.2 Birr/m^3

0.0654205607

6.5420560748

105.8

)URLY OUTPUT: 4.94 m^3 / hr.

NT: Mixer & Vibrator 4.94 m^3 / hr.

1099.0 Birr/m^3

Equipment Cost (1:03)

_____Data collected by _____Prepared checked by _____Approved by

Type of Equipment	No.	Hourly Rental	Hourly Cost
Concr. Bucket	1	770.00	770
Vibrator	2	27.60	55.2
Crane	1	675.00	675
Total (1:03)			1500.2

C= Equipment Unit Cost : **303.5** Br./m³

Total of (1:03)		1500.2
Hourly output:		4.9425
955.69	Birr/m³	155.79
76.45	"	11.168437
66.90	"	
1099.0	Birr/m³	

0.0608695652
6.0869565217

105.8

)URLY OUTPUT: 7.13 m³ / hr.
NT: Mixer & Vibrator 7.13 m³ / hr.

971.41 Birr/m3
97.14 Birr/m2

Equipment Cost (1:03)

_____Data collected by _____Prepared checked by _____Approved by

Type of Equipment	No.	Hourly Rental	Hourly Cost
Concr. Bucket	1	770.00	770
Vibrator	2	27.60	55.2
Crane	1	675.00	675
Total (1:03)			1500.2

C= Equipment Unit Cost : **210.55** Br./m^2

Total of (1:03)

Hourly output:

844.71 Birr/m^2

67.58 "

59.13 "

971.41 Birr/m^2

)URLY OUTPUT: 8.13 m^3 / hr.

NT: Mixer & Vibrator 8.13 m^3 / hr.

935.84 Birr/m3

187.17 Birr/m2

Equipment Cost (1:03)

_____Data collected by _____Prepared checked by _____Approved by

Type of Equipment	No.	Hourly Rental	Hourly Cost
Concr. Bucket	1	770.00	770
Vibrator	2	27.60	55.2
Crane	1	675.00	675
Total (1:03)			1500.2

C= Equipment Unit Cost : **184.64** Br./m^2

Total of (1:03)

Hourly output:

813.78 Birr/m^2

65.10 "

56.96 "

935.84 Birr/m^2

)URLY OUTPUT: 9.88 m^3 / hr.

NT: Mixer & Vibrator 9.88 m^3 / hr.

890.93 Birr/m3

231.64 Birr/m2

Equipment Cost (1:03)

_____Data collected by _____Prepared checked by _____Approved by

Type of Equipment	No.	Hourly Rental	Hourly Cost
Concr. Bucket	1	770.00	770
Vibrator	2	27.60	55.2
Crane	1	675.00	675
Total (1:03)			1500.2

C= Equipment Unit Cost : **151.92** Br./m^2

Total of (1:03)

Hourly output:

774.73 Birr/m^2

61.98 "

54.23 "

890.93 Birr/m^2

'UT: 6.75 m^3 / hr.

Vibrator 6.75 m^3 / hr.

987.0 Birr/m^3

197.40

Equipment Cost (1:03)

_____Data collected by _____Prepared checked by _____Approved by

Type of Equipment	No.	Hourly Rental	Hourly Cost
Concr. Bucket	1	770.00	770
Vibrator	2	27.60	55.2
Crane	1	675.00	675
Total (1:03)			1500.2

C= Equipment Unit Cost **222.25** Br./m^2

Total of (1:03)

Hourly output: _____

858.27 Birr/m^2

68.66 "

60.08 "

987.0 Birr/m^2

)URLY OUTPUT: 7.25 m^3 / hr.

NT: Mixer & Vibrator 7.25 m^3 / hr.

964.6 Birr/m^2

Equipment Cost (1:03)

_____Data collected by _____Prepared checked by _____Approved by

Type of Equipment	No.	Hourly Rental	Hourly Cost
Concr. Bucket	1	770.00	770
Vibrator	2	27.60	55.2
Crane	1	675.00	675
Total (1:03)			1500.2

C= Equipment Unit Cost **206.92** Br./m²

Total of (1:03)

Hourly output: _____

838.7 Birr/m²

67.10 "

58.71 "

964.55 Birr/m²

URLY OUTPUT: 4.00 ml / hr.

NT: Mixer & Vibrator 4.00 ml / hr.

106.0 Birr/ml

424.19 Birr/pcs

Equipment Cost (1:03)

375

_____Data collected by _____Prepared checked by _____Approved by

Type of Equipment	No.	Hourly Rental	Hourly Cost
Tools	3	1.28	3.84
Total (1:03)			3.84

572

600

611.08

C= Equipment Unit Cost **0.96** Br./ml

Total of (1:03)

Hourly output: _____

91.8 Birr/ml

7.34 "

6.94 "

106.05 Birr/ml

)URLY OUTPUT: 4.00 ml / hr.

NT: Mixer & Vibrator 4.00 ml / hr.

116.4 Birr/m^2

_____Data collected by _____Prepared checked by _____Approved by

Equipment Cost (1:03)			
Type of Equipment	No.	Hourly Rental	Hourly Cost
Tools	3	1.28	3.84
Total (1:03)			3.84

0.0384 0.12288
0.01728
0.031872
0.008064

14

C= Equipment Unit Cost **0.96** Br./m²

Total of (1:03)

Hourly output: _____

100.8 Birr/m²

8.06 "

7.62 "

116.44 Birr/m²

UT: 3.19 m³ / hr.

Vibrator Crain 3.19 m³ / hr.

2345.3 Birr/m²

_____Data collected by _____Prepared checked by _____Approved by

Equipment Cost (1:03)			
Type of Equipment	No.	Hourly Rental	Hourly Cost
Concr. Bucket	1	770.00	770
Vibrator	2	27.60	55.2
Crane	1	675.00	675
Total (1:03)			1500.2

C= Equipment Unit Cost **470.7** Br./m^2

Total of (1:03)

Hourly output: _____

2029.5 Birr/m^2

162.36 "

153.43 "

2345.3 Birr/m^2

'UT: 4.38 m^3 / hr.

Vibrator Crain 4.38 m^3 / hr.

1134.1 Birr/m^2

_____Data collected by _____Prepared checked by _____Approved by

Equipment Cost (1:03)			
Type of Equipment	No.	Hourly Rental	Hourly Cost
Concr. Bucket	1	770.00	770
Vibrator	2	27.60	55.2
Crane	1	675.00	675
Total (1:03)			1500.2

C= Equipment Unit Cost **342.9** Br./m^2

Total of (1:03)

Hourly output: _____

986.2 Birr/m^2

78.89 "

69.03 "

1134.1 Birr/m^2

'UT: 3.38 m^3 / hr.

Vibrator,Crane 3.38 m^3 / hr.

1272.6 Birr/m^2

_____Data collected by _____Prepared checked by _____Approved by

Equipment Cost (1:03)			
Type of Equipment	No.	Hourly Rental	Hourly Cost
Concr. Bucket	1	770.00	770
Vibrator	2	27.60	55.2
Crane	1	675.00	675
Total (1:03)			1500.2

Br./m3

C= Equipment Unit Cost **444.5** Br./m^2

Total of (1:03)

Hourly output: _____

1106.61 Birr/m^2

88.53 "

77.46 "

1272.6 Birr/m^2

'UT: 4.94 m^3 / hr.

Vibrator,Crane 4.94 m^3 / hr.

1080.8 Birr/m^2

_____Data collected by _____Prepared checked by _____Approved by

Equipment Cost (1:03)			
Type of Equipment	No.	Hourly Rental	Hourly Cost
Concr. Bucket	1	770.00	770
Vibrator	2	27.60	55.2
Crane	1	675.00	675
Total (1:03)			1500.2

Br./m3

C= Equipment Unit Cost **303.8** Br./m²

Total of (1:03)

Hourly output: _____

939.84 Birr/m²

75.19 "

65.79 "

1080.8 Birr/m²

'UT: 7.13 m³ / hr.

Vibrator,Crane 7.13 m³ / hr.

953.63 Birr/m3

_____Data collected by _____Prepared checked by _____Approved by

95.36 Birr/m2

Equipment Cost (1:03)			
Type of Equipment	No.	Hourly Rental	Hourly Cost
Concr. Bucket	1	770.00	770
Vibrator	2	27.60	55.2
Crane	1	675.00	675
Total (1:03)			1500.2

C= Equipment Unit Cost **210.55** Br./m^3

Total of (1:03)

Hourly output: _____

829.25 Birr/m^2

66.34 "

58.05 "

953.63 Birr/m^2

'UT: 8.125 m^3 / hr.

/ibrator,Crane 8.125 m^3 / hr.

918.30 Birr/m3

_____Data collected by _____Prepared checked by _____Approved by

183.66 Birr/m2

Equipment Cost (1:03)			
Type of Equipment	No.	Hourly Rental	Hourly Cost
Concr. Bucket	1	770.00	770
Vibrator	2	27.60	55.2
Crane	1	675.00	675
Total (1:03)			1500.2

C= Equipment Unit Cost **184.64** Br./m^3

Total of (1:03)

Hourly output: _____

798.52 Birr/m^2

63.88 "

55.90 "

918.30 Birr/m^2

'UT: 9.88 m^3 / hr.

Vibrator,Crane 9.88 m^3 / hr.

873.69 Birr/m3

_____Data collected by _____Prepared checked by _____Approved by

227.16 Birr/m2

Equipment Cost (1:03)			
Type of Equipment	No.	Hourly Rental	Hourly Cost
Concr. Bucket	1	770.00	770
Vibrator	2	27.60	55.2
Crane	1	675.00	675
Total (1:03)			1500.2

C= Equipment Unit Cost **151.92** Br./m^3

Total of (1:03)

Hourly output: _____

759.73 Birr/m^2

60.78 "

53.18 "

873.69 Birr/m^2

'UT: 6.75 m^3 / hr.

Vibrator, 6.75 m^3 / hr.

969.58 Birr/m^2

_____Data collected by _____Prepared checked by _____Approved by

Equipment Cost (1:03)			
Type of Equipment	No.	Hourly Rental	Hourly Cost
Concr. Bucket	1	770.00	770
Vibrator	2	27.60	55.2
Crane	1	675.00	675
Total (1:03)			1500.2

Br./m3

C= Equipment Unit Cost **222.25** Br./m²

Total of (1:03)

Hourly output: _____

843.11 Birr/m²

67.45 "

59.02 "

969.6 Birr/m²

'UT: 7.50 m³ / hr.

Vibrator 7.50 m³ / hr.

939.3 Birr/m²

_____Data collected by _____Prepared checked by _____Approved by

Equipment Cost (1:03)			
Type of Equipment	No.	Hourly Rental	Hourly Cost
Concr. Bucket	1	770.00	770
Vibrator	2	27.60	55.2
Crane	1	675.00	675
Total (1:03)			1500.2

Br./m3

C= Equipment Unit Cost **200.03** Br./m^2

Total of (1:03)

Hourly output: _____

816.8 Birr/m^2

65.34 "

57.17 "

939.3 Birr/m^2

'UT: 3.19 m^3 / hr.

Vibrator Crain 3.19 m^3 / hr.

1287.17 Birr/m^2

_____Data collected by _____Prepared checked by _____Approved by

Equipment Cost (1:03)			
Type of Equipment	No.	Hourly Rental	Hourly Cost
Concr. Bucket	1	770.00	770
Vibrator	2	27.60	55.2
Crane	1	675.00	675
Total (1:03)			1500.2

C= Equipment Unit Cost **470.7** Br./m^2

Total of (1:03)

Hourly output: _____

1119.3 Birr/m^2

89.54 "

78.35 "

1287.2 Birr/m^2

'UT: 4.38 m^3 / hr.

Vibrator Crain 4.38 m^3 / hr.

1113.0 Birr/m^2

_____Data collected by _____Prepared checked by _____Approved by

Equipment Cost (1:03)			
Type of Equipment	No.	Hourly Rental	Hourly Cost
Concr. Bucket	1	770.00	770
Vibrator	2	27.60	55.2
Crane	1	675.00	675
Total (1:03)			1500.2

C= Equipment Unit Cost **342.9** Br./m^2

Total of (1:03)

Hourly output: _____

967.8 Birr/m^2

77.43 "

67.75 "

1113.0 Birr/m^2

'UT: 3.38 m^3 / hr.

/ibrator,Crane 3.38 m^3 / hr.

1251.5 Birr/m^2

_____Data collected by _____Prepared checked by _____Approved by

Equipment Cost (1:03)			
Type of Equipment	No.	Hourly Rental	Hourly Cost
Concr. Bucket	1	770.00	770
Vibrator	2	27.60	55.2
Crane	1	675.00	675
Total (1:03)			1500.2

Br./m3

C= Equipment Unit Cost **444.5** Br./m^2

Total of (1:03)

Hourly output: _____

1088.28 Birr/m^2

87.06 "

76.18 "

1251.5 Birr/m^2

'UT: 4.94 m^3 / hr.

Vibrator,Crane 4.94 m^3 / hr.

1059.7 Birr/m^2

_____Data collected by _____Prepared checked by _____Approved by

Equipment Cost (1:03)			
Type of Equipment	No.	Hourly Rental	Hourly Cost
Concr. Bucket	1	770.00	770
Vibrator	2	27.60	55.2
Crane	1	675.00	675
Total (1:03)			1500.2

Br./m3

C= Equipment Unit Cost **303.8** Br./m^2

Total of (1:03)

Hourly output: _____

921.52 Birr/m^2

73.72 "

64.51 "

1059.7 Birr/m^2

'UT: 7.1 m^3 / hr.

/ibrator,Crane 7.1 m^3 / hr.

932.56 Birr/m3

_____Data collected by _____Prepared checked by _____Approved by

93.26 Birr/m2

Equipment Cost (1:03)			
Type of Equipment	No.	Hourly Rental	Hourly Cost
Concr. Bucket	1	770.00	770
Vibrator	2	27.60	55.2
Crane	1	675.00	675
Total (1:03)			1500.2

C= Equipment Unit Cost **210.55** Br./m^3

Total of (1:03)

Hourly output: _____

810.92 Birr/m^2

64.87 "

56.76 "

932.56 Birr/m^2

'UT: 8.13 m^3 / hr.

Vibrator,Crane 8.13 m^3 / hr.

897.23 Birr/m3

_____Data collected by _____Prepared checked by _____Approved by

179.45 Birr/m2

Equipment Cost (1:03)			
Type of Equipment	No.	Hourly Rental	Hourly Cost
Concr. Bucket	1	770.00	770
Vibrator	2	27.60	55.2
Crane	1	675.00	675
Total (1:03)			1500.2

C= Equipment Unit Cost **184.64** Br./m^3

Total of (1:03)

Hourly output: _____

780.20 Birr/m^2

62.42 "

54.61 "

897.23 Birr/m^2

'UT: 9.88 m^3 / hr.

Vibrator,Crane 9.88 m^3 / hr.

870.09 Birr/m3

_____Data collected by _____Prepared checked by _____Approved by

226.22 Birr/m2

Equipment Cost (1:03)			
Type of Equipment	No.	Hourly Rental	Hourly Cost
Concr. Bucket	1	770.00	770
Vibrator	2	27.60	55.2
Crane	1	675.00	675
Total (1:03)			1500.2

C= Equipment Unit Cost **151.92** Br./m^3

Total of (1:03)

Hourly output: _____

756.60 Birr/m^2

60.53 "

52.96 "

870.09 Birr/m^2

'UT: 6.75 m^3 / hr.

Vibrator, 6.75 m^3 / hr.

948.51 Birr/m^2

_____Data collected by _____Prepared checked by _____Approved by

Equipment Cost (1:03)			
Type of Equipment	No.	Hourly Rental	Hourly Cost
Concr. Bucket	1	770.00	770
Vibrator	2	27.60	55.2
Crane	1	675.00	675
Total (1:03)			1500.2

Br./m3

C= Equipment Unit Cost **222.25** Br./m^2

Total of (1:03)

Hourly output: _____

824.79 Birr/m^2

65.98 "

57.74 "

948.5 Birr/m^2

'UT: 7.50 m^3 / hr.

Vibrator 7.50 m^3 / hr.

918.2 Birr/m^2

_____Data collected by _____Prepared checked by _____Approved by

Equipment Cost (1:03)			
Type of Equipment	No.	Hourly Rental	Hourly Cost
Concr. Bucket	1	770.00	770
Vibrator	2	27.60	55.2
Crane	1	675.00	675
Total (1:03)			1500.2

Br./m3

C= Equipment Unit Cost **200.03** Br./m²

Total of (1:03)

Hourly output: _____

798.4 Birr/m²

63.88 "

55.89 "

918.2 Birr/m²

'UT: 0.56 m²/hr

' PUT: 0.56 m²/hr.

_____Data collected by _____Prepared checked by _____Approved by

313.74 Birr/m²

13.714286
1.7142857

Equipment Cost (1:03)			
Type of Equipment	UF/No.	Hourly Rental	Hourly Cost
tools	2	1.28	2.56
lift	0.003	675	2.03
Total (1:03)			4.59

pment Unit Cost 8.15 Birr/m²

Total of (1:03)

Daily output:

257.16 Birr/m²
38.57 Birr/m²
18.00 Birr/m²
313.74 Birr/m²

313.74 Birr/m2

'UT: 0.54 m²/hr.

' PUT: 0.54 m²/hr.

354.27 Birr/m²

_____Data collected by _____Prepared checked by _____Approved by

Equipment Cost (1:03)			
Type of Equipment	No.	Hourly Rental	Daily Cost
tools	2	1.28	2.56
Lift	0.003	675	2.03
Total (1:03)			4.59

pment Unit Cost 8.53 Birr/m²

Total of (1:03)

Daily output:

290.39 Birr/m²
43.56 Birr/m²
20.33 Birr/m²
354.27 Birr/m²

354.27 Birr/m2

)URLY OUTPUT: 0.56 m²/hr.

T DAILY OUT PUT: 0.56 m²/hr.

305.26 Birr/m²

Equipment Cost (1:03)

_____Data collected by _____Prepared checked by _____Approved by

Type of Equipment	No.	Hourly Rental	Daily Cost
tools	2	1.28	2.56
Lift	0.003	675	2.03
Total (1:03)			4.59

pment Unit Cost 8.15 Birr/m²

Total of (1:03)

Daily output:

265.44 Birr/m²

21.24 Birr/m²

18.58 Birr/m²

305.26 Birr/m²

305.26 Birr/m2

)URLY OUTPUT: 0.51 m²/hr.

T DAILY OUT PUT: 0.51 m²/hr.

312.09 Birr/m²

Equipment Cost (1:03)

_____Data collected by _____Prepared checked by _____Approved by

Type of Equipment	No.	Daily Rental	Daily Cost
tools	2	1.28	2.56
Lift	0.003	675	2.025
Total (1:03)			4.585

pment Unit Cost 8.95 Birr/m²

Total of (1:03)

Daily output:

271.38 Birr/m²

21.71 Birr/m²

19.00 Birr/m²

312.09 Birr/m²

312.09 Birr/m2

`

)URLY OUTPUT: 0.56 m²/hr.

T DAILY OUT PUT: 0.56 m²/hr.

316.89 Birr/m²

Equipment Cost (1:03)

_____Data collected by _____Prepared checked by _____Approved by

Type of Equipment	No.	Daily Rental	Daily Cost
tools	2	1.28	2.56
Lift	0.003	675	2.025
Total (1:03)			4.585

pment Unit Cost 8.15 Birr/m²

Total of (1:03)

Daily output:

275.56 Birr/m²

22.04 Birr/m²

19.29 Birr/m²

316.89 Birr/m²

316.89 Birr/m2

'UT: 21.88 kg/hr.

21.88 kg/hr.

3.57 Birr/kg.

Equipment Cost (1:03)

_____Data collected by _____Prepared checked by _____Approved by

Type of Equipment	No.	Hourly Rental	Hourly Cost
tools	2	1.28	2.56
Lift	0.100	150	15
Total (1:03)			17.56

Equipment Unit Cost 0.80 Birr/kg.

Total of (1:03)

Hourly output: _____

3.09	Birr/kg.	3.09
0.25	"	
0.23	"	
3.57	Birr/kg.	

'UT: 25 kg/hr.

25 kg/hr.

27.92 Birr/kg.

Equipment Cost (1:03)

_____Data collected by _____Prepared checked by _____Approved by

Type of Equipment	No.	Hourly Rental	Hourly Cost
tools	2	1.28	2.56
Lift			
Total (1:03)			2.56

Equipment Unit Cost **0.10** Birr/kg.

Total of (1:03)

Hourly output: _____

24.16 Birr/kg.

1.93 "

1.83 "

27.92 Birr/kg.

'UT: 33.13 kg./hr

33.13 kg./hr

27.85 Birr/kg.

Equipment Cost (1:03)

_____Data collected by _____Prepared checked by _____Approved by

Type of Equipment	No.	Hourly Rental	Hourly Cost
tools	2	1.28	2.56
Lift	0.100	150	15
Total (1:03)			17.56

C= Equipment Unit Cost **0.530** Birr/kg.

Total of (1:03)

Hourly output: _____

24.10 Birr/kg.

1.93 "

1.82 "

27.847 Birr/kg.

14.583333

'UT: 35.63 kg./hr

35.63 kg./hr

27.68 Birr/kg.

_____Data collected by _____Prepared checked by _____Approved by

Equipment Cost (1:03)			
Type of Equipment	No.	Hourly Rental	Hourly Cost
tools	2	1.28	2.56
Lift	0.100	150	15
Total (1:03)			17.56

C= Equipment Unit Cost **0.49291228** Birr/kg.

Total of (1:03)

Hourly output: _____

23.95 Birr/kg.

1.92 "

1.81 "

27.682 Birr/kg.

'UT: 36.88 kg./hr

_____Data collected by _____Prepared checked by _____Approved by

36.88 kg./hr

27.14 Birr/kg.

Equipment Cost (1:03)			
Type of Equipment	No.	Hourly Rental	Hourly Cost
tools	2	1.28	2.56
Lift	0.001	150	0.15
Total (1:03)			2.71

C= Equipment Unit Cost **0.07349153** Birr/kg.

Total of (1:03)

Hourly output: _____

23.49 Birr/kg.

1.88 "

1.78 "

27.142 Birr/kg.

2000000

_____Data collected by _____Prepared checked by _____Approved by

)URLY OUTPUT: 2.94 m^3 / hr.

NT: Crane 2.94 m^3 / hr.

2286.73 Birr/m^3

2301.09

Equipment Cost (1:03)			
Type of Equipment	No.	Hourly Rental	Hourly Cost
Concr. Bucket	1	770.00	770
Vibrator	2	27.60	55.2
Crane	1	675.00	675
Total (1:03)			1500.2

C= Equipment Unit Cost : **510.71** Br./m^3

Total of (1:03)

Hourly output:

1978.82 Birr/m^3

158.31 "

149.60 "

2286.73 Birr/m^3

_____Data collected by _____Prepared checked by _____Approved by

)URLY OUTPUT: 4.13 m^3 / hr.

NT: Crane 4.13 m^3 / hr.

2085.98 Birr/m^3

Equipment Cost (1:03)			
Type of Equipment	No.	Hourly Rental	Hourly Cost
Concr. Bucket	1	770.00	770
Vibrator	2	27.60	55.2
Crane	1	675.00	675
Total (1:03)			1500.2

C= Equipment Unit Cost : **363.68** Br./m^3

Total of (1:03)

Hourly output:

1805.10 Birr/m^3

144.41 "

136.47 "

2085.98 Birr/m^3

_____Data collected by _____Prepared checked by _____Approved by

)URLY OUTPUT: 3.13 m^3 / hr.

NT: Mixer & Vibrator 3.13 m^3 / hr.

2244.9 Birr/m^3

Equipment Cost (1:03)			
Type of Equipment	No.	Hourly Rental	Hourly Cost
Concr. Bucket	1	770.00	770
Vibrator	2	27.60	55.2
Crane	1	675.00	675
Total (1:03)			1500.2

C= Equipment Unit Cost : **480.1** Br./m^3

Total of (1:03)		1500.2
Hourly output:		3.125
1942.63	Birr/m^3	246.40
155.41	"	17.664
146.86	"	
2244.9	Birr/m^3	

0.0654205607

6.5420560748

105.8

)URLY OUTPUT: 4.69 m^3 / hr.

_____Data collected by _____Prepared checked by _____Approved by

NT: Mixer & Vibrator 4.69 m^3 / hr.

2026.4 Birr/m^3

Equipment Cost (1:03)			
Type of Equipment	No.	Hourly Rental	Hourly Cost
Concr. Bucket	1	770.00	770
Vibrator	2	27.60	55.2
Crane	1	675.00	675
Total (1:03)			1500.2

C= Equipment Unit Cost : **320.0** Br./m^3

Total of (1:03)		1500.2
Hourly output:		4.6875
1753.55	Birr/m^3	164.27
140.28	"	11.776
132.57	"	
2026.4	Birr/m^3	

0.0654205607

6.5420560748

105.8

OURLY OUTPUT: 6.88 m^3 / hr.

NT: Mixer & Vibrator 6.88 m^3 / hr.

_____Data collected by _____Prepared checked by _____Approved by

1888.33 Birr/m3

188.83 Birr/m2

Equipment Cost (1:03)			
Type of Equipment	No.	Hourly Rental	Hourly Cost
Concr. Bucket	1	770.00	770
Vibrator	2	27.60	55.2
Crane	1	675.00	675
Total (1:03)			1500.2

C= Equipment Unit Cost : **218.21** Br./m^2

Total of (1:03)

Hourly output:

1634.07 Birr/m^2

130.73 "

123.54 "

1888.33 Birr/m^2

OURLY OUTPUT: 7.88 m^3 / hr.

NT: Mixer & Vibrator 7.88 m^3 / hr.

1850.37 Birr/m3

40.5

_____Data collected by _____Prepared checked by _____Approved by

370.07 Birr/m2

20.25

Equipment Cost (1:03)			
Type of Equipment	No.	Hourly Rental	Hourly Cost
Concr. Bucket	1	770.00	770
Vibrator	2	27.60	55.2
Crane	1	675.00	675
Total (1:03)			1500.2

C= Equipment Unit Cost : **190.50** Br./m^2

Total of (1:03)

Hourly output:

1601.22 Birr/m^2

128.10 "

121.05 "

1850.37 Birr/m^2

)URLY OUTPUT: 9.63 m^3 / hr.

NT: Mixer & Vibrator 9.63 m^3 / hr.

1802.91 Birr/m3

468.76 Birr/m2

_____Data collected by _____Prepared checked by _____Approved by

Equipment Cost (1:03)			
Type of Equipment	No.	Hourly Rental	Hourly Cost
Concr. Bucket	1	770.00	770
Vibrator	2	27.60	55.2
Crane	1	675.00	675
Total (1:03)			1500.2

C= Equipment Unit Cost : **155.86** Br./m^2

Total of (1:03)

Hourly output:

1560.15 Birr/m^2

124.81 "

117.95 "

1802.91 Birr/m^2

'UT: 6.5 m^3 / hr.

Vibrator 6.5 m^3 / hr.

1905.6 Birr/m^2

Equipment Cost (1:03)

_____Data collected by _____Prepared checked by _____Approved by

Type of Equipment	No.	Hourly Rental	Hourly Cost
Concr. Bucket	1	770.00	770
Vibrator	2	27.60	55.2
Crane	1	675.00	675
Total (1:03)			1500.2

C= Equipment Unit Cost **230.80** Br./m^2

Total of (1:03)

Hourly output: _____

1649.00 Birr/m^2

131.92 "

124.66 "

1905.6 Birr/m^2

)URLY OUTPUT: 7.25 m^3 / hr.

NT: Mixer & Vibrator 7.25 m^3 / hr.

1872.9 Birr/m^2

Equipment Cost (1:03)

_____Data collected by _____Prepared checked by _____Approved by

Type of Equipment	No.	Hourly Rental	Hourly Cost
Concr. Bucket	1	770.00	770
Vibrator	2	27.60	55.2
Crane	1	675.00	675
Total (1:03)			1500.2

C= Equipment Unit Cost **206.92** Br./m^2

Total of (1:03)

Hourly output: _____

1620.7 Birr/m^2

129.66 "

122.52 "

1872.87 Birr/m^2

'UT: 2.94 m^3 / hr.

Vibrator Crain 2.94 m^3 / hr.

2400.2 Birr/m^2

Equipment Cost (1:03)

_____Data collected by _____Prepared checked by _____Approved by

Type of Equipment	No.	Hourly Rental	Hourly Cost
Concr. Bucket	1	770.00	770
Vibrator	2	27.60	55.2
Crane	1	675.00	675
Total (1:03)			1500.2

C= Equipment Unit Cost **510.7** Br./m^2

Total of (1:03)

Hourly output: _____

2077.0 Birr/m^2

166.16 "

157.02 "

2400.2 Birr/m^2

'UT: 4.13 m^3 / hr.

Vibrator Crain 4.13 m^3 / hr.

2198.8 Birr/m^2

Equipment Cost (1:03)

_____Data collected by _____Prepared checked by _____Approved by

Type of Equipment	No.	Hourly Rental	Hourly Cost
Concr. Bucket	1	770.00	770
Vibrator	2	27.60	55.2
Crane	1	675.00	675
Total (1:03)			1500.2

C= Equipment Unit Cost **363.7** Br./m^2

Total of (1:03)

Hourly output: _____

1902.7 Birr/m^2

152.22 "

143.84 "

2198.8 Birr/m^2

'UT: 3.13 m^3 / hr.

Vibrator,Crane 3.13 m^3 / hr.

2358.2 Birr/m^2

Equipment Cost (1:03)

_____Data collected by _____Prepared checked by _____Approved by

Type of Equipment	No.	Hourly Rental	Hourly Cost
Concr. Bucket	1	770.00	770
Vibrator	2	27.60	55.2
Crane	1	675.00	675
Total (1:03)			1500.2

Br./m3

C= Equipment Unit Cost **480.1** Br./m^2

Total of (1:03)

Hourly output: _____

2040.68 Birr/m^2

163.25 "

154.28 "

2358.2 Birr/m^2

'UT: 4.69 m^3 / hr.

Vibrator,Crane 4.69 m^3 / hr.

2139.0 Birr/m^2

Equipment Cost (1:03)

_____Data collected by _____Prepared checked by _____Approved by

Type of Equipment	No.	Hourly Rental	Hourly Cost
Concr. Bucket	1	770.00	770
Vibrator	2	27.60	55.2
Crane	1	675.00	675
Total (1:03)			1500.2

Br./m3

C= Equipment Unit Cost **320.0** Br./m^2

Total of (1:03)

Hourly output: _____

1850.96 Birr/m^2

148.08 "

139.93 "

2139.0 Birr/m^2

'UT: 6.875 m^3 / hr.

/ibrator,Crane 6.875 m^3 / hr. 66.666667

1999.46 Birr/m3

199.95 Birr/m2

Equipment Cost (1:03)

_____Data collected by _____Prepared checked by _____Approved by

Type of Equipment	No.	Hourly Rental	Hourly Cost
Concr. Bucket	1	770.00	770
Vibrator	2	27.60	55.2
Crane	1	675.00	675
Total (1:03)			1500.2

C= Equipment Unit Cost **218.21** Br./m^3

Total of (1:03)

Hourly output: _____

1730.24 Birr/m^2

138.42 "

130.81 "

1999.46 Birr/m^2

'UT: 7.875 m^3 / hr.

Vibrator,Crane 7.875 m^3 / hr.

1961.50 Birr/m3

294.22 Birr/m2

Equipment Cost (1:03)

_____Data collected by _____Prepared checked by _____Approved by

Type of Equipment	No.	Hourly Rental	Hourly Cost
Concr. Bucket	1	770.00	770
Vibrator	2	27.60	55.2
Crane	1	675.00	675
Total (1:03)			1500.2

C= Equipment Unit Cost **190.50** Br./m^3

Total of (1:03)

Hourly output: _____

1697.39 Birr/m^2

135.79 "

128.32 "

1961.50 Birr/m^2

'UT: 9.63 m^3 / hr.

Vibrator,Crane 9.63 m^3 / hr.

1914.05 Birr/m3

497.65 Birr/m2

Equipment Cost (1:03)

_____Data collected by _____Prepared checked by _____Approved by

Type of Equipment	No.	Hourly Rental	Hourly Cost
Concr. Bucket	1	770.00	770
Vibrator	2	27.60	55.2
Crane	1	675.00	675
Total (1:03)			1500.2

C= Equipment Unit Cost **155.86** Br./m^3

Total of (1:03)

Hourly output: _____

1656.32 Birr/m^2

132.51 "

125.22 "

1914.05 Birr/m^2

'UT: 6.5 m^3 / hr.

Vibrator, 6.5 m^3 / hr.

2016.71 Birr/m^2

Equipment Cost (1:03)

_____Data collected by _____Prepared checked by _____Approved by

Type of Equipment	No.	Hourly Rental	Hourly Cost
Concr. Bucket	1	770.00	770
Vibrator	2	27.60	55.2
Crane	1	675.00	675
Total (1:03)			1500.2

Br./m3

C= Equipment Unit Cost **230.80** Br./m^2

Total of (1:03)

Hourly output: _____

1745.16 Birr/m^2

139.61 "

131.93 "

2016.7 Birr/m^2

'UT: 7.25 m^3 / hr.

Vibrator 7.25 m^3 / hr.

1984.0 Birr/m^2

Equipment Cost (1:03)

_____Data collected by _____Prepared checked by _____Approved by

Type of Equipment	No.	Hourly Rental	Hourly Cost
Concr. Bucket	1	770.00	770
Vibrator	2	27.60	55.2
Crane	1	675.00	675
Total (1:03)			1500.2

Br./m3

C= Equipment Unit Cost **206.92** Br./m^2

Total of (1:03)

Hourly output: _____

1716.9 Birr/m^2

137.35 "

129.79 "

1984.0 Birr/m^2

'UT: 2.94 m^3 / hr.

ι Vibrator Crain 2.94 m^3 / hr.

2477.85 Birr/m^2

Equipment Cost (1:03)

_____Data collected by _____Prepared checked by _____Approved by

Type of Equipment	No.	Hourly Rental	Hourly Cost
Concr. Bucket	1	770.00	770
Vibrator	2	27.60	55.2
Crane	1	675.00	675
Total (1:03)			1500.2

C= Equipment Unit Cost **510.7** Br./m^2

Total of (1:03)

Hourly output: _____

2144.2 Birr/m^2

171.54 "

162.10 "

2477.8 Birr/m^2

'UT: 4.13 m^3 / hr.

Vibrator Crain 4.13 m^3 / hr.

2276.4 Birr/m^2

Equipment Cost (1:03)

_____Data collected by _____Prepared checked by _____Approved by

Type of Equipment	No.	Hourly Rental	Hourly Cost
Concr. Bucket	1	770.00	770
Vibrator	2	27.60	55.2
Crane	1	675.00	675
Total (1:03)			1500.2

C= Equipment Unit Cost **363.7** Br./m^2

Total of (1:03)

Hourly output: _____

1969.9 Birr/m^2

157.59 "

148.92 "

2276.4 Birr/m^2

'UT: 3.13 m^3 / hr.

Vibrator,Crane 3.13 m^3 / hr.

2435.9 Birr/m^2

Equipment Cost (1:03)

_____Data collected by _____Prepared checked by _____Approved by

Type of Equipment	No.	Hourly Rental	Hourly Cost
Concr. Bucket	1	770.00	770
Vibrator	2	27.60	55.2
Crane	1	675.00	675
Total (1:03)			1500.2

Br./m3

C= Equipment Unit Cost **480.1** Br./m^2

Total of (1:03)

Hourly output: _____

2107.88 Birr/m^2

168.63 "

159.36 "

2435.9 Birr/m^2

'UT: 4.69 m^3 / hr.

Vibrator,Crane 4.69 m^3 / hr.

2227.1 Birr/m^2

Equipment Cost (1:03)

_____Data collected by _____Prepared checked by _____Approved by

Type of Equipment	No.	Hourly Rental	Hourly Cost
Concr. Bucket	1	770.00	770
Vibrator	2	27.60	55.2
Crane	1	675.00	675
Total (1:03)			1500.2

Br./m3

C= Equipment Unit Cost **320.0** Br./m^2

Total of (1:03)

Hourly output: _____

1927.23 Birr/m^2

154.18 "

145.70 "

2227.1 Birr/m^2

'UT: 6.875 m^3 / hr.

Vibrator,Crane 6.875 m^3 / hr.

2077.12 Birr/m3

207.71 Birr/m2

Equipment Cost (1:03)

_____Data collected by _____Prepared checked by _____Approved by

Type of Equipment	No.	Hourly Rental	Hourly Cost
Concr. Bucket	1	770.00	770
Vibrator	2	27.60	55.2
Crane	1	675.00	675
Total (1:03)			1500.2

C= Equipment Unit Cost **218.21** Br./m^3

Total of (1:03)

Hourly output: _____

1797.44 Birr/m^2

143.80 "

135.89 "

2077.12 Birr/m^2

'UT: 7.88 m^3 / hr.

Vibrator,Crane 7.88 m^3 / hr.

2039.16 Birr/m3

305.87 Birr/m2

Equipment Cost (1:03)

_____Data collected by _____Prepared checked by _____Approved by

Type of Equipment	No.	Hourly Rental	Hourly Cost
Concr. Bucket	1	770.00	770
Vibrator	2	27.60	55.2
Crane	1	675.00	675
Total (1:03)			1500.2

C= Equipment Unit Cost **190.50** Br./m^3

Total of (1:03)

Hourly output: _____

1764.59 Birr/m^2

141.17 "

133.40 "

2039.16 Birr/m^2

'UT: 9.63 m^3 / hr.

Vibrator,Crane 9.63 m^3 / hr.

2009.71 Birr/m3

522.53 Birr/m2

Equipment Cost (1:03)

_____Data collected by _____Prepared checked by _____Approved by

Type of Equipment	No.	Hourly Rental	Hourly Cost
Concr. Bucket	1	770.00	770
Vibrator	2	27.60	55.2
Crane	1	675.00	675
Total (1:03)			1500.2

C= Equipment Unit Cost **155.86** Br./m^3

Total of (1:03)

Hourly output: _____

1739.11 Birr/m^2

139.13 "

131.48 "

2009.71 Birr/m^2

'UT: 6.5 m^3 / hr.

Vibrator, 6.5 m^3 / hr.

2094.37 Birr/m^2

Equipment Cost (1:03)

_____Data collected by _____Prepared checked by _____Approved by

Type of Equipment	No.	Hourly Rental	Hourly Cost
Concr. Bucket	1	770.00	770
Vibrator	2	27.60	55.2
Crane	1	675.00	675
Total (1:03)			1500.2

Br./m3

C= Equipment Unit Cost **230.80** Br./m^2

Total of (1:03)

Hourly output: _____

1812.36 Birr/m^2

144.99 "

137.01 "

2094.4 Birr/m^2

'UT: 7.25 m^3 / hr.

Vibrator 7.25 m^3 / hr.

2061.7 Birr/m^2

Equipment Cost (1:03)

_____Data collected by _____Prepared checked by _____Approved by

Type of Equipment	No.	Hourly Rental	Hourly Cost
Concr. Bucket	1	770.00	770
Vibrator	2	27.60	55.2
Crane	1	675.00	675
Total (1:03)			1500.2

Br./m3

C= Equipment Unit Cost **206.92** Br./m²

Total of (1:03)

Hourly output: _____

1784.1 Birr/m²

142.72 "

134.87 "

2061.7 Birr/m²

'UT: 0.54 m²/hr

' PUT: 0.54 m²/hr.

329.39 Birr/m²

_____Data collected by _____Prepared checked by _____Approved by

Equipment Cost (1:03)			
Type of Equipment	UF/No.	Hourly Rental	Hourly Cost
tools	2	1.28	2.56
lift	0.003	675	2.03
Total (1:03)			4.59

0.003 775 2.325

pment Unit Cost 8.53 Birr/m²

Total of (1:03)

Daily output:

260.39 Birr/m²

39.06 Birr/m²

29.94 Birr/m²

329.39 Birr/m²

329.39 Birr/m2

'UT: 0.51 m²/hr.

' PUT: 0.51 m²/hr.

371.82 Birr/m²

Equipment Cost (1:03)

_____Data collected by _____Prepared checked by _____Approved by

Type of Equipment	No.	Hourly Rental	Daily Cost
tools	2	1.28	2.56
Lift	0.003	675	2.03
Total (1:03)			4.59

0.01	775	7.75
0.02		15.5
0.015		11.625

pment Unit Cost 8.95 Birr/m²

Total of (1:03)

Daily output:

293.93 Birr/m²
44.09 Birr/m²
33.80 Birr/m²
371.82 Birr/m²

371.82 Birr/m2

)URLY OUTPUT: 0.54 m²/hr.

T DAILY OUT PUT: 0.54 m²/hr.

309.16 Birr/m²

Equipment Cost (1:03)

_____Data collected by _____Prepared checked by _____Approved by

Type of Equipment	No.	Hourly Rental	Daily Cost
tools	2	1.28	2.56
Lift	0.003	675	2.03
Total (1:03)			4.59

pment Unit Cost 8.53 Birr/m²

Total of (1:03)

Daily output:

267.53 Birr/m²

21.40 Birr/m²

20.23 Birr/m²

309.16 Birr/m²

309.16 Birr/m2

)URLY OUTPUT: 0.49 m²/hr.

T DAILY OUT PUT: 0.49 m²/hr.

322.10 Birr/m²

Equipment Cost (1:03)

_____Data collected by _____Prepared checked by _____Approved by

Type of Equipment	No.	Daily Rental	Daily Cost
tools	2	1.28	2.56
Lift	0.003	675	2.025
Total (1:03)			4.585

pment Unit Cost 9.41 Birr/m²

Total of (1:03)

Daily output:

278.73 Birr/m²

22.30 Birr/m²

21.07 Birr/m²

322.10 Birr/m²

322.10 Birr/m2

`

)URLY OUTPUT: 0.54 m²/hr.

T DAILY OUT PUT: 0.54 m²/hr.

322.16 Birr/m²

Equipment Cost (1:03)

_____Data collected by _____Prepared checked by _____Approved by

Type of Equipment	No.	Daily Rental	Daily Cost
tools	2	1.28	2.56
Lift	0.003	675	2.025
Total (1:03)			4.585

pment Unit Cost 8.53 Birr/m²

Total of (1:03)

Daily output:

278.78 Birr/m²

22.30 Birr/m²

21.08 Birr/m²

322.16 Birr/m²

322.16 Birr/m2

'UT: 20.63 kg/hr.

20.63 kg/hr.

32.47 Birr/kg. 29.1

160

Equipment Cost (1:03)

_____Data collected by _____Prepared checked by _____Approved by

Type of Equipment	No.	Hourly Rental	Hourly Cost
tools	2	1.28	2.56
Lift	0.2	150	30
Total (1:03)			32.56

	0.05	200	10			
	0.3375	0.0045	0.35	0.007		
		0.01125		0.0175		
		0.03375		0.07	40	
		0.3375			6000	
					72000	
		0.00175		0.02		
				200		
				4		
			75			
			0.005			
			0.375			

Equipment Unit Cost 1.58 Birr/kg.

Total of (1:03)

Hourly output: _____

28.10 Birr/kg. 4.64

2.25 "

2.12 "

32.47 Birr/kg.

'UT: 23.75 kg/hr.

23.75 kg/hr.

29.38 Birr/kg.

Equipment Cost (1:03)

_____Data collected by _____Prepared checked by _____Approved by

Type of Equipment	No.	Hourly Rental	Hourly Cost
tools	2	1.28	2.56
Lift	0.2	150	30
Total (1:03)			32.56

Equipment Unit Cost **1.37** Birr/kg.

Total of (1:03)

Hourly output: _____

25.43 Birr/kg.

2.03 "

1.92 "

29.38 Birr/kg.

'UT: 31.88 kg./hr

31.88 kg./hr

28.39 Birr/kg.

Equipment Cost (1:03)

_____Data collected by _____Prepared checked by _____Approved by

Type of Equipment	No.	Hourly Rental	Hourly Cost
tools	2	1.28	2.56
Lift	0.2	150	30
Total (1:03)			32.56

C= Equipment Unit Cost **1.021** Birr/kg.

Total of (1:03)

Hourly output: _____

24.57 Birr/kg.

1.97 "

1.86 "

28.393 Birr/kg.

14.583333

'UT: 34.38 kg./hr

34.38 kg./hr

28.26 Birr/kg.

_____Data collected by _____Prepared checked by _____Approved by

Equipment Cost (1:03)			
Type of Equipment	No.	Hourly Rental	Hourly Cost
tools	2	1.28	2.56
Lift	0.2	150	30
Total (1:03)			32.56

C= Equipment Unit Cost **0.9472** Birr/kg.

Total of (1:03)

Hourly output: _____

24.45 Birr/kg.

1.96 "

1.85 "

28.257 Birr/kg.

'UT: 35.63 kg./hr

_____Data collected by _____Prepared checked by _____Approved by

35.63 kg./hr

28.09 Birr/kg.

285

Equipment Cost (1:03)			
Type of Equipment	No.	Hourly Rental	Hourly Cost
tools	2	1.28	2.56
Lift	0.2	150	30
Total (1:03)			32.56

0.002 775 1.55

C= Equipment Unit Cost **0.91396491** Birr/kg.

Total of (1:03)

Hourly output: _____

24.31 Birr/kg.

1.94 "

1.84 "

28.087 Birr/kg.

_____Data collected by _____Prepared checked by _____Approved by

)URLY OUTPUT: 3.00 m^3 / hr.

NT: Crane 3.00 m^3 / hr.

2204.79 Birr/m^3

Equipment Cost (1:03)			
Type of Equipment	No.	Hourly Rental	Hourly Cost
Pump	1	1345.00	1345
Vibrator	2	27.60	55.2
Total (1:03)			1400.2

C= Equipment Unit Cost : **466.73** Br./m^3

Total of (1:03)

Hourly output:

1907.92 Birr/m^3

152.63 "

144.24 "

2204.79 Birr/m^3

_____Data collected by _____Prepared checked by _____Approved by

)URLY OUTPUT: 4.19 m^3 / hr.

NT: Crane 4.19 m^3 / hr.

2035.19 Birr/m^3

Equipment Cost (1:03)			
Type of Equipment	No.	Hourly Rental	Hourly Cost
Pump	1	1345.00	1345
Vibrator	2	27.60	55.2
Crane	1	0.00	0
Total (1:03)			1400.2

C= Equipment Unit Cost : **334.38** Br./m^3

Total of (1:03)

Hourly output:

1761.15 Birr/m^3

140.89 "

133.14 "

2035.19 Birr/m^3

)URLY OUTPUT: 2.56 m^3 / hr.

_____Data collected by _____Prepared checked by _____Approved by

NT: Mixer & Vibrator 2.56 m^3 / hr.

2309.9 Birr/m^3

Equipment Cost (1:03)			
Type of Equipment	No.	Hourly Rental	Hourly Cost
Pump	1	1345.00	1345
Vibrator	2	27.60	55.2
Crane	1	0.00	0
Total (1:03)			1400.2

C= Equipment Unit Cost : **546.4** Br./m^3

Total of (1:03)		1400.2
Hourly output:		2.5625
1998.85	Birr/m^3	524.88
159.91	"	21.541463
151.11	"	
2309.9	Birr/m^3	

0.0654205607

6.5420560748

105.8

OURLY OUTPUT: 4.06 m^3 / hr.

NT: Mixer & Vibrator 4.06 m^3 / hr.

_____Data collected by _____Prepared checked by _____Approved by

1824.3 Birr/m³

Equipment Cost (1:03)			
Type of Equipment	No.	Hourly Rental	Hourly Cost
Pump	1	1345.00	1345
Vibrator	2	27.60	55.2
Crane	1	0.00	0
Total (1:03)			1400.2

C= Equipment Unit Cost : **344.7** Br./m³

Total of (1:03)		1400.2
Hourly output:		4.0625
1578.62	Birr/m³	331.08
126.29	"	13.587692
119.34	"	
1824.3	Birr/m³	

0.0654205607
6.5420560748
105.8

)URLY OUTPUT: 7.63 m³ / hr.
NT: Mixer & Vibrator 7.63 m³ / hr.
1978.42 Birr/m3

_____Data collected by _____Prepared checked by _____Approved by

197.84 Birr/m2

Equipment Cost (1:03)			
Type of Equipment	No.	Hourly Rental	Hourly Cost
Pump	1	1345.00	1345
Vibrator	2	27.60	55.2
Cncrete bucket	1	770.00	770
Total (1:03)			2170.2

C= Equipment Unit Cost : **284.62** Br./m^2

Total of (1:03)

Hourly output:

1712.03 Birr/m^2

136.96 "

129.43 "

1978.42 Birr/m^2

)URLY OUTPUT: 9.25 m^3 / hr.

NT: Mixer & Vibrator 9.25 m^3 / hr.

1907.98 Birr/m3

381.60 Birr/m2

_____Data collected by _____Prepared checked by _____Approved by

Equipment Cost (1:03)			
Type of Equipment	No.	Hourly Rental	Hourly Cost
Pump	1	1345.00	1345
Vibrator	2	27.60	55.2
Cncrete bucket	1	770.00	770
Total (1:03)			2170.2

C= Equipment Unit Cost : **234.62** Br./m^2

Total of (1:03)

Hourly output:

1651.08 Birr/m^2

132.09 "

124.82 "

1907.98 Birr/m^2

)URLY OUTPUT: 9.63 m^3 / hr.

NT: Mixer & Vibrator 9.63 m^3 / hr.

1895.57 Birr/m3

492.85 Birr/m2

Equipment Cost (1:03)

_____Data collected by _____Prepared checked by _____Approved by

Type of Equipment	No.	Hourly Rental	Hourly Cost
Pump	1	1345.00	1345
Vibrator	2	27.60	55.2
Cncrete bucket	1	770.00	770
Total (1:03)			2170.2

C= Equipment Unit Cost : **225.48** Br./m^2

Total of (1:03)

Hourly output:

1640.33 Birr/m^2

131.23 "

124.01 "

1895.57 Birr/m^2

'UT: 6.625 m^3 / hr.

Vibrator 6.625 m^3 / hr.

2046.0 Birr/m^2

Equipment Cost (1:03)

_____Data collected by _____Prepared checked by _____Approved by

Type of Equipment	No.	Hourly Rental	Hourly Cost
Pump	1	1345.00	1345
Vibrator	2	27.60	55.2
Cncrete bucket	1	770.00	770
			0
			0
			0
			0
			0
Total (1:03)			2170.2
			327.5774

C= Equipment Unit Cost **327.58** Br./m^2

Total of (1:03)

Hourly output: _____

1770.52 Birr/m^2

141.64 "

133.85 "

2046.0 Birr/m^2

)URLY OUTPUT: 6.75 m^3 / hr.

NT: Mixer & Vibrator 6.75 m^3 / hr.

1995.7 Birr/m^2

Equipment Cost (1:03)

_____Data collected by _____Prepared checked by _____Approved by

Type of Equipment	No.	Hourly Rental	Hourly Cost
Pump	1	1345.00	1345
Vibrator	2	27.60	55.2
Cncrete bucket	1	770.00	770
Total (1:03)			2170.2

C= Equipment Unit Cost **321.51** Br./m^2

Total of (1:03)

Hourly output: _____

1727.0 Birr/m^2

138.16 "

130.56 "

1995.74 Birr/m^2

'UT: 3.00 m^3 / hr.

Vibrator Crain 3.00 m^3 / hr.

2602.1 Birr/m^2

Equipment Cost (1:03)

_____Data collected by _____Prepared checked by _____Approved by

Type of Equipment	No.	Hourly Rental	Hourly Cost
Pump	1	1345.00	1345
Vibrator	2	27.60	55.2
Cncrete bucket	1	770.00	770
Total (1:03)			2170.2

C= Equipment Unit Cost **723.4** Br./m^2

Total of (1:03)

Hourly output: _____

2262.7 Birr/m^2

181.02 "

158.39 "

2602.1 Birr/m^2

'UT: 4.19 m^3 / hr.

Vibrator Crain 4.19 m^3 / hr.

2355.5 Birr/m^2

Equipment Cost (1:03)

_____Data collected by _____Prepared checked by _____Approved by

Type of Equipment	No.	Hourly Rental	Hourly Cost
Pump	1	1345.00	1345
Vibrator	2	27.60	55.2
Cncrete bucket	1	770.00	770
Total (1:03)			2170.2

C= Equipment Unit Cost **518.3** Br./m^2

Total of (1:03)

Hourly output: _____

2038.4 Birr/m^2

163.07 "

154.10 "

2355.5 Birr/m^2

'UT: 2.69 m^3 / hr.

Vibrator,Crane 2.69 m^3 / hr.

2721.1 Birr/m^2

Equipment Cost (1:03)

_____Data collected by _____Prepared checked by _____Approved by

Type of Equipment	No.	Hourly Rental	Hourly Cost
Pump	1	1345.00	1345
Vibrator	2	27.60	55.2
Cncrete bucket	1	770.00	770
Total (1:03)			2170.2

Br./m3

C= Equipment Unit Cost **807.5** Br./m^2

Total of (1:03)

Hourly output: _____

2354.73 Birr/m^2

188.38 "

178.02 "

2721.1 Birr/m^2

'UT: 4.06 m^3 / hr.

Vibrator,Crane 4.06 m^3 / hr.

2439.7 Birr/m^2

Equipment Cost (1:03)

_____Data collected by _____Prepared checked by _____Approved by

Type of Equipment	No.	Hourly Rental	Hourly Cost
Pump	1	1345.00	1345
Vibrator	2	27.60	55.2
Cncrete bucket	1	770.00	770
Total (1:03)			2170.2

Br./m3

C= Equipment Unit Cost **534.2** Br./m^2

Total of (1:03)

Hourly output: _____

2111.18 Birr/m^2

168.89 "

159.61 "

2439.7 Birr/m^2

'UT: 7.625 m^3 / hr.

Vibrator,Crane 7.625 m^3 / hr.

2060.23 Birr/m3

206.02 Birr/m2

Equipment Cost (1:03)

_____Data collected by _____Prepared checked by _____Approved by

Type of Equipment	No.	Hourly Rental	Hourly Cost
Pump	1	1345.00	1345
Vibrator	2	27.60	55.2
Cncrete bucket	1	770.00	770
Total (1:03)			2170.2

C= Equipment Unit Cost **284.62** Br./m^3

Total of (1:03)

Hourly output: _____

1782.82 Birr/m^2

142.63 "

134.78 "

2060.23 Birr/m^2

'UT: 9.25 m^3 / hr.

Vibrator,Crane 9.25 m^3 / hr.

1997.04 Birr/m3

399.41 Birr/m2

Equipment Cost (1:03)

_____Data collected by _____Prepared checked by _____Approved by

Type of Equipment	No.	Hourly Rental	Hourly Cost
Pump	1	1345.00	1345
Vibrator	2	27.60	55.2
Cncrete bucket	1	770.00	770
Total (1:03)			2170.2

C= Equipment Unit Cost **234.62** Br./m^3

Total of (1:03)

Hourly output: _____

1728.14 Birr/m^2

138.25 "

130.65 "

1997.04 Birr/m^2

'UT: 9.63 m^3 / hr.

Vibrator,Crane 9.63 m^3 / hr.

1985.48 Birr/m3

516.23 Birr/m2

Equipment Cost (1:03)

_____Data collected by _____Prepared checked by _____Approved by

Type of Equipment	No.	Hourly Rental	Hourly Cost
Pump	1	1345.00	1345
Vibrator	2	27.60	55.2
Cncrete bucket	1	770.00	770
Total (1:03)			2170.2

C= Equipment Unit Cost **225.48** Br./m^3

Total of (1:03)

Hourly output: _____

1718.14 Birr/m^2

137.45 "

129.89 "

1985.48 Birr/m^2

'UT: 6.625 m^3 / hr.

Vibrator, 6.625 m^3 / hr.

2114.53 Birr/m^2

Equipment Cost (1:03)

_____Data collected by _____Prepared checked by _____Approved by

Type of Equipment	No.	Hourly Rental	Hourly Cost
Pump	1	1345.00	1345
Vibrator	2	27.60	55.2
Cncrete bucket	1	770.00	770
Total (1:03)			2170.2

Br./m3

C= Equipment Unit Cost **327.58** Br./m^2

Total of (1:03)

Hourly output: _____

1829.81 Birr/m^2

146.38 "

138.33 "

2114.5 Birr/m^2

'UT: 6.75 m^3 / hr.

Vibrator 6.75 m^3 / hr.

2106.9 Birr/m^2

Equipment Cost (1:03)

_____Data collected by _____Prepared checked by _____Approved by

Type of Equipment	No.	Hourly Rental	Hourly Cost
Pump	1	1345.00	1345
Vibrator	2	27.60	55.2
Cncrete bucket	1	770.00	770
Total (1:03)			2170.2

Br./m3

C= Equipment Unit Cost **321.51** Br./m²

Total of (1:03)

Hourly output: _____

1823.2 Birr/m²

145.85 "

137.83 "

2106.9 Birr/m²

'UT: 3.00 m³ / hr.

Vibrator Crain 3.00 m³ / hr.

2692.47 Birr/m²

Equipment Cost (1:03)

_____Data collected by _____Prepared checked by _____Approved by

Type of Equipment	No.	Hourly Rental	Hourly Cost
Pump	1	1345.00	1345
Vibrator	2	27.60	55.2
Cncrete bucket	1	770.00	770
Total (1:03)			2170.2

C= Equipment Unit Cost **723.4** Br./m^2

Total of (1:03)

Hourly output: _____

2329.9 Birr/m^2

186.39 "

176.14 "

2692.5 Birr/m^2

'UT: 4.19 m^3 / hr.

Vibrator Crain 4.19 m^3 / hr.

2433.2 Birr/m^2

Equipment Cost (1:03)

_____Data collected by _____Prepared checked by _____Approved by

Type of Equipment	No.	Hourly Rental	Hourly Cost
Pump	1	1345.00	1345
Vibrator	2	27.60	55.2
Cncrete bucket	1	770.00	770
Total (1:03)			2170.2

C= Equipment Unit Cost **518.3** Br./m^2

Total of (1:03)

Hourly output: _____

2105.6 Birr/m^2

168.44 "

159.18 "

2433.2 Birr/m^2

'UT: 2.56 m^3 / hr.

Vibrator,Crane 2.56 m^3 / hr.

2848.6 Birr/m^2

Equipment Cost (1:03)

_____Data collected by _____Prepared checked by _____Approved by

Type of Equipment	No.	Hourly Rental	Hourly Cost
Pump	1	1345.00	1345
Vibrator	2	27.60	55.2
Cncrete bucket	1	770.00	770
Total (1:03)			2170.2

Br./m3

C= Equipment Unit Cost **846.9** Br./m^2

Total of (1:03)

Hourly output: _____

2465.01 Birr/m^2

197.20 "

186.35 "

2848.6 Birr/m^2

'UT: 4.06 m^3 / hr.

Vibrator,Crane 4.06 m^3 / hr.

2453.3 Birr/m^2

Equipment Cost (1:03)

_____Data collected by _____Prepared checked by _____Approved by

Type of Equipment	No.	Hourly Rental	Hourly Cost
Pump	1	1345.00	1345
Vibrator	2	27.60	55.2
Cncrete bucket	1	770.00	770
Total (1:03)			2170.2

Br./m3

C= Equipment Unit Cost **534.2** Br./m^2

Total of (1:03)

Hourly output: _____

2123.00 Birr/m^2

169.84 "

160.50 "

2453.3 Birr/m^2

'UT: 7.625 m^3 / hr.

Vibrator,Crane 7.625 m^3 / hr.

2137.89 Birr/m3

213.79 Birr/m2

Equipment Cost (1:03)

_____Data collected by _____Prepared checked by _____Approved by

Type of Equipment	No.	Hourly Rental	Hourly Cost
Pump	1	1345.00	1345
Vibrator	2	27.60	55.2
Cncrete bucket	1	770.00	770
Total (1:03)			2170.2

C= Equipment Unit Cost **284.62** Br./m^3

Total of (1:03)

Hourly output: _____

1850.03 Birr/m^2

148.00 "

139.86 "

2137.89 Birr/m^2

'UT: 9.25 m^3 / hr.

/ibrator,Crane 9.25 m^3 / hr.

2074.70 Birr/m3

414.94 Birr/m2

Equipment Cost (1:03)

_____Data collected by _____Prepared checked by _____Approved by

Type of Equipment	No.	Hourly Rental	Hourly Cost
Pump	1	1345.00	1345
Vibrator	2	27.60	55.2
Cncrete bucket	1	770.00	770
Total (1:03)			2170.2

C= Equipment Unit Cost **234.62** Br./m^3

Total of (1:03)

Hourly output: _____

1795.34 Birr/m^2

143.63 "

135.73 "

2074.70 Birr/m^2

'UT: 9.63 m^3 / hr.

Vibrator,Crane 9.63 m^3 / hr.

2090.16 Birr/m3

543.44 Birr/m2

Equipment Cost (1:03)

_____Data collected by _____Prepared checked by _____Approved by

Type of Equipment	No.	Hourly Rental	Hourly Cost
Pump	1	1345.00	1345
Vibrator	2	27.60	55.2
Cncrete bucket	1	770.00	770
Total (1:03)			2170.2

C= Equipment Unit Cost **225.48** Br./m^3

Total of (1:03)

Hourly output: _____

1808.72 Birr/m^2

144.70 "

136.74 "

2090.16 Birr/m^2

'UT: 6.625 m^3 / hr.

Vibrator, 6.625 m^3 / hr.

2192.19 Birr/m^2

Equipment Cost (1:03)

_____Data collected by _____Prepared checked by _____Approved by

Type of Equipment	No.	Hourly Rental	Hourly Cost
Pump	1	1345.00	1345
Vibrator	2	27.60	55.2
Cncrete bucket	1	770.00	770
Total (1:03)			2170.2

Br./m3

C= Equipment Unit Cost **327.58** Br./m^2

Total of (1:03)

Hourly output: _____

1897.01 Birr/m^2

151.76 "

143.41 "

2192.2 Birr/m^2

'UT: 6.75 m^3 / hr.

Vibrator 6.75 m^3 / hr.

2184.5 Birr/m^2

Equipment Cost (1:03)

_____Data collected by _____Prepared checked by _____Approved by

Type of Equipment	No.	Hourly Rental	Hourly Cost
Pump	1	1345.00	1345
Vibrator	2	27.60	55.2
Cncrete bucket	1	770.00	770
Total (1:03)			2170.2

Br./m3

C= Equipment Unit Cost **321.51** Br./m²

Total of (1:03)

Hourly output: _____

1890.4 Birr/m²

151.23 "

142.91 "

2184.5 Birr/m²

'UT: 0.51 m²/hr

' PUT: 0.51 m²/hr.

338.87 Birr/m²

_____Data collected by _____Prepared checked by _____Approved by

Equipment Cost (1:03)			
Type of Equipment	UF/No.	Hourly Rental	Hourly Cost
tools	2	1.28	2.56
lift	0.01	675	4.05
Total (1:03)			6.61

pment Unit Cost 12.90 Birr/m²

Total of (1:03)

Daily output:

267.88 Birr/m²

40.18 Birr/m²

30.81 Birr/m²

338.87 Birr/m²

338.87 Birr/m2

'UT: 0.49 m²/hr.

' PUT: 0.49 m²/hr.

382.01 Birr/m²

Equipment Cost (1:03)

_____Data collected by _____Prepared checked by _____Approved by

Type of Equipment	No.	Hourly Rental	Daily Cost
tools	2	1.28	2.56
Lift	0.01	675	4.05
Total (1:03)			6.61

pment Unit Cost 13.56 Birr/m²

Total of (1:03)

Daily output:

301.99 Birr/m²

45.30 Birr/m²

34.73 Birr/m²

382.01 Birr/m²

382.01 Birr/m2

)URLY OUTPUT: 0.51 m²/hr.

T DAILY OUT PUT: 0.51 m²/hr.

317.82 Birr/m²

Equipment Cost (1:03)

_____Data collected by _____Prepared checked by _____Approved by

Type of Equipment	No.	Hourly Rental	Daily Cost
tools	2	1.28	2.56
Lift	0.01	675	4.05
Total (1:03)			6.61

pment Unit Cost 12.90 Birr/m²

Total of (1:03)

Daily output:

275.03 Birr/m²

22.00 Birr/m²

20.79 Birr/m²

317.82 Birr/m²

317.82 Birr/m2

)URLY OUTPUT: 0.46 m²/hr.

T DAILY OUT PUT: 0.46 m²/hr.

340.83 Birr/m²

Equipment Cost (1:03)

_____Data collected by _____Prepared checked by _____Approved by

Type of Equipment	No.	Daily Rental	Daily Cost
tools	2	1.28	2.56
Lift	0.01	675	4.05
Total (1:03)			6.61

pment Unit Cost 14.29 Birr/m²

Total of (1:03)

Daily output:

294.94 Birr/m²

23.59 Birr/m²

22.30 Birr/m²

340.83 Birr/m²

340.83 Birr/m2

`

)URLY OUTPUT: 0.51 m²/hr.

T DAILY OUT PUT: 0.51 m²/hr.

330.82 Birr/m²

Equipment Cost (1:03)

_____Data collected by _____Prepared checked by _____Approved by

Type of Equipment	No.	Daily Rental	Daily Cost
tools	2	1.28	2.56
Lift	0.01	675	4.05
Total (1:03)			6.61

pment Unit Cost 12.90 Birr/m²

Total of (1:03)

Daily output:

286.28 Birr/m²

22.90 Birr/m²

21.64 Birr/m²

330.82 Birr/m²

330.82 Birr/m2

'UT: 16.88 kg/hr.

16.88 kg/hr.

34.53 Birr/kg.

Equipment Cost (1:03)

_____Data collected by _____Prepared checked by _____Approved by

Type of Equipment	No.	Hourly Rental	Hourly Cost
tools	2	1.28	2.56
Lift	0.3	150	45
Total (1:03)			47.56

Equipment Unit Cost 2.82 Birr/kg.

Total of (1:03)

Hourly output: _____

29.88	Birr/kg.	6.42
2.39	"	
2.26	"	
34.53	Birr/kg.	

'UT: 20 kg/hr.

20 kg/hr.

31.13 Birr/kg.

Equipment Cost (1:03)

_____Data collected by _____Prepared checked by _____Approved by

Type of Equipment	No.	Hourly Rental	Hourly Cost
tools	2	1.28	2.56
Lift	0.3	150	45
Total (1:03)			47.56

Equipment Unit Cost **2.38** Birr/kg.

Total of (1:03)

Hourly output: _____

26.93 Birr/kg.

2.15 "

2.04 "

31.13 Birr/kg.

'UT: 28.13 kg./hr

28.13 kg./hr

275

29.50 Birr/kg.

Equipment Cost (1:03)

_____Data collected by _____Prepared checked by _____Approved by

Type of Equipment	No.	Hourly Rental	Hourly Cost
tools	2	1.28	2.56
Lift	0.3	150	45
Total (1:03)			47.56

C= Equipment Unit Cost **1.691** Birr/kg.

Total of (1:03)

Hourly output: _____

25.53 Birr/kg.

2.04 "

1.93 "

29.499 Birr/kg.

14.583333

'UT: 30.63 kg./hr

30.63 kg./hr

_____Data collected by _____Prepared checked by _____Approved by

29.17 Birr/kg.

Equipment Cost (1:03)			
Type of Equipment	No.	Hourly Rental	Hourly Cost
tools	2	1.28	2.56
Lift	0.3	150	45
Total (1:03)			47.56

C= Equipment Unit Cost **1.55297959** Birr/kg.

Total of (1:03)

Hourly output: _____

25.24 Birr/kg.

2.02 "

1.91 "

29.171 Birr/kg.

_____Data collected by _____Prepared checked by _____Approved by

'UT: 31.88 kg./hr

31.88 kg./hr

29.03 Birr/kg.

50

Equipment Cost (1:03)			
Type of Equipment	No.	Hourly Rental	Hourly Cost
tools	2	1.28	2.56
Lift	0.3	150	45
Total (1:03)			47.56

C= Equipment Unit Cost **1.49207843** Birr/kg.

Total of (1:03)

Hourly output: _____

25.12 Birr/kg.

2.01 "

1.90 "

29.027 Birr/kg.

_____Data collected by _____Prepared checked by _____Approved by

5.1 Stone foundation masonary

ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT: Masonary — LABOUR HOURLY OUTPUT:
WORK ITEM:(a) ***400mm thick stone foundation masonary (1:4) cement sand ratio (B.G.L)*** — EQUIPEMENT HOURLY OUTPUT:
TOTAL QANTITY OF WO 1 m3 (1:4) — RESULT: **700.9**

Material Cost (1:01)					Labour (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.
Cement	Qt.	1.02		0.00	Foreman	1	0.25	23.75	5.94	Tools	4
Sand	m³	0.28	448.96	125.71	Mason II	2	1	15.88	31.75		
Stone	m³	1.10	311.13	342.24	Helper	2	1	10.00	20		
Water	m³	0.06	3.45	0.21	D/L	4	1	6.38	25.5		
Total (1:-01)				468.16	**Total (1:02)**				83.19	**Total (1:03**	

A= Materials **468.2** Birr/m² — B= Manpower Unit Cost **133.10** Birr/m² — C=Equipment Unit Cost
Total of (1:02) — Total of (1:03)
Hourly Output: _____ — Hourly output: ____
Direct Cost of Work Item = A+B+C = **609.45** Birr/m²
Over head cost : 8% 48.76 "
Profit Cost: 7% 42.66 "
Total Unit Cost : **700.9** Birr/m²

Remark _____
UF: UTILIZATION FACTOR
*: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.
**: INCLUSIVE OF BENEFITS, TRAVEL SUBSIDES AND COST OF OVERTIME RELATED TO TARGETED OUTPUT.

ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT: Masonary — LABOUR HOURLY OUTPUT:
WORK ITEM: (b) ***500mm stone found. masonary (1:4) cement sand ratio (B.G.L)*** — EQUIPEMENT:
TOTAL QANTITY OF WO 1 m3 (1:4) — RESULT: **922.5**

Material Cost (1:01)					Labour (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.
Cement	Qt.	1.02	244.36	249.25	Foreman	1	0.25	23.75	5.94	Tools	4
Sand	m³	0.28	448.96	125.71	Mason II	2	1	15.88	31.75		
Stone	m³	1.10	311.13	342.24	Helper	2	1	10.00	20		
Water	m³	0.06	3.45	0.21	D/L	4	1	6.38	25.5		
Total (1:-01)				717.41	**Total (1:02)**				83.19	**Total (1:03**	

A= Materials **717.4** Birr/m² — B= Manpower Unit Cost **121.00** Birr/m² — C=Equipment Unit Cost
Total of (1:02) — Total of (1:03)
Hourly Output: _____ — Hourly output: ____
Direct Cost of Work Item = A+B+C = **845.85** Birr/m²
Over head cost : 8% 67.67 "
Profit Cost: 7% 8.99 "
Total Unit Cost : **922.5** Birr/m²

Remark _____
UF: UTILIZATION FACTOR
*: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.
**: INCLUSIVE OF BENEFITS, TRAVEL SUBSIDES AND COST OF OVERTIME RELATED TO TARGETED OUTPUT.

ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT: Masonary — LABOUR HOURLY OUTPUT:
WORK ITEM: (c) ***600mm thick stone foundatio masonary (1:4) cement sand ratio(B.G.L)*** — EQUIPEMENT:
TOTAL QANTITY OF WO 1 m3 — RESULT: **895.2**

Material Cost (1:01)	Labour (1:02)	Equipment

_____ Data collected by _____ Prepared checked by _____ Approved by

Type of Material	Unit	Qty *	Rate	Cost per Unit	Labour by Grade	No.	UF	** Indexed Hourly Cost	Hourly Cost	Type of Equipment	No.
Cement	Qt.	1.02	244.36	249.25	Foreman	1	0.25	23.75	5.94	Tools	2
Sand	m³	0.28	448.96	125.71	Mason II	2	1	15.88	31.75		
Stone	m³	1.10	311.13	342.24	Helper	2	1	10.00			
Water	m³	0.06	3.45	0.21	D/L	6	1	6.38	38.25		
Total (1:-01)				717.41	**Total (1:02)**				75.94	**Total (1:03**	

A= Materials **717.4** Birr/m²

B= Manpower Unit Cost **101.25** Birr/m²
Total of (1:02)
Hourly Output: _____

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

Direct Cost of Work Item = A+B+C = **822.07** Birr/m²
Over head cost : 8% 65.77 "
Profit Cost: 7% 7.33 "
Total Unit Cost : **895.16** Birr/m²

Remark _____
UF: UTILIZATION FACTOR
*: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.
**: INCLUSIVE OF BENEFITS, TRAVEL SUBSIDES AND COST OF OVERTIME RELATED TO TARGETED OUTPUT.

ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT: Masonary
WORK ITEM: (c) ***400mm thick Crushed stone masonary (B.G.L)***
TOTAL QANTITY OF WO 1 m3
LABOUR HOURLY OUTPUT:
EQUIPEMENT:
RESULT: **242.3**

Material Cost (1:01)					Labour (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.
Stone	m³	1.10	175.00	192.50	Foreman	1	0.25	23.75	5.94	Tools	2
					Mason I	1	1	8.63	8.63		
					Helper	2	1	6.38	12.75		
Total (1:-01)				192.50	**Total (1:02)**				27.31	**Total (1:03**	

A= Materials **192.5** Birr/m²

B= Manpower Unit Cost **27.31** Birr/m²
Total of (1:02)
Hourly Output: _____

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

Direct Cost of Work Item = A+B+C = **222.37** Birr/m²
Over head cost : 8% 17.79 "
Profit Cost: 7% 2.09 "
Total Unit Cost : **242.25** Birr/m²

Remark _____
UF: UTILIZATION FACTOR
*: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.
**: INCLUSIVE OF BENEFITS, TRAVEL SUBSIDES AND COST OF OVERTIME RELATED TO TARGETED OUTPUT.

5.2 Semi dressed stone masonary

ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT: Masonary
WORK ITEM:(a) ***600mm thick dry stone masonary (A.G.L)***
TOTAL QANTITY OF WORK ITEM: 1 m2
LABOUR HOURLY OUT
EQUIPEMENT:
RESULT: **137.8**

Material Cost (1:01)					Labour (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.
Stone	m³	0.20	175.00	35.00	Foreman	1	0.25	23.75	5.94	Tools	2
					Mason II	2	1	15.88	31.75		
					D/L	2	1	6.38	12.75		
									0		

_____ Data collected by _____ Prepared checked by _____ Approved by

Total (1:-01)				35.00	**Total (1:02)**				50.44	**Total (1:03**	

A= Materials **35.0** Birr/m² B= Manpower Unit Cost **80.70** Birr/m² C=Equipment Unit Cost

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

Hourly Output: _____ Hourly output: ____

Direct Cost of Work Item = A+B+C = **119.8** Birr/m²

Over head cost : 8% 9.58 "

Profit Cost: 7% 8.39 "

Total Unit Cost : **137.77** Birr/m²

Remark _____

UF: UTILIZATION FACTOR

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

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

ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT: Masonary LABOUR HOURLY OUT

WORK ITEM:(a) ***400mm thick semi dressed stone masonary foundaion wall (A.G.L)*** EQUIPEMENT:

(1:4) cement sand ratio

TOTAL QANTITY OF WORK ITEM: 1 m3 RESULT: **817.4**

Material Cost (1:01)					Labour (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.
Cement	Qt.	1.02		0.00	Foreman	1	0.25	23.75	5.94	Tools	2
Sand	m³	0.28	448.96	125.71	Mason II	2	1	15.88	31.75		
Stone	m³	1.25	311.13	388.91	Helper	2	1	10.00	20		
Water	m³	0.06	3.45	0.21	D/L	4	1	6.38	25.5		
Total (1:-01)				514.83	**Total (1:02)**				83.19	**Total (1:03**	

A= Materials **514.8** Birr/m² B= Manpower Unit Cost **190.14** Birr/m² C=Equipment Unit Cost

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

Hourly Output: _____ Hourly output: ____

Direct Cost of Work Item = A+B+C = **710.8** Birr/m²

Over head cost : 8% 56.87 "

Profit Cost: 7% 49.76 "

Total Unit Cost : **817.45** Birr/m²

Remark _____

UF: UTILIZATION FACTOR

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

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

ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT: Masonary LABOUR HOURLY OUTPUT:

WORK ITEM:(b) ***500mm thick semi dressed stonemasonary foundation wall(A.G.L)*** EQUIPEMENT:

(1:4) cement sand ratio

TOTAL QANTITY OF WO 1 m3 RESULT: **795.2**

Material Cost (1:01)					Labour (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.
Cement	Qt.	1.02		0.00	Foreman	1	0.25	23.75	5.94	Tools	4
Sand	m³	0.28	448.96	125.71	Mason II	2	1	15.88	31.75		
Stone	m³	1.25	311.13	388.91	Helper	2	1	10.00	20		
Water	m³	0.06	3.45	0.21	DL	4	1	6.38	25.5		
Total (1:-01)				514.83	**Total (1:02)**				83.19	**Total (1:03**	

A= Materials **514.8** Birr/m² B= Manpower Unit Cost **166.38** Birr/m² C=Equipment Unit Cost

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

Hourly Output: _____ Hourly output: ____

_____ Data collected by _____ Prepared checked by _____ Approved by

Direct Cost of Work Item = A+B+C =		**691.4**	Birr/m²
Over head cost :	8%	55.32	"
Profit Cost:	7%	48.40	"
Total Unit Cost :		**795.16**	Birr/m²

Remark _____

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ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT: Masonary

WORK ITEM:(c) ***600mm thick semi dressed stonemasonary foundation wall(A.G.L) (1:4) cement sand ratio***

TOTAL QANTITY OF WO 1 m3

LABOUR HOURLY OUTPUT:

EQUIPEMENT:

RESULT: **1976.3**

Material Cost (1:01)					Labour (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.
Cement	Qt.	1.02	380.00	387.60	Foreman	1	0.25	33.00	8.25	Tools	4
Sand	m³	0.28	448.96	125.71	Mason II	2	1	37.00	74		
Stone	m³	1.10	700.00	770.00	Helper	2	1	15.00	30		
Water	m³	0.06	3.45	0.21	DL	4	1	12.50	50		
Total (1:-01)				1283.52	**Total (1:02)**				162.25	**Total (1:03**	

A= Materials **1283.52** Birr/m²

B= Manpower Unit Cost **288.44** Birr/m²

Total of (1:02)

Hourly Output: _____

C=Equipment Unit Cost

Total of (1:03)

Hourly output: ____

Direct Cost of Work Item = A+B+C =		**1581.06**	Birr/m²
Over head cost :	10%	158.11	"
Profit Cost:	15%	237.16	"
Total Unit Cost :		**1976.33**	Birr/m²

Remark _____

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_____ Data collected by _____ Prepared checked by _____ Approved by

0.625 m³/hr.

Birr/m²

: Cost (1:03)	
Hourly Rental	Hourly Cost
1.28	5.12
)	5.12

8.192 Birr/m²

141.29

0.6875 m³/hr.

Birr/m²

: Cost (1:03)	
Hourly Rental	Hourly Cost
1.28	5.12
)	5.12

7.4472727 Birr/m²

128.45

0.75 m³/hr.

Birr/m²

: Cost (1:03)

Hourly Rental	Hourly Cost
1.28	2.56
)	2.56

3.41 Birr/m²

104.66

1 m³/hr.

Birr/m³

: Cost (1:03)

Hourly Rental	Hourly Cost
1.28	2.56
)	2.56

2.56 Birr/m²

29.87

0.63 m³/hr.

0.63 m³/hr.

Birr/m²

: Cost (1:03)

6.66666667 0.15

Hourly Rental	Hourly Cost
1.28	2.56

Data collected by Prepared checked by Approved by

)	2.56

4.10 Birr/m²

84.80

0.44 m³/hr.
0.44 m³/hr.

Birr/m²

: Cost (1:03)	
Hourly Rental	Hourly Cost
1.28	2.56
)	2.56

5.85 Birr/m²

195.99

0.5 m³/hr.
0.5 m³/hr.

Birr/m²

: Cost (1:03)	
Hourly Rental	Hourly Cost
1.28	5.12
)	5.12

10.24 Birr/m²

Data collected by Prepared checked by Approved by

176.62

0.56 m^3/hr.
0.56 m^3/hr.
Birr/m^2

: Cost (1:03)	
Hourly Rental	Hourly Cost
1.28	5.12
)	5.12

12.6666667 696.666667

9.1022222 Birr/m^2

297.55

7.1 Different type of roof cover

ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT: **ROOFING WORKS** LABOUR HOURLY OUTPUT: _ 6.5

WORK ITEM: (a) ***G-35 CIS roof cover*** EQUIPEMENT:

TOTAL QANTITY OF WORK ITEM: 1 m² RESULT: _____ **108.04** Birr/m².

Material Cost (1:01)					Labour (1:02)					Equipment Cost (1:03)		
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labour by Grade	No.	UF	** Indexed Hourly Cost	Hourly Cost	Type of Equipment	No.	Hourly Rental
G-32 CIS roof cover	m²	1.04	80.00	83.2	Foreman	1	0.25	23.75	5.94	Tools	2	1.28
Roofing nail	kg	0.05	67.31	3.37	Carpenter	1	1	8.50	8.50			
Plastic washer	pkt	0.05	3	0.15	Helper	3	1	10.00	30.00			
Total (1:-01)				86.72	**Total (1:02)**				44.44	**Total (1:03)**		

A= Materials Unit Cost **86.716** Birr/m B= Manpower Unit Cost _ **6.84** Birr/m C=Equipment Unit Cost **0.39**

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

Hourly Output __ Hourly output: _____

Direct Cost of Work Item = A+B+C = **93.95** Birr/m.

Over Head : 8% 7.52 Birr/m.

Profit Cost: 7% 6.58 Birr/m.

Total Unit Cost : . **108.04** Birr/m.

Remark _____

UF: UTILIZATION FACTOR

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ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT: **ROOFING WORKS** LABOUR HOURLY OUTPUT: _ 6.5

WORK ITEM: (b) ***G-32 CIS roof cover*** EQUIPEMENT:

TOTAL QANTITY OF WORK ITEM: 1 m² RESULT: _____ **140.93** Birr/m².

Material Cost (1:01)					Labour (1:02)					Equipment Cost (1:03)		
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labour by Grade	No.	UF	** Indexed Hourly Cost	Hourly Cost	Type of Equipment	No.	Hourly Rental
G-30 CIS roof cover	m²	1.04	107.50	111.8	Foreman	1	0.25	23.75	5.94	Tools	2	1.28
Roofing nail	kg	0.05	67.31	3.37	Carpenter	1	1	8.50	8.50			
Plastic washer	pkt	0.05	3	0.15	Helper	3	1	10.00	30.00			
Total (1:-01)				115.32	**Total (1:02)**				44.44	**Total (1:03)**		

A= Materials Unit Cost **115.32** Birr/m B= Manpower Unit Cost _ **6.84** Birr/m C=Equipment Unit Cost **0.39**

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

Hourly Output __ Hourly output: _____

Direct Cost of Work Item = A+B+C = **122.55** Birr/m.

Over Head : 8% 9.80 Birr/m.

Profit Cost: 7% 8.58 Birr/m.

Total Unit Cost : . **140.93** Birr/m.

Remark _____

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ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT: **ROOFING WORKS** LABOUR HOURLY OUTPUT: _ 6.5

WORK ITEM: (c) ***G-28 CIS roof cover*** EQUIPEMENT:

TOTAL QANTITY OF WORK ITEM: 1 m² RESULT: _____ **167.84** Birr/m².

Material Cost (1:01)					Labour (1:02)					Equipment Cost (1:03)		
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labour by Grade	No.	UF	** Indexed Hourly Cost	Hourly Cost	Type of Equipment	No.	Hourly Rental
G-32 CIS roof cover	m²	1.04	130.00	135.2	Foreman	1	0.25	23.75	5.94	Tools	2	1.28
Roofing nail	kg	0.05	67.31	3.37	Carpenter	1	1	8.50	8.50			
Plastic washer	pkt	0.05	3	0.15	Helper	3	1	10.00	30.00			
Total (1:-01)				138.72	**Total (1:02)**				44.44	**Total (1:03)**		

A= Materials Unit Cost **138.72** Birr/m B= Manpower Unit Cost _ **6.84** Birr/m C=Equipment Unit Cost **0.39**

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

Hourly Output __ Hourly output: _____

Direct Cost of Work Item = A+B+C = **145.95** Birr/m.

Over Head : 8% 11.68 Birr/m.

Profit Cost: 7% 10.22 Birr/m.

Total Unit Cost : . **167.84** Birr/m.

Remark _____

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ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT: **ROOFING WORKS** LABOUR HOURLY OUTPUT: _ 6.5

WORK ITEM: (d) ***Aspesto roof cover*** EQUIPEMENT: 6.5

TOTAL QANTITY OF WORK ITEM: 1 m² RESULT: _____ **253.02** Birr/m².

Material Cost (1:01)					Labour (1:02)					Equipment Cost (1:03)		
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labour by Grade	No.	UF	** Indexed Hourly Cost	Hourly Cost	Type of Equipment	No.	Hourly Rental
Aspesto	m²	1.04	200.00	208	Foreman	1	0.25	23.75	5.94	Tools	2	1.28
Roofing nail	kg	0.05	67.31	3.37	Carpenter	1	1	16.75	16.75			
Plastic washer	pkt	0.05	3.00	0.15	Helper	3	1	10.00	30.00			
Total (1:-01)				211.52	**Total (1:02)**				52.69	**Total (1:03)**		

A= Materials Unit Cost **211.52** Birr/m B= Manpower Unit Cost _ **8.11** Birr/m C=Equipment Unit Cost **0.39**

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

Hourly Output __ Hourly output: _____

Direct Cost of Work Item = A+B+C = **220.02** Birr/m.

Over Head : 8% 17.60 Birr/m.

Profit Cost: 7% 15.40 Birr/m.

Total Unit Cost : . **253.02** Birr/m.

Remark _____

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ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT: **ROOFING WORKS** LABOUR HOURLY OUTPUT: _ 6.5

WORK ITEM: (e) ***Euro tile*** EQUIPEMENT: 6.5
TOTAL QANTITY OF WORK ITEM: 1 m² RESULT: _____ **264.98** Birr/m².

Material Cost (1:01)					Labour (1:02)					Equipment Cost (1:03)		
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labour by Grade	No.	UF	** Indexed Hourly Cost	Hourly Cost	Type of Equipment	No.	Hourly Rental
Euro tile	m²	1.04	210.00	218.4	Foreman	1	0.25	23.75	5.94	Tools	2	1.28
Roofing nail	kg	0.05	67.31	3.37	Carpenter	1	1	16.75	16.75			
Plastic washer	pkt	0.05	3.00	0.15	Helper	3	1	10.00	30.00			
Total (1:-01)				221.92	**Total (1:02)**				52.69	**Total (1:03)**		

A= Materials Unit Cost **221.92** Birr/m B= Manpower Unit Cost _ **8.11** Birr/m C=Equipment Unit Cost **0.39**
Total of (1:02) Total of (1:03)
Hourly Output __ Hourly output: _____
Direct Cost of Work Item = A+B+C = **230.42** Birr/m.
Over Head : 8% 18.43 Birr/m.
Profit Cost: 7% 16.13 Birr/m.
Total Unit Cost : . **264.98** Birr/m.

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

ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT: **ROOFING WORKS** LABOUR HOURLY OUTPUT: _ 2.5
WORK ITEM: (f) ***Grass roof*** EQUIPEMENT: 2.5
TOTAL QANTITY OF WORK ITEM: 1 m² RESULT: _____ **100.31** Birr/m².

Material Cost (1:01)					Labour (1:02)					Equipment Cost (1:03)		
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labour by Grade	No.	UF	** Indexed Hourly Cost	Hourly Cost	Type of Equipment	No.	Hourly Rental
Grass	m²	1.04	65.00	67.6	Foreman	1	0.25	23.75	5.94	Tools	2	1.28
Nail	kg	0.02	33.96	0.68	Carpenter	1	1	8.50	8.50			
Rope	ml	3	1.50	4.50	DL	3	1	6.38	19.13			
Total (1:-01)				72.78	**Total (1:02)**				33.56	**Total (1:03)**		

A= Materials Unit Cost **72.78** Birr/m B= Manpower Unit Cost _ **13.43** Birr/m C=Equipment Unit Cost **1.02**
Total of (1:02) Total of (1:03)
Hourly Output __ Hourly output: _____
Direct Cost of Work Item = A+B+C = **87.23** Birr/m.
Over Head : 8% 6.98 Birr/m.
Profit Cost: 7% 6.11 Birr/m.
Total Unit Cost : . **100.31** Birr/m.

Remark _____
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ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT: **ROOFING WORKS** LABOUR HOURLY OUTPUT: _ 2.5
WORK ITEM: (g) ***Mica roof*** EQUIPEMENT: 2.5
TOTAL QANTITY OF WORK ITEM: 1 m² RESULT: _____ **156.01** Birr/m².

_____ Data collected by _____-Prepared and checked by _____Approved by

Material Cost (1:01)					Labour (1:02)					Equipment Cost (1:03)		
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labour by Grade	No.	UF	** Indexed Hourly Cost	Hourly Cost	Type of Equipment	No.	Hourly Rental
Mica roof tile	m^2	1.04	110.00	114.4	Foreman	1	0.25	23.75	5.94	Tools	2	1.28
Roof Nail	kg	0.05	67.31	3.37	Carpenter	1	1	16.75	16.75			
Washer	pkt	0.05	3.00	0.15	DL	3	1	6.38	19.13			
Total (1:-01)				117.92	**Total (1:02)**				41.81	**Total (1:03)**		

A= Materials Unit Cost **117.92** Birr/m B= Manpower Unit Cost _ **16.73** Birr/m C=Equipment Unit Cost **1.02**

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

Hourly Output __ Hourly output: _____

Direct Cost of Work Item = A+B+C = **135.66** Birr/m.

Over Head : 8% 10.85 Birr/m.

Profit Cost: 7% 9.50 Birr/m.

Total Unit Cost : . **156.01** Birr/m.

Remark _____

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ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT: **ROOFING WORKS** LABOUR HOURLY OUTPUT: _ 2.5

WORK ITEM: (g) ***Sheet metal roof*** EQUIPEMENT: 2.5

TOTAL QANTITY OF WORK ITEM: 1 m^2 RESULT: _____ **215.81** Birr/m^2.

Material Cost (1:01)					Labour (1:02)					Equipment Cost (1:03)		
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labour by Grade	No.	UF	** Indexed Hourly Cost	Hourly Cost	Type of Equipment	No.	Hourly Rental
Sheet metal 0.8	m^2	1.04	160.00	166.4	Foreman	1	0.25	23.75	5.94	Tools	2	1.28
Roof Nail	kg	0.05	67.31	3.37	Carpenter	1	1	16.75	16.75			
Washer	pkt	0.05	3.00	0.15	DL	3	1	6.38	19.13			
Total (1:-01)				169.92	**Total (1:02)**				41.81	**Total (1:03)**		

A= Materials Unit Cost **169.92** Birr/m B= Manpower Unit Cost _ **16.73** Birr/m C=Equipment Unit Cost **1.02**

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

Hourly Output __ Hourly output: _____

Direct Cost of Work Item = A+B+C = **187.66** Birr/m.

Over Head : 8% 15.01 Birr/m.

Profit Cost: 7% 13.14 Birr/m.

Total Unit Cost : . **215.81** Birr/m.

Remark _____

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ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT: **ROOFING WORKS** LABOUR HOURLY OUTPUT: _ 1

WORK ITEM: (7.1.8) ***G-32 CIS roof cover inclding euca.truss , zigba purling & roof ridge*** EQUIPEMENT: 1

TOTAL QANTITY OF WORK ITEM: 1 m^2 RESULT: ___ **237.17** Birr/m^2.

Material Cost (1:01)	Labour (1:02)	Equipment Cost (1:03)

_____ Data collected by _____-Prepared and checked by _____Approved by

Type of Material	Unit	Qty *	Rate	Cost per Unit	Labour by Grade	No.	UF	** Indexed Hourly Cost	Hourly Cost	Type of Equipment	No.	Hourly Rental
G-32 CIS roof cover	m²	1.04	80.00	83.2	Foreman	1	0.25	23.75	5.94	Tools	2	1.28
Roof Nail	kg	0.05	67.31	3.37	Carpenter	1	1	16.75	16.75			
Washer	pkt	0.05	3.00	0.15	DL	3	1	6.38	19.13			
Eucaliptus truss	m²	0.77	26.36	20.27								
Zigba purline	m²	1.11	41.82	46.47								
G-28 Roof ridge	m²	0.1	84.04	8.40								
Total (1:-01)				161.86	**Total (1:02)**				41.81	**Total (1:03)**		

A= Materials Unit Cost **161.86** Birr/m B= Manpower Unit Cost _ **41.81** Birr/m C=Equipment Unit Cost **2.56**

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

Hourly Output __ Hourly output: _____

Direct Cost of Work Item = A+B+C = **206.23** Birr/m.

Over Head : 8% 16.50 Birr/m.

Profit Cost: 7% 14.44 Birr/m.

Total Unit Cost : . **237.17** Birr/m.

Remark _____

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ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT: **ROOFING WORKS** LABOUR HOURLY OUTPUT: _ 2.5

WORK ITEM: (7.1.9) ***EGA roof cover inclding RHS truss , RHS purlin & roof ridge*** EQUIPEMENT: 2.5

TOTAL QANTITY OF WORK ITEM: 1 m² RESULT: ___ **1653.41** Birr/m².

Material Cost (1:01)					Labour (1:02)					Equipment Cost (1:03)		
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labour by Grade	No.	UF	** Indexed Hourly Cost	Hourly Cost	Type of Equipment	No.	Hourly Rental
EGA 300 & 0.35mm. Thick	m²	1.04	80.00	83.2	Foreman	1	0.25	23.75	5.94	Tools	2	1.28
J-bolt	no	8	58	464.00	Carpenter	2	1	16.75	33.50			
Washer	pkt	0.05	3.00	0.15	DL	4	1	6.38	25.50			
50X50X3mm RHS Truss	m²	0.35	859.72	300.90								
30x30x2.5mm RHS truss	m²	0.23	335.82	77.24								
25x25x2.5mm RHS purline	m²	1.00	485.26	485.26								
Total (1:-01)				1410.75	**Total (1:02)**				64.94	**Total (1:03)**		

A= Materials Unit Cost **###** Birr/m B= Manpower Unit Cost _ **25.98** Birr/m C=Equipment Unit Cost **1.02**

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

Hourly Output __ Hourly output: _____

Direct Cost of Work Item = A+B+C = **1437.74** Birr/m.

Over Head : 8% 115.02 Birr/m.

Profit Cost: 7% 100.64 Birr/m.

Total Unit Cost : . **1653.41** Birr/m.

Remark _____

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ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT: **ROOFING WORKS** LABOUR HOURLY OUTPUT: _ 2.5

WORK ITEM: (7.1.10) ***CIS cladding for decorating roof prlin*** EQUIPEMENT: 2.5

TOTAL QANTITY OF WORK ITEM: 1 m² RESULT: ___ **246.23** Birr/m².

Material Cost (1:01)	Labour (1:02)	Equipment Cost (1:03)

_____ Data collected by _____-Prepared and checked by _____Approved by

Type of Material	Unit	Qty *	Rate	Cost per Unit	Labour by Grade	No.	UF	** Indexed Hourly Cost	Hourly Cost	Type of Equipment	No.	Hourly Rental
CIS	m^2	1.04	63.00	65.52	Foreman	1	0.25	23.75	5.94	Tools	2	1.28
Zigba purline (4x5cm)	ml	6	22.5	135	Carpenter	1	1	8.50	8.50			
Nail	kg	0.05	33.96	1.698	DL	2	1	6.38	12.75			
Total (1:-01)				202.22	**Total (1:02)**				27.19	**Total (1:03)**		

A= Materials Unit Cost **202.22** Birr/m B= Manpower Unit Cost _ **10.88** Birr/m C=Equipment Unit Cost **1.02**

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

Hourly Output __ Hourly output: _____

Direct Cost of Work Item = A+B+C = **214.12** Birr/m.

Over Head : 8% 17.13 Birr/m.

Profit Cost: 7% 14.99 Birr/m.

Total Unit Cost : . **246.23** Birr/m.

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: _ 2.5

WORK ITEM: (7.1.11) ***Tsid Timber cladding1cm for decorating roof purlin*** EQUIPEMENT: 2.5

TOTAL QANTITY OF WORK ITEM: 1 m^2 RESULT: ___ **316.36** Birr/m^2.

Material Cost (1:01)					Labour (1:02)					Equipment Cost (1:03)		
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labour by Grade	No.	UF	** Indexed Hourly Cost	Hourly Cost	Type of Equipment	No.	Hourly Rental
Tsid Timer 1cm thick	m^2	1.04	120.00	124.8	Foreman	1	0.25	23.75	5.94	Tools	2	1.28
Zigba purline (4x5cm)	ml	6	22.5	135	Carpenter	1	1	8.50	8.50			
Nail	kg	0.1	33.96	3.40	DL	2	1	6.38	12.75			
Total (1:-01)				263.20	**Total (1:02)**				27.19	**Total (1:03)**		

A= Materials Unit Cost **263.20** Birr/m B= Manpower Unit Cost _ **10.88** Birr/m C=Equipment Unit Cost **1.02**

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

Hourly Output __ Hourly output: _____

Direct Cost of Work Item = A+B+C = **275.10** Birr/m.

Over Head : 8% 22.01 Birr/m.

Profit Cost: 7% 19.26 Birr/m.

Total Unit Cost : . **316.36** Birr/m.

Remark _____

UF: UTILIZATION FACTOR

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

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

7.2 EGA roof cover

ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT: **ROOFING WORKS** LABOUR HOURLY OUTPUT: _ 3.31

WORK ITEM: (a) ***EGA 300 & 0.3mm. Thick roof cover*** EQUIPEMENT: 3.31

_____ Data collected by _____-Prepared and checked by _____Approved by

TOTAL QANTITY OF WORK ITEM: 1 m² RESULT: _____ **150.41** Birr/m².

Material Cost (1:01)					Labour (1:02)					Equipment Cost (1:03)		
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labour by Grade	No.	UF	** Indexed Hourly Cost	Hourly Cost	Type of Equipment	No.	Hourly Rental
EGA 300 & 0.30mm. Thick	m²	1.1	80.07	88.077	Foreman	1	0.25	23.75	5.94	Tools	2	1.28
J-BOLT & nut with washer	Pcs	6	4	24.00	Carpenter	1	1	8.50	8.50	Drill	1	15.00
					Helper	3	1	10.00	30.00			
Total (1:-01)				112.08	**Total (1:02)**				44.44	**Total (1:03)**		

A= Materials Unit Cost **112.08** Birr/m B= Manpower Unit Cost _ **13.42** Birr/m C=Equipment Unit Cost **5.30**

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

Hourly Output __ Hourly output: _____

Direct Cost of Work Item = A+B+C = **130.79** Birr/m.

Over Head : 8% 10.46 Birr/m.

Profit Cost: 7% 9.16 Birr/m.

Total Unit Cost : . **150.41** Birr/m.

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: _ 3.31

WORK ITEM: (b) ***EGA 300 & 0.35mm. Thick roof cover*** EQUIPEMENT: 3.31

TOTAL QANTITY OF WORK ITEM: 1 m² RESULT: _____ **167.29** Birr/m².

Material Cost (1:01)					Labour (1:02)					Equipment Cost (1:03)		
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labour by Grade	No.	UF	** Indexed Hourly Cost	Hourly Cost	Type of Equipment	No.	Hourly Rental
EGA 300 & 0.35mm. Thick	m²	1.1	93.41	102.757	Foreman	1	0.25	23.75	5.94	Tools	2	1.28
J-BOLT & nut with washer	Pcs	6	4	24.00	Carpenter	1	1	8.50	8.50	Drill	1	15.00
					Helper	3	1	10.00	30.00			
Total (1:-01)				126.76	**Total (1:02)**				44.44	**Total (1:03)**		

A= Materials Unit Cost **126.76** Birr/m B= Manpower Unit Cost _ **13.42** Birr/m C=Equipment Unit Cost **5.30**

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

Hourly Output __ Hourly output: _____

Direct Cost of Work Item = A+B+C = **145.47** Birr/m.

Over Head : 8% 11.64 Birr/m.

Profit Cost: 7% 10.18 Birr/m.

Total Unit Cost : . **167.29** Birr/m.

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: _ 3.31

WORK ITEM: (c) ***EGA 300 & 0.40mm. Thick roof cover*** EQUIPEMENT: 3.31

TOTAL QANTITY OF WORK ITEM: 1 m² RESULT: _____ **184.18** Birr/m².

_____ Data collected by _____-Prepared and checked by _____Approved by

Material Cost (1:01)					Labour (1:02)					Equipment Cost (1:03)		
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labour by Grade	No.	UF	** Indexed Hourly Cost	Hourly Cost	Type of Equipment	No.	Hourly Rental
EGA 300 & 0.40mm. Thick	m^2	1.1	106.76	117.436	Foreman	1	0.25	23.75	5.94	Tools	2	1.28
J-BOLT & nut with washer	Pcs	6	4	24.00	Carpenter	1	1	8.50	8.50	Drill	1	15.00
					Helper	3	1	10.00	30.00			
Total (1:-01)				141.44	**Total (1:02)**				44.44	**Total (1:03)**		

A= Materials Unit Cost **141.44** Birr/m

B= Manpower Unit Cost _ **13.42** Birr/m

Total of (1:02)

Hourly Output __

C=Equipment Unit Cost **5.30**

Total of (1:03)

Hourly output: _____

Direct Cost of Work Item = A+B+C = **160.15** Birr/m.

Over Head : 8% 12.81 Birr/m.

Profit Cost: 7% 11.21 Birr/m.

Total Unit Cost : . **184.18** Birr/m.

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**

WORK ITEM: (d) ***EGA 300 & 0.50mm. Thick roof cover***

TOTAL QANTITY OF WORK ITEM: 1 m^2

LABOUR HOURLY OUTPUT: _ 3.31

EQUIPEMENT: 3.31

RESULT: _____ **217.94** Birr/m^2.

Material Cost (1:01)					Labour (1:02)					Equipment Cost (1:03)		
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labour by Grade	No.	UF	** Indexed Hourly Cost	Hourly Cost	Type of Equipment	No.	Hourly Rental
EGA 300 & 0.50mm. Thick	m^2	1.1	133.45	146.795	Foreman	1	0.25	23.75	5.94	Tools	2	1.28
J-BOLT & nut with washer	Pcs	6	4	24.00	Carpenter	1	1	8.50	8.50	Drill	1	15.00
					Helper	3	1	10.00	30.00			
Total (1:-01)				170.80	**Total (1:02)**				44.44	**Total (1:03)**		

A= Materials Unit Cost **170.8** Birr/m

B= Manpower Unit Cost _ **13.42** Birr/m

Total of (1:02)

Hourly Output __

C=Equipment Unit Cost **5.30**

Total of (1:03)

Hourly output: _____

Direct Cost of Work Item = A+B+C = **189.51** Birr/m.

Over Head : 8% 15.16 Birr/m.

Profit Cost: 7% 13.27 Birr/m.

Total Unit Cost : . **217.94** Birr/m.

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**

WORK ITEM: (e) ***EGA 300 & 0.60mm. Thick roof cover***

TOTAL QANTITY OF WORK ITEM: 1 m^2

LABOUR HOURLY OUTPUT: _ 3.31

EQUIPEMENT: 3.31

RESULT: _____ **251.70** Birr/m^2.

Material Cost (1:01)	Labour (1:02)	Equipment Cost (1:03)

_____ Data collected by _____-Prepared and checked by _____Approved by

Type of Material	Unit	Qty *	Rate	Cost per Unit	Labour by Grade	No.	UF	** Indexed Hourly Cost	Hourly Cost	Type of Equipment	No.	Hourly Rental
EGA 300 & 0.60mm. Thick	m^2	1.1	160.14	176.154	Foreman	1	0.25	23.75	5.94	Tools	2	1.28
J-BOLT & nut with washer	Pcs	6	4	24.00	Carpenter	1	1	8.50	8.50	Drill	1	15.00
					Helper	3	1	10.00	30.00			
Total (1:-01)				200.15	**Total (1:02)**				44.44	**Total (1:03)**		

A= Materials Unit Cost **200.15** Birr/m

B= Manpower Unit Cost _ **13.42** Birr/m

Total of (1:02)

Hourly Output __

C=Equipment Unit Cost **5.30**

Total of (1:03)

Hourly output: _____

Direct Cost of Work Item = A+B+C = **218.87** Birr/m.

Over Head : 8% 17.51 Birr/m.

Profit Cost: 7% 15.32 Birr/m.

Total Unit Cost : . **251.70** Birr/m.

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**

WORK ITEM: (f) ***EGA 300 & 0.70mm. Thick roof cover***

TOTAL QANTITY OF WORK ITEM: 1 m^2

LABOUR HOURLY OUTPUT: _ 3.31

EQUIPEMENT: 3.31

RESULT: _____ **285.46** Birr/m^2.

Material Cost (1:01)					Labour (1:02)					Equipment Cost (1:03)		
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labour by Grade	No.	UF	** Indexed Hourly Cost	Hourly Cost	Type of Equipment	No.	Hourly Rental
EGA 300 & 0.70mm. Thick	m^2	1.1	186.83	205.513	Foreman	1	0.25	23.75	5.94	Tools	2	1.28
J-BOLT & nut with washer	Pcs	6	4	24.00	Carpenter	1	1	8.50	8.50	Drill	1	15.00
					Helper	3	1	10.00	30.00			
Total (1:-01)				229.51	**Total (1:02)**				44.44	**Total (1:03)**		

A= Materials Unit Cost **229.51** Birr/m

B= Manpower Unit Cost _ **13.42** Birr/m

Total of (1:02)

Hourly Output __

C=Equipment Unit Cost **5.30**

Total of (1:03)

Hourly output: _____

Direct Cost of Work Item = A+B+C = **248.23** Birr/m.

Over Head : 8% 19.86 Birr/m.

Profit Cost: 7% 17.38 Birr/m.

Total Unit Cost : . **285.46** Birr/m.

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**

WORK ITEM: (g) ***EGA 300 & 0.80mm. Thick roof cover***

TOTAL QANTITY OF WORK ITEM: 1 m^2

LABOUR HOURLY OUTPUT: _ 3.31

EQUIPEMENT: 3.31

RESULT: _____ **319.23** Birr/m^2.

Material Cost (1:01)	Labour (1:02)	Equipment Cost (1:03)

_____ Data collected by _____-Prepared and checked by _____Approved by

Type of Material	Unit	Qty *	Rate	Cost per Unit	Labour by Grade	No.	UF	** Indexed Hourly Cost	Hourly Cost	Type of Equipment	No.	Hourly Rental
EGA 300 & 0.80mm. Thick	m^2	1.1	213.52	234.872	Foreman	1	0.25	23.75	5.94	Tools	2	1.28
J-BOLT & nut with washer	Pcs	6	4	24.00	Carpenter	1	1	8.50	8.50	Drill	1	15.00
					Helper	3	1	10.00	30.00			
Total (1:-01)				258.87	**Total (1:02)**				44.44	**Total (1:03)**		

A= Materials Unit Cost **258.87** Birr/m

B= Manpower Unit Cost _ **13.42** Birr/m

Total of (1:02)

Hourly Output __

C=Equipment Unit Cost **5.30**

Total of (1:03)

Hourly output: _____

Direct Cost of Work Item = A+B+C = **277.59** Birr/m.

Over Head : 8% 22.21 Birr/m.

Profit Cost: 7% 19.43 Birr/m.

Total Unit Cost : **319.23** Birr/m.

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**

WORK ITEM: (h) ***EGA 300 & 1.00mm. Thick roof cover***

TOTAL QANTITY OF WORK ITEM: 1 m^2

LABOUR HOURLY OUTPUT: _ 3.31

EQUIPEMENT: 3.31

RESULT: _____ **352.99** Birr/m^2.

Material Cost (1:01)					Labour (1:02)					Equipment Cost (1:03)		
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labour by Grade	No.	UF	** Indexed Hourly Cost	Hourly Cost	Type of Equipment	No.	Hourly Rental
EGA 300 & 1.0mm. Thick	m^2	1.1	240.21	264.231	Foreman	1	0.25	23.75	5.94	Tools	2	1.28
J-BOLT & nut with washer	Pcs	6	4	24.00	Carpenter	1	1	8.50	8.50	Drill	1	15.00
					Helper	3	1	10.00	30.00			
Total (1:-01)				288.23	**Total (1:02)**				44.44	**Total (1:03)**		

A= Materials Unit Cost **288.23** Birr/m

B= Manpower Unit Cost _ **13.42** Birr/m

Total of (1:02)

Hourly Output __

C=Equipment Unit Cost **5.30**

Total of (1:03)

Hourly output: _____

Direct Cost of Work Item = A+B+C = **306.95** Birr/m.

Over Head : 8% 24.56 Birr/m.

Profit Cost: 7% 21.49 Birr/m.

Total Unit Cost : **352.99** Birr/m.

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**

WORK ITEM: (a) ***EGA 400 & 0.30mm. Thick roof cover***

TOTAL QANTITY OF WORK ITEM: 1 m^2

LABOUR HOURLY OUTPUT: _ 3.31

EQUIPEMENT: 3.31

RESULT: _____ **154.36** Birr/m^2.

Material Cost (1:01)	Labour (1:02)	Equipment Cost (1:03)

_____ Data collected by _____-Prepared and checked by _____Approved by

Type of Material	Unit	Qty *	Rate	Cost per Unit	Labour by Grade	No.	UF	** Indexed Hourly Cost	Hourly Cost	Type of Equipment	No.	Hourly Rental
EGA 400 & 0.30mm. Thick	m^2	1.1	83.19	91.5086	Foreman	1	0.25	23.75	5.94	Tools	2	1.28
J-BOLT & nut with washer	Pcs	6	4	24.00	Carpenter	1	1	8.50	8.50	Drill	1	15.00
					Helper	3	1	10.00	30.00			
Total (1:-01)				115.51	**Total (1:02)**				44.44	**Total (1:03)**		

A= Materials Unit Cost **115.51** Birr/m

B= Manpower Unit Cost _ **13.42** Birr/m

Total of (1:02)

Hourly Output __

C=Equipment Unit Cost **5.30**

Total of (1:03)

Hourly output: _____

Direct Cost of Work Item = A+B+C = **134.22** Birr/m.

Over Head : 8% 10.74 Birr/m.

Profit Cost: 7% 9.40 Birr/m.

Total Unit Cost : . **154.36** Birr/m.

Remark _____

UF: UTILIZATION FACTOR

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

ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT: **ROOFING WORKS**

WORK ITEM: (b) ***EGA 400 & 0.35mm. Thick roof cover***

TOTAL QANTITY OF WORK ITEM: 1 m^2

LABOUR HOURLY OUTPUT: _ 3.31

EQUIPEMENT: 3.31

RESULT: _____ **171.90** Birr/m^2.

Material Cost (1:01)					Labour (1:02)					Equipment Cost (1:03)		
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labour by Grade	No.	UF	** Indexed Hourly Cost	Hourly Cost	Type of Equipment	No.	Hourly Rental
EGA 400 & 0.35mm. Thick	m^2	1.1	97.05	106.76	Foreman	1	0.25	23.75	5.94	Tools	2	1.28
J-BOLT & nut with washer	Pcs	6	4	24.00	Carpenter	1	1	8.50	8.50	Drill	1	15.00
					Helper	3	1	10.00	30.00			
Total (1:-01)				130.76	**Total (1:02)**				44.44	**Total (1:03)**		

A= Materials Unit Cost **130.76** Birr/m

B= Manpower Unit Cost _ **13.42** Birr/m

Total of (1:02)

Hourly Output __

C=Equipment Unit Cost **5.30**

Total of (1:03)

Hourly output: _____

Direct Cost of Work Item = A+B+C = **149.48** Birr/m.

Over Head : 8% 11.96 Birr/m.

Profit Cost: 7% 10.46 Birr/m.

Total Unit Cost : . **171.90** Birr/m.

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**

WORK ITEM: (c) ***EGA 400 & 0.40mm. Thick roof cover***

TOTAL QANTITY OF WORK ITEM: 1 m^2

LABOUR HOURLY OUTPUT: _ 3.31

EQUIPEMENT: 3.31

RESULT: _____ **189.44** Birr/m^2.

Material Cost (1:01)	Labour (1:02)	Equipment Cost (1:03)

_____ Data collected by _____-Prepared and checked by _____Approved by

Type of Material	Unit	Qty *	Rate	Cost per Unit	Labour by Grade	No.	UF	** Indexed Hourly Cost	Hourly Cost	Type of Equipment	No.	Hourly Rental
EGA 400 & 0.40mm. Thick	m^2	1.1	110.92	122.011	Foreman	1	0.25	23.75	5.94	Tools	2	1.28
J-BOLT & nut with washer	Pcs	6	4	24.00	Carpenter	1	1	8.50	8.50	Drill	1	15.00
					Helper	3	1	10.00	30.00			
Total (1:-01)				146.01	**Total (1:02)**				44.44	**Total (1:03)**		

A= Materials Unit Cost **146** Birr/m

B= Manpower Unit Cost _ **13.42** Birr/m

Total of (1:02)

Hourly Output __

C=Equipment Unit Cost **5.30**

Total of (1:03)

Hourly output: _____

Direct Cost of Work Item = A+B+C = **164.73** Birr/m.

Over Head : 8% 13.18 Birr/m.

Profit Cost: 7% 11.53 Birr/m.

Total Unit Cost : . **189.44** Birr/m.

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**

WORK ITEM: (d) ***EGA 400 & 0.50mm. Thick roof cover***

TOTAL QANTITY OF WORK ITEM: 1 m^2

LABOUR HOURLY OUTPUT: _ 3.31

EQUIPEMENT: 3.31

RESULT: _____ **224.52** Birr/m^2.

Material Cost (1:01)					Labour (1:02)					Equipment Cost (1:03)		
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labour by Grade	No.	UF	** Indexed Hourly Cost	Hourly Cost	Type of Equipment	No.	Hourly Rental
EGA 400 & 0.50mm. Thick	m^2	1.1	138.65	152.514	Foreman	1	0.25	23.75	5.94	Tools	2	1.28
J-BOLT & nut with washer	Pcs	6	4	24.00	Carpenter	1	1	8.50	8.50	Drill	1	15.00
					Helper	3	1	10.00	30.00			
Total (1:-01)				176.51	**Total (1:02)**				44.44	**Total (1:03)**		

A= Materials Unit Cost **176.51** Birr/m

B= Manpower Unit Cost _ **13.42** Birr/m

Total of (1:02)

Hourly Output __

C=Equipment Unit Cost **5.30**

Total of (1:03)

Hourly output: _____

Direct Cost of Work Item = A+B+C = **195.23** Birr/m.

Over Head : 8% 15.62 Birr/m.

Profit Cost: 7% 13.67 Birr/m.

Total Unit Cost : . **224.52** Birr/m.

Remark _____

UF: UTILIZATION FACTOR

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

ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT: **ROOFING WORKS**

WORK ITEM: (e) ***EGA 400 & 0.60mm. Thick roof cover***

TOTAL QANTITY OF WORK ITEM: 1 m^2

LABOUR HOURLY OUTPUT: _ 3.31

EQUIPEMENT: 3.31

RESULT: _____ **224.52** Birr/m^2.

Material Cost (1:01)	Labour (1:02)	Equipment Cost (1:03)

_____ Data collected by _____-Prepared and checked by _____Approved by

Type of Material	Unit	Qty *	Rate	Cost per Unit	Labour by Grade	No.	UF	** Indexed Hourly Cost	Hourly Cost	Type of Equipment	No.	Hourly Rental
EGA 400 & 0.60mm. Thick	m^2	1.1	138.65	152.514	Foreman	1	0.25	23.75	5.94	Tools	2	1.28
J-BOLT & nut with washer	Pcs	6	4	24.00	Carpenter	1	1	8.50	8.50	Drill	1	15.00
					Helper	3	1	10.00	30.00			
Total (1:-01)				176.51	**Total (1:02)**				44.44	**Total (1:03)**		

A= Materials Unit Cost **176.51** Birr/m

B= Manpower Unit Cost _ **13.42** Birr/m

Total of (1:02)

Hourly Output __

C=Equipment Unit Cost **5.30**

Total of (1:03)

Hourly output: _____

Direct Cost of Work Item = A+B+C = **195.23** Birr/m.

Over Head : 8% 15.62 Birr/m.

Profit Cost: 7% 13.67 Birr/m.

Total Unit Cost : . **224.52** Birr/m.

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**

WORK ITEM: (f) ***EGA 400 & 0.70mm. Thick roof cover***

TOTAL QANTITY OF WORK ITEM: 1 m^2

LABOUR HOURLY OUTPUT: _ 6.00

EQUIPEMENT: 6.00

RESULT: _____ **388.40** Birr/m^2.

Material Cost (1:01)					Labour (1:02)					Equipment Cost (1:03)		
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labour by Grade	No.	UF	** Indexed Hourly Cost	Hourly Cost	Type of Equipment	No.	Hourly Rental
EGA 400 & 0.70mm. Thick	m^2	1.1	227.00	270	Foreman	1	0.25	33.00	8.25	Tools	2	1.28
J-BOLT & nut with washer	Pcs	6	4	24.00	Carpenter	1	1	37.00	37.00	Drill	1	15.00
					Helper	3	1	12.50	37.50			
Total (1:-01)				294.00	**Total (1:02)**				82.75	**Total (1:03)**		

A= Materials Unit Cost **294** Birr/m

B= Manpower Unit Cost _ **13.79** Birr/m

Total of (1:02)

Hourly Output __

C=Equipment Unit Cost **2.93**

Total of (1:03)

Hourly output: _____

Direct Cost of Work Item = A+B+C = **310.72** Birr/m.

Over Head : 10% 31.07 Birr/m.

Profit Cost: 15% 46.61 Birr/m.

Total Unit Cost : . **388.40** Birr/m.

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**

WORK ITEM: (g) ***EGA 400 & 0.80mm. Thick roof cover***

TOTAL QANTITY OF WORK ITEM: 1 m^2

LABOUR HOURLY OUTPUT: _ 3.31

EQUIPEMENT: 3.31

RESULT: _____ **329.75** Birr/m^2.

Material Cost (1:01)	Labour (1:02)	Equipment Cost (1:03)

_____ Data collected by _____-Prepared and checked by _____Approved by

Type of Material	Unit	Qty *	Rate	Cost per Unit	Labour by Grade	No.	UF	** Indexed Hourly Cost	Hourly Cost	Type of Equipment	No.	Hourly Rental
EGA 400 & 0.80mm. Thick	m^2	1.1	221.84	244.023	Foreman	1	0.25	23.75	5.94	Tools	2	1.28
J-BOLT & nut with washer	Pcs	6	4	24.00	Carpenter	1	1	8.50	8.50	Drill	1	15.00
					Helper	3	1	10.00	30.00			
Total (1:-01)				268.02	**Total (1:02)**				44.44	**Total (1:03)**		

A= Materials Unit Cost **268** Birr/m

B= Manpower Unit Cost _ **13.42** Birr/m

Total of (1:02)

Hourly Output __

C=Equipment Unit Cost **5.30**

Total of (1:03)

Hourly output: _____

Direct Cost of Work Item = A+B+C = **286.74** Birr/m.

Over Head : 8% 22.94 Birr/m.

Profit Cost: 7% 20.07 Birr/m.

Total Unit Cost : . **329.75** Birr/m.

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**

WORK ITEM: (h) ***EGA 400 & 1.00mm. Thick roof cover***

TOTAL QANTITY OF WORK ITEM: 1 m^2

LABOUR HOURLY OUTPUT: _ 3.31

EQUIPEMENT: 3.31

RESULT: _____ **364.83** Birr/m^2.

Material Cost (1:01)					Labour (1:02)					Equipment Cost (1:03)		
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labour by Grade	No.	UF	** Indexed Hourly Cost	Hourly Cost	Type of Equipment	No.	Hourly Rental
EGA 400 & 1.00mm. Thick	m^2	1.1	249.57	274.526	Foreman	1	0.25	23.75	5.94	Tools	2	1.28
J-BOLT & nut with washer	Pcs	6	4	24.00	Carpenter	1	1	8.50	8.50	Drill	1	15.00
					Helper	3	1	10.00	30.00			
Total (1:-01)				298.53	**Total (1:02)**				44.44	**Total (1:03)**		

A= Materials Unit Cost **298.53** Birr/m

B= Manpower Unit Cost _ **13.42** Birr/m

Total of (1:02)

Hourly Output __

C=Equipment Unit Cost **5.30**

Total of (1:03)

Hourly output: _____

Direct Cost of Work Item = A+B+C = **317.24** Birr/m.

Over Head : 8% 25.38 Birr/m.

Profit Cost: 7% 22.21 Birr/m.

Total Unit Cost : . **364.83** Birr/m.

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**

WORK ITEM: (a) ***EGA 500 & 0.3mm. Thick roof cover***

TOTAL QANTITY OF WORK ITEM: 1 m^2

LABOUR HOURLY OUTPUT: _ 3.31

EQUIPEMENT: 3.31

RESULT: _____ **163.25** Birr/m^2.

Material Cost (1:01)	Labour (1:02)	Equipment Cost (1:03)

_____ Data collected by _____-Prepared and checked by _____Approved by

Type of Material	Unit	Qty *	Rate	Cost per Unit	Labour by Grade	No.	UF	** Indexed Hourly Cost	Hourly Cost	Type of Equipment	No.	Hourly Rental
EGA 500 & 0.30mm. Thick	m^2	1.1	90.22	99.2417	Foreman	1	0.25	23.75	5.94	Tools	2	1.28
J-BOLT & nut with washer	Pcs	6	4	24.00	Carpenter	1	1	8.50	8.50	Drill	1	15.00
					Helper	3	1	10.00	30.00			
Total (1:-01)				123.24	**Total (1:02)**				44.44	**Total (1:03)**		

A= Materials Unit Cost **123.24** Birr/m

B= Manpower Unit Cost _ **13.42** Birr/m

Total of (1:02)

Hourly Output __

C=Equipment Unit Cost **5.30**

Total of (1:03)

Hourly output: _____

Direct Cost of Work Item = A+B+C = **141.96** Birr/m.

Over Head : 8% 11.36 Birr/m.

Profit Cost: 7% 9.94 Birr/m.

Total Unit Cost : . **163.25** Birr/m.

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**

WORK ITEM: (b) ***EGA 500 & 0.35mm. Thick roof cover***

TOTAL QANTITY OF WORK ITEM: 1 m^2

LABOUR HOURLY OUTPUT: _ 3.31

EQUIPEMENT: 3.31

RESULT: _____ **182.27** Birr/m^2.

Material Cost (1:01)					Labour (1:02)					Equipment Cost (1:03)		
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labour by Grade	No.	UF	** Indexed Hourly Cost	Hourly Cost	Type of Equipment	No.	Hourly Rental
EGA 500 & 0.35mm. Thick	m^2	1.1	105.26	115.782	Foreman	1	0.25	23.75	5.94	Tools	2	1.28
J-BOLT & nut with washer	Pcs	6	4	24.00	Carpenter	1	1	8.50	8.50	Drill	1	15.00
					Helper	3	1	10.00	30.00			
Total (1:-01)				139.78	**Total (1:02)**				44.44	**Total (1:03)**		

A= Materials Unit Cost **139.78** Birr/m

B= Manpower Unit Cost _ **13.42** Birr/m

Total of (1:02)

Hourly Output __

C=Equipment Unit Cost **5.30**

Total of (1:03)

Hourly output: _____

Direct Cost of Work Item = A+B+C = **158.50** Birr/m.

Over Head : 8% 12.68 Birr/m.

Profit Cost: 7% 11.09 Birr/m.

Total Unit Cost : . **182.27** Birr/m.

Remark _____

UF: UTILIZATION FACTOR

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

ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT: **ROOFING WORKS**

WORK ITEM: (c) ***EGA 500 & 0.40mm. Thick roof cover***

TOTAL QANTITY OF WORK ITEM: 1 m^2

LABOUR HOURLY OUTPUT: _ 6.00

EQUIPEMENT: 6.00

RESULT: _____ **392.85** Birr/m^2.

Material Cost (1:01)	Labour (1:02)	Equipment Cost (1:03)

_____ Data collected by _____-Prepared and checked by _____Approved by

Type of Material	Unit	Qty *	Rate	Cost per Unit	Labour by Grade	No.	UF	** Indexed Hourly Cost	Hourly Cost	Type of Equipment	No.	Hourly Rental
EGA 500 & 0.40mm. Thick	m^2	1.1	248.70	273.565	Foreman	1	0.25	33.00	8.25	Tools	2	1.28
J-BOLT & nut with washer	Pcs	6	4	24.00	Carpenter	1	1	37.00	37.00	Drill	1	15.00
					Helper	3	1	12.50	37.50			
Total (1:-01)				297.57	**Total (1:02)**				82.75	**Total (1:03)**		

A= Materials Unit Cost **297.57** Birr/m

B= Manpower Unit Cost _ **13.79** Birr/m

Total of (1:02)

Hourly Output __

C=Equipment Unit Cost **2.93**

Total of (1:03)

Hourly output: _____

Direct Cost of Work Item = A+B+C = **314.28** Birr/m.

Over Head : 10% 31.43 Birr/m.

Profit Cost: 15% 47.14 Birr/m.

Total Unit Cost : **392.85** Birr/m.

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**

WORK ITEM: (d) ***EGA 500 & 0.50mm. Thick roof cover***

TOTAL QANTITY OF WORK ITEM: 1 m^2

LABOUR HOURLY OUTPUT: _ 3.31

EQUIPEMENT: 3.31

RESULT: _____ **377.01** Birr/m^2.

Material Cost (1:01)					Labour (1:02)					Equipment Cost (1:03)		
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labour by Grade	No.	UF	** Indexed Hourly Cost	Hourly Cost	Type of Equipment	No.	Hourly Rental
EGA 500 & 0.50mm. Thick	m^2	1.1	256.93	282.625	Foreman	1	0.25	23.75	5.94	Tools	2	1.28
J-BOLT & nut with washer	Pcs	6	4	24.00	Carpenter	1	1	16.75	16.75	Drill	1	15.00
					Helper	3	1	10.00	30.00			
Total (1:-01)				306.63	**Total (1:02)**				52.69	**Total (1:03)**		

A= Materials Unit Cost **306.63** Birr/m

B= Manpower Unit Cost _ **15.91** Birr/m

Total of (1:02)

Hourly Output __

C=Equipment Unit Cost **5.30**

Total of (1:03)

Hourly output: _____

Direct Cost of Work Item = A+B+C = **327.83** Birr/m.

Over Head : 8% 26.23 Birr/m.

Profit Cost: 7% 22.95 Birr/m.

Total Unit Cost : **377.01** Birr/m.

Remark _____

UF: UTILIZATION FACTOR

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

ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT: **ROOFING WORKS**

WORK ITEM: (e) ***EGA 500 & 0.60mm. Thick roof cover***

TOTAL QANTITY OF WORK ITEM: 1 m^2

LABOUR HOURLY OUTPUT: _ 3.31

EQUIPEMENT: 3.31

RESULT: _____ **439.15** Birr/m^2.

Material Cost (1:01)	Labour (1:02)	Equipment Cost (1:03)

_____ Data collected by _____-Prepared and checked by _____Approved by

Type of Material	Unit	Qty *	Rate	Cost per Unit	Labour by Grade	No.	UF	** Indexed Hourly Cost	Hourly Cost	Type of Equipment	No.	Hourly Rental
EGA 500 & 0.60mm. Thick	m^2	1.1	308.32	339.15	Foreman	1	0.25	23.75	5.94	Tools	2	1.28
J-BOLT & nut with washer	Pcs	6	4	24.00	Carpenter	1	1	8.50	8.50	Drill	1	15.00
					Helper	3	1	10.00	30.00			
Total (1:-01)				363.15	**Total (1:02)**				44.44	**Total (1:03)**		

A= Materials Unit Cost **363.15** Birr/m

B= Manpower Unit Cost _ **13.42** Birr/m

Total of (1:02)

Hourly Output __

C=Equipment Unit Cost **5.30**

Total of (1:03)

Hourly output: _____

Direct Cost of Work Item = A+B+C = **381.87** Birr/m.

Over Head : 8% 30.55 Birr/m.

Profit Cost: 7% 26.73 Birr/m.

Total Unit Cost : . **439.15** Birr/m.

Remark _____

UF: UTILIZATION FACTOR

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

ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT: **ROOFING WORKS**

WORK ITEM: (f) ***EGA 500 & 0.70mm. Thick roof cover***

TOTAL QANTITY OF WORK ITEM: 1 m^2

LABOUR HOURLY OUTPUT: _ 3.31

EQUIPEMENT: 3.31

RESULT: _____ **504.15** Birr/m^2.

Material Cost (1:01)					Labour (1:02)					Equipment Cost (1:03)		
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labour by Grade	No.	UF	** Indexed Hourly Cost	Hourly Cost	Type of Equipment	No.	Hourly Rental
EGA 500 & 0.70mm. Thick	m^2	1.1	359.70	395.675	Foreman	1	0.25	23.75	5.94	Tools	2	1.28
J-BOLT & nut with washer	Pcs	6	4	24.00	Carpenter	1	1	8.50	8.50	Drill	1	15.00
					Helper	3	1	10.00	30.00			
Total (1:-01)				419.68	**Total (1:02)**				44.44	**Total (1:03)**		

A= Materials Unit Cost **419.68** Birr/m

B= Manpower Unit Cost _ **13.42** Birr/m

Total of (1:02)

Hourly Output __

C=Equipment Unit Cost **5.30**

Total of (1:03)

Hourly output: _____

Direct Cost of Work Item = A+B+C = **438.39** Birr/m.

Over Head : 8% 35.07 Birr/m.

Profit Cost: 7% 30.69 Birr/m.

Total Unit Cost : . **504.15** Birr/m.

Remark _____

UF: UTILIZATION FACTOR

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

ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT: **ROOFING WORKS**

WORK ITEM: (g) ***EGA 500 & 0.80mm. Thick roof cover***

TOTAL QANTITY OF WORK ITEM: 1 m^2

LABOUR HOURLY OUTPUT: _ 3.31

EQUIPEMENT: 3.31

RESULT: _____ **569.15** Birr/m^2.

Material Cost (1:01)	Labour (1:02)	Equipment Cost (1:03)

_____ Data collected by _____-Prepared and checked by _____Approved by

Type of Material	Unit	Qty *	Rate	Cost per Unit	Labour by Grade	No.	UF	** Indexed Hourly Cost	Hourly Cost	Type of Equipment	No.	Hourly Rental
EGA 500 & 0.80mm. Thick	m^2	1.1	411.09	452.2	Foreman	1	0.25	23.75	5.94	Tools	2	1.28
J-BOLT & nut with washer	Pcs	6	4	24.00	Carpenter	1	1	8.50	8.50	Drill	1	15.00
					Helper	3	1	10.00	30.00			
Total (1:-01)				476.20	**Total (1:02)**				44.44	**Total (1:03)**		

A= Materials Unit Cost **476.2** Birr/m B= Manpower Unit Cost _ **13.42** Birr/m C=Equipment Unit Cost **5.30**

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

Hourly Output __ Hourly output: _____

Direct Cost of Work Item = A+B+C = **494.92** Birr/m.

Over Head : 8% 39.59 Birr/m.

Profit Cost: 7% 34.64 Birr/m.

Total Unit Cost : . **569.15** Birr/m.

Remark _____

UF: UTILIZATION FACTOR

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

ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT: **ROOFING WORKS** LABOUR HOURLY OUTPUT: _ 3.31

WORK ITEM: (h) ***EGA 500 & 1.00mm. Thick roof cover*** EQUIPEMENT: 3.31

TOTAL QANTITY OF WORK ITEM: 1 m^2 RESULT: _____ **634.16** Birr/m^2.

Material Cost (1:01)					Labour (1:02)					Equipment Cost (1:03)		
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labour by Grade	No.	UF	** Indexed Hourly Cost	Hourly Cost	Type of Equipment	No.	Hourly Rental
EGA 500 & 1.00mm. Thick	m^2	1.1	462.48	508.725	Foreman	1	0.25	23.75	5.94	Tools	2	1.28
J-BOLT & nut with washer	Pcs	6	4	24.00	Carpenter	1	1	8.50	8.50	Drill	1	15.00
					Helper	3	1	10.00	30.00			
Total (1:-01)				532.73	**Total (1:02)**				44.44	**Total (1:03)**		

A= Materials Unit Cost **532.73** Birr/m B= Manpower Unit Cost _ **13.42** Birr/m C=Equipment Unit Cost **5.30**

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

Hourly Output __ Hourly output: _____

Direct Cost of Work Item = A+B+C = **551.44** Birr/m.

Over Head : 8% 44.12 Birr/m.

Profit Cost: 7% 38.60 Birr/m.

Total Unit Cost : . **634.16** Birr/m.

Remark _____

UF: UTILIZATION FACTOR

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

ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT: **ROOFING WORKS** LABOUR HOURLY OUTPUT: _ 3.31

WORK ITEM: (a) ***EGA 600 & 0.30mm. Thick roof cover*** EQUIPEMENT: 3.31

TOTAL QANTITY OF WORK ITEM: 1 m^2 RESULT: _____ **170.07** Birr/m^2.

Material Cost (1:01)	Labour (1:02)	Equipment Cost (1:03)

_____ Data collected by _____-Prepared and checked by _____Approved by

Type of Material	Unit	Qty *	Rate	Cost per Unit	Labour by Grade	No.	UF	** Indexed Hourly Cost	Hourly Cost	Type of Equipment	No.	Hourly Rental
EGA 600 & 0.30mm. Thick	m^2	1.1	95.61	105.167	Foreman	1	0.25	23.75	5.94	Tools	2	1.28
J-BOLT & nut with washer	Pcs	6	4	24.00	Carpenter	1	1	8.50	8.50	Drill	1	15.00
					Helper	3	1	10.00	30.00			
Total (1:-01)				129.17	**Total (1:02)**				44.44	**Total (1:03)**		

A= Materials Unit Cost **129.17** Birr/m B= Manpower Unit Cost _ **13.42** Birr/m C=Equipment Unit Cost **5.30**

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

Hourly Output __ Hourly output: _____

Direct Cost of Work Item = A+B+C = **147.88** Birr/m.

Over Head : 8% 11.83 Birr/m.

Profit Cost: 7% 10.35 Birr/m.

Total Unit Cost : . **170.07** Birr/m.

Remark _____

UF: UTILIZATION FACTOR

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

ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT: **ROOFING WORKS** LABOUR HOURLY OUTPUT: _ 3.31

WORK ITEM: (b) ***EGA 600 & 0.35mm. Thick roof cover*** EQUIPEMENT: 3.31

TOTAL QANTITY OF WORK ITEM: 1 m^2 RESULT: _____ **190.22** Birr/m^2.

Material Cost (1:01)					Labour (1:02)					Equipment Cost (1:03)		
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labour by Grade	No.	UF	** Indexed Hourly Cost	Hourly Cost	Type of Equipment	No.	Hourly Rental
EGA 600 & 0.35mm. Thick	m^2	1.1	111.54	122.694	Foreman	1	0.25	23.75	5.94	Tools	2	1.28
J-BOLT & nut with washer	Pcs	6	4	24.00	Carpenter	1	1	8.50	8.50	Drill	1	15.00
					Helper	3	1	10.00	30.00			
Total (1:-01)				146.69	**Total (1:02)**				44.44	**Total (1:03)**		

A= Materials Unit Cost **146.69** Birr/m B= Manpower Unit Cost _ **13.42** Birr/m C=Equipment Unit Cost **5.30**

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

Hourly Output __ Hourly output: _____

Direct Cost of Work Item = A+B+C = **165.41** Birr/m.

Over Head : 8% 13.23 Birr/m.

Profit Cost: 7% 11.58 Birr/m.

Total Unit Cost : . **190.22** Birr/m.

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: _ 3.31

WORK ITEM: (c) ***EGA 600 & 0.40mm. Thick roof cover*** EQUIPEMENT: 3.31

TOTAL QANTITY OF WORK ITEM: 1 m^2 RESULT: _____ **210.38** Birr/m^2.

Material Cost (1:01)	Labour (1:02)	Equipment Cost (1:03)

_____ Data collected by _____-Prepared and checked by _____Approved by

Type of Material	Unit	Qty *	Rate	Cost per Unit	Labour by Grade	No.	UF	** Indexed Hourly Cost	Hourly Cost	Type of Equipment	No.	Hourly Rental
EGA 600 & 0.40mm. Thick	m^2	1.1	127.47	140.222	Foreman	1	0.25	23.75	5.94	Tools	2	1.28
J-BOLT & nut with washer	Pcs	6	4	24.00	Carpenter	1	1	8.50	8.50	Drill	1	15.00
					Helper	3	1	10.00	30.00			
Total (1:-01)				164.22	**Total (1:02)**				44.44	**Total (1:03)**		

A= Materials Unit Cost **164.22** Birr/m B= Manpower Unit Cost _ **13.42** Birr/m C=Equipment Unit Cost **5.30**

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

Hourly Output __ Hourly output: _____

Direct Cost of Work Item = A+B+C = **182.94** Birr/m.

Over Head : 8% 14.64 Birr/m.

Profit Cost: 7% 12.81 Birr/m.

Total Unit Cost : . **210.38** Birr/m.

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: _ 3.31

WORK ITEM: (d) ***EGA 600 & 0.50mm. Thick roof cover*** EQUIPEMENT: 3.31

TOTAL QANTITY OF WORK ITEM: 1 m^2 RESULT: _____ **250.69** Birr/m^2.

Material Cost (1:01)					Labour (1:02)					Equipment Cost (1:03)		
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labour by Grade	No.	UF	** Indexed Hourly Cost	Hourly Cost	Type of Equipment	No.	Hourly Rental
EGA 600 & 0.50mm. Thick	m^2	1.1	159.34	175.278	Foreman	1	0.25	23.75	5.94	Tools	2	1.28
J-BOLT & nut with washer	Pcs	6	4	24.00	Carpenter	1	1	8.50	8.50	Drill	1	15.00
					Helper	3	1	10.00	30.00			
Total (1:-01)				199.28	**Total (1:02)**				44.44	**Total (1:03)**		

A= Materials Unit Cost **199.28** Birr/m B= Manpower Unit Cost _ **13.42** Birr/m C=Equipment Unit Cost **5.30**

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

Hourly Output __ Hourly output: _____

Direct Cost of Work Item = A+B+C = **217.99** Birr/m.

Over Head : 8% 17.44 Birr/m.

Profit Cost: 7% 15.26 Birr/m.

Total Unit Cost : . **250.69** Birr/m.

Remark _____

UF: UTILIZATION FACTOR

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

ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT: **ROOFING WORKS** LABOUR HOURLY OUTPUT: _ 3.31

WORK ITEM: (e) ***EGA 600 & 0.60mm. Thick roof cover*** EQUIPEMENT: 3.31

TOTAL QANTITY OF WORK ITEM: 1 m^2 RESULT: _____ **291.01** Birr/m^2.

Material Cost (1:01)	Labour (1:02)	Equipment Cost (1:03)

_____ Data collected by _____-Prepared and checked by _____Approved by

Type of Material	Unit	Qty *	Rate	Cost per Unit	Labour by Grade	No.	UF	** Indexed Hourly Cost	Hourly Cost	Type of Equipment	No.	Hourly Rental
EGA 600 & 0.60mm. Thick	m^2	1.1	191.21	210.333	Foreman	1	0.25	23.75	5.94	Tools	2	1.28
J-BOLT & nut with washer	Pcs	6	4	24.00	Carpenter	1	1	8.50	8.50	Drill	1	15.00
					Helper	3	1	10.00	30.00			
Total (1:-01)				234.33	**Total (1:02)**				44.44	**Total (1:03)**		

A= Materials Unit Cost **234.33** Birr/m B= Manpower Unit Cost _ **13.42** Birr/m C=Equipment Unit Cost **5.30**

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

Hourly Output __ Hourly output: _____

Direct Cost of Work Item = A+B+C = **253.05** Birr/m.

Over Head : 8% 20.24 Birr/m.

Profit Cost: 7% 17.71 Birr/m.

Total Unit Cost : . **291.01** Birr/m.

Remark _____

UF: UTILIZATION FACTOR

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

ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT: **ROOFING WORKS** LABOUR HOURLY OUTPUT: _ 3.31

WORK ITEM: (f) ***EGA 600 & 0.70mm. Thick roof cover*** EQUIPEMENT: 3.31

TOTAL QANTITY OF WORK ITEM: 1 m^2 RESULT: _____ **331.32** Birr/m^2.

Material Cost (1:01)					Labour (1:02)					Equipment Cost (1:03)		
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labour by Grade	No.	UF	** Indexed Hourly Cost	Hourly Cost	Type of Equipment	No.	Hourly Rental
EGA 600 & 0.70mm. Thick	m^2	1.1	223.08	245.389	Foreman	1	0.25	23.75	5.94	Tools	2	1.28
J-BOLT & nut with washer	Pcs	6	4	24.00	Carpenter	1	1	8.50	8.50	Drill	1	15.00
					Helper	3	1	10.00	30.00			
Total (1:-01)				269.39	**Total (1:02)**				44.44	**Total (1:03)**		

A= Materials Unit Cost **269.39** Birr/m B= Manpower Unit Cost _ **13.42** Birr/m C=Equipment Unit Cost **5.30**

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

Hourly Output __ Hourly output: _____

Direct Cost of Work Item = A+B+C = **288.10** Birr/m.

Over Head : 8% 23.05 Birr/m.

Profit Cost: 7% 20.17 Birr/m.

Total Unit Cost : . **331.32** Birr/m.

Remark _____

UF: UTILIZATION FACTOR

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

ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT: **ROOFING WORKS** LABOUR HOURLY OUTPUT: _ 3.31

WORK ITEM: (g) ***EGA 600 & 0.80mm. Thick roof cover*** EQUIPEMENT: 3.31

TOTAL QANTITY OF WORK ITEM: 1 m^2 RESULT: _____ **371.63** Birr/m^2.

Material Cost (1:01)	Labour (1:02)	Equipment Cost (1:03)

_____ Data collected by _____-Prepared and checked by _____Approved by

Type of Material	Unit	Qty *	Rate	Cost per Unit	Labour by Grade	No.	UF	** Indexed Hourly Cost	Hourly Cost	Type of Equipment	No.	Hourly Rental
EGA 600 & 0.8mm. Thick	m^2	1.1	254.95	280.444	Foreman	1	0.25	23.75	5.94	Tools	2	1.28
J-BOLT & nut with washer	Pcs	6	4	24.00	Carpenter	1	1	8.50	8.50	Drill	1	15.00
					Helper	3	1	10.00	30.00			
Total (1:-01)				304.44	**Total (1:02)**				44.44	**Total (1:03)**		

A= Materials Unit Cost **304.44** Birr/m B= Manpower Unit Cost _ **13.42** Birr/m C=Equipment Unit Cost **5.30**

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

Hourly Output __ Hourly output: _____

Direct Cost of Work Item = A+B+C = **323.16** Birr/m.

Over Head : 8% 25.85 Birr/m.

Profit Cost: 7% 22.62 Birr/m.

Total Unit Cost : . **371.63** Birr/m.

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: _ 3.31

WORK ITEM: (h) ***EGA 600 & 1.00mm. Thick roof cover*** EQUIPEMENT: 3.31

TOTAL QANTITY OF WORK ITEM: 1 m^2 RESULT: _____ **411.95** Birr/m^2.

Material Cost (1:01)					Labour (1:02)					Equipment Cost (1:03)		
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labour by Grade	No.	UF	** Indexed Hourly Cost	Hourly Cost	Type of Equipment	No.	Hourly Rental
EGA 600 & 1.00mm. Thick	m^2	1.1	286.82	315.5	Foreman	1	0.25	23.75	5.94	Tools	2	1.28
J-BOLT & nut with washer	Pcs	6	4	24.00	Carpenter	1	1	8.50	8.50	Drill	1	15.00
					Helper	3	1	10.00	30.00			
Total (1:-01)				339.50	**Total (1:02)**				44.44	**Total (1:03)**		

A= Materials Unit Cost **339.5** Birr/m B= Manpower Unit Cost _ **13.42** Birr/m C=Equipment Unit Cost **5.30**

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

Hourly Output __ Hourly output: _____

Direct Cost of Work Item = A+B+C = **358.22** Birr/m.

Over Head : 8% 28.66 Birr/m.

Profit Cost: 7% 25.08 Birr/m.

Total Unit Cost : . **411.95** Birr/m.

Remark _____

UF: UTILIZATION FACTOR

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

ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT: **ROOFING WORKS** LABOUR HOURLY OUTPUT: _ 3.31

WORK ITEM: (a) ***EGA 700 & 0.30mm. Thick roof cover*** EQUIPEMENT: 3.31

TOTAL QANTITY OF WORK ITEM: 1 m^2 RESULT: _____ **177.74** Birr/m^2.

Material Cost (1:01)	Labour (1:02)	Equipment Cost (1:03)

_____ Data collected by _____-Prepared and checked by _____Approved by

Type of Material	Unit	Qty *	Rate	Cost per Unit	Labour by Grade	No.	UF	** Indexed Hourly Cost	Hourly Cost	Type of Equipment	No.	Hourly Rental
EGA 700 & 0.3mm. Thick	m^2	1.1	101.68	111.844	Foreman	1	0.25	23.75	5.94	Tools	2	1.28
J-BOLT & nut with washer	Pcs	6	4	24.00	Carpenter	1	1	8.50	8.50	Drill	1	15.00
					Helper	3	1	10.00	30.00			
Total (1:-01)				135.84	**Total (1:02)**				44.44	**Total (1:03)**		

A= Materials Unit Cost **135.84** Birr/m B= Manpower Unit Cost _ **13.42** Birr/m C=Equipment Unit Cost **5.30**

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

Hourly Output __ Hourly output: _____

Direct Cost of Work Item = A+B+C = **154.56** Birr/m.

Over Head : 8% 12.36 Birr/m.

Profit Cost: 7% 10.82 Birr/m.

Total Unit Cost : . **177.74** Birr/m.

Remark _____

UF: UTILIZATION FACTOR

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

ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT: **ROOFING WORKS** LABOUR HOURLY OUTPUT: _ 3.31

WORK ITEM: (b) ***EGA 700 & 0.35mm. Thick roof cover*** EQUIPEMENT: 3.31

TOTAL QANTITY OF WORK ITEM: 1 m^2 RESULT: _____ **199.18** Birr/m^2.

Material Cost (1:01)					Labour (1:02)					Equipment Cost (1:03)		
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labour by Grade	No.	UF	** Indexed Hourly Cost	Hourly Cost	Type of Equipment	No.	Hourly Rental
EGA 700 & 0.35mm. Thick	m^2	1.1	118.62	130.484	Foreman	1	0.25	23.75	5.94	Tools	2	1.28
J-BOLT & nut with washer	Pcs	6	4	24.00	Carpenter	1	1	8.50	8.50	Drill	1	15.00
					Helper	3	1	10.00	30.00			
Total (1:-01)				154.48	**Total (1:02)**				44.44	**Total (1:03)**		

A= Materials Unit Cost **154.48** Birr/m B= Manpower Unit Cost _ **13.42** Birr/m C=Equipment Unit Cost **5.30**

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

Hourly Output __ Hourly output: _____

Direct Cost of Work Item = A+B+C = **173.20** Birr/m.

Over Head : 8% 13.86 Birr/m.

Profit Cost: 7% 12.12 Birr/m.

Total Unit Cost : . **199.18** Birr/m.

Remark _____

UF: UTILIZATION FACTOR

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

ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT: **ROOFING WORKS** LABOUR HOURLY OUTPUT: _ 3.31

WORK ITEM: (c) ***EGA 700 & 0.40mm. Thick roof cover*** EQUIPEMENT: 3.31

TOTAL QANTITY OF WORK ITEM: 1 m^2 RESULT: _____ **220.62** Birr/m^2.

Material Cost (1:01)	Labour (1:02)	Equipment Cost (1:03)

_____ Data collected by _____-Prepared and checked by _____Approved by

Type of Material	Unit	Qty *	Rate	Cost per Unit	Labour by Grade	No.	UF	** Indexed Hourly Cost	Hourly Cost	Type of Equipment	No.	Hourly Rental
EGA 700 & 0.4mm. Thick	m^2	1.1	135.57	149.125	Foreman	1	0.25	23.75	5.94	Tools	2	1.28
J-BOLT & nut with washer	Pcs	6	4	24.00	Carpenter	1	1	8.50	8.50	Drill	1	15.00
					Helper	3	1	10.00	30.00			
Total (1:-01)				173.13	**Total (1:02)**				44.44	**Total (1:03)**		

A= Materials Unit Cost **173.13** Birr/m B= Manpower Unit Cost _ **13.42** Birr/m C=Equipment Unit Cost **5.30**

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

Hourly Output __ Hourly output: _____

Direct Cost of Work Item = A+B+C = **191.84** Birr/m.

Over Head : 8% 15.35 Birr/m.

Profit Cost: 7% 13.43 Birr/m.

Total Unit Cost : . **220.62** Birr/m.

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: _ 3.31

WORK ITEM: (d) ***EGA 700 & 0.50mm. Thick roof cover*** EQUIPEMENT: 3.31

TOTAL QANTITY OF WORK ITEM: 1 m^2 RESULT: _____ **263.49** Birr/m^2.

Material Cost (1:01)					Labour (1:02)					Equipment Cost (1:03)		
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labour by Grade	No.	UF	** Indexed Hourly Cost	Hourly Cost	Type of Equipment	No.	Hourly Rental
EGA 700 & 0.5mm. Thick	m^2	1.1	169.46	186.406	Foreman	1	0.25	23.75	5.94	Tools	2	1.28
J-BOLT & nut with washer	Pcs	6	4	24.00	Carpenter	1	1	8.50	8.50	Drill	1	15.00
					Helper	3	1	10.00	30.00			
Total (1:-01)				210.41	**Total (1:02)**				44.44	**Total (1:03)**		

A= Materials Unit Cost **210.41** Birr/m B= Manpower Unit Cost _ **13.42** Birr/m C=Equipment Unit Cost **5.30**

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

Hourly Output __ Hourly output: _____

Direct Cost of Work Item = A+B+C = **229.12** Birr/m.

Over Head : 8% 18.33 Birr/m.

Profit Cost: 7% 16.04 Birr/m.

Total Unit Cost : . **263.49** Birr/m.

Remark _____

UF: UTILIZATION FACTOR

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ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT: **ROOFING WORKS** LABOUR HOURLY OUTPUT: _ 3.31

WORK ITEM: (e) ***EGA 700 & 0.60mm. Thick roof cover*** EQUIPEMENT: 3.31

TOTAL QANTITY OF WORK ITEM: 1 m^2 RESULT: _____ **306.36** Birr/m^2.

Material Cost (1:01)	Labour (1:02)	Equipment Cost (1:03)

_____ Data collected by _____-Prepared and checked by _____Approved by

Type of Material	Unit	Qty *	Rate	Cost per Unit	Labour by Grade	No.	UF	** Indexed Hourly Cost	Hourly Cost	Type of Equipment	No.	Hourly Rental
EGA 700 & 0.6mm. Thick	m^2	1.1	203.35	223.688	Foreman	1	0.25	23.75	5.94	Tools	2	1.28
J-BOLT & nut with washer	Pcs	6	4	24.00	Carpenter	1	1	8.50	8.50	Drill	1	15.00
					Helper	3	1	10.00	30.00			
Total (1:-01)				247.69	**Total (1:02)**				44.44	**Total (1:03)**		

A= Materials Unit Cost **247.69** Birr/m B= Manpower Unit Cost _ **13.42** Birr/m C=Equipment Unit Cost **5.30**

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

Hourly Output __ Hourly output: _____

Direct Cost of Work Item = A+B+C = **266.40** Birr/m.

Over Head : 8% 21.31 Birr/m.

Profit Cost: 7% 18.65 Birr/m.

Total Unit Cost : . **306.36** Birr/m.

Remark _____

UF: UTILIZATION FACTOR

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

ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT: **ROOFING WORKS** LABOUR HOURLY OUTPUT: _ 3.31

WORK ITEM: (f) ***EGA 700 & 0.70mm. Thick roof cover*** EQUIPEMENT: 3.31

TOTAL QANTITY OF WORK ITEM: 1 m^2 RESULT: _____ **349.24** Birr/m^2.

Material Cost (1:01)					Labour (1:02)					Equipment Cost (1:03)		
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labour by Grade	No.	UF	** Indexed Hourly Cost	Hourly Cost	Type of Equipment	No.	Hourly Rental
EGA 700 & 0.7mm. Thick	m^2	1.1	237.24	260.969	Foreman	1	0.25	23.75	5.94	Tools	2	1.28
J-BOLT & nut with washer	Pcs	6	4	24.00	Carpenter	1	1	8.50	8.50	Drill	1	15.00
					Helper	3	1	10.00	30.00			
Total (1:-01)				284.97	**Total (1:02)**				44.44	**Total (1:03)**		

A= Materials Unit Cost **285** Birr/m B= Manpower Unit Cost _ **13.42** Birr/m C=Equipment Unit Cost **5.30**

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

Hourly Output __ Hourly output: _____

Direct Cost of Work Item = A+B+C = **303.69** Birr/m.

Over Head : 8% 24.29 Birr/m.

Profit Cost: 7% 21.26 Birr/m.

Total Unit Cost : . **349.24** Birr/m.

Remark _____

UF: UTILIZATION FACTOR

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

ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT: **ROOFING WORKS** LABOUR HOURLY OUTPUT: _ 3.31

WORK ITEM: (g) ***EGA 700 & 0.80mm. Thick roof cover*** EQUIPEMENT: 3.31

TOTAL QANTITY OF WORK ITEM: 1 m^2 RESULT: _____ **392.11** Birr/m^2.

Material Cost (1:01)	Labour (1:02)	Equipment Cost (1:03)

_____ Data collected by _____-Prepared and checked by _____Approved by

Type of Material	Unit	Qty *	Rate	Cost per Unit	Labour by Grade	No.	UF	** Indexed Hourly Cost	Hourly Cost	Type of Equipment	No.	Hourly Rental
EGA 700 & 0.8mm. Thick	m^2	1.1	271.14	298.25	Foreman	1	0.25	23.75	5.94	Tools	2	1.28
J-BOLT & nut with washer	Pcs	6	4	24.00	Carpenter	1	1	8.50	8.50	Drill	1	15.00
					Helper	3	1	10.00	30.00			
Total (1:-01)				322.25	**Total (1:02)**				44.44	**Total (1:03)**		

A= Materials Unit Cost **322.25** Birr/m B= Manpower Unit Cost _ **13.42** Birr/m C=Equipment Unit Cost **5.30**

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

Hourly Output __ Hourly output: _____

Direct Cost of Work Item = A+B+C = **340.97** Birr/m.

Over Head : 8% 27.28 Birr/m.

Profit Cost: 7% 23.87 Birr/m.

Total Unit Cost : . **392.11** Birr/m.

Remark _____

UF: UTILIZATION FACTOR

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

ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT: **ROOFING WORKS** LABOUR HOURLY OUTPUT: _ 3.31

WORK ITEM: (h) ***EGA 700 & 1.00mm. Thick roof cover*** EQUIPEMENT: 3.31

TOTAL QANTITY OF WORK ITEM: 1 m^2 RESULT: _____ **434.98** Birr/m^2.

Material Cost (1:01)					Labour (1:02)					Equipment Cost (1:03)		
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labour by Grade	No.	UF	** Indexed Hourly Cost	Hourly Cost	Type of Equipment	No.	Hourly Rental
EGA 700 & 1.00mm. Thick	m^2	1.1	305.03	335.531	Foreman	1	0.25	23.75	5.94	Tools	2	1.28
J-BOLT & nut with washer	Pcs	6	4	24.00	Carpenter	1	1	8.50	8.50	Drill	1	15.00
					Helper	3	1	10.00	30.00			
Total (1:-01)				359.53	**Total (1:02)**				44.44	**Total (1:03)**		

A= Materials Unit Cost **359.53** Birr/m B= Manpower Unit Cost _ **13.42** Birr/m C=Equipment Unit Cost **5.30**

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

Hourly Output __ Hourly output: _____

Direct Cost of Work Item = A+B+C = **378.25** Birr/m.

Over Head : 8% 30.26 Birr/m.

Profit Cost: 7% 26.48 Birr/m.

Total Unit Cost : . **434.98** Birr/m.

Remark _____

UF: UTILIZATION FACTOR

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7.3 Galvanized metal sheet gutter

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: **ROOFING WORKS** LABOUR DAILY OUTPUT: 5

WORK ITEM : (a) ***G-28 galvanized metal sheet gutter , Development le*** EQUIPEMENT DAILY OUT PUT: 5

TOTAL QANTITY OF WORK ITEM: 1 ml RESULT : **132.39** Birr/ml

Material Cost (1:01)	**Labor Cost (1:02)**	**ɔment Cost (1:03)**

_____ Data collected by _____-Prepared and checked by _____Approved by

Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	** Indexed Hourly Cost	Daily wage	Type of Equipment	No.	Hourly Rental
G-28 G.I.sheet	ml	1.02	98.26	100.23	Forman	1	0.25	23.75	5.94	Tool	2.00	1.28
Metal bracket	No	1	5.50	5.50	Carpenter II	1	1	8.50	8.50			
Fixer	No	3	0.5		helper	3	1	10.00	30.00			
Total (1:-01)				**105.73**	**Total (1:02)**				**44.44**	**Total (1:03)**		

A= Material unit cost 105.73 Birr/ml **B=Manpower Unit Cost** 8.89 Birr/ml **C=Equipment Unit Cost** 0.51

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

Daily Output Daily output:

Direct Cost of work item = A + B + C = **115.12** Birr/ml

Overhead Cost : 8% 9.21 Birr/ml

Profit Cost: 7% 8.06 Birr/ml

Total: **132.39** Birr/ml

Remark : _____

UF: UTILIZATION FACTOR **Total Unit Cost :** **132.39** Birr/ml

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

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

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: **ROOFING WORKS** LABOUR DAILY OUTPUT: 5

WORK ITEM : (b) ***G-30 galvanized metal sheet gutter , Development le*** EQUIPEMENT DAILY OUT PUT: 5

TOTAL QANTITY OF WORK ITEM: 1 ml RESULT : **79.24** Birr/ml

Material Cost (1:01)					**Labor Cost (1:02)**					**ɔment Cost (1:03)**		
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	** Indexed Hourly Cost	Daily wage	Type of Equipment	No.	Hourly Rental
G-30 G.I.sheet	ml	1.02	52.95	54.01	Forman	1	0.25	23.75	5.94	Tool	2.00	1.28
Metal bracket	No	1	5.50	5.50	Carpenter II	1	1	8.50	8.50			
Fixer	No	3	0.5		helper	3	1	10.00	30.00			
Total (1:-01)				**59.51**	**Total (1:02)**				**44.44**	**Total (1:03)**		

A= Material unit cost 59.509 Birr/ml **B=Manpower Unit Cost** 8.89 Birr/ml **C=Equipment Unit Cost** 0.51

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

Daily Output Daily output:

Direct Cost of work item = A + B + C = **68.91** Birr/ml

Overhead Cost : 8% 5.51 Birr/ml

Profit Cost: 7% 4.82 Birr/ml

Total: **79.24** Birr/ml

Remark : _____

UF: UTILIZATION FACTOR **Total Unit Cost :** **79.24** Birr/ml

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

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

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: **ROOFING WORKS** LABOUR DAILY OUTPUT: 5

WORK ITEM : (c) ***G-28 galvanized metal sheet gutter , Development le*** EQUIPEMENT DAILY OUT PUT: 5

TOTAL QANTITY OF WORK ITEM: 1 ml RESULT : **103.91** Birr/ml

Material Cost (1:01)	**Labor Cost (1:02)**	**ɔment Cost (1:03)**

_____ Data collected by _____-Prepared and checked by _____Approved by

Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	** Indexed Hourly Cost	Daily wage	Type of Equipment	No.	Hourly Rental
G-28 G.I.sheet	ml	1.02	73.00	74.46	Forman	1	0.25	23.75	5.94	Tool	2.00	1.28
Metal bracket	No	1	6.50	6.50	Carpenter II	1	1	8.50	8.50			
Fixer	No	3	0.5		helper	3	1	10.00	30.00			
Total (1:-01)				**80.96**	**Total (1:02)**				**44.44**	**Total (1:03)**		

A= Material unit cost 80.96 Birr/ml **B=Manpower Unit Cost** 8.89 Birr/ml **C=Equipment Unit Cost** 0.51

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

Daily Output Daily output:

Direct Cost of work item = A + B + C = **90.36** Birr/ml

Overhead Cost : 8% 7.23 Birr/ml

Profit Cost: 7% 6.33 Birr/ml

Total: **103.91** Birr/ml

Remark : _____

UF: UTILIZATION FACTOR **Total Unit Cost :** **103.91** Birr/ml

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

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

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: **ROOFING WORKS** LABOUR DAILY OUTPUT: 5

WORK ITEM : (d) ***G-30 galvanized metal sheet gutter , Development le*** EQUIPEMENT DAILY OUT PUT: 5

TOTAL QANTITY OF WORK ITEM: 1 ml RESULT : **91.73** Birr/ml

Material Cost (1:01)					**Labor Cost (1:02)**					**ɔment Cost (1:03)**		
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	** Indexed Hourly Cost	Daily wage	Type of Equipment	No.	Hourly Rental
G-30 G.I.sheet	ml	1.02	61.00	62.22	Forman	1	0.25	23.75	5.94	Tool	2.00	1.28
Metal bracket	No	1	6.50	6.50	Carpenter II	1	1	16.75	16.75			
Fixer	No	3	0.5		helper	3	1	10.00	30.00			
Total (1:-01)				**68.72**	**Total (1:02)**				**52.69**	**Total (1:03)**		

A= Material unit cost 68.72 Birr/ml **B=Manpower Unit Cost** 10.54 Birr/ml **C=Equipment Unit Cost** 0.51

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

Daily Output Daily output:

Direct Cost of work item = A + B + C = **79.77** Birr/ml

Overhead Cost : 8% 6.38 Birr/ml

Profit Cost: 7% 5.58 Birr/ml

Total: **91.73** Birr/ml

Remark : _____

UF: UTILIZATION FACTOR **Total Unit Cost :** **91.73** Birr/ml

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

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

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: **ROOFING WORKS** LABOUR DAILY OUTPUT: 5

WORK ITEM : (e) ***G-28 galvanized metal sheet gutter , Development le*** EQUIPEMENT DAILY OUT PUT: 5

TOTAL QANTITY OF WORK ITEM: 1 ml RESULT : **123.97** Birr/ml

Material Cost (1:01)					**Labor Cost (1:02)**					**ɔment Cost (1:03)**		
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	** Indexed Hourly Cost	Daily wage	Type of Equipment	No.	Hourly Rental

_____ Data collected by _____-Prepared and checked by _____Approved by

G-28 G.I.sheet	ml	1.02	87.50	89.25	Forman	1	0.25	23.75	5.94	Tool	2.00	1.28
Metal bracket	No	1	7.50	7.50	Carpenter II	1	1	16.75	16.75			
Fixer	No	3	0.5		helper	3	1	10.00	30.00			
Total (1:-01)				**96.75**	**Total (1:02)**				**52.69**	**Total (1:03)**		

A= Material unit cost 96.75 Birr/ml **B=Manpower Unit Cost** 10.54 Birr/ml **C=Equipment Unit Cost** 0.51

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

Daily Output Daily output:

Direct Cost of work item = A + B + C = **107.80** Birr/ml

Overhead Cost : 8% 8.62 Birr/ml

Profit Cost: 7% 7.55 Birr/ml

Total: **123.97** Birr/ml

Remark : _____

UF: UTILIZATION FACTOR **Total Unit Cost :** **123.97** Birr/ml

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

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

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: **ROOFING WORKS** LABOUR DAILY OUTPUT: 5

WORK ITEM : (f) ***G-30 galvanized metal sheet gutter , Development le*** EQUIPEMENT DAILY OUT PUT: 5

TOTAL QANTITY OF WORK ITEM: 1 ml RESULT : **108.10** Birr/ml

Material Cost (1:01)					**Labor Cost (1:02)**					**ɔment Cost (1:03)**		
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	** Indexed Hourly Cost	Daily wage	Type of Equipment	No.	Hourly Rental
G-30 G.I.sheet	ml	1.02	72.50	73.95	Forman	1	0.25	23.75	5.94	Tool	2.00	1.28
Metal bracket	No	1	7.50	7.50	Carpenter II	1	1	16.75	16.75			
Fixer	No	3	0.5	1.50	helper	3	1	10.00	30.00			
Total (1:-01)				**82.95**	**Total (1:02)**				**52.69**	**Total (1:03)**		

A= Material unit cost 82.95 Birr/ml **B=Manpower Unit Cost** 10.54 Birr/ml **C=Equipment Unit Cost** 0.51

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

Daily Output Daily output:

Direct Cost of work item = A + B + C = **94.00** Birr/ml

Overhead Cost : 8% 7.52 Birr/ml

Profit Cost: 7% 6.58 Birr/ml

Total: **108.10** Birr/ml

Remark : _____

UF: UTILIZATION FACTOR **Total Unit Cost :** **108.10** Birr/ml

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

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

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: **ROOFING WORKS** LABOUR DAILY OUTPUT: 5

WORK ITEM : (g) ***G-28 galvanized metalsheet gutter , Development length 67 c*** EQUIPEMENT DAILY OUT PUT: 5

TOTAL QANTITY OF WORK ITEM: 1 ml RESULT : **255.64** Birr/ml

Material Cost (1:01)					**Labor Cost (1:02)**					**ɔment Cost (1:03)**		
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	** Indexed Hourly Cost	Daily wage	Type of Equipment	No.	Hourly Rental
G-28 G.I.sheet	ml	1.02	196.52	200.45	Forman	1	0.25	23.75	5.94	Tool	2.00	1.28
Metal bracket	No	1	9.30	9.30	Carpenter II	1	1	16.75	16.75			
Fixer	No	3	0.5	1.50	helper	3	1	10.00	30.00			

_____ Data collected by _____-Prepared and checked by _____Approved by

Total (1:-01)				**211.25**	**Total (1:02)**				**52.69**	**Total (1:03)**		

A= Material unit cost 211.25 Birr/ml **B=Manpower Unit Cost** 10.54 Birr/ml **C=Equipment Unit Cost** 0.51

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

Daily Output Daily output:

Direct Cost of work item = A + B + C = **222.30** Birr/ml

Overhead Cost : 8% 17.78 Birr/ml

Profit Cost: 7% 15.56 Birr/ml

Total: **255.64** Birr/ml

Remark : _____

UF: UTILIZATION FACTOR **Total Unit Cost :** **255.64** Birr/ml

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

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

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: **ROOFING WORKS** LABOUR DAILY OUTPUT: 5

WORK ITEM : (h) ***G-30 galvanized metal sheet gutter , Development le*** EQUIPEMENT DAILY OUT PUT: 5

TOTAL QANTITY OF WORK ITEM: 1 ml RESULT : **132.02** Birr/ml

Material Cost (1:01)					**Labor Cost (1:02)**					**ɔment Cost (1:03)**		
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	** Indexed Hourly Cost	Daily wage	Type of Equipment	No.	Hourly Rental
G-30 G.I.sheet	ml	1.02	92.05	93.89	Forman	1	0.25	23.75	5.94	Tool	2.00	1.28
Metal bracket	No	1	9.30	9.30	Carpenter II	1	1	16.75	16.75			
Fixer	No	3	0.5		helper	3	1	10.00	30.00			
Total (1:-01)				**103.19**	**Total (1:02)**				**52.69**	**Total (1:03)**		

_____ Data collected by _____-Prepared and checked by _____Approved by

A= Material unit cost	103.19 Birr/ml	**B=Manpower Unit Cost**	10.54 Birr/ml	**C=Equipment Unit Cost**	0.51
		Total of (1:02)		Total of (1:03)	
		Daily Output		Daily output:	
	Direct Cost of work item = A + B + C =			**114.24**	Birr/ml
		Overhead Cost :	8%	9.14	Birr/ml
		Profit Cost:	7%	8.64	Birr/ml
		Total:		**132.02**	Birr/ml

Remark : _____

UF: UTILIZATION FACTOR **Total Unit Cost :** **132.02** Birr/ml

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

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

7.4 Galvanized sheet rectangular down pipe

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: **ROOFING WORKS** LABOUR DAILY OUTPUT: 4.75

WORK ITEM : (a) ***G-28 galvanized sheet rectangular down pipe , Dev. I*** EQUIPEMENT DAILY OUT PUT: 4.75

TOTAL QANTITY OF WORK ITEM: 1 ml RESULT : **90.87** Birr/ml

Material Cost (1:01)					**Labor Cost (1:02)**					**ɔment Cost (1:03)**		
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	** Indexed Hourly Cost	Daily wage	Type of Equipment	No.	Hourly Rental
G-28 G.I.sheet	ml	1.02	57.85	59.01	Forman	1	0.25	23.75	5.94	Tool	2.00	1.28
Metal bracket	No	1	6.50	6.50	Carpenter II	1	1	16.75	16.75			
Fixer	No	3	0.5	1.50	helper	3	1	10.00	30.00			
Total (1:-01)				**67.01**	**Total (1:02)**				**52.69**	**Total (1:03)**		

A= Material unit cost	67.007 Birr/ml	**B=Manpower Unit Cost**	11.09 Birr/ml	**C=Equipment Unit Cost**	0.54
		Total of (1:02)		Total of (1:03)	
		Daily Output		Daily output:	
	Direct Cost of work item = A + B + C =			**78.64**	Birr/ml
		Overhead Cost :	8%	6.29	Birr/ml
		Profit Cost:	7%	5.95	Birr/ml
		Total:		**90.87**	Birr/ml

Remark : _____

UF: UTILIZATION FACTOR **Total Unit Cost :** **90.87** Birr/ml

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

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

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: **ROOFING WORKS** LABOUR DAILY OUTPUT: 4.75

WORK ITEM : (b) ***G-30 galvanized sheet rectangular down pipe , Dev. I*** EQUIPEMENT DAILY OUT PUT: 4.75

TOTAL QANTITY OF WORK ITEM: 1 ml RESULT : **79.20** Birr/ml

Material Cost (1:01)					**Labor Cost (1:02)**					**ɔment Cost (1:03)**		
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	** Indexed Hourly Cost	Daily wage	Type of Equipment	No.	Hourly Rental
G-30 G.I.sheet	ml	1.02	47.95	48.91	Forman	1	0.25	23.75	5.94	Tool	2.00	1.28
Metal bracket	No	1	6.50	6.50	Carpenter II	1	1	16.75	16.75			
Fixer	No	3	0.5	1.50	helper	3	1	10.00	30.00			
Total (1:-01)				**56.91**	**Total (1:02)**				**52.69**	**Total (1:03)**		

A= Material unit cost	56.909 Birr/ml	**B=Manpower Unit Cost**	11.09 Birr/ml	**C=Equipment Unit Cost**	0.54
		Total of (1:02)		Total of (1:03)	
		Daily Output		Daily output:	

_____ Data collected by _____-Prepared and checked by _____Approved by

Direct Cost of work item = A + B + C =		**68.54**	Birr/ml
Overhead Cost :	8%	5.48	Birr/ml
Profit Cost:	7%	5.18	Birr/ml
Total:		**79.20**	Birr/ml

Remark : _____

UF: UTILIZATION FACTOR **Total Unit Cost :** **79.20** Birr/ml

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

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

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: **ROOFING WORKS** LABOUR DAILY OUTPUT: 3.875

WORK ITEM : (c) ***G-28 galvanized sheet rectangular down pipe , Dev. I*** EQUIPEMENT DAILY OUT PUT: 3.875

TOTAL QANTITY OF WORK ITEM: 1 ml RESULT : **106.45** Birr/ml

Material Cost (1:01)					**Labor Cost (1:02)**					**ɔment Cost (1:03)**		
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	** Indexed Hourly Cost	Daily wage	Type of Equipment	No.	Hourly Rental
G-28 G.I.sheet	ml	1.02	68.00	69.36	Forman	1	0.25	23.75	5.94	Tool	2.00	1.28
Metal bracket	No	1	7.00	7.00	Carpenter II	1	1	16.75	16.75			
Fixer	No	3	0.5	1.50	helper	3	1	10.00	30.00			
Total (1:-01)				**77.86**	**Total (1:02)**				**52.69**	**Total (1:03)**		

A= Material unit cost 77.86 Birr/ml **B=Manpower Unit Cost** 13.60 Birr/ml **C=Equipment Unit Cost** 0.66

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

Daily Output Daily output:

Direct Cost of work item = A + B + C =		**92.12**	Birr/ml
Overhead Cost :	8%	7.37	Birr/ml
Profit Cost:	7%	6.96	Birr/ml
Total:		**106.45**	Birr/ml

Remark : _____

UF: UTILIZATION FACTOR **Total Unit Cost :** **106.45** Birr/ml

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

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

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: **ROOFING WORKS** LABOUR DAILY OUTPUT: 3.875

WORK ITEM : (d) ***G-30 galvanized sheet rectangular down pipe , Dev. I*** EQUIPEMENT DAILY OUT PUT: 3.875

TOTAL QANTITY OF WORK ITEM: 1 ml RESULT : **90.57** Birr/ml

Material Cost (1:01)					**Labor Cost (1:02)**					**ɔment Cost (1:03)**		
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	** Indexed Hourly Cost	Daily wage	Type of Equipment	No.	Hourly Rental
G-30 G.I.sheet	ml	1.02	56.00	57.12	Forman	1	0.25	23.75	5.94	Tool	2.00	1.28
Metal bracket	No	1	7.00	7.00	Carpenter II	1	1	16.75	16.75			
Fixer	No	3	0.5		helper	3	1	10.00	30.00			
Total (1:-01)				**64.12**	**Total (1:02)**				**52.69**	**Total (1:03)**		

A= Material unit cost 64.12 Birr/ml **B=Manpower Unit Cost** 13.60 Birr/ml **C=Equipment Unit Cost** 0.66

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

Daily Output Daily output:

Direct Cost of work item = A + B + C =		**78.38**	Birr/ml
Overhead Cost :	8%	6.27	Birr/ml
Profit Cost:	7%	5.93	Birr/ml
Total:		**90.57**	Birr/ml

_____ Data collected by _____-Prepared and checked by _____Approved by

Remark : _____

UF: UTILIZATION FACTOR **Total Unit Cost :** **90.57** Birr/ml

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

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

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: **ROOFING WORKS** LABOUR DAILY OUTPUT: 3.31

WORK ITEM : (e) ***G-28 galvanized sheet rectangular down pipe , Dev. length 50*** EQUIPEMENT DAILY OUT PUT: 3.31

TOTAL QANTITY OF WORK ITEM: 1 ml RESULT : **127.50** Birr/ml

Material Cost (1:01)					**Labor Cost (1:02)**					**ɔment Cost (1:03)**		
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	** Indexed Hourly Cost	Daily wage	Type of Equipment	No.	Hourly Rental
G-28 G.I.sheet	ml	1.02	82.50	84.15	Forman	1	0.25	23.75	5.94	Tool	2.00	1.28
Metal bracket	No	1	8.00	8.00	Carpenter II	1	1	16.75	16.75			
Fixer	No	3	0.5	1.50	helper	3	1	10.00	30.00			
Total (1:-01)				**93.65**	**Total (1:02)**				**52.69**	**Total (1:03)**		

A= Material unit cost 93.65 Birr/ml **B=Manpower Unit Cost** 15.91 Birr/ml **C=Equipment Unit Cost** 0.77

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

Daily Output Daily output:

Direct Cost of work item = A + B + C = **110.33** Birr/ml

Overhead Cost : 8% 8.83 Birr/ml

Profit Cost: 7% 8.34 Birr/ml

Total: **127.50** Birr/ml

Remark : _____

UF: UTILIZATION FACTOR **Total Unit Cost :** **127.50** Birr/ml

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

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

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: **ROOFING WORKS** LABOUR DAILY OUTPUT: 3.31

WORK ITEM : (7.69) ***G-30 galvanized sheet rectangular down pipe , Dev. l*** EQUIPEMENT DAILY OUT PUT: 3.31

TOTAL QANTITY OF WORK ITEM: 1 ml RESULT : **108.08** Birr/ml

Material Cost (1:01)					**Labor Cost (1:02)**					**ɔment Cost (1:03)**		
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	** Indexed Hourly Cost	Daily wage	Type of Equipment	No.	Hourly Rental
G-30 G.I.sheet	ml	1.02	67.50	68.85	Forman	1	0.25	23.75	5.94	Tool	2.00	1.28
Metal bracket	No	1	8.00	8.00	Carpenter II	1	1	16.75	16.75			
Fixer	No	3	0.5		helper	3	1	10.00	30.00			
Total (1:-01)				**76.85**	**Total (1:02)**				**52.69**	**Total (1:03)**		

A= Material unit cost 76.85 Birr/ml **B=Manpower Unit Cost** 15.91 Birr/ml **C=Equipment Unit Cost** 0.77

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

Daily Output Daily output:

Direct Cost of work item = A + B + C = **93.53** Birr/ml

Overhead Cost : 8% 7.48 Birr/ml

Profit Cost: 7% 7.07 Birr/ml

Total: **108.08** Birr/ml

Remark : _____

UF: UTILIZATION FACTOR **Total Unit Cost :** **108.08** Birr/ml

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

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

_____ Data collected by _____-Prepared and checked by _____Approved by

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: **ROOFING WORKS**
WORK ITEM : (a) *PVC down pipe Dia.80mm*
TOTAL QANTITY OF WORK ITEM: 1 ml

LABOUR DAILY OUTPUT: 3.31
EQUIPEMENT DAILY OUT PUT: 3.31
RESULT : **38.31** Birr/ml

Material Cost (1:01)					Labor Cost (1:02)					ɔment Cost (1:03)		
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	** Indexed Hourly Cost	Daily wage	Type of Equipment	No.	Hourly Rental
PVC 80mm	ml	1.02	12.50	12.75	Forman	1	0.25	23.75	5.94	Tool	2.00	1.28
Metal bracket	No	1	8.00	8.00	Carpenter I	1	1	8.50	8.50			
Fixer	No	3	0.5	1.50	helper	3	1	6.38	19.13			
Total (1:-01)				**22.25**	**Total (1:02)**				**33.56**	**Total (1:03)**		

A= Material unit cost 22.25 Birr/ml
B=Manpower Unit Cost 10.13 Birr/ml
C=Equipment Unit Cost 0.77

Total of (1:02) / Daily Output
Total of (1:03) / Daily output:

Direct Cost of work item = A + B + C = **33.15** Birr/ml
Overhead Cost : 8% 2.65 Birr/ml
Profit Cost: 7% 2.51 Birr/ml
Total: **38.31** Birr/ml

Remark : _____
UF: UTILIZATION FACTOR
Total Unit Cost : **38.31** Birr/ml
*: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.
**: INCLUSIVE OF BENEFITS, TRAVEL SUBSIDES AND COST OF OVERTIME RELATED TO TARGETED OUTPUT.

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: **ROOFING WORKS**
WORK ITEM : (b) *PVC down pipe Dia.110mm*
TOTAL QANTITY OF WORK ITEM: 1 ml

LABOUR DAILY OUTPUT: 3.81
EQUIPEMENT DAILY OUT PUT:
RESULT : **57.22** Birr/ml

Material Cost (1:01)					Labor Cost (1:02)					ɔment Cost (1:03)		
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	** Indexed Hourly Cost	Daily wage	Type of Equipment	No.	Hourly Rental
PVC 110mm	ml	1.02	30.83	31.45	Forman	1	0.25	23.75	5.94			
Metal bracket	No	1	8.00	8.00	Carpenter I	1	1	8.50	8.50			
Fixer	No	3	0.5	1.50	DL	3	1	6.38	19.13			
Total (1:-01)				**40.95**	**Total (1:02)**				**33.56**	**Total (1:03)**		

A= Material unit cost 40.95 Birr/ml
B=Manpower Unit Cost 8.80 Birr/ml
C=Equipment Unit Cost 0.00

Total of (1:02) / Daily Output
Total of (1:03) / Daily output:

Direct Cost of work item = A + B + C = **49.75** Birr/ml
Overhead Cost : 8% 3.98 Birr/ml
Profit Cost: 7% 3.48 Birr/ml
Total: **57.22** Birr/ml

Remark : _____
UF: UTILIZATION FACTOR
Total Unit Cost : **57.22** Birr/ml
*: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.
**: INCLUSIVE OF BENEFITS, TRAVEL SUBSIDES AND COST OF OVERTIME RELATED TO TARGETED OUTPUT.

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

_____ Data collected by _____-Prepared and checked by _____Approved by

PROJECT: **ROOFING WORKS** LABOUR DAILY OUTPUT: 3.31
WORK ITEM : (c) *PVC down pipe Dia.150mm* EQUIPEMENT DAILY OUT PUT: 3.31
TOTAL QANTITY OF WORK ITEM: 1 ml RESULT : **77.60** Birr/ml

Material Cost (1:01)					Labor Cost (1:02)					ɔment Cost (1:03)		
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	** Indexed Hourly Cost	Daily wage	Type of Equipment	No.	Hourly Rental
PVC 150mm	ml	1.02	45.83	46.75	Forman	1	0.25	23.75	5.94	Tool	2.00	1.28
Metal bracket	No	1	8.00	8.00	Carpenter II	1	1	8.50	8.50			
Fixer	No	3	0.5	1.50	DL	3	1	6.38	19.13			
Total (1:-01)				**56.25**	**Total (1:02)**				**33.56**	**Total (1:03)**		

A= Material unit cost 56.25 Birr/ml **B=Manpower Unit Cost** 10.13 Birr/ml **C=Equipment Unit Cost** 0.77

Total of (1:02) Total of (1:03)
Daily Output Daily output:
Direct Cost of work item = A + B + C = **67.15** Birr/ml
Overhead Cost : 8% 5.37 Birr/ml
Profit Cost: 7% 5.08 Birr/ml
Total: **77.60** Birr/ml

Remark : _____
UF: UTILIZATION FACTOR **Total Unit Cost :** **77.60** Birr/ml
*: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.
**: INCLUSIVE OF BENEFITS, TRAVEL SUBSIDES AND COST OF OVERTIME RELATED TO TARGETED OUTPUT.

7.6 Galvanized Steel Flashing

ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT: **ROOFING WORKS** LABOUR HOURLY OUTPUT: 1.2
WORK ITEM: (a) ***G-30 Galvanized Steel Flashing Deve. Size 50 cm.*** EQUIPEMENT: 1.2
TOTAL QANTITY OF WORK ITEM: 1 m RESULT: **130.31** Birr/m.

Material Cost (1:01)					Labour (1:02)					Equipment Cost (1:03)		
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labour by Grade	No.	UF	** Indexed Hourly Cost	Hourly Cost	Type of Equipment	No.	Hourly Rental
G 30 Sheet Metal Flashing				0.00	Foreman	1	0.25	23.75	5.94	Tools	1	1.28
Dev. Size 50 cm.	m	1.05	63.5	66.68	Carpenter	1	1	8.50	8.50			
Concrete nails	kg	0.02	95	1.90	Helper	1	1	10.00	10.00			
Painting	lit	0.0625	30	1.88	D/L	1	1	6.38	6.38			
Anti rust	lit	0.025	51.75	1.29	painter	1	1	13.63	13.63			
Thinner	lit	0.065	45	2.93								
Total (1:-01)				74.67	**Total (1:02)**				44.44	**Total (1:03)**		

A= Materials Unit Cost **74.669** birr/m. B= Manpower Unit Cost **37.03** Birr/m C=Equipment Unit Cost **1.07**

Total of (1:02) Total of (1:03)
Hourly Output: Hourly output: _____
Direct Cost of Work Item = A+B+C = **112.77** Birr/m.
Over head cost : 8% 9.02 Birr/m.
Profit Cost: 7% 8.53 Birr/m.
Total Unit Cost : **130.31** Birr/m.

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: 1.2
WORK ITEM: (b) ***G-28 Galvanized Steel Flashing Deve. Size 50 cn*** EQUIPEMENT: 1.2

_____ Data collected by _____-Prepared and checked by _____Approved by

TOTAL QANTITY OF WORK ITEM: 1 m RESULT: **148.51** Birr/m.

Material Cost (1:01)					Labour (1:02)					Equipment Cost (1:03)		
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labour by Grade	No.	UF	** Indexed Hourly Cost	Hourly Cost	Type of Equipment	No.	Hourly Rental
G28 Sheet Metal Flashing				0.00	Foreman	1	0.25	23.75	5.94	Tools	1	1.28
Dev. Size 50 cm.	m	1.05	78.5	82.43	Carpenter	1	1	8.50	8.50			
Concrete nails	kg	0.02	95	1.90	Helper	1	1	10.00	10.00			
Painting	lit	0.0625	30	1.88	D/L	1	1	6.38	6.38			
Anti rust	lit	0.025	51.75	1.29	painter	1	1	13.63	13.63			
Thinner	lit	0.065	45	2.93								
Total (1:-01)				90.42	**Total (1:02)**				44.44	**Total (1:03)**		

A= Materials Unit Cost_ **90.419** birr/m. B= Manpower Unit Cost **37.03** Birr/m C=Equipment Unit Cost **1.07**

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

Hourly Output: _ Hourly output: _____

Direct Cost of Work Item = A+B+C = **128.52** Birr/m.

Over head cost : 8% 10.28 Birr/m.

Profit Cost: _ 7% 9.72 Birr/m.

Total Unit Cost : **148.51** Birr/m.

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: 1.2

WORK ITEM: (c) ***G-30 Galvanized Steel Flashing Deve. Size 67 cm*** EQUIPEMENT: 1.2

TOTAL QANTITY OF WORK ITEM: 1 m RESULT: **156.46** Birr/m.

Material Cost (1:01)					Labour (1:02)					Equipment Cost (1:03)		
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labour by Grade	No.	UF	** Indexed Hourly Cost	Hourly Cost	Type of Equipment	No.	Hourly Rental
G 30 Sheet Metal Flashing				0.00	Foreman	1	0.25	23.75	5.94	Tools	1	1.28
Dev. Size 67 cm.	m	1.05	85.05	89.30	Carpenter	1	1	8.50	8.50			
Concrete nails	kg	0.02	95	1.90	Helper	1	1	10.00	10.00			
Painting	lit	0.0625	30	1.88	D/L	1	1	6.38	6.38			
Anti rust	lit	0.025	51.75	1.29	painter	1	1	13.63	13.63			
Thinner	lit	0.065	45	2.93								
Total (1:-01)				97.30	**Total (1:02)**				44.44	**Total (1:03)**		

A= Materials Unit Cost_ **97.296** birr/m. B= Manpower Unit Cost **37.03** Birr/m C=Equipment Unit Cost **1.07**

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

Hourly Output: _ Hourly output: _____

Direct Cost of Work Item = A+B+C = **135.39** Birr/m.

Over head cost : 8% 10.83 Birr/m.

Profit Cost: _ 7% 10.24 Birr/m.

Total Unit Cost : **156.46** Birr/m.

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: 1.2

WORK ITEM: (d) ***G-28 Galvanized Steel Flashing Deve. Size 67 cm*** EQUIPEMENT: 1.2

TOTAL QANTITY OF WORK ITEM: 1 m RESULT: **178.42** Birr/m.

_____ Data collected by _____-Prepared and checked by _____Approved by

Material Cost (1:01)					Labour (1:02)					Equipment Cost (1:03)		
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labour by Grade	No.	UF	** Indexed Hourly Cost	Hourly Cost	Type of Equipment	No.	Hourly Rental
G28 Sheet Metal Flashing				0.00	Foreman	1	0.25	23.75	5.94	Tools	1	1.28
Dev. Size 67 cm.	m	1.05	103.15	108.31	Carpenter	1	1	8.50	8.50			
Concrete nails	kg	0.02	95	1.90	Helper	1	1	10.00	10.00			
Painting	lit	0.0625	30	1.88	D/L	1	1	6.38	6.38			
Anti rust	lit	0.025	51.75	1.29	painter	1	1	13.63	13.63			
Thinner	lit	0.065	45	2.93								
Total (1:-01)				116.30	**Total (1:02)**				44.44	**Total (1:03)**		

A= Materials Unit Cost_ **116.3** birr/m. B= Manpower Unit Cost **37.03** Birr/m C=Equipment Unit Cost **1.07**

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

Hourly Output: _ Hourly output: _____

Direct Cost of Work Item = A+B+C = **154.40** Birr/m.

Over head cost : 8% 12.35 Birr/m.

Profit Cost: _ 7% 11.67 Birr/m.

Total Unit Cost : **178.42** Birr/m.

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: 1.2 m/hr

WORK ITEM: (e) ***G-30 Galvanized Steel Flashing Deve. Size 100 c*** EQUIPEMENT:

TOTAL QANTITY OF WORK ITEM: 1 m RESULT: **181.88** Birr/m.

Material Cost (1:01)					Labour (1:02)					Equipment Cost (1:03)		
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labour by Grade	No.	UF	** Indexed Hourly Cost	Hourly Cost	Type of Equipment	No.	Hourly Rental
G 30 Sheet Metal Flashing				0.00	Foreman	1	0.25	23.75	5.94	Tools	1	1.28
Dev. Size 100 cm.	m	1.05	106	111.30	Carpenter	1	1	8.50	8.50			
Concrete nails	kg	0.02	95.00	1.90	Helper	1	1	10.00	10.00			
Painting	lit	0.0625	30	1.88	D/L	1	1	6.38	6.38			
Anti rust	lit	0.025	51.75	1.29	painter	1	1	13.63	13.63			
Thinner	lit	0.065	45	2.93								
Total (1:-01)				119.29	**Total (1:02)**				44.44	**Total (1:03)**		

A= Materials Unit Cost_ **119.29** birr/m. B= Manpower Unit Cost **37.03** Birr/m C=Equipment Unit Cost **1.07**

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

Hourly Output: _ Hourly output: _____

Direct Cost of Work Item = A+B+C = **157.39** Birr/m.

Over head cost : 8% 12.59 Birr/m.

Profit Cost: _ 7% 11.90 Birr/m.

Total Unit Cost : **181.88** Birr/m.

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: 1.2

WORK ITEM: (f) ***G-28 Galvanized Steel Flashing Deve. Size 100 c*** EQUIPEMENT: 1.2

TOTAL QANTITY OF WORK ITEM: 1 m RESULT: **236.48** Birr/m.

Material Cost (1:01)	Labour (1:02)	Equipment Cost (1:03)

_____ Data collected by _____-Prepared and checked by _____Approved by

Type of Material	Unit	Qty *	Rate	Cost per Unit	Labour by Grade	No.	UF	** Indexed Hourly Cost	Hourly Cost	Type of Equipment	No.	Hourly Rental
G28 Sheet Metal Flashing				0.00	Foreman	1	0.25	23.75	5.94	Tools	1	1.28
Dev. Size 100 cm.	m	1.05	151	158.55	Carpenter	1	1	8.50	8.50			
Concrete nails	kg	0.02	95	1.90	Helper	1	1	10.00	10.00			
Painting	lit	0.0625	30	1.88	D/L	1	1	6.38	6.38			
Anti rust	lit	0.025	51.75	1.29	painter	1	1	13.63	13.63			
Thinner	lit	0.065	45	2.93								
Total (1:-01)				166.54	**Total (1:02)**				44.44	**Total (1:03)**		

A= Materials Unit Cost_ **166.54** birr/m. B= Manpower Unit Cost **37.03** Birr/m C=Equipment Unit Cost **1.07**

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

Hourly Output: _ Hourly output: _____

Direct Cost of Work Item = A+B+C = **204.64** Birr/m.

Over head cost : 8% 16.37 Birr/m.

Profit Cost: _ 7% 15.47 Birr/m.

Total Unit Cost : **236.48** Birr/m.

Remark _____

UF: UTILIZATION FACTOR

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

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

7.7 Galvanized steel copping,

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: **ROOFING WORKS** LABOUR DAILY OUTPUT: 3.69

WORK ITEM : (a) ***G-28 galvanized steel copping, Development len*** EQUIPEMENT DAILY OUT PUT: 3.69

TOTAL QANTITY OF WORK ITEM: 1 ml RESULT : **73.78** Birr/ml

Material Cost (1:01)					**Labor Cost (1:02)**					**ɔment Cost (1:03)**		
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	** Indexed Hourly Cost	Daily wage	Type of Equipment	No.	Hourly Rental
G-28 G.I.sheet	ml	1.02	44.25	45.14	Forman	1	0.25	23.75	5.94	Tool	2.00	1.28
Fixer	No.	4	2.00	8.00	Carpenter II	1	1	8.50	8.50			
					helper	3	1	7.50	22.50			
Total (1:-01)				**53.14**	**Total (1:02)**				**36.94**	**Total (1:03)**		

A= Material unit cost 53.135 Birr/ml **B=Manpower Unit Cost** 10.02 Birr/ml **C=Equipment Unit Cost** 0.69

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

Daily Output Daily output:

Direct Cost of work item = A + B + C = **63.85** Birr/ml

Overhead Cost : 8% 5.11 Birr/ml

Profit Cost: 7% 4.83 Birr/ml

Total: **73.78** Birr/ml

Remark : _____

UF: UTILIZATION FACTOR **Total Unit Cost :** **73.78** Birr/ml

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

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

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: **ROOFING WORKS** LABOUR DAILY OUTPUT: 5

WORK ITEM : (b) ***G-30 galvanized steel copping, Development len*** EQUIPEMENT DAILY OUT PUT: 5

TOTAL QANTITY OF WORK ITEM: 1 ml RESULT : **63.42** Birr/ml

Material Cost (1:01)	**Labor Cost (1:02)**	**ɔment Cost (1:03)**

_____ Data collected by _____-Prepared and checked by _____Approved by

Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	** Indexed Hourly Cost	Daily wage	Type of Equipment	No.	Hourly Rental
G-30 G.I.sheet	ml	1.02	36.75	37.49	Forman	1	0.25	23.75	5.94	Tool	2.00	1.28
Fixer	No.	4	2.00	8.00	Carpenter II	1	1	8.50	8.50			
					helper	3	1	10.00	30.00			
Total (1:-01)				**45.49**	**Total (1:02)**				**44.44**	**Total (1:03)**		

A= Material unit cost 45.485 Birr/ml **B=Manpower Unit Cost** 8.89 Birr/ml **C=Equipment Unit Cost** 0.51

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

Daily Output Daily output:

Direct Cost of work item = A + B + C = **54.88** Birr/ml

Overhead Cost : 8% 4.39 Birr/ml

Profit Cost: 7% 4.15 Birr/ml

Total: **63.42** Birr/ml

Remark : _____

UF: UTILIZATION FACTOR **Total Unit Cost :** **63.42** Birr/ml

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

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

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: **ROOFING WORKS** LABOUR DAILY OUTPUT: 5

WORK ITEM : (c) ***G-28 galvanized steel copping, Development len*** EQUIPEMENT DAILY OUT PUT: 5

TOTAL QANTITY OF WORK ITEM: 1 ml RESULT : **85.94** Birr/ml

Material Cost (1:01)					Labor Cost (1:02)					›ment Cost (1:03)		
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	** Indexed Hourly Cost	Daily wage	Type of Equipment	No.	Hourly Rental
G-28 G.I.sheet	ml	1.02	55.85	56.97	Forman	1	0.25	23.75	5.94	Tool	2.00	1.28
Fixer	No.	4	2.00	8.00	Carpenter II	1	1	8.50	8.50			
					helper	3	1	10.00	30.00			
Total (1:-01)				**64.97**	**Total (1:02)**				**44.44**	**Total (1:03)**		

A= Material unit cost 64.967 Birr/ml **B=Manpower Unit Cost** 8.89 Birr/ml **C=Equipment Unit Cost** 0.51

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

Daily Output Daily output:

Direct Cost of work item = A + B + C = **74.37** Birr/ml

Overhead Cost : 8% 5.95 Birr/ml

Profit Cost: 7% 5.62 Birr/ml

Total: **85.94** Birr/ml

Remark : _____

UF: UTILIZATION FACTOR **Total Unit Cost :** **85.94** Birr/ml

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

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

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: **ROOFING WORKS** LABOUR DAILY OUTPUT: 5

WORK ITEM : (d) ***G-30 galvanized steel copping, Development len*** EQUIPEMENT DAILY OUT PUT: 5

TOTAL QANTITY OF WORK ITEM: 1 ml RESULT : **74.27** Birr/ml

Material Cost (1:01)	Labor Cost (1:02)	›ment Cost (1:03)

_____ Data collected by _____-Prepared and checked by _____Approved by

Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	** Indexed Hourly Cost	Daily wage	Type of Equipment	No.	Hourly Rental
G-30 G.I.sheet	ml	1.02	45.95	46.87	Forman	1	0.25	23.75	5.94	Tool	2.00	1.28
Fixer	No.	4	2.00	8.00	Carpenter II	1	1	8.50	8.50			
					helper	3	1	10.00	30.00			
Total (1:-01)				**54.87**	**Total (1:02)**				**44.44**	**Total (1:03)**		

A= Material unit cost 54.869 Birr/ml **B=Manpower Unit Cost** 8.89 Birr/ml **C=Equipment Unit Cost** 0.51

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

Daily Output Daily output:

Direct Cost of work item = A + B + C = **64.27** Birr/ml

Overhead Cost : 8% 5.14 Birr/ml

Profit Cost: 7% 4.86 Birr/ml

Total: **74.27** Birr/ml

Remark : _____

UF: UTILIZATION FACTOR **Total Unit Cost :** **74.27** Birr/ml

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

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

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: **ROOFING WORKS** LABOUR DAILY OUTPUT: 5

WORK ITEM : (e) ***G-28 galvanized steel copping, Development len*** EQUIPEMENT DAILY OUT PUT: 5

TOTAL QANTITY OF WORK ITEM: 1 ml RESULT : **114.99** Birr/ml

Material Cost (1:01)					Labor Cost (1:02)					›ment Cost (1:03)		
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	** Indexed Hourly Cost	Daily wage	Type of Equipment	No.	Hourly Rental
G-28 G.I.sheet	ml	1.02	80.50	82.11	Forman	1	0.25	23.75	5.94	Tool	2.00	1.28
Fixer	No.	4	2.00	8.00	Carpenter II	1	1	8.50	8.50			
					helper	3	1	10.00	30.00			
Total (1:-01)				**90.11**	**Total (1:02)**				**44.44**	**Total (1:03)**		

A= Material unit cost 90.11 Birr/ml **B=Manpower Unit Cost** 8.89 Birr/ml **C=Equipment Unit Cost** 0.51

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

Daily Output Daily output:

Direct Cost of work item = A + B + C = **99.51** Birr/ml

Overhead Cost : 8% 7.96 Birr/ml

Profit Cost: 7% 7.52 Birr/ml

Total: **114.99** Birr/ml

Remark : _____

UF: UTILIZATION FACTOR **Total Unit Cost :** **114.99** Birr/ml

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

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

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: **ROOFING WORKS** LABOUR DAILY OUTPUT: 5

WORK ITEM : (f) ***G-30 galvanized steel copping, Development length 50*** EQUIPEMENT DAILY OUT PUT: 5

TOTAL QANTITY OF WORK ITEM: 1 ml RESULT : **97.31** Birr/ml

Material Cost (1:01)					Labor Cost (1:02)					›ment Cost (1:03)		
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	** Indexed Hourly Cost	Daily wage	Type of Equipment	No.	Hourly Rental

_____ Data collected by _____-Prepared and checked by _____Approved by

G-30 G.I.sheet	ml	1.02	65.50	66.81	Forman	1	0.25	23.75	5.94	Tool	2.00	1.28
Fixer	No.	4	2.00	8.00	Carpenter II	1	1	8.50	8.50			
					helper	3	1	10.00	30.00			
Total (1:-01)				**74.81**	**Total (1:02)**				**44.44**	**Total (1:03)**		

A= Material unit cost 74.81 Birr/ml **B=Manpower Unit Cost** 8.89 Birr/ml **C=Equipment Unit Cost** 0.51

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

Daily Output Daily output:

Direct Cost of work item = A + B + C = **84.21** Birr/ml

Overhead Cost : 8% 6.74 Birr/ml

Profit Cost: 7% 6.37 Birr/ml

Total: **97.31** Birr/ml

Remark : _____

UF: UTILIZATION FACTOR **Total Unit Cost :** **97.31** Birr/ml

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

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

7.8 Galvanized steel roof ridge

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: **ROOFING WORKS** LABOUR DAILY OUTPUT: 7.125

WORK ITEM : (a) ***G-28 galvanized steel roof ridge Development l*** EQUIPEMENT DAILY OUT PUT: 7.125

TOTAL QANTITY OF WORK ITEM: 1 ml RESULT : **84.04** Birr/ml

Material Cost (1:01)					**Labor Cost (1:02)**					**ɔment Cost (1:03)**		
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	** Indexed Hourly Cost	Daily wage	Type of Equipment	No.	Hourly Rental
G-28 G.I.sheet	ml	1.02	55.85	56.97	Forman	1	0.25	23.75	5.94	Tool	2.00	1.28
Fixer	No.	4	2.00	8.00	Carpenter II	1	1	16.75	16.75			
					helper	3	1	10.00	30.00			
Total (1:-01)				**64.97**	**Total (1:02)**				**52.69**	**Total (1:03)**		

A= Material unit cost 64.967 Birr/ml **B=Manpower Unit Cost** 7.39 Birr/ml **C=Equipment Unit Cost** 0.36

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

Daily Output Daily output:

Direct Cost of work item = A + B + C = **72.72** Birr/ml

Overhead Cost : 8% 5.82 Birr/ml

Profit Cost: 7% 5.50 Birr/ml

Total: **84.04** Birr/ml

Remark : _____

UF: UTILIZATION FACTOR **Total Unit Cost :** **84.04** Birr/ml

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

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

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: **ROOFING WORKS** LABOUR DAILY OUTPUT: 7.125

WORK ITEM : (b) ***G-30 galvanized steel roof ridge Development le*** EQUIPEMENT DAILY OUT PUT: 7.125

TOTAL QANTITY OF WORK ITEM: 1 ml RESULT : **72.37** Birr/ml

Material Cost (1:01)					**Labor Cost (1:02)**					**ɔment Cost (1:03)**		
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	** Indexed Hourly Cost	Daily wage	Type of Equipment	No.	Hourly Rental
G-30 G.I.sheet	ml	1.02	45.95	46.87	Forman	1	0.25	23.75	5.94	Tool	2.00	1.28
Fixer	No.	4	2.00	8.00	Carpenter II	1	1	16.75	16.75			
					helper	3	1	10.00	30.00			

_____ Data collected by _____-Prepared and checked by _____Approved by

Total (1:-01)				**54.87**	**Total (1:02)**				**52.69**	**Total (1:03)**		

A= Material unit cost 54.869 Birr/ml **B=Manpower Unit Cost** 7.39 Birr/ml **C=Equipment Unit Cost** 0.36

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

Daily Output Daily output:

Direct Cost of work item = A + B + C = **62.62** Birr/ml

Overhead Cost : 8% 5.01 Birr/ml

Profit Cost: 7% 4.73 Birr/ml

Total: **72.37** Birr/ml

Remark : _____

UF: UTILIZATION FACTOR **Total Unit Cost :** **72.37** Birr/ml

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

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

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: **ROOFING WORKS** LABOUR DAILY OUTPUT: 7.125

WORK ITEM : (c) ***G-28 galvanized steel roof ridge Development l*** EQUIPEMENT DAILY OUT PUT: 7.125

TOTAL QANTITY OF WORK ITEM: 1 ml RESULT : **113.09** Birr/ml

Material Cost (1:01)					**Labor Cost (1:02)**					**ɔment Cost (1:03)**		
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	** Indexed Hourly Cost	Daily wage	Type of Equipment	No.	Hourly Rental
G-28 G.I.sheet	ml	1.02	80.50	82.11	Forman	1	0.25	23.75	5.94	Tool	2.00	1.28
Fixer	No.	4	2.00	8.00	Carpenter II	1	1	16.75	16.75			
					helper	3	1	10.00	30.00			
Total (1:-01)				**90.11**	**Total (1:02)**				**52.69**	**Total (1:03)**		

A= Material unit cost 90.11 Birr/ml **B=Manpower Unit Cost** 7.39 Birr/ml **C=Equipment Unit Cost** 0.36

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

Daily Output Daily output:

Direct Cost of work item = A + B + C = **97.86** Birr/ml

Overhead Cost : 8% 7.83 Birr/ml

Profit Cost: 7% 7.40 Birr/ml

Total: **113.09** Birr/ml

Remark : _____

UF: UTILIZATION FACTOR **Total Unit Cost :** **113.09** Birr/ml

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

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

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: **ROOFING WORKS** LABOUR DAILY OUTPUT: 7.125

WORK ITEM : (d) ***G-30 galvanized steel roof ridge Development le*** EQUIPEMENT DAILY OUT PUT: 7.125

TOTAL QANTITY OF WORK ITEM: 1 ml RESULT : **113.09** Birr/ml

Material Cost (1:01)					**Labor Cost (1:02)**					**ɔment Cost (1:03)**		
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	** Indexed Hourly Cost	Daily wage	Type of Equipment	No.	Hourly Rental
G-30 G.I.sheet	ml	1.02	80.50	82.11	Forman	1	0.25	23.75	5.94	Tool	2.00	1.28
Fixer	No.	4	2.00	8.00	Carpenter II	1	1	16.75	16.75			
					helper	3	1	10.00	30.00			

_____ Data collected by _____-Prepared and checked by _____Approved by

Total (1:-01)				**90.11**	**Total (1:02)**				**52.69**	**Total (1:03)**		

A= Material unit cost 90.11 Birr/ml **B=Manpower Unit Cost** 7.39 Birr/ml **C=Equipment Unit Cost** 0.36

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

Daily Output Daily output:

Direct Cost of work item = A + B + C = **97.86** Birr/ml

Overhead Cost : 8% 7.83 Birr/ml

Profit Cost: 7% 7.40 Birr/ml

Total: **113.09** Birr/ml

Remark : _____

UF: UTILIZATION FACTOR **Total Unit Cost :** **113.09** Birr/ml

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

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

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: **ROOFING WORKS** LABOUR DAILY OUTPUT: 4

WORK ITEM : (7.66) ***30cm wideTerrazzo copping 11.74*** EQUIPEMENT DAILY OUT PUT: 4

TOTAL QANTITY OF WORK ITEM: 1 ml RESULT : **987.43** Birr/ml

Material Cost (1:01)					**Labor Cost (1:02)**					**ɔment Cost (1:03)**		
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	** Indexed Hourly Cost	Daily wage	Type of Equipment	No.	Hourly Rental
Terrazzo	ml	0.30	170.00	51.00	Forman	1	0.25	23.75	5.94	Tool	2.00	1.28
Cement	kg	2.9	244.36	708.64	Tiler	1	1	17.00	17.00			
Sand	m^3	0.01	448.96	85.30	helper	1	1	10.00	10.00			
Water	m^3	0.19	3.45	0.66								
Total (1:-01)				**845.60**	**Total (1:02)**				**32.94**	**Total (1:03)**		

A= Material unit cost 845.602 Birr/ml **B=Manpower Unit Cost** 8.23 Birr/ml **C=Equipment Unit Cost** 0.64

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

Daily Output Daily output:

Direct Cost of work item = A + B + C = **854.48** Birr/ml

Overhead Cost : 8% 68.36 Birr/ml

Profit Cost: 7% 64.60 Birr/ml

Total: **987.43** Birr/ml

Remark : _____

UF: UTILIZATION FACTOR **Total Unit Cost :** **987.43** Birr/ml

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

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

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: **ROOFING WORKS** LABOUR DAILY OUTPUT: 4

WORK ITEM : (7.66) ***30cm wide Marble with different colors copping*** EQUIPEMENT DAILY OUT PUT: 4

TOTAL QANTITY OF WORK ITEM: 1 ml RESULT : **1154.9** Birr/ml

Material Cost (1:01)					**Labor Cost (1:02)**					**ɔment Cost (1:03)**		
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	** Indexed Hourly Cost	Daily wage	Type of Equipment	No.	Hourly Rental
Marble	ml	1.05	932.00	978.60	Forman	1	0.25	23.75	5.94	Tool	2.00	0.16
Mortar	No.	0.003	2500.00	7.50	Tiler	1	1	17.00	17.00			
					helper	3	1	10.00	30.00			
Total (1:-01)				**986.10**	**Total (1:02)**				**52.94**	**Total (1:03)**		

_____ Data collected by _____-Prepared and checked by _____Approved by

A= Material unit cost	986.1	Birr/ml	**B=Manpower Unit Cost**	13.23	Birr/ml	**C=Equipment Unit Cost**	0.08
			Total of (1:02)			Total of (1:03)	
			Daily Output			Daily output:	
			Direct Cost of work item = A + B + C =			**999.4**	Birr/ml
			Overhead Cost :		8%	79.95	Birr/ml
			Profit Cost:		7%	75.56	Birr/ml
			Total:			**1154.9**	Birr/ml

Remark : _____

UF: UTILIZATION FACTOR **Total Unit Cost :** **1154.9** Birr/ml

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

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

m²/hr.

Hourly Cost
2.56
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Hourly Cost
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Data collected by _____-Prepared and checked by _____Approved by

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Data collected by _____-Prepared and checked by _____Approved by

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Data collected by _____-Prepared and checked by _____Approved by

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Data collected by _____-Prepared and checked by _____Approved by

Birr/ml

Data collected by _____-Prepared and checked by _____Approved by

8.1 ceiling

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: ***Carpentery*** *LABOUR DAILY OUTPUT:*

WORK ITEM :(1) ***8 mm thick chip wood ceiling*** *EQUIPEMENT DAILY OUT P*

TOTAL QANTITY OF WORK ITEM: *1 m2* *RESULT*

Material Cost (1:01)					***Labor Cost (1:02)***				
Type of Material	*Unit*	*Qty **	*Rate*	*Cost per Unit*	*Labor by Trade*	*No.*	*UF*	*** Indexed hourly wage*	*hourly wage*
8 mm thick chip wood	*m2*	*1.1*	*67.19*	*73.90*	*Forman*	*1*	*0.25*	*23.75*	*5.94*
5x4cm batten	*ml*	*6*	*15.00*	*90.00*	*Carpenter I*	*1*	*1*	*8.50*	*8.50*
Nails	*kg*	*0.08*	*33.96*	*2.72*	*Carpenter I*	*1*	*1*	*16.75*	*16.75*
Corner list	*ml*	*1.75*	*15.00*	*26.25*	*Helper*	*2*	*1*	*10.00*	*20.00*
Total (1:-01)				*192.87*	***Total (1:02)***				*51.19*

A=Material unit cost *192.87 Birr/m2* ***B=Manpower Unit Co*** *81.90 Birr/m2*

Total of (1:02)

Daily output:

Direct Cost of work item = A + B + C = ***278.87***

Overhead Cost : *8%* *22.31*

Profit Cost: *7%* *19.52*

Total : ***320.70***

Remark : _____

UF: UTILIZATION FACTOR ***Total Unit Cost :*** ***320.70***

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

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

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: ***Carpentary*** *LABOUR DAILY OUTPUT:*

WORK ITEM :(2) ***Abujedy ceiling*** *EQUIPEMENT DAILY OUT P*

TOTAL QANTITY OF WORK ITEM: *1 m2* *RESULT*

Material Cost (1:01)					***Labor Cost (1:02)***				
Type of Material	*Unit*	*Qty **	*Rate*	*Cost per Unit*	*Labor by Trade*	*No.*	*UF*	*** Indexed hourly wage*	*hourly wage*
Abujedid	*m2*	*1.1*	*11.00*	*12.10*	*Forman*	*1*	0.1	*23.75*	*2.38*
5x4cm batten	*ml*	*6*	*15.00*	*90.00*	*Carpenter I*	*1*	1	*8.50*	*8.50*
Nails	*kg*	*0.08*	*33.96*	*2.72*	*Carpenter I*	*1*	1	*16.75*	*16.75*
Corner list	*ml*	*1.75*	*7.00*	*12.25*	*Helper*	*2*	1	*10.00*	*20.00*
Center list	*ml*	*1.1*	*6.00*	*6.60*					
Total (1:-01)				*123.67*	***Total (1:02)***				*47.63*

A=Material unit cost *123.67 Birr/m2* ***B=Manpower Unit Co*** *29.31 Birr/m2*

Total of (1:02)

Daily output:

Direct Cost of work item = A + B + C = ***154.55***

Overhead Cost : *8%* *12.36*

Profit Cost: *7%* *0.87*

Total : ***167.78***

Remark : _____

UF: UTILIZATION FACTOR ***Total Unit Cost :*** ***167.78***

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

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

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: ***Carpentary*** *LABOUR DAILY OUTPUT:*

WORK ITEM :(3) ***Fyzit ceiling*** *EQUIPEMENT DAILY OUT P*

TOTAL QANTITY OF WORK ITEM: *1 m2* *RESULT*

Material Cost (1:01)	***Labor Cost (1:02)***

Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	** Indexed hourly wage	hourly wage
Fyzit	m2	1.1	50.39	55.43	Forman	1	0.1	23.75	2.38
5x4cm batten	ml	6	15.00	90.00	Carpenter I	1	1	8.50	8.50
Nails	kg	0.08	33.96	2.72	Carpenter I	1	1	16.75	16.75
Corner list	ml	1.75	6.00	10.50	Helper	2	1	10.00	20.00
Total (1:-01)				158.65	**Total (1:02)**				47.63

A=Material unit cost 158.65 Birr/m2 **B=Manpower Unit Co** 63.50 Birr/m2

Total of (1:02)

Daily output:

Direct Cost of work item = A + B + C = **225.56**

Overhead Cost : 8% 18.04

Profit Cost: 7% 17.05

Total : **260.66**

Remark : _____

UF: UTILIZATION FACTOR **Total Unit Cost : 260.66**

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

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

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: **Carpentary** LABOUR DAILY OUTPUT:

WORK ITEM :(4) **PVC ceiling** EQUIPEMENT DAILY OUT P

TOTAL QANTITY OF WORK ITEM: 1 m2 RESULT

Material Cost (1:01)					Labor Cost (1:02)				
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	** Indexed hourly wage	hourly wage
PVC Ceiling	m2	1	250.00	250.00	Forman	1	0.1	23.75	2.38
5x4cm batten	ml	6	15.00	90.00	Carpenter I	1	1	8.50	8.50
Nails	kg	0.08	33.96	2.72	Helper	2	1	10.00	20.00
PVC Corner list	ml	1	15.00	15.00					
Total (1:-01)				357.72	**Total (1:02)**				30.88

A=Material unit cost 357.7 Birr/m2 **B=Manpower Unit Co** 16.47 Birr/m2

Total of (1:02)

Daily output:

Direct Cost of work item = A + B + C = **375.55**

Overhead Cost : 8% 30.04

Profit Cost: 7% 26.29

Total : **431.88**

Remark : _____

UF: UTILIZATION FACTOR **Total Unit Cost : 431.88**

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

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

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: **Carpentary** LABOUR DAILY OUTPUT:

WORK ITEM :(5) **Parquet ceiling** EQUIPEMENT DAILY OUT P

TOTAL QANTITY OF WORK ITEM: 1 m2 RESULT

Material Cost (1:01)					Labor Cost (1:02)				
Type of Material	Unit	Qty *	Rate	Cost per Unit	Trade	No.	UF	wage	hourly wage
Parquet	m2	1	450.00	450.00	Forman	1	0.1	23.75	2.38
5x4cm batten	ml	1.1	15.00	16.50	Carpenter I	1	1	8.50	8.50
Nails	kg	0.08	33.96	2.72	Helper	2	1	10.00	20.00
Parquet Corner list	ml	1	50.00	50.00					

Total (1:-01)	519.22	Total (1:02)	30.88

A=Material unit cost 519 Birr/m2 **B=Manpower Unit Co** 61.75 Birr/m2

Total of (1:02)

Daily output:

Direct Cost of work item = A + B + C = **586.09**

Overhead Cost : 8% 46.89

Profit Cost: 7% 41.03

Total : **674.00**

Remark : _____

UF: UTILIZATION FACTOR **Total Unit Cost : 674.00**

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

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

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: **Carpentary** LABOUR DAILY OUTPUT:

WORK ITEM :(6) **Timber ceiling** EQUIPEMENT DAILY OUT P

TOTAL QANTITY OF WORK ITEM: 1 m2 RESULT

Material Cost (1:01)					Labor Cost (1:02)				
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	** Indexed hourly wage	hourly wage
1cm thick timber	m2	1.1	130.00	143.00	Forman	1	0.1	23.75	2.38
5x4cm batten	ml	6	15.00	90.00	Carpenter I	1	1	8.50	8.50
Nails	kg	0.08	33.96	2.72	DL	1	1	6.38	6.38
Corner list	ml	1	7.00	7.00					
Total (1:-01)				242.72	Total (1:02)				17.25

A=Material unit cost 242.72 Birr/m2 **B=Manpower Unit Co** 13.80 Birr/m2

Total of (1:02)

Daily output:

Direct Cost of work item = A + B + C = **258.56**

Overhead Cost : 8% 20.69

Profit Cost: 7% 18.10

Total : **297.35**

Remark : _____

UF: UTILIZATION FACTOR **Total Unit Cost : 297.35**

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

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

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: **Carpentary** LABOUR DAILY OUTPUT:

WORK ITEM :(7) **Purline ceiling** EQUIPEMENT DAILY OUT P

TOTAL QANTITY OF WORK ITEM: 1 m2 RESULT

Material Cost (1:01)					Labor Cost (1:02)				
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	** Indexed hourly wage	hourly wage
Purlin	m2	1.1	90.00	99.00	Forman	1	0.1	23.75	2.38
5x4cm batten	ml	6	15.00	90.00	Carpenter I	1	1	8.50	8.50
Nails	kg	0.08	33.96	2.72	DL	2	1	6.38	12.75
Corner list	ml	1	7.00	7.00					
Total (1:-01)				198.72	Total (1:02)				23.63

A=Material unit cost 198.72 Birr/m2 **B=Manpower Unit Co** 18.90 Birr/m2

Total of (1:02)

Daily output:

Direct Cost of work item = A + B + C = **219.66**

Overhead Cost : 8% 17.57

Profit Cost: 7% 15.38

Total : **252.61**

Remark : _____

UF: UTILIZATION FACTOR **Total Unit Cost : 252.61**

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

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: **Carpentary** LABOUR DAILY OUTPUT:
WORK ITEM :(8) **Playwood ceiling / Compersato /** EQUIPEMENT DAILY OUT P
TOTAL QANTITY OF WORK ITEM: 1 m2 RESULT

Material Cost (1:01)					Labor Cost (1:02)				
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	** Indexed hourly wage	hourly wage
Playwood	m2	1.1	50.39	55.43	Forman	1	0.1	23.75	2.38
5x4cm batten	ml	6	15.00	90.00	Carpenter I	1	1	8.50	8.50
Nails	kg	0.08	33.96	2.72	DL	2	1	6.38	12.75
Corner list	ml	1	7.00	7.00					
Total (1:-01)				155.15	**Total (1:02)**				23.63

A=Material unit cost 155.15 Birr/m2 **B=Manpower Unit Co** 18.90 Birr/m2
Total of (1:02)
Daily output:
Direct Cost of work item = A + B + C = **176.09**
Overhead Cost : 8% 14.09
Profit Cost: 7% 12.33
Total : **202.51**

Remark : _____
UF: UTILIZATION FACTOR **Total Unit Cost :** **202.51**

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

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: **Carpentary** LABOUR DAILY OUTPUT:
WORK ITEM :(9) **Rush ceilng /ሸንበቆ/** EQUIPEMENT DAILY OUT P
TOTAL QANTITY OF WORK ITEM: 1 m2 RESULT

Material Cost (1:01)					Labor Cost (1:02)				
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	** Indexed hourly wage	hourly wage
Rush /ሸንበቆ/	m2	1.1	3.00	3.30	Forman	1	0.1	23.75	2.38
5x4cm batten	ml	6	15.00	90.00	Carpenter I	1	1	16.75	16.75
Nails	kg	0.08	33.96	2.72	DL	2	1	6.38	12.75
Corner list	ml	1	7.00	7.00					
Total (1:-01)				103.02	**Total (1:02)**				31.88

A=Material unit cost 103.02 Birr/m2 **B=Manpower Unit Co** 25.50 Birr/m2
Total of (1:02)
Daily output:
Direct Cost of work item = A + B + C = **130.56**
Overhead Cost : 8% 10.45
Profit Cost: 7% 9.87
Total : **150.88**

Remark : _____
UF: UTILIZATION FACTOR **Total Unit Cost :** **150.88**

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

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: **Carpentary** LABOUR DAILY OUTPUT:
WORK ITEM :(10) **Ceiling made with plastic sack /ማዳበሪያ ኮርኒስ/** EQUIPEMENT DAILY OUT P
TOTAL QANTITY OF WORK ITEM: 1 m2 RESULT

Material Cost (1:01)	Labor Cost (1:02)

_____Data collected by_____Prepared checked by _____Approved by

Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	** Indexed hourly wage	hourly wage
Plastic sack /ማዳበሪያ/	m2	1.1	10.00	11.00	Forman	1	0.1	23.75	2.38
5x4cm batten	ml	6	15.00	90.00	Carpenter I	1	1	16.75	16.75
Nails	kg	0.08	33.96	2.72	DL	2	1	6.38	12.75
Corner list	ml	1	7.00	7.00					
Total (1:-01)				110.72	**Total (1:02)**				31.88

A=Material unit cost 110.72 Birr/m2 **B=Manpower Unit Co** 19.62 Birr/m2

Total of (1:02)

Daily output:

Direct Cost of work item = A + B + C = **131.91**

Overhead Cost : 8% 10.55

Profit Cost: 7% 9.97

Total : **152.43**

Remark : _____

UF: UTILIZATION FACTOR **Total Unit Cost : 152.43**

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

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

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: **Carpentary** LABOUR DAILY OUTPUT:

WORK ITEM :(11) **Ceiling made with sack /ጆንያ/** EQUIPEMENT DAILY OUT P

TOTAL QANTITY OF WORK ITEM: 1 m2 RESULT

Material Cost (1:01)					Labor Cost (1:02)				
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	** Indexed hourly wage	hourly wage
Sack /ጆንያ/	m2	1.1	14.00	15.40	Forman	1	0.1	23.75	2.38
5x4cm batten	ml	6	15.00	90.00	Carpenter I	1	1	16.75	16.75
Nails	kg	0.08	33.96	2.72	DL	2	1	6.38	12.75
Corner list	ml	1	7.00	7.00					
Total (1:-01)				115.12	**Total (1:02)**				31.88

A=Material unit cost 115.12 Birr/m2 **B=Manpower Unit Co** 19.62 Birr/m2

Total of (1:02)

Daily output:

Direct Cost of work item = A + B + C = **136.31**

Overhead Cost : 8% 10.90

Profit Cost: 7% 10.30

Total : **157.52**

Remark : _____

UF: UTILIZATION FACTOR **Total Unit Cost : 157.52**

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

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

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: **Carpentary** LABOUR DAILY OUTPUT:

WORK ITEM :(12) **Acostic ceiling** EQUIPEMENT DAILY OUT P

TOTAL QANTITY OF WORK ITEM: 1 m2 RESULT

Material Cost (1:01)					Labor Cost (1:02)				
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	** Indexed hourly wage	hourly wage
Acostic ARMSTRO	m2	0.8	60.00	48.00	Forman	1	0.1	23.75	2.38
5x4cm batten	ml	6	15.00	90.00	Carpenter I	1	1	16.75	16.75
Nails	kg	0.08	33.96	2.72	DL	2	1	6.38	12.75
Almunium suspension	ml		7.00	0.00					
NG FIBER Wool Including									

Total (1:-01)				140.72	**Total (1:02)**				31.88

A=Material unit cost 140.72 Birr/m2 **B=Manpower Unit Co** 19.62 Birr/m2

Total of (1:02)

Daily output:

Direct Cost of work item = A + B + C = **161.91**

Overhead Cost : 8% 12.95

Profit Cost: 7% 12.24

Total : **187.10**

Remark : _____

UF: UTILIZATION FACTOR **Total Unit Cost : 187.10**

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

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

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: **Carpentary** LABOUR DAILY OUTPUT:

WORK ITEM :(12) **Timber flooring** EQUIPEMENT DAILY OUT P

TOTAL QANTITY OF WORK ITEM: 1 m2 RESULT

Material Cost (1:01)					**Labor Cost (1:02)**				
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	** Indexed hourly wage	hourly wage
Timber 1cm thick	m2	0.8	130.00	104.00	Forman	1	0.1	23.75	2.38
5x4cm batten	ml	6	15.00	90.00	Carpenter I	1	1	16.75	16.75
Nails	kg	0.08	33.96	2.72	DL	2	1	6.38	12.75
Total (1:-01)				196.72	**Total (1:02)**				31.88

A=Material unit cost 196.72 Birr/m2 **B=Manpower Unit Co** 19.62 Birr/m2

Total of (1:02)

Daily output:

Direct Cost of work item = A + B + C = **217.91**

Overhead Cost : 8% 17.43

Profit Cost: 7% 16.47

Total : **251.81**

Remark : _____

UF: UTILIZATION FACTOR **Total Unit Cost : 251.81**

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

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

10.2 Fascia board

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: **Carpentary** LABOUR DAILY OUTPUT:

WORK ITEM :(a) **20x2.5cm wooden fascia board** EQUIPEMENT DAILY OUT P

TOTAL QANTITY OF WORK ITEM: 1 m2 RESULT

Material Cost (1:01)					**Labor Cost (1:02)**				
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	** Indexed hourly wage	hourly wage
20cm Fascia board	ml	1.2	50.00	60.00	Forman	1	0.25	23.75	5.94
Nails	kg	0.03	33.96	1.02	Carpenter I	1	1	16.75	16.75
Synthetic enamel paint	lit	0.18	55.00	9.90	DL	2	1	6.38	12.75
				0.00					
Total (1:-01)				70.92	**Total (1:02)**				35.44

A=Material unit cost 70.92 Birr/m2 **B=Manpower Unit Co** 3.78 Birr/m2

Total of (1:02)

Daily output:

_____Data collected by_____Prepared checked by _____Approved by

Direct Cost of work item = A + B + C =		***74.97***
Overhead Cost :	*8%*	*6.00*
Profit Cost:	*7%*	*5.67*
Total :		***86.64***

Remark : _____

UF: UTILIZATION FACTOR ***Total Unit Cost :*** ***86.64***

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

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

10.2 Fascia board

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: ***Carpentary*** *LABOUR DAILY OUTPUT:*

WORK ITEM :(a) ***25x2.5cm wooden fascia board*** *EQUIPEMENT DAILY OUT P*

TOTAL QANTITY OF WORK ITEM: *1 m2* *RESULT*

Material Cost (1:01)					***Labor Cost (1:02)***				
Type of Material	*Unit*	*Qty **	*Rate*	*Cost per Unit*	*Labor by Trade*	*No.*	*UF*	*** Indexed hourly wage*	*hourly wage*
25cm Fascia board	*ml*	*1.2*	*62.50*	*75.00*	*Forman*	*1*	*0.25*	*23.75*	*5.94*
Nails	*kg*	*0.03*	*33.96*	*1.02*	*Carpenter I*	*1*	*1*	*16.75*	*16.75*
Synthetic enamel paint	lit	*0.18*	*55.00*	*9.90*	*DL*	*2*	*1*	*6.38*	*12.75*
Total (1:-01)				*85.92*	***Total (1:02)***				*35.44*

A=Material unit cost *85.92 Birr/m2* ***B=Manpower Unit Co*** *3.78 Birr/m2*

Total of (1:02)

Daily output:

Direct Cost of work item = A + B + C =		***89.97***
Overhead Cost :	*8%*	*7.20*
Profit Cost:	*7%*	*6.80*
Total :		***103.97***

Remark : _____

UF: UTILIZATION FACTOR ***Total Unit Cost :*** ***103.97***

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

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

10.2 Fascia board

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: ***Carpentary*** *LABOUR DAILY OUTPUT:*

WORK ITEM :(a) ***30 x2.5cm wooden fascia board*** *EQUIPEMENT DAILY OUT P*

TOTAL QANTITY OF WORK ITEM: *1 m2* *RESULT*

Material Cost (1:01)					***Labor Cost (1:02)***				
Type of Material	*Unit*	*Qty **	*Rate*	*Cost per Unit*	*Labor by Trade*	*No.*	*UF*	*** Indexed hourly wage*	*hourly wage*
30cm Fascia board	*ml*	*1.2*	*700.00*	*840.00*	*Forman*	*1*	*0.25*	*85.00*	*21.25*
Nails	*kg*	*0.03*	*180.00*	*5.40*	*Carpenter I*	*1*	*1*	*68.75*	*68.75*
Synthetic enamel paint	lit	*0.18*	*317.00*	*57.06*	*DL*	*2*	*1*	*31.25*	*62.50*
Total (1:-01)				*902.46*	***Total (1:02)***				*152.50*

A=Material unit cost *902.46 Birr/m2* ***B=Manpower Unit Co*** *16.27 Birr/m2*

Total of (1:02)

Daily output:

Direct Cost of work item = A + B + C =		***918.94***
Overhead Cost :	*10%*	*91.89*
Profit Cost:	*15%*	*151.63*
Total :		***1162.46***

Remark : _____

UF: UTILIZATION FACTOR ***Total Unit Cost :*** ***1162.46***

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

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

10.3 Truss member

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: _**Carpentary** LABOUR DAILY
WORK ITEM :(a) **Diam. 10-12 cm thick eucalyptus truss upper and lower chord** EQUIPEMENT D
TOTAL QANTITY OF WORK ITEM: 1 ml RESULT

Material Cost (1:01)					Labor Cost (1:02)				
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	** Indexed hourly wage	hourly wage
Eucalyptus	ml	1.5	10.00	15.00	Forman	1	0.25	23.75	5.94
Nail	Kg	0.04	33.96	1.36	Carpenter I	1	1	8.50	8.50
Band iron	Kg	0.012	25.00	0.30	Helper	2	1	10.00	20.00
Oil	Lt	0.01	15.00	0.15					
Bar dia.6mm	Kg	0.1	23.00	2.30					
Total (1:-01)				19.11	**Total (1:02)**				34.44

A=Material unit cost 19.11 Birr/ml **B=Manpower Unit Co** 3.44 Birr/ml
Total of (1:02)
Daily output:
Direct Cost of work item = A + B + C = **22.81**
Overhead Cost : 8% 1.82
Profit Cost: 7% 1.72
Total : **26.36**
Remark : _____ Vat:
UF: UTILIZATION FACTOR **Total Unit Cost :** **26.36**
*: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.
**: INCLUSIVE OF BENEFITS, TRAVEL SUBSIDES AND COST OF OVERTIME RELATED TO TARGETED OUTPUT.

10.3 Truss member

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: _ **Carpentary** LABOUR DAILY
WORK ITEM :(b) **Diam. 8 - 10 cm thick eucalyptus truss diagonal and vertical member** EQUIPEMENT D
TOTAL QANTITY OF WORK ITEM: 1 ml RESULT

Material Cost (1:01)					Labor Cost (1:02)				
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	** Indexed hourly wage	hourly wage
Eucalyptus	ml	1.5	12.57	18.86	Forman	1	0.25	23.75	5.94
Nail	Kg	0.04	33.96	1.36	Carpenter I	1	1	8.50	8.50
Band iron	Kg	0.012	25.00	0.30	Helper	2	1	10.00	20.00
Oil	Lt	0.01	15.00	0.15					
Bar dia.6mm	Kg	0.1	23.00	2.30					
Total (1:-01)				22.96	**Total (1:02)**				34.44

A=Material unit cost 22.96 Birr/ml **B=Manpower Unit Co** 4.59 Birr/ml
Total of (1:02)
Daily output:
Direct Cost of work item = A + B + C = **27.90**
Overhead Cost : 8% 2.23
Profit Cost: 7% 2.11
Total : **32.24**
Remark : _____ Vat:
UF: UTILIZATION FACTOR **Total Unit Cost :** **32.24**
*: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.
**: INCLUSIVE OF BENEFITS, TRAVEL SUBSIDES AND COST OF OVERTIME RELATED TO TARGETED OUTPUT.

10.3 Truss member

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: _ **Carpentary** LABOUR DAILY
WORK ITEM :(c) **Diam. 6 cm thick eucalyptus purlin** EQUIPEMENT D
TOTAL QANTITY OF WORK ITEM: 1 ml RESULT

Material Cost (1:01)					Labor Cost (1:02)				
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	** Indexed hourly wage	hourly wage
Eucalyptus	ml	1.4	7.50	10.50	Forman	1	0.25	23.75	5.94
Nail	Kg	0.03	33.96	1.02	Carpenter I	1	1	8.50	8.50
Oil	Lt	0.01	15.00	0.15	Helper	2	1	10.00	20.00
Total (1:-01)				11.67	**Total (1:02)**				34.44

A=Material unit cost 11.67 Birr/ml

B=Manpower Unit Co 3.67 Birr/ml

Total of (1:02)

Daily output:

Direct Cost of work item = A + B + C = **15.62**

Overhead Cost : 8% 1.25

Profit Cost: 7% 1.18

Total : **18.04**

Vat:

Total Unit Cost : 18.04

Remark : _____

UF: UTILIZATION FACTOR

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

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

10.3 Truss member

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: _ **Carpentary**

LABOUR DAILY OUTPUT:

WORK ITEM :(d) **Diam.5x7cm thick standard quality batten**

EQUIPEMENT DAILY OUT P

TOTAL QANTITY OF WORK ITEM: 1 ml

RESULT

Material Cost (1:01)					Labor Cost (1:02)				
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	** Indexed hourly wage	hourly wage
5x7cm batten	ml	1.2	22.50	27.00	Forman	1	0.25	23.75	5.94
Nail	Kg	0.15	33.96	5.09	Carpenter I	1	1	8.50	8.50
Oil	Lt	0.01	15.00	0.15	Helper	2	1	10.00	20.00
Total (1:-01)				32.24	**Total (1:02)**				34.44

A=Material unit cost 32.24 Birr/ml

B=Manpower Unit Co 3.67 Birr/ml

Total of (1:02)

Daily output:

Direct Cost of work item = A + B + C = **36.19**

Overhead Cost : 8% 2.90

Profit Cost: 7% 2.74

Total : **41.82**

Vat:

Total Unit Cost : 41.82

Remark : _____

UF: UTILIZATION FACTOR

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

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

10.3 Truss member

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: __ **Carpentary**

LABOUR DAILY OUTPUT:

WORK ITEM :(e) **Diam.5x7cm thick best quality batten**

EQUIPEMENT DAILY OUT P

TOTAL QANTITY OF WORK ITEM: 1 ml

RESULT

Material Cost (1:01)					Labor Cost (1:02)				
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	** Indexed hourly wage	hourly wage

5x7cm batten	ml	1.2	32.50	39.00	Forman	1	0.25	23.75	5.94
Nail	Kg	0.15	33.96	5.09	Carpenter I	1	1	8.50	8.50
Oil	Lt	0.01	15.00	0.15	Helper	2	1	10.00	20.00
Total (1:-01)				44.24	**Total (1:02)**				34.44

A=Material unit cost	44.24 Birr/ml	***B=Manpower Unit Co***	3.67 Birr/ml
		Total of (1:02)	
		Daily output:	
	Direct Cost of work item = A + B + C =		***48.19***
		Overhead Cost :	*8%* *3.86*
		Profit Cost:	*7%* *3.64*
		Total :	***55.69***
Remark : _____		*Vat:*	
UF: UTILIZATION FACTOR		***Total Unit Cost :***	***55.69***

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

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

10.3 RHS Truss member

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: __ ***Carpentary*** *LABOUR DAILY OUTPUT:*

WORK ITEM :(e) ***50X50X3mm RHS Truss*** *EQUIPEMENT DAILY OUT P*

TOTAL QANTITY OF WORK ITEM: *1 ml* *RESULT*

Material Cost (1:01)					***Labor Cost (1:02)***				
Type of Material	*Unit*	*Qty **	*Rate*	*Cost per Unit*	*Labor by Trade*	*No.*	*UF*	*** Indexed hourly wage*	*hourly wage*
50x50x3mm RHS	ml	2.1	16.98	35.66	Forman	1	0.25	23.75	5.94
Electrode	No	4	1.85	7.40	Welder	1	1	14.25	14.25
Antirust	lt	0.05	51.75	2.59	Helper	2	1	10.00	20.00
Electric power	Kw/hr	2	2.75	5.50					
Total (1:-01)				51.15	**Total (1:02)**				40.19

A=Material unit cost	51.15 Birr/ml	***B=Manpower Unit Co***	26.79 Birr/ml
		Total of (1:02)	
		Daily output:	
	Direct Cost of work item = A + B + C =		***79.64***
		Overhead Cost :	*8%* *6.37*
		Profit Cost:	*7%* *6.02*
		Total :	***92.04***
Remark : _____		*Vat:*	
UF: UTILIZATION FACTOR		***Total Unit Cost :***	***92.04***

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

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

10.4 Wooden door

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: _ ***Carpentary*** LABOUR DAILY

WORK ITEM : (a) ***Mahogany ply wood smooth finish flush wooden door*** EQUIPEMENT D

TOTAL QANTITY OF WORK ITEM: 1 m^2 RESULT

Material Cost (1:01)					**Labor Cost (1:02)**				
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	** *Indexed hourly wage*	*hourly wage*
Flush wooden door	m2	1	2300.00	2300.00	Foreman	1	0.25	23.75	5.94
Cylindrical lock	pcs	1	450.00	450.00	Carpenter I	1	1	8.50	8.50
					Carpenter I	1	1	16.75	16.75
					Helper	1	1	10.00	10.00

_____Data collected by_____Prepared checked by _____Approved by

Total (1:-01)				2750.00	**Total (1:02)**				41.19

A= Material unit cost 2750 Birr/m2 **B=Manpower Unit Cost** 31.68 Birr/m2

Total of (1:02)

Daily output:

Direct Cost of work item = A + B + C = **2794.21**

Overhead Cost : 8% 223.54

Profit Cost: 7% 211.24

Total : **3228.98**

Remark : _____

UF: UTILIZATION FACTOR **Total Unit Cost :** **3228.98**

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

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

10.4 Wooden door

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: _ ***Carpentary*** LABOUR DAILY

WORK ITEM : (b) ***Woyra ply wood smooth finish flush wooden door.*** EQUIPEMENT D

TOTAL QANTITY OF WORK ITEM: 1 m^2 RESULT

Material Cost (1:01)					**Labor Cost (1:02)**				
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	** *Indexed hourly wage*	*hourly wage*
Flush wooden door	m2	1	2300.00	2300.00	Foreman	1	0.25	23.75	5.94
Cylindrical lock	pcs	1	450.00	450.00	Carpenter I	1	1	8.50	8.50
					Carpenter I	1	1	16.75	16.75
					Helper	1	1	10.00	10.00
Total (1:-01)				2750.00	**Total (1:02)**				41.19

A= Material unit cost 2750 Birr/m2 **B=Manpower Unit Cost** 31.68 Birr/m2

Total of (1:02)

Daily output:

Direct Cost of work item = A + B + C = **2795.19**

Overhead Cost : 8% 223.62

Profit Cost: 7% 211.32

Total : **3230.12**

Remark : _____

UF: UTILIZATION FACTOR **Total Unit Cost :** **3230.12**

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

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

10.4 Wooden door

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: __ ***Carpentary*** LABOUR DAILY

WORK ITEM : (c) ***Smooth finish MDF board wooden door (best quality)*** EQUIPEMENT D

TOTAL QANTITY OF WORK ITEM: 1 m^2 RESULT

Material Cost (1:01)					**Labor Cost (1:02)**				
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	** *Indexed hourly wage*	*hourly wage*
MDF wooden door	m2	1	3000.00	3000.00	Foreman	1	0.25	23.75	5.94
Cylindrical lock	pcs	1	450.00	450.00	Carpenter I	1	1	8.50	8.50
					Carpenter I	1	1	16.75	16.75
					Helper	1	1	10.00	10.00
Total (1:-01)				3450.00	**Total (1:02)**				41.19

A= Material unit cost 3450 Birr/m2 **B=Manpower Unit Cost** 31.68 Birr/m2

Total of (1:02)

Daily output:

Direct Cost of work item = A + B + C =		**3495.19**
Overhead Cost :	8%	279.62
Profit Cost:	7%	264.24
Total :		**4039.0**
Total Unit Cost :		**4039.0**

Remark : _____

UF: UTILIZATION FACTOR

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

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

10.4 Wooden door

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: **Carpentary** LABOUR DAILY

WORK ITEM : (d) ***Antique MDF board wooden door (best quality)*** EQUIPEMENT D

TOTAL QANTITY OF WORK ITEM: 1 m^2 RESULT

Material Cost (1:01)					Labor Cost (1:02)				
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	** *Indexed hourly wage*	*hourly wage*
Flush wooden door	m2	1	3500.00	3500.00	Foreman	1	0.25	23.75	5.94
Cylindrical lock	pcs	1	450.00	450.00	Carpenter I	1	1	8.50	8.50
					Carpenter I	1	1	16.75	16.75
					Helper	1	1	10.00	10.00
Total (1:-01)				3950.00	**Total (1:02)**				41.19

A= Material unit cost 3950 Birr/m2 **B=Manpower Unit Cost** 31.68 Birr/m2

Total of (1:02)

Daily output:

Direct Cost of work item = A + B + C =		**3981.68**
Overhead Cost :	8%	318.53
Profit Cost:	7%	301.02
Total :		**4601.23**
Total Unit Cost :		**4601.23**

Remark : _____

UF: UTILIZATION FACTOR

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

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

10.4 Wooden door

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: **Carpentary** LABOUR DAILY

WORK ITEM : (e) ***Solide wooden door (best quality)*** EQUIPEMENT D

TOTAL QANTITY OF WORK ITEM: 1 m^2 RESULT

Material Cost (1:01)					Labor Cost (1:02)				
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	** *Indexed hourly wage*	*hourly wage*
Solide wooden door	m2	1	5200.00	5200.00	Foreman	1	0.25	23.75	5.94
Cylindrical lock	pcs	1	500.00	500.00	Carpenter I	1	1	18.75	18.75
					Carpenter I	1	1	22.50	22.50
					Helper	1	1	10.00	10.00
Total (1:-01)				5700.00	**Total (1:02)**				57.19

A= Material unit cost 5700 Birr/m2 **B=Manpower Unit Cost** 43.99 Birr/m2

Total of (1:02)

Daily output:

Direct Cost of work item = A + B + C =		**5757.50**
Overhead Cost :	8%	460.60
Profit Cost:	7%	435.27
Total :		**6653.36**
Total Unit Cost :		**6653.36**

Remark : _____

UF: UTILIZATION FACTOR

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

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

10.4 Wooden door

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: **Carpentary** LABOUR DAILY

WORK ITEM :(f) ***1cm thick timber door /ፐርሊን ጣውላ መናኛ በር /*** EQUIPEMENT D

TOTAL QANTITY OF WORK ITEM: 1 m^2 RESULT

Material Cost (1:01)					Labor Cost (1:02)				
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	** *Indexed hourly wage*	*hourly wage*
1cm thick timber	m2	1.1	120.00	132.00	Foreman	1	0.1	23.75	2.38
5cm wide fascia board	ml	4	12.5	50.00	Carpenter I	1	1	8.50	8.50
Nails of different size	kg	0.2	33.96	6.79	DL	1	1	6.38	6.38
Cylindrical lock	pcs	1	280.00	280.00					
Total (1:-01)				468.79	**Total (1:02)**				17.25

A= Material unit cost 468.792 Birr/m2 **B=Manpower Unit Cost** 34.50 Birr/m2

Total of (1:02)

Daily output:

Direct Cost of work item = A + B + C =		**538.41**
Overhead Cost :	8%	43.07
Profit Cost:	7%	40.70
Total :		**622.19**
Total Unit Cost :		**622.19**

Remark : _____

UF: UTILIZATION FACTOR

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

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

10.4 Wooden door

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: **Carpentary** LABOUR DAILY

WORK ITEM :(f) ***3cm thick timber door /ፐርሊን ጣውላ በር /*** EQUIPEMENT D

TOTAL QANTITY OF WORK ITEM: 1 m^2 RESULT

Material Cost (1:01)					Labor Cost (1:02)				
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	** *Indexed hourly wage*	*hourly wage*
3cm thick timber	m2	1.1	310.00	341.00	Foreman	1	0.1	23.75	2.38
5cm wide fascia board	ml	4	12.5	50.00	Carpenter I	1	1	8.50	8.50
Nails of different size	kg	0.2	33.96	6.79	DL	1	1	6.38	6.38
Cylindrical lock	pcs	1	280.00	280.00					
Total (1:-01)				677.79	**Total (1:02)**				17.25

A= Material unit cost 677.792 Birr/m2 **B=Manpower Unit Cost** 34.50 Birr/m2

Total of (1:02)

Daily output:

Direct Cost of work item = A + B + C =		**747.41**
Overhead Cost :	8%	59.79
Profit Cost:	7%	56.50
Total :		**863.71**
Total Unit Cost :		**863.71**

Remark : _____

UF: UTILIZATION FACTOR

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

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

10.4 Wooden window

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: **Carpentary** LABOUR DAILY

WORK ITEM :(f) ***1cm thick timber window*** */ፐርሊን ጣውላ መናኛ መስኩት /* EQUIPEMENT D

TOTAL QANTITY OF WORK ITEM: 1 m^2 RESULT

Material Cost (1:01)					Labor Cost (1:02)				
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	** *Indexed hourly wage*	*hourly wage*
1cm thick timber	m2	1.1	120.00	132.00	Foreman	1	0.1	23.75	2.38
5cm wide fascia board	ml	4	12.5	50.00	Carpenter I	1	1	8.50	8.50
Nails of different size	kg	0.2	33.96	6.79	DL	1	1	6.38	6.38
Locker	pcs	1	15.00	15.00					
Total (1:-01)				203.79	**Total (1:02)**				17.25

A= Material unit cost 203.792 Birr/m2 **B=Manpower Unit Cost** 34.50 Birr/m2

Total of (1:02)

Daily output:

Direct Cost of work item = A + B + C =		**243.41**
Overhead Cost :	8%	19.47
Profit Cost:	7%	18.40
Total :		**281.29**
Total Unit Cost :		**281.29**

Remark : _____

UF: UTILIZATION FACTOR

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

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

10.4 Wooden door

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: **Carpentary** LABOUR DAILY

WORK ITEM :(f) ***3cm thick timber door*** */ፐርሊን ጣውላ መስኩት /* EQUIPEMENT D

TOTAL QANTITY OF WORK ITEM: 1 m^2 RESULT

Material Cost (1:01)					Labor Cost (1:02)				
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	** *Indexed hourly wage*	*hourly wage*
3cm thick timber	m2	1.1	310.00	341.00	Foreman	1	0.1	23.75	2.38
5cm wide fascia board	ml	4	12.5	50.00	Carpenter I	1	1	8.50	8.50
Nails of different size	kg	0.2	33.96	6.79	DL	1	1	6.38	6.38
Locker	pcs	1	60.00	60.00					
Total (1:-01)				457.79	**Total (1:02)**				17.25

A= Material unit cost 457.792 Birr/m2 **B=Manpower Unit Cost** 46.00 Birr/m2

Total of (1:02)

Daily output:

Direct Cost of work item = A + B + C =		**510.62**
Overhead Cost :	8%	40.85

_____Data collected by_____Prepared checked by _____Approved by

Profit Cost:	7%	38.60
Total :		**590.07**
Total Unit Cost :		**590.07**

Remark : _____

UF: UTILIZATION FACTOR

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

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

10.4 Wooden door

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: **Carpentary** LABOUR DAILY

WORK ITEM :(f) ***3cm thick timber door*** /ፐርሊን ጣውላ መስኮት / EQUIPEMENT D

TOTAL QANTITY OF WORK ITEM: 1 m² RESULT

Material Cost (1:01)					Labor Cost (1:02)				
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	** *Indexed hourly wage*	*hourly wage*
3cm thick timber	m2	1.1	310.00	341.00	Foreman	1	0.1	23.75	2.38
5cm wide fascia board	ml	4	12.5	50.00	Carpenter I	1	1	8.50	8.50
Nails of different size	kg	0.2	33.96	6.79	DL	1	1	6.38	6.38
Locker	pcs	2	60.00	120.00					
Wooden frame	ml	9	30.00	270.00					
Total (1:-01)				787.79	**Total (1:02)**				17.25

A= Material unit cost 787.792 Birr/m2 **B=Manpower Unit Cost** 46.00 Birr/m2

Total of (1:02)

Daily output:

Direct Cost of work item = A + B + C =		**833.79**
Overhead Cost :	8%	66.70
Profit Cost:	7%	63.03
Total :		**963.53**
Total Unit Cost :		**963.53**

Remark : _____

UF: UTILIZATION FACTOR

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

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

10.4 Wooden door

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: **Carpentary** LABOUR DAILY

WORK ITEM :(f) ***3cm thick timber door*** /ፐርሊን ጣውላ በርና መስኮት / EQUIPEMENT D

TOTAL QANTITY OF WORK ITEM: 1 m² RESULT

Material Cost (1:01)					Labor Cost (1:02)				
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	** *Indexed hourly wage*	*hourly wage*
3cm thick timber	m2	1.1	310.00	341.00	Foreman	1	0.1	23.75	2.38
5cm wide fascia board	ml	4	12.5	50.00	Carpenter I	1	1	8.50	8.50
Nails of different size	kg	0.2	33.96	6.79	DL	1	1	6.38	6.38
Cylindrical lock	pcs	1	280.00	280.00					
Figured glass	m²	0.3	350.00	105.00					
Total (1:-01)				782.79	**Total (1:02)**				17.25

A= Material unit cost 782.792 Birr/m2 **B=Manpower Unit Cost** 46.00 Birr/m2

Total of (1:02)

Daily output:

Direct Cost of work item = A + B + C =		**835.62**
Overhead Cost :	8%	66.85
Profit Cost:	7%	63.17

_____Data collected by_____Prepared checked by _____Approved by

Total : **965.64**

Remark : _____

UF: UTILIZATION FACTOR **Total Unit Cost :** **965.64**

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

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

10.4 Wooden window

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: **Carpentary** LABOUR DAILY

WORK ITEM :(f) ***3cm thick timber window*** /ፐርሊን ጣውላ በርና መስኮት / EQUIPEMENT D

TOTAL QANTITY OF WORK ITEM: 1 m² RESULT

Material Cost (1:01)					Labor Cost (1:02)				
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	** Indexed hourly wage	hourly wage
3cm thick timber	m2	1.1	310.00	341.00	Foreman	1	0.1	23.75	2.38
5cm wide fascia board	ml	4	12.5	50.00	Carpenter I	1	1	8.50	8.50
Nails of different size	kg	0.2	33.96	6.79	DL	1	1	6.38	6.38
Locker	pcs	1	15.00	15.00					
Total (1:-01)				412.79	**Total (1:02)**				17.25

A= Material unit cost 412.792 Birr/m2 **B=Manpower Unit Cost** 46.00 Birr/m2

Total of (1:02)

Daily output:

Direct Cost of work item = A + B + C = **465.62**

Overhead Cost : 8% 37.25

Profit Cost: 7% 35.20

Total : **538.07**

Remark : _____

UF: UTILIZATION FACTOR **Total Unit Cost :** **538.07**

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

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

10.4 Wooden window

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: **Carpentary** LABOUR DAILY

WORK ITEM :(f) ***3cm thick timber window*** /ፐርሊን ጣውላ በርና መስኮት / EQUIPEMENT D

TOTAL QANTITY OF WORK ITEM: 1 m² RESULT

Material Cost (1:01)					Labor Cost (1:02)				
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	** Indexed hourly wage	hourly wage
3cm thick timber	m2	1.1	310.00	341.00	Foreman	1	0.1	23.75	2.38
5cm wide fascia board	ml	4	12.5	50.00	Carpenter I	1	1	8.50	8.50
Nails of different size	kg	0.2	33.96	6.79	DL	1	1	6.38	6.38
Locker	pcs	1	15.00	15.00					
Figured glass	m²	1.1	350.00	385.00					
Total (1:-01)				797.79	**Total (1:02)**				17.25

A= Material unit cost 797.792 Birr/m2 **B=Manpower Unit Cost** 46.00 Birr/m2

Total of (1:02)

Daily output:

Direct Cost of work item = A + B + C = **850.62**

Overhead Cost : 8% 68.05

Profit Cost: 7% 64.31

Total : **982.97**

Remark : _____

_____Data collected by_____Prepared checked by _____Approved by

UF: UTILIZATION FACTOR **Total Unit Cost :** **982.97**
*: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.
**: INCLUSIVE OF BENEFITS, TRAVEL SUBSIDES AND COST OF OVERTIME RELATED TO TARGETED OUTPUT.

10.4 Wooden door

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: **Carpentary** LABOUR DAILY
WORK ITEM :(g) ***G-32 CIS door with all wood work /የቆርቆሮ በር /*** EQUIPEMENT D
TOTAL QANTITY OF WORK ITEM: 1 m² RESULT

Material Cost (1:01)					Labor Cost (1:02)				
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	** *Indexed hourly wage*	*hourly wage*
G-32 CIS	m2	1.1	80.00	88.00	Foreman	1	0.1	23.75	2.38
4 cm thick euca.	ml	4	5	20.00	Carpenter I	1	1	8.50	8.50
Nails of different size	kg	0.2	33.96	6.79	DL	1	1	6.38	6.38
Locker iiii	pcs	1	60.00	60.00					
5cm fascia board	ml	4	12.50	50.00					
Total (1:-01)				224.79	**Total (1:02)**				17.25

A= Material unit cost 224.792 Birr/m2 **B=Manpower Unit Cost** 34.50 Birr/m2
Total of (1:02)
Daily output:
Direct Cost of work item = A + B + C = **264.41**
Overhead Cost : 8% 21.15
Profit Cost: 7% 19.99
Total : **305.55**

Remark : _____
UF: UTILIZATION FACTOR **Total Unit Cost :** **305.55**
*: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.
**: INCLUSIVE OF BENEFITS, TRAVEL SUBSIDES AND COST OF OVERTIME RELATED TO TARGETED OUTPUT.

10.4 Wooden door

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: **Carpentary** LABOUR DAILY
WORK ITEM :(g) ***G-32 CIS window with all wood work /የቆርቆሮ በር /*** EQUIPEMENT D
TOTAL QANTITY OF WORK ITEM: 1 m² RESULT

Material Cost (1:01)					Labor Cost (1:02)				
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	** *Indexed hourly wage*	*hourly wage*
G-32 CIS	m2	1.1	80.00	88.00	Foreman	1	0.1	23.75	2.38
4 cm thick euca.	ml	4	5	20.00	Carpenter I	1	1	8.50	8.50
Nails of different size	kg	0.2	33.96	6.79	DL	1	1	6.38	6.38
Locker	pcs	1	15.00	15.00					
5cm fascia board	ml	4	12.50	50.00					
Total (1:-01)				179.79	**Total (1:02)**				17.25

A= Material unit cost 179.792 Birr/m2 **B=Manpower Unit Cost** 34.50 Birr/m2
Total of (1:02)
Daily output:
Direct Cost of work item = A + B + C = **219.41**
Overhead Cost : 8% 17.55
Profit Cost: 7% 16.59
Total : **253.55**

_____Data collected by_____Prepared checked by _____Approved by

Remark : _____
UF: UTILIZATION FACTOR **Total Unit Cost :** **253.55**
*: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.
**: INCLUSIVE OF BENEFITS, TRAVEL SUBSIDES AND COST OF OVERTIME RELATED TO TARGETED OUTPUT.

10.4 Wooden door

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: **Carpentary** LABOUR DAILY
WORK ITEM :(h) ***Timber /Tsid/ door /የጽድ ጣውላ በር /*** EQUIPEMENT D
TOTAL QANTITY OF WORK ITEM: 1 m² RESULT

Material Cost (1:01)					Labor Cost (1:02)				
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	** *Indexed hourly wage*	*hourly wage*
Timber /የጽድ ጣውላ/	m2	1.1	230.00	253.00	Foreman	1	0.1	23.75	2.38
Nails of different size	kg	0.2	33.96	6.79	Carpenter I	1	1	8.50	8.50
Cylindrical lock	pcs	1	150.00	150.00	DL	1	1	6.38	6.38
5cm fascia board	ml	4	12.50	50.00					
Total (1:-01)				459.79	**Total (1:02)**				17.25

A= Material unit cost 459.792 Birr/m2 **B=Manpower Unit Cost** 34.50 Birr/m2
Total of (1:02)
Daily output:
Direct Cost of work item = A + B + C = **499.41**
Overhead Cost : 8% 39.95
Profit Cost: 7% 37.76
Total : **577.12**

Remark : _____
UF: UTILIZATION FACTOR **Total Unit Cost :** **577.12**
*: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.
**: INCLUSIVE OF BENEFITS, TRAVEL SUBSIDES AND COST OF OVERTIME RELATED TO TARGETED OUTPUT.

10.4 Wooden window

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: **Carpentary** LABOUR DAILY
WORK ITEM :(h) ***Timber /Tsid/ window/የጽድ ጣውላ በር /*** EQUIPEMENT D
TOTAL QANTITY OF WORK ITEM: 1 m² RESULT

Material Cost (1:01)					Labor Cost (1:02)				
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	** *Indexed hourly wage*	*hourly wage*
Timber /የጽድ ጣውላ/	m2	1.1	230.00	253.00	Foreman	1	0.1	23.75	2.38
Nails of different size	kg	0.2	33.96	6.79	Carpenter I	1	1	8.50	8.50
Locker	pcs	1	15.00	3.00	DL	1	1	6.38	6.38
5cm fascia board	ml	4	12.50	12.50					
Total (1:-01)				275.29	**Total (1:02)**				17.25

A= Material unit cost 275.292 Birr/m2 **B=Manpower Unit Cost** 34.50 Birr/m2
Total of (1:02)
Daily output:
Direct Cost of work item = A + B + C = **314.91**
Overhead Cost : 8% 25.19
Profit Cost: 7% 23.81
Total : **363.91**

Remark : _____
UF: UTILIZATION FACTOR **Total Unit Cost :** **363.91**

_____Data collected by_____Prepared checked by _____Approved by

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

10.5 Wooden cupboard

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: _ ***Carpentary*** LABOUR DAILY
WORK ITEM : (a) ***Woyra ply wood flush wooden built in cupboard (standared version)*** EQUIPEMENT D
TOTAL QANTITY OF WORK ITEM: 1 m² RESULT

Material Cost (1:01)					Labor Cost (1:02)				
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	** *Indexed hourly wage*	*hourly wage*
Built in cupboard	m2	1	2000.00	2000.00	Foreman	1	0.25	23.75	5.94
					Carpenter I	1	1	8.50	8.50
					Carpenter I	1	1	16.75	16.75
					Helper	1	1	10.00	10.00
Total (1:-01)				2000.00	**Total (1:02)**				41.19

A= Material unit cost 2000 Birr/m2 **B=Manpower Unit Cost** 65.90 Birr/m2

Total of (1:02)

Daily output:

Direct Cost of work item = A + B + C = **2094.0**

Overhead Cost : 8% 167.52

Profit Cost: 7% 158.31

Total : **2419.82**

Remark : _____

UF: UTILIZATION FACTOR **Total Unit Cost :** **2419.82**

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

10.5 Wooden cupboard

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: __**Carpentary** LABOUR DAILY
WORK ITEM : (b) ***Antique built in cupboard (best quality)*** EQUIPEMENT D
TOTAL QANTITY OF WORK ITEM: 1 m² RESULT

Material Cost (1:01)					Labor Cost (1:02)				
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	** *Indexed hourly wage*	*hourly wage*
Built in cupboard	m2	1	2500.00	2500.00	Foreman	1	0.25	23.75	5.94
					Carpenter I	1	1	8.50	8.50
					Carpenter I	1	1	16.75	16.75
					Helper	1	1	10.00	10.00
Total (1:-01)				2500.00	**Total (1:02)**				41.19

A= Material unit cost 2500 Birr/m2 **B=Manpower Unit Cost** 65.90 Birr/m2

Total of (1:02)

Daily output:

Direct Cost of work item = A + B + C = **2594.0**

Overhead Cost : 8% 207.52

Profit Cost: 7% 196.11

Total : **2997.62**

Remark : _____

UF: UTILIZATION FACTOR **Total Unit Cost :** **2997.62**

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

_____Data collected by_____Prepared checked by _____Approved by

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

10.6 Kitchen cabinet

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: __**Carpentary** LABOUR DAILY

WORK ITEM : (a) ***PVC made Kitchen cabinet (upper),(best quality)*** EQUIPEMENT D

TOTAL QANTITY OF WORK ITEM: 1 m² RESULT

Material Cost (1:01)					Labor Cost (1:02)				
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	** *Indexed hourly wage*	*hourly wage*
Built in cupboard	m2	1	2000.00	2000.00	Foreman	1	0.25	23.75	5.94
					Carpenter I	1	1	8.50	8.50
					Carpenter I	1	1	16.75	16.75
					Helper	1	1	10.00	10.00
Total (1:-01)				2000.00	**Total (1:02)**				41.19

A= Material unit cost 2000 Birr/m2 **B=Manpower Unit Cost** 65.90 Birr/m2

Total of (1:02)

Daily output:

Direct Cost of work item = A + B + C = **2094.0**

Overhead Cost : 8% 167.52

Profit Cost: 7% 158.31

Total : **2419.82**

Remark : _____

UF: UTILIZATION FACTOR **Total Unit Cost :** **2419.82**

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

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

10.6 Kitchen cabinet

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: __***Carpentary*** LABOUR DAILY

WORK ITEM : (b) ***PVC made Kitchen cabinet (lower),(best quality)*** EQUIPEMENT D

TOTAL QANTITY OF WORK ITEM: 1 m² RESULT

Material Cost (1:01)					Labor Cost (1:02)				
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	** *Indexed hourly wage*	*hourly wage*
Built in cupboard	m2	1	2000.00	2000.00	Foreman	1	0.25	23.75	5.94
					Carpenter I	1	1	8.50	8.50
					Carpenter I	1	1	16.75	16.75
					Helper	1	1	10.00	10.00
Total (1:-01)				2000.00	**Total (1:02)**				41.19

A= Material unit cost 2000 Birr/m2 **B=Manpower Unit Cost** 65.90 Birr/m2

Total of (1:02)

Daily output:

Direct Cost of work item = A + B + C = **2094.0**

Overhead Cost : 8% 167.52

Profit Cost: 7% 158.31

Total : **2419.82**

Remark : _____

UF: UTILIZATION FACTOR **Total Unit Cost :** **2419.82**

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

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

10.6 Kitchen cabinet

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: _ ***Carpentary*** LABOUR DAILY

WORK ITEM : (c) ***Laminated Kitchen cabinet (upper),(best quality)*** EQUIPEMENT D

TOTAL QANTITY OF WORK ITEM: 1 m² RESULT

Material Cost (1:01)					Labor Cost (1:02)				
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	** *Indexed hourly wage*	*hourly wage*
Built in cupboard	m2	1	2500.00	2500.00	Foreman	1	0.25	23.75	5.94
					Carpenter I	1	1	8.50	8.50
					Carpenter I	1	1	16.75	16.75
					Helper	1	1	10.00	10.00
Total (1:-01)				2500.00	**Total (1:02)**				41.19

A= Material unit cost 2500 Birr/m2 **B=Manpower Unit Cost** 65.9 Birr/m2

Total of (1:02)

Daily output:

Direct Cost of work item = A + B + C = **2594.0**

Overhead Cost : 8% 207.52

Profit Cost: 7% 196.11

Total : **2997.62**

Remark : _____

UF: UTILIZATION FACTOR **Total Unit Cost :** **2997.62**

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

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

10.6 Kitchen cabinet

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: __***Carpentary*** LABOUR DAILY

WORK ITEM : (d) ***Laminated Kitchen cabinet (lower),(best quality)*** EQUIPEMENT D

TOTAL QANTITY OF WORK ITEM: 1 m² RESULT

Material Cost (1:01)					Labor Cost (1:02)				
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	** *Indexed hourly wage*	*hourly wage*
Built in cupboard	m2	1	2500.00	2500.00	Foreman	1	0.25	23.75	5.94
					Carpenter I	1	1	8.50	8.50
					Carpenter I	1	1	16.75	16.75
					Helper	1	1	10.00	10.00
Total (1:-01)				2500.00	**Total (1:02)**				41.19

A= Material unit cost 2500 Birr/m2 **B=Manpower Unit Cost** 65.9 Birr/m2

Total of (1:02)

Daily output:

Direct Cost of work item = A + B + C = **2594.0**

Overhead Cost : 8% 207.52

Profit Cost: 7% 196.11

Total : **2997.62**

Remark : _____

UF: UTILIZATION FACTOR **Total Unit Cost :** **2997.62**

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

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

10.6 Kitchen cabinet

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: _ ***Carpentary*** LABOUR DAILY

WORK ITEM : (e) ***Solid wood Kitchen cabinet (upper),(best quality)*** EQUIPEMENT D

TOTAL QANTITY OF WORK ITEM: 1 m² RESULT

Material Cost (1:01)					**Labor Cost (1:02)**				
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	** *Indexed hourly wage*	*hourly wage*
Built in cupboard	m2	1	3000.00	3000.00	Foreman	1	0.25	23.75	5.94
					Carpenter I	1	1	8.50	8.50
					Carpenter I	1	1	16.75	16.75
					Helper	1	1	10.00	10.00
Total (1:-01)				3000.00	**Total (1:02)**				41.19

A= Material unit cost 3000 Birr/m2 **B=Manpower Unit Cost** 65.90 Birr/m2

Total of (1:02)

Daily output:

Direct Cost of work item = A + B + C = **3094.0**

Overhead Cost : 8% 247.52

Profit Cost: 7% 233.91

Total : **3575.42**

Remark : _____

UF: UTILIZATION FACTOR **Total Unit Cost :** **3575.42**

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

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

10.6 Kitchen cabinet

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: _ ***Carpentary*** LABOUR DAILY

WORK ITEM : (f) ***Solid wood Kitchen cabinet (lower),(best quality)*** EQUIPEMENT D

TOTAL QANTITY OF WORK ITEM: 1 m² RESULT

Material Cost (1:01)					**Labor Cost (1:02)**				
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	** *Indexed hourly wage*	*hourly wage*
Built in cupboard	m2	1	3000.00	3000.00	Foreman	1	0.25	23.75	5.94
					Carpenter I	1	1	8.50	8.50
					Carpenter I	1	1	16.75	16.75
					Helper	1	1	10.00	10.00
Total (1:-01)				3000.00	**Total (1:02)**				41.19

A= Material unit cost 3000 Birr/m2 **B=Manpower Unit Cost** 65.90 Birr/m2

Total of (1:02)

Daily output:

Direct Cost of work item = A + B + C = **3094.0**

Overhead Cost : 8% 247.52

Profit Cost: 7% 233.91

Total : **3575.42**

Remark : _____

UF: UTILIZATION FACTOR **Total Unit Cost :** **3575.42**

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

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

_____Data collected by_____Prepared checked by _____Approved by

0.625 m2 /hr

UT: 0.625 m2 /hr

320.7 Birr/m²

Equipment Cost (1:03)			
Type of Equipment	No.	hourly Rental	Daily Cost
tools	2	1.28	2.56
Total (1:03)			2.56

C=Equipment Unit Cos 4.10 Birr/m2

Total of (1:03)

Daily output:

Birr/m2

Birr/m2

Birr/m2

Birr/m2

Birr/m2

1.625 m2 /hr

UT: 1.625 m2 /hr

167.78 Birr/m²

Equipment Cost (1:03)			
Type of Equipment	No.	hourly Rental	Daily Cost
tools	2	1.28	2.56
Total (1:03)			2.56

C=Equipment Unit Cos 1.58 Birr/m2

Total of (1:03)

Daily output:

Birr/m2

Birr/m2

Birr/m2

Birr/m2

Birr/m2

0.75 m2 /hr

UT: 0.75 m2 /hr

260.66 Birr/m²

Equipment Cost (1:03)

Type of Equipment	No.	hourly Rental	Daily Cost
tools	2	1.28	2.56
Total (1:03)			2.56

C=Equipment Unit Cos 3.41 Birr/m2

Total of (1:03)

Daily output:

Birr/m2

Birr/m2

Birr/m2

Birr/m2

Birr/m2

1.875 m2 /hr

UT: 1.875 m2 /hr

431.9 Birr/m²

Equipment Cost (1:03)

Type of Equipment	No.	hourly Rental	Daily Cost
tools	2	1.28	2.56
Total (1:03)			2.56

C=Equipment Unit Cos 1.37 Birr/m2

Total of (1:03)

Daily output:

Birr/m2

Birr/m2

Birr/m2

Birr/m2

Birr/m2

0.5 m2 /hr

UT: 0.5 m2 /hr

674.00 Birr/m²

Equipment Cost (1:03)

Equipment	No.	Rental	hourly Cost
tools	2	1.28	2.56

Total (1:03)	2.56

C=Equipment Unit Cost 5.12 Birr/m2

Total of (1:03)

Daily output:

Birr/m2

Birr/m2

Birr/m2

Birr/m2

Birr/m2

1.25 m2 /hr

UT: 1.25 m2 /hr

297.35 Birr/m²

Equipment Cost (1:03)			
Type of Equipment	No.	hourly Rental	Daily Cost
tools	2	1.28	2.56
Total (1:03)			2.56

C=Equipment Unit Cost 2.05 Birr/m2

Total of (1:03)

Daily output:

Birr/m2

Birr/m2

Birr/m2

Birr/m2

Birr/m2

1.25 m2 /hr

UT: 1.25 m2 /hr

252.61 Birr/m²

Equipment Cost (1:03)			
Type of Equipment	No.	hourly Rental	Daily Cost
tools	2	1.28	2.56
Total (1:03)			2.56

C=Equipment Unit Cost 2.05 Birr/m2

Total of (1:03)

Daily output:

Birr/m2

Birr/m2

Birr/m2

Birr/m2

Birr/m2

1.25 m2 /hr
UT: 1.25 m2 /hr
202.51 Birr/m²

Equipment Cost (1:03)			
Type of Equipment	No.	hourly Rental	hourly Cost
tools	2	1.28	2.56
Total (1:03)			2.56

C=Equipment Unit Cos 2.05 Birr/m2
Total of (1:03)
Daily output:
Birr/m2
Birr/m2
Birr/m2
Birr/m2

Birr/m2

1.25 m2 /hr
UT: 1.25 m2 /hr
150.88 Birr/m²

Equipment Cost (1:03)			
Type of Equipment	No.	hourly Rental	hourly Cost
tools	2	1.28	2.56
Total (1:03)			2.56

C=Equipment Unit Cos 2.05 Birr/m2
Total of (1:03)
Daily output:
Birr/m2
Birr/m2
Birr/m2
Birr/m2

Birr/m2

1.625 m2 /hr
UT: 1.625 m2 /hr
152.43 Birr/m²

Equipment Cost (1:03)

Type of Equipment	No.	hourly Rental	hourly Cost
tools	2	1.28	2.56
Total (1:03)			2.56

C=Equipment Unit Cos 1.58 Birr/m2

Total of (1:03)

Daily output:

Birr/m2

Birr/m2

Birr/m2

Birr/m2

Birr/m2

1.625 m2 /hr

UT: 1.625 m2 /hr

157.52 Birr/m²

Equipment Cost (1:03)			
Type of Equipment	No.	hourly Rental	hourly Cost
tools	2	1.28	2.56
Total (1:03)			2.56

C=Equipment Unit Cos 1.58 Birr/m2

Total of (1:03)

Daily output:

Birr/m2

Birr/m2

Birr/m2

Birr/m2

Birr/m2

1.625 m2 /hr

UT: 1.625 m2 /hr

187.10 Birr/m²

Equipment Cost (1:03)			
Type of Equipment	No.	hourly Rental	hourly Cost
tools	2	1.28	2.56

Total (1:03)			*2.56*

C=Equipment Unit Cos *1.58 Birr/m2*

Total of (1:03)

Daily output:

Birr/m2

Birr/m2

Birr/m2

Birr/m2

Birr/m2

1.625 m2 /hr

UT: *1.625 m2 /hr*

251.81 *Birr/m²*

Equipment Cost (1:03)			
Type of Equipment	*No.*	*hourly Rental*	*hourly Cost*
tools	*2*	*1.28*	*2.56*
Total (1:03)			*2.56*

C=Equipment Unit Cos *1.58 Birr/m2*

Total of (1:03)

Daily output:

Birr/m2

Birr/m2

Birr/m2

Birr/m2

Birr/m2

9.375 m2 /hr

UT: *9.375 m2 /hr*

86.64 *Birr/m²*

Equipment Cost (1:03)			
Type of Equipment	*No.*	*hourly Rental*	*hourly Cost*
tools	*2*	*1.28*	*2.56*
Total (1:03)			*2.56*

C=Equipment Unit Cos *0.27 Birr/m2*

Total of (1:03)

Daily output:

Birr/m2
Birr/m2
Birr/m2
Birr/m2

Birr/m2

9.375 m2 /hr
UT: 9.375 m2 /hr
103.97 *Birr/m²*

Equipment Cost (1:03)			
Type of Equipment	*No.*	*hourly Rental*	*hourly Cost*
tools	*2*	*1.28*	*2.56*
Total (1:03)			*2.56*

C=Equipment Unit Cos *0.27 Birr/m2*
Total of (1:03)
Daily output:
Birr/m2
Birr/m2
Birr/m2
Birr/m2

Birr/m2

9.375 m2 /hr
UT: 9.375 m2 /hr
1162.46 *Birr/m²*

Equipment Cost (1:03)			
Type of Equipment	*No.*	*hourly Rental*	*hourly Cost*
tools	*2*	*1.00*	*2.00*
Total (1:03)			*2.00*

C=Equipment Unit Cos *0.21 Birr/m2*
Total of (1:03)
Daily output:
Birr/m2
Birr/m2
Birr/m2
Birr/m2

Birr/m2

' OUTPUT: 10 ml /hr
)AILY OUT PUT: 10 ml./hr
26.4 Birr/m²

Equipment Cost (1:03)			
Type of Equipment	No.	hourly Rental	hourly Cost
Tools	2	1.28	2.56
Total (1:03)			2.56

C=Equipment Unit Cos 0.26 Birr/ml
Total of (1:03)
Daily output:
Birr/ml
"
"
"
"
Birr/ml

' OUTPUT: 7.5 ml /hr
)AILY OUT PUT: 7.5 ml./hr
32.2 Birr/m²

Equipment Cost (1:03)			
Type of Equipment	No.	hourly Rental	hourly Cost
Tools	2	1.28	2.56
Total (1:03)			2.56

C=Equipment Unit Cos 0.34 Birr/ml
Total of (1:03)
Daily output:
Birr/ml
"
"
"
"
Birr/ml

' OUTPUT: 9.38 ml /hr
)AILY OUT PUT: 9.38 ml./hr
18.0 Birr/m²

Equipment Cost (1:03)			
Type of Equipment	No.	hourly Rental	hourly Cost
Tools	2	1.28	2.56
Total (1:03)			2.56

C=Equipment Unit Cos 0.27 Birr/ml

Total of (1:03)

Daily output:

Birr/ml

"

"

"

"

Birr/ml

9.38 ml /hr

UT: 9.38 ml./hr

41.82 Birr/m²

Equipment Cost (1:03)			
Type of Equipment	No.	hourly Rental	hourly Cost
Tools	2	1.28	2.56
Total (1:03)			2.56

C=Equipment Unit Cos 0.27 Birr/ml

Total of (1:03)

Daily output:

Birr/ml

"

"

"

"

Birr/ml

9.38 ml /hr

UT: 9.38 ml./hr

55.69 Birr/m²

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

Tools	*2*	*1.28*	*2.56*
Total (1:03)			*2.56*

C=Equipment Unit Cos *0.27 Birr/ml*

Total of (1:03)

Daily output:

Birr/ml

"

"

"

"

Birr/ml

1.50 ml /hr

UT: *1.50 ml./hr*

92.04 *Birr/m²*

Equipment Cost (1:03)			
Type of Equipment	*No.*	*hourly Rental*	*hourly Cost*
Tools	*2*	*1.28*	*2.56*
Total (1:03)			*2.56*

C=Equipment Unit Cos *1.71 Birr/ml*

Total of (1:03)

Daily output:

Birr/ml

"

"

"

"

Birr/ml

' OUTPUT: 1.3 m2./hr
)AILY OUT PUT: 1.3 m2./hr
3229.0 Birr/m²

ɔment Cost (1:03)

Type of Equipment	*No.*	*hourly Rental*	*hourly Cost*
tools	2		1.28
Driller	1		15.00

_____Data collected by_____Prepared checked by _____Approved by

Total (1:03)			**16.28**

C=Equipment Unit C 12.52 Birr/m2
Total of (1:03)
Daily output:
Birr/m2
"
"
"

Birr/m2

5

' OUTPUT: 1.3 m2./hr
)AILY OUT PUT: 1.3 m2./hr
3230.12 Birr/m²

ɒment Cost (1:03)			
Type of Equipment	*No.*	*hourly Rental*	*hourly Cost*
tools	2	1.28	2.56
Driller	1	15.00	15.00
Total (1:03)			**17.56**

C=Equipment Unit C 13.51 Birr/m2
Total of (1:03)
Daily output:
Birr/m2
"
"
"

Birr/m2

' OUTPUT: 1.3 m2./hr
)AILY OUT PUT: 1.3 m2./hr
4039.04 Birr/m²

ɒment Cost (1:03)			
Type of Equipment	*No.*	*hourly Rental*	*hourly Cost*
tools	2	1.28	2.56
Driller	1	15.00	15.00
Total (1:03)			**17.56**

C=Equipment Unit C 13.51 Birr/m2

Total of (1:03)

Daily output:

Birr/m2

"

"

"

Birr/m2

' OUTPUT: 1.3 m2./hr

)AILY OUT PUT: 1.3 m2./hr

4601.23 Birr/m²

ɒment Cost (1:03)

Type of Equipment	*No.*	*hourly Rental*	*hourly Cost*
tools	2	1.28	2.56
Driller	1	15.00	15.00
Total (1:03)			17.56

C=Equipment Unit C 0.00 Birr/m2

Total of (1:03)

Daily output:

Birr/m2

"

"

"

Birr/m2

' OUTPUT: 1.3 m2./hr

)AILY OUT PUT: 1.3 m2./hr

6653.36 Birr/m²

ɒment Cost (1:03)

Type of Equipment	*No.*	*hourly Rental*	*hourly Cost*
tools	2	1.28	2.56
Driller	1	15.00	15.00
Total (1:03)			17.56

C=Equipment Unit C 13.51 Birr/m2

Total of (1:03)
Daily output:
Birr/m2
"
"
"

Birr/m2

' OUTPUT: 0.5 m2./hr
)AILY OUT PUT: 0.5 m2./hr
622.19 Birr/m²

ɒment Cost (1:03)			
Type of Equipment	*No.*	*hourly Rental*	*hourly Cost*
tools	2	1.28	2.56
Total (1:03)			2.56

C=Equipment Unit C 35.12 Birr/m2
Total of (1:03)
Daily output:
Birr/m2
"
"
"

Birr/m2

' OUTPUT: 0.5 m2./hr
)AILY OUT PUT: 0.5 m2./hr
863.71 Birr/m²

ɒment Cost (1:03)			
Type of Equipment	*No.*	*hourly Rental*	*hourly Cost*
tools	2	1.28	2.56
Total (1:03)			2.56

C=Equipment Unit C 35.12 Birr/m2
Total of (1:03)
Daily output:

Birr/m2
"
"
"

Birr/m2

' OUTPUT: 0.5 m2./hr
)AILY OUT PUT: 0.5 m2./hr
281.29 Birr/m²

ɒment Cost (1:03)			
Type of Equipment	*No.*	*hourly Rental*	*hourly Cost*
tools	2	1.28	2.56
Total (1:03)			2.56

C=Equipment Unit C 5.12 Birr/m2
Total of (1:03)
Daily output:
Birr/m2
"
"
"

Birr/m2

' OUTPUT: 0.375 m2./hr
)AILY OUT PUT: 0.375 m2./hr
590.07 Birr/m²

ɒment Cost (1:03)			
Type of Equipment	*No.*	*hourly Rental*	*hourly Cost*
tools	2	1.28	2.56
Total (1:03)			2.56

C=Equipment Unit C 6.83 Birr/m2
Total of (1:03)
Daily output:
Birr/m2
"

"
"

Birr/m2

' OUTPUT: 0.375 m2./hr
)AILY OUT PUT: 0.375 m2./hr
963.53 Birr/m²

ɒment Cost (1:03)			
Type of Equipment	*No.*	*hourly Rental*	*hourly Cost*
tools	2	1.28	2.56
Total (1:03)			2.56

C=Equipment Unit C 0.00 Birr/m2
Total of (1:03)
Daily output:
Birr/m2
"
"
"

Birr/m2

' OUTPUT: 0.375 m2./hr
)AILY OUT PUT: 0.375 m2./hr
965.64 Birr/m²

ɒment Cost (1:03)			
Type of Equipment	*No.*	*hourly Rental*	*hourly Cost*
tools	2	1.28	2.56
Total (1:03)			2.56

C=Equipment Unit C 6.83 Birr/m2
Total of (1:03)
Daily output:
Birr/m2
"
"

"

Birr/m2

' OUTPUT: 0.375 m2./hr
)AILY OUT PUT: 0.375 m2./hr
538.07 Birr/m²

ɒment Cost (1:03)			
Type of Equipment	*No.*	*hourly Rental*	*hourly Cost*
tools	2	1.28	2.56
Total (1:03)			2.56

C=Equipment Unit C 6.83 Birr/m2
Total of (1:03)
Daily output:
Birr/m2
"
"
"

Birr/m2

' OUTPUT: 0.375 m2./hr
)AILY OUT PUT: 0.375 m2./hr
982.97 Birr/m²

ɒment Cost (1:03)			
Type of Equipment	*No.*	*hourly Rental*	*hourly Cost*
tools	2	1.28	2.56
Total (1:03)			2.56

C=Equipment Unit C 6.83 Birr/m2
Total of (1:03)
Daily output:
Birr/m2
"
"
"

Birr/m2

' OUTPUT: 0.5 m2./hr
)AILY OUT PUT: 0.5 m2./hr
305.55 Birr/m²

ɔment Cost (1:03)			
Type of Equipment	*No.*	*hourly Rental*	*hourly Cost*
tools	2	1.28	2.56
Total (1:03)			2.56

C=Equipment Unit C 5.12 Birr/m2
Total of (1:03)
Daily output:
Birr/m2
"
"
"

Birr/m2

' OUTPUT: 0.5 m2./hr
)AILY OUT PUT: 0.5 m2./hr
253.55 Birr/m²

ɔment Cost (1:03)			
Type of Equipment	*No.*	*hourly Rental*	*hourly Cost*
tools	2	1.28	2.56
Total (1:03)			2.56

C=Equipment Unit C 5.12 Birr/m2
Total of (1:03)
Daily output:
Birr/m2
"
"
"

Birr/m2

' OUTPUT: 0.5 m2./hr
)AILY OUT PUT: 0.5 m2./hr
577.12 Birr/m²

ɒment Cost (1:03)			
Type of Equipment	*No.*	*hourly Rental*	*hourly Cost*
tools	2	1.28	2.56
Total (1:03)			2.56

C=Equipment Unit C 5.12 Birr/m2
Total of (1:03)
Daily output:
Birr/m2
"
"
"

Birr/m2

' OUTPUT: 0.5 m2./hr
)AILY OUT PUT: 0.5 m2./hr
363.91 Birr/m²

ɒment Cost (1:03)			
Type of Equipment	*No.*	*hourly Rental*	*hourly Cost*
tools	2	1.28	2.56
Total (1:03)			2.56

C=Equipment Unit C 5.12 Birr/m2
Total of (1:03)
Daily output:
Birr/m2
"
"
"

Birr/m2

' OUTPUT: 0.625 m2./hr
)AILY OUT PUT: 0.625 m2./hr
2419.82 Birr/m²

ɔment Cost (1:03)			
Type of Equipment	*No.*	*hourly Rental*	*hourly Cost*
tools	2	1.28	2.56
Driller	1	15.00	15.00
Total (1:03)			17.56

C=Equipment Unit C 28.10 Birr/m2
Total of (1:03)
Daily output:
Birr/m2
"
"
"

Birr/m2

' OUTPUT: 0.625 m2./hr
)AILY OUT PUT: 0.625 m2./hr
2997.62 Birr/m²

Equipment Cost (1:03)			
Type of Equipment	*No.*	*hourly Rental*	*hourly Cost*
tools	2	1.28	2.56
Driller	1	15.00	15.00
Total (1:03)			17.56

C=Equipment Unit C 28.10 Birr/m2
Total of (1:03)
Daily output:
Birr/m2
"
"
"

Birr/m2

' OUTPUT: 0.625 m2./hr
)AILY OUT PUT: 0.625 m2./hr
2419.82 Birr/m²

ɔment Cost (1:03)			
Type of Equipment	*No.*	*hourly Rental*	*hourly Cost*
tools	2	1.28	2.56
Driller	1	15.00	15.00
Total (1:03)			17.56

C=Equipment Unit C 28.10 Birr/m2
Total of (1:03)
Daily output:
Birr/m2
"
"
"

Birr/m2

' OUTPUT: 0.625 m2./hr
)AILY OUT PUT: 0.625 m2./hr
2419.82 Birr/m²

Equipment Cost (1:03)			
Type of Equipment	*No.*	*hourly Rental*	*hourly Cost*
tools	2	1.28	2.56
Driller	1	15.00	15.00
Total (1:03)			17.56

C=Equipment Unit C 28.10 Birr/m2
Total of (1:03)
Daily output:
Birr/m2
"
"
"

Birr/m2

' OUTPUT: 0.625 m2./hr
)AILY OUT PUT: 0.625 m2./hr
2997.62 Birr/m²

Equipment Cost (1:03)			
Type of Equipment	*No.*	*hourly Rental*	*hourly Cost*
tools	2	1.28	2.56
Driller	1	15.00	15.00
Total (1:03)			17.56

C=Equipment Unit C 28.10 Birr/m2
Total of (1:03)
Daily output:
Birr/m2
"
"
"

Birr/m2

' OUTPUT: 0.625 m2./hr
)AILY OUT PUT: 0.625 m2./hr
2997.62 Birr/m²

)ment Cost (1:03)			
Type of Equipment	*No.*	*hourly Rental*	*hourly Cost*
tools	2	1.28	2.56
Driller	1	15.00	15.00
Total (1:03)			17.56

C=Equipment Unit C 28.10 Birr/m2
Total of (1:03)
Daily output:
Birr/m2
"
"
"

Birr/m2

' OUTPUT: 0.625 m2./hr
)AILY OUT PUT: 0.625 m2./hr
3575.42 Birr/m²

ɔment Cost (1:03)			
Type of Equipment	*No.*	*hourly Rental*	*hourly Cost*
tools	2	1.28	2.56
Driller	1	15.00	15.00
Total (1:03)			17.56

C=Equipment Unit C 28.10 Birr/m2
Total of (1:03)
Daily output:
Birr/m2
"
"
"

Birr/m2

' OUTPUT: 0.625
)AILY OUT PUT: 0.625 pc/hr
3575.42 Birr/m²

ɔment Cost (1:03)			
Type of Equipment	*No.*	*hourly Rental*	*hourly Cost*
tools	2	1.28	2.56
Driller	1	15.00	15.00
Total (1:03)			17.56

C=Equipment Unit 28.10 Br./pc
Total of (1:03)
Daily output:
Birr/m2
"
"
"

Birr/m2

H.C.B elev. Wall

ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT: **WALLING**

LABOUR HOURLY OUTPUT:

WORK ITEM:(a) ***10 cm. thick class-A H.C.B elev. Wall Both Sides Left For Plastering.***

EQUIPEMENT:

TOTAL QANTITY OF WORK ITEM: 1 m^2

RESULT: **588** Birr/m^2

Material Cost (1:01)					Labour (1:02)					Equipmer	
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labour by Grade	No.	UF	** Indexed Hourly Cost	Hourly Cost	Type of Equipment	No.
10 cm. Thick HCB	Pcs.	13.7	27.83	381.22	Foreman	1	0.25	85.10	21.27	Tools	4
Cement	Qt.	0.08	1250.00	100.00	Mason	1	1	75.00	75		
Sand	m^3	0.02	1806.45	36.13	D/L	3	1	31.25	93.75		
Water	m^3	0.01	35.00	0.35							
Total (1:-01)				517.70	**Total (1:02)**				190.02	**Total (1:03**	

A= Materials Unit Cost **518** Birr/m^2

B= Manpower Unit Cost **64.69** 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 = **588.06** Birr/m^2

Over head cost : 0% 0.00 "

Profit Cost: 0% 0.00 "

Total Unit Cost : **588.06** 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: **WALLING**

LABOUR HOURLY OUTPUT:

_____ Data collected by _____Prepared Checked by _____Approved by

WORK ITEM: (g) ***15 cm. thick class-A H.C.B elev. Wall Both Sides Left For Plastering.***
TOTAL QANTITY OF WORK ITEM: 1 m^2

EQUIPEMENT:
RESULT: **605** Birr/m^2

Material Cost (1:01)					Labour (1:02)					Equipmer	
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labour by Grade	No.	UF	** Indexed Hourly Cost	Hourly Cost	Type of Equipment	No.
15 cm. Thick HCB	Pcs.	13.7	28.70	393.14	Foreman	1	0.25	85.10	21.27	Tools	4
Cement	Qt.	0.08	1250.00	100.00	Mason	1	1	75.00	75		
Sand	m^3	0.02	1806.45	36.13	D/L	3	1	31.25	93.75		
Water	m^3	0.01	35.00	0.35							
Total (1:-01)				529.61	**Total (1:02)**				190.02	**Total (1:03**	

A= Materials Unit Cost **529.6** Birr/m^2

B= Manpower Unit Cost **69.10** 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 = **604.78** Birr/m^2
Over head cost : 0% 0.00 "
Profit Cost: 0% 0.00 "
Total Unit Cost : **604.78** 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: **WALLING**
WORK ITEM: (m) ***20 cm. thick class-A H.C.B elev. Wall Both Sides Left For Plastering.***
TOTAL QANTITY OF WORK ITEM: 1 m^2

LABOUR HOURLY OUTPUT:
EQUIPEMENT:
RESULT: **1178** Birr/m^2

Material Cost (1:01)	Labour (1:02)	Equipmer

_____ Data collected by _____ Prepared Checked by _____ Approved by

Type of Material	Unit	Qty *	Rate	Cost per Unit	Labour by Grade	No.	UF	** Indexed Hourly Cost	Hourly Cost	Type of Equipment	No.
20 cm. Thick HCB	Pcs.	13.7	50.00	685.00	Foreman	1	0.25	85.10	21.27	Tools	4
Cement	Qt.	0.08	1150.00	92.00	Mason	1	1	75.00	75		
Sand	m^3	0.02	4375.00	87.50	D/L	3	1	31.25	93.75		
Water	m^3	0.01	35.00	0.35							
Total (1:-01)				864.85	**Total (1:02)**				190.02	**Total (1:03**	

A= Materials Unit Cost **864.9** Birr/m^2

B= Manpower Unit Cost **200.00** 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 = **1071.36** Birr/m^2

Over head cost : 0% 107.14 "

Profit Cost: 0% 0.00 "

Total Unit Cost : **1178.50** 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.

_____ Data collected by _____Prepared Checked by _____Approved by

2.94 m²/hr.

ıt Cost (1:03)	
Hourly Rental	Hourly Cost
4.17	16.68
3)	16.68

5.68 Birr/m²

70.37

2.75 m²/hr.

_____ Data collected by _____Prepared Checked by _____Approved by

ıt Cost (1:03)	
Hourly Rental	Hourly Cost
4.17	16.68
3)	16.68

6.07 Birr/m^2

75.17

2.5625 m^2/hr.

ıt Cost (1:03)

_____ Data collected by _____Prepared Checked by _____Approved by

Hourly Rental	Hourly Cost
4.17	16.68
3)	16.68

6.51 Birr/m²

206.51

_____ Data collected by _____Prepared Checked by _____Approved by

ANALYSIS SHEET FOR DIRECT COST

PROJECT: **Almunium Works**

LABOUR DAILY OUTPUT:

WORK ITEM :(10.1) Supply and Fix Aluminum framed doors and windows complete with 1.6mm thick

EQUIPEMENT DAILY OUT PUT:

TOTAL QANTITY OF WORK ITEM: window /door 1 for sliding 1 pc

RESULT **32496.0**

Material Cost (1:01)					**Labor Cost (1:02)**					**Equipment Cost (1**
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	** Indexed Hourly Cost	Hourly Cost	Type of Equipment
L - Section	ml	6.98	610.83	4263.62	Forman	1	0.25	85.10	21.27	Grinder
T - Section	ml	1.50	719.33	1079.00	Carpenter II	1	1	81.25	81.25	Tools
slide frame (L)	ml	8.00	762.50	6100.00	Chiseler	1	1	50.00	50.00	
slide cup (T)	ml	9.48	183.14	1736.18	Helper	1	1	50.00	50.00	
slide shatter (z)	ml	17.48	475.15	8304.61						
oval feram	ml	16.50	137.78	2273.40						
90 ferma	ml	10.96	144.02	1577.86						
L angle connector	pc	11.00	66.00	726.00						
slidng connector	pc	6.00	66.00	396.00						
T connector	pc	8.00	50.00	400.00						
arm	pc	3.00	50.00	150.00						
sliding handle	m	3.00	11.00	33.00						
sliding roller	pc	6.00	11.00	66.00						
sliding brush	pc	6.00	11.00	66.00						
6 mm glass rubber	ml	27.46	20.00	549.12						
screw(4.8*60)	pc	10.00	5.50	55.00						
fisher 6	pc	10.00	5.83	58.33						
Total (1:-01)				27834.13	**Total (1:02)**				202.52	**Total (1:03)**

A= Material unit cost= **27834.13** Birr/Pc

B=Manpower Unit Cost **4050.48** Birr/pc

Total of (1:02)

Daily output:

C=Equipment Uni

Total of (1:03

Daily output:

Direct Cost of work item = A + B + C = **32495.99** Birr/pc

Overhead Cost : 0% 0.00 Birr/pc

Profit Cost: 0% 0.00 Birr/pc

Total : **32495.99** Birr/pc

Remark : _____

UF: UTILIZATION FACTOR

Total Unit Cost : **32495.99** Birr/pc

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

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

PROJECT: **Metal Works**

WORK ITEM :(10.1) Supply and Fix Aluminum framed doors and windows complete with 1.6mm thick window /door sliding

TOTAL QANTITY OF WORK ITEM: 1 pc

LABOUR DAILY OUTPUT:

EQUIPEMENT DAILY OUT PUT:

RESULT **#REF!**

Material Cost (1:01)					**Labor Cost (1:02)**					**Equipment Cost (1**
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	** Indexed Hourly Cost	Hourly Cost	Type of Equipment
L - Section	ml	5.70	610.83	3481.75	Forman	1	0.25	85.10	21.27	Grinder
z - Section	ml	3.04	762.50	2318.00	Carpenter II	1	1	81.25	81.25	Tools
T -section	ml	0.85	719.33		Chiseler	2	1	50.00	100.00	
slide frame (L)	ml	5.44	545.45	2967.27	Helper	2	1	31.25	62.50	
slide cup (T)	ml	2.05	183.14	375.44						
slide shatter (z)	ml	10.88	475.15	5169.60						
oval feram	ml	16.50	11.60	191.40						
90 ferma	ml	10.96	5.36	58.72						
L angle connector	pc	16.00		0.00						
slidng connector	pc	8.00		0.00						
T connector	pc	4.00		0.00						
arm	pc	2.00		0.00						
sliding handle	pc	2.00		0.00						
sliding roller	pc	6.00		0.00						
sliding brusdh	pc	6.00		0.00						
6 mm glass rubber	pc	27.46		0.00						
screw(4.8*60)	pc	10.00	0.00	0.00						
fisher 6	pc	10.00	10.00	100.00						
hinge	pc	2.00								
crketo	pc	2.00								
Total (1:-01)				14662.18	**Total (1:02)**				265.02	**Total (1:03)**

A= Material unit cost= 14662.18 Birr/Pc

B=Manpower Unit Cost 5300.48 Birr/pc

Total of (1:02)

Daily output:

C=Equipment Uni

Total of (1:03

Daily output:

Direct Cost of work item = A + B + C = **#REF!** Birr/pc

Overhead Cost : 8% #REF! Birr/pc

Profit Cost: 7% #REF! Birr/pc

Total : **#REF!** Birr/pc

Remark : _____

Total Unit Cost : **#REF!** Birr/pc

UF: UTILIZATION FACTOR

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

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

PROJECT: **Metal Works**

WORK ITEM :(10.1) ***profile***

LABOUR DAILY OUTPUT:

EQUIPEMENT DAILY OUT PUT:

TOTAL QANTITY OF WORK ITEM: window /door sliding 1 pc

RESULT **#REF!**

Material Cost (1:01)					**Labor Cost (1:02)**					**Equipment Cost (1**
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	** Indexed Hourly Cost	Hourly Cost	Type of Equipment
L - Section	ml	6.98	0.00	0.00	Forman	1	0.25	-	0.00	Grinder
T - Section	ml	1.50	0.00	0.00	Carpenter II	1	1	-	0.00	Tools
oval feram	ml	16.50	0.00	0.00	Chiseler	2	1	-	0.00	
90 ferma	ml	10.96	0.00	0.00	Helper	2	1	-	0.00	
L angle connector	pc	11.00		0.00						
T connector	pc	8.00		0.00						
arm	pc	3.00		0.00						
6 mm glass rubber	pc	27.46		0.00						
screw(4.8*60)	pc	10.00	0.00	0.00						
fisher 6	pc	10.00	0.00	0.00						
hinge	pc									
crketo	pc									
z section	ml									
Total (1:-01)				0.00	**Total (1:02)**				0.00	**Total (1:03)**

A= Material unit cost= 0.00 Birr/Pc

B=Manpower Unit Cost 0.00 Birr/pc

C=Equipment Uni

Total of (1:02)

Total of (1:03

Daily output:

Daily output:

Direct Cost of work item = A + B + C = **#REF!** Birr/pc

Overhead Cost : 8% #REF! Birr/pc

Profit Cost: 7% #REF! Birr/pc

Total : **#REF!** Birr/pc

Remark : _____

Total Unit Cost : **#REF!** Birr/pc

UF: UTILIZATION FACTOR

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

0.10 pc/hr
0.05 pc/hr

Birr/pc

.:03)

No.	Hourly Rental	Hourly Cost
1	13.89	13.89
4	4.17	16.68
		30.57

t Cost **611.38** Birr/pc
)

5390.84 Birr/m2

0.05
0.05

Birr/pc

.:03)

No.	UF	Hourly Rental
1		0.00
4		0.00

t Cost #REF!

)

#REF! Birr/m2

0.05
0.05

Birr/pc

.:03)

No.	UF	Hourly Rental
1		0.00
4		0.00

t Cost #REF!

)

#REF! Birr/m2

ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT: **FINISHING WORKS.**

WORK ITEM: (11.4) ***Two coat of cement plaster to internal wall surfaces (1:3)***

TOTAL QANTITY OF WORK ITEM: 1 m^2

LABOUR HOURLY OUTPUT 1st coat:

EQUIPEMENT:

RESULT : **241.83**

Material Cost (1:01)					Labour Cost (1:02)					Equipment Cost (1	
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labour by Grade	No.	UF	** Indexed Hourly Cost	Hourly Cost	Type of Equipment	No.
Cement	Qtl	0.11	1250.00	137.50	Foreman	1	0.25	85.10	21.27	Tools	3
Sand	m3	0.03	1806.45	54.19	Plasterer	1	1	75.00	75.00		
water	m^3	0.01	35.00	0.35	D/L	1	1	31.25	31.25		
	Total (1:01)			192.04	**Total (1:02)**				127.52	**Total (1:03)**	

A= Materials Unit Cos **192.0435** Birr/m^2

B= Manpower Unit Cost **45.34** 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 = **241.83** Birr/m^2

Over head cost : _ 0% 0.00 "

Profit Cost: 0% 0.00 "

Total Unit Cost : _ **241.83** Birr/m^2

Remark _____

UF: UTILIZATION FACTOR

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ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT: **FINISHING WORKS.**

WORK ITEM: (11.9) ***Two coat of cement plaster to ceilingl surfaces (1:3)***

TOTAL QANTITY OF WORK ITEM: 1 m^2

LABOUR HOURLY OUTPUT 1st coat:

EQUIPEMENT:

RESULT : **387.09**

_____Data collected by _____Prepared checked by _____Approved by

Material Cost (1:01)					Labour Cost (1:02)					Equipment Cost (1	
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labour by Grade	No.	UF	** Indexed Hourly Cost	Hourly Cost	Type of Equipment	No.
Cement	Qtl	0.11	1250.00	137.50	Foreman	1	0.25	85.10	21.27	Tools	3
Sand	m3	0.03	1806.45	54.19	Plasterer	1	1	75.00	75.00		
water	m^3	0.01	35.00	0.35	D/L	1	1	37.50	37.50		
	Total (1:01)			192.04	**Total (1:02)**				133.77	**Total (1:03)**	

A= Materials Unit Cos **192.0435** Birr/m^2

B= Manpower Unit Cost **178.37** 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 = **387.09** Birr/m^2

Over head cost : _ 0% 0.00 "

Profit Cost: 0% 0.00 "

Total Unit Cost : _ **387.09** Birr/m^2

Remark _____

UF: UTILIZATION FACTOR

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ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT: **FINISHING WORKS.**

WORK ITEM: (11.9) ***Two coat of cement plaster to external wall surfaces (1:3)***

TOTAL QANTITY OF WORK ITEM: 1 m^2

LABOUR HOURLY OUTPUT 1st coat:

EQUIPEMENT:

RESULT : **378.76**

Material Cost (1:01)					Labour Cost (1:02)					Equipment Cost (1	
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labour by Grade	No.	UF	** Indexed Hourly Cost	Hourly Cost	Type of Equipment	No.
Cement	Qtl	0.11	1250.00	137.50	Foreman	1	0.25	85.10	21.27	Tools	3
Sand	m3	0.03	1806.45	54.19	Plasterer	1	1	75.00	75.00		
water	m^3	0.01	35.00	0.35	D/L	1	1	31.25	31.25		

_____Data collected by _____Prepared checked by _____Approved by

	Total (1:01)			192.04	**Total (1:02)**				127.52	**Total (1:03)**	

A= Materials Unit Cos **192.0435** Birr/m²

B= Manpower Unit Cost **170.03** Birr/m²

Total of (1:02)

Hourly Output: _____

C= Equipment Unit Cost

Total of (1:03)

Hourly output: _____

Direct Cost of Work Item = A+B+C = **378.76** Birr/m²

Over head cost : _ 0% 0.00 "

Profit Cost: 0% 0.00 "

Total Unit Cost : _ **378.76** Birr/m²

Remark _____

UF: UTILIZATION FACTOR

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ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT: **FINISHING WORKS.**

WORK ITEM: (11.9 ***Apply Gypsum finish to vertical surface***

TOTAL QANTITY OF WORK ITEM: 1 m²

LABOUR HOURLY OUTPUT 1st coat:

EQUIPEMENT:

RESULT : **85.72**

Material Cost (1:01)					Labour Cost (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	No.
Gypsum	m²	2.2	10.00	22	Foreman	1	0.25	85.10	21.27	Tools	3
water	m³	0.02	35.00	0.700	Plasterer	1	1	75.00	75.00		
					D/L	1	1	31.25	9.38		
	Total (1:01)			22.70							
					Total (1:02)				105.65	**Total (1:03)**	

A= Materials Unit C **22.70** Birr/m²

B= Manpower Unit Cost

Total of (1:02) **56.35** Birr/m²

Hourly Output: _____

C= Equipment Unit Cost

Total of (1:03)

Hourly output: _____

Direct Cost of Work Item = A+B+C = **85.72** Birr/m²

Over head cost : _ 0% 0.00 "

_____Data collected by _____Prepared checked by _____Approved by

Profit Cost: 0% 0.00 "

Remark _____ Total Unit Cost : _ **85.72** Birr/m²

UF: UTILIZATION FACTOR

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ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT: **FINISHING WORKS.**

WORK ITEM: (11.9 ***Apply Gypsum finish to plastered soffits***

TOTAL QANTITY OF WORK ITEM: 1 m²

LABOUR HOURLY OUTPUT 1st coat:

EQUIPEMENT:

RESULT : **117.23**

Material Cost (1:01)					Labour Cost (1:02)					Equipment Cost (1	
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labour by Grade	No.	UF	** Indexed Hourly Cost	Hourly Cost	Type of Equipment	No.
Gypsum	m²	2.2	10.00	22	Foreman	1	0.25	85.10	21.27	Tools	3
water	m³	0.02	35.00	0.700	Plasterer	1	1	75.00	75.00		
					D/L	1	1	31.25	9.38		
Total (1:01)				22.70	**Total (1:02)**				105.65	**Total (1:03)**	

A= Materials Unit C **22.70** Birr/m²

B= Manpower Unit Cost

Total of (1:02) **84.52** Birr/m²

Hourly Output: _____

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

C= Equipment Unit Cost

Total of (1:03)

Hourly output: _____

117.23 Birr/m²

Over head cost : _ 0% 0.00 "

Profit Cost: 0% 0.00 "

Remark _____ Total Unit Cost : _ **117.23** Birr/m²

UF: UTILIZATION FACTOR

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_____Data collected by _____Prepared checked by _____Approved by

ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT: **FINISHING WORKS.**
WORK ITEM: (11.28 **Granite 40x40cm Tile**
TOTAL QANTITY OF WORK ITEM 1 m²

LABOUR HOURLY OUTPUT:
EQUIPEMENT:
RESULT : **6252**

Material Cost (1:01)					Labour Cost (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	No.
Granite tile	m²	1.05	6555.00	6050.00	Foreman	1	0.2	85.10	17.02	Tools	3
Cement	qt	0.11	12.50	1.33	Tiller	1	1	75.00	75.00		
Sand	m³	0.03	1250.00	35.63	D/L	1	1	31.25	31.25		
water	m³	0.01	1000.00	10.00							
				6096.95	**Total (1:02)**				123.27	**Total (1:03)**	

A= Materials Unit C **6097** Birr/m²

B= Manpower Unit Cost **140.88** Birr/m²
Total of (1:02)
Hourly Output: _____

C= Equipment Unit Cost
Total of (1:03)
Hourly output: _____

Direct Cost of Work Item = A+B+C = **6252.13** Birr/m²
Over head cost : _ 0% 0.00 "
Profit Cost: 0% 0.00 "
Total Unit Cost : _ **6252.13** Birr/m²

Remark _____

UF: UTILIZATION FACTOR
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ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT: **FINISHING WORKS.**
WORK ITEM: (11.31) **30x30cm ceramic floor tile for toilet and for kitchen room(10mm thick)**
TOTAL QANTITY OF WORK ITEM 1 m²

LABOUR HOURLY OUTPUT:
EQUIPEMENT:
RESULT : **1208**

Material Cost (1:01)					Labour Cost (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	No.

_____Data collected by _____Prepared checked by _____Approved by

Ceramic tile	m²	1.05	570.00	598.50	Foreman	1	0.2	85.10	17.02	Tools	4
Cement	qt	0.11	1250.00	132.50	Tiller	1	1	75.00	75.00		
Sand	m³	0.03	1806.45	51.48	D/L	2	1	31.25	62.50		
adhesive I	kg	0.46	500	230.00							
water	m³	0.01	35.00	0.35							
Total (1:01)				1012.83	**Total (1:02)**				154.52	**Total (1:03)**	

176.59 Birr/m²

A= Materials Unit Cost **1013** Birr/m²

B= Manpower Unit Cost
Total of (1:02)
Hourly Output: _____

C= Equipment Unit Cost
Total of (1:03)
Hourly output: _____
1208.49 Birr/m²

Direct Cost of Work Item = Over head cost : _ 0% 0.00 "
Profit Cost: 0% 0.00 "
Total Unit Cost : _ **1208.49** Birr/m²

Remark _____

UF: UTILIZATION FACTOR

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ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT: **FINISHING WORKS.**

WORK ITEM: (11.32) **HDF wooden parquet of 10mm thick**

TOTAL QANTITY OF WORK ITEM 1 m²

LABOUR HOURLY OUTPUT:

EQUIPEMENT:

RESULT : **3348**

Material Cost (1:01)					Labour Cost (1:02)					Equipment Cost (1	
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labour by Grade	No.	UF	** Indexed Hourly Cost	Hourly Cost	Type of Equipment	No.
Parquet	m²	1.05	2950.00	3097.50	Foreman	1	0.25	85.10	21.27	Tools	4
Adhesive II	lt	0.10	500.00	50.00	Carpenter I	1	1	75.00	75.00		
					D/L	2	1	31.25	62.50		

_____Data collected by _____Prepared checked by _____Approved by

Total (1:01)	3147.50	Total (1:02)	158.77	Total (1:03)

181.46 Birr/m²

A= Materials Unit Cost **3148** Birr/m²

B= Manpower Unit Cost
Total of (1:02)
Hourly Output: _____

C= Equipment Unit Cost
Total of (1:03)
Hourly output: _____
3348.02 Birr/m²

Direct Cost of Work Item = Over head cost : _ 0% 0.00 "
Profit Cost: 0% 0.00 "
Total Unit Cost : _ **3348.02** Birr/m²

Remark _____

UF: UTILIZATION FACTOR

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ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

LABOUR HOURLY OUTPUT:
EQUIPEMENT:
RESULT : **707**

PROJECT: **FINISHING WORKS.**
WORK ITEM: (11.33) **2mm PVC Tile flooring**
TOTAL QANTITY OF WORK ITEM 1 m²

Material Cost (1:01)					Labour Cost (1:02)					Equipment Cost (1	
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labour by Grade	No.	UF	** Indexed Hourly Cost	Hourly Cost	Type of Equipment	No.
PVC tile	m²	1.02	440.00	448.80	Foreman	1	0.25	85.10	21.27	Tools	4
Glue	kg	0.100	1700.00	170.00	Tiler i	1	1	75.00	75.00		
					D/L	2	1	31.25	62.50		
									0		
									0		
									0		
									0		
Total (1:01)				618.80	Total (1:02)				158.77	Total (1:03)	

79.39 Birr/m²

A= Materials Unit Cost **619** Birr/m²

B= Manpower Unit Cost
Total of (1:02)
Hourly Output: _____

C= Equipment Unit Cost
Total of (1:03)
Hourly output: _____
706.53 Birr/m²

Direct Cost of Work Item = Over head cost : _ 0% 0.00 "

_____Data collected by _____Prepared checked by _____Approved by

Profit Cost:	0%	0.00	"
Total Unit Cost : _		**706.53**	Birr/m²

Remark _____

UF: UTILIZATION FACTOR

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ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT: **FINISHING WORKS.**

WORK ITEM: (11.29) | **40x40cm porceiline**

TOTAL QANTITY OF WORK ITEM 1 m²

LABOUR HOURLY OUTPUT:

EQUIPEMENT:

RESULT : **2520.6**

Material Cost (1:01)					Labour Cost (1:02)					Equipment Cost (1	
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labour by Grade	No.	UF	** Indexed Hourly Cost	Hourly Cost	Type of Equipment	No.
Porcelain	m²	1.05	1820.00	1911.00	Foreman	1	0.2	85.10	17.02	Tools	4
Cement	qt	0.11	1250.00	132.50	Tiler	1	1	75.00	75.00		
Sand	m³	0.03	1806.45	51.48	D/L	2	1	31.25	62.50		
adhesivel	kg	0.46	500.00	230.00							
Total (1:01)				2324.98	**Total (1:02)**				154.52	**Total (1:03)**	

176.59 Birr/m²

A= Materials Unit Cost **2325** Birr/m²

B= Manpower Unit Cost

Total of (1:02)

Hourly Output: _____

C= Equipment Unit Cost

Total of (1:03)

Hourly output: _____

2520.64 Birr/m²

Direct Cost of Work Item = Over head cost : _	0%	0.00	"
Profit Cost:	0%	0.00	"
Total Unit Cost : _		**2520.64**	Birr/m²

Remark _____

UF: UTILIZATION FACTOR

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_____Data collected by _____Prepared checked by _____Approved by

ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

LABOUR HOURLY OUTPUT:

PROJECT: **FINISHING WORKS.**

EQUIPEMENT:

WORK ITEM: (11.29) ***60x60cm porcfeline for main corridor and varandah***

RESULT : **2709.6**

TOTAL QANTITY OF WORK ITEM 1 m^2

Material Cost (1:01)					Labour Cost (1:02)					Equipment Cost (1	
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labour by Grade	No.	UF	** Indexed Hourly Cost	Hourly Cost	Type of Equipment	No.
Porcelain	m^2	1.05	2000.00	2100.00	Foreman	1	0.2	85.10	17.02	Tools	4
Cement	qt	0.11	1250.00	132.50	Tiler	1	1	75.00	75.00		
Sand	m^3	0.03	1806.45	51.48	D/L	2	1	31.25	62.50		
adhesive	kg	0.46	500.00	230.00							
Total (1:01)				2513.98	**Total (1:02)**				154.52	**Total (1:03)**	

176.59 Birr/m^2

A= Materials Unit Cost **2514** Birr/m^2

B= Manpower Unit Cost

Total of (1:02)

Hourly Output: _____

Direct Cost of Work Item = Over head cost : _ 0% 0.00 "

Profit Cost: 0% 0.00 "

Total Unit Cost : _ **2709.64** Birr/m^2

C= Equipment Unit Cost

Total of (1:03)

Hourly output: _____

2709.64 Birr/m^2

Remark _____

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ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

LABOUR HOURLY OUTPUT:

PROJECT: **FINISHING WORKS.**

EQUIPEMENT:

WORK ITEM: (11.35) ***8 cm high PVC skirting***

RESULT : **272.91**

TOTAL QANTITY OF WORK ITEM 1 ml

Material Cost (1:01)	Labour Cost (1:02)	Equipment Cost (1

_____Data collected by _____Prepared checked by _____Approved by

Type of Material	Unit	Qty *	Rate	Cost per Unit	Labour by Grade	No.	UF	** Indexed Hourly Cost	Hourly Cost	Type of Equipment	No.
PVC skirting	ml	1.05	60.00	63.00	Foreman	1	0.25	85.10	21.27	Tools	2
Glue	lt	0.11	1700.00	180.20	Tiler	1	1	75.00	75.00		
					D/L	2	1	31.25	62.50		
Total (1:01)				243.20	**Total (1:02)**				158.77	**Total (1:03)**	

A= Materials Unit Cost **243.2** Birr/ml

B= Manpower Unit Cost **28.23** Birr/ml

Total of (1:02)

Hourly Output: _____

Direct Cost of Work Item = Over head cost : _ 0% 0.00 "

Profit Cost: 0% 0.00 "

Total Unit Cost : _ **272.91** Birr/m

C= Equipment Unit Cost

Total of (1:03)

Hourly output: _____ **272.91** Birr/ml

Remark _____

UF: UTILIZATION FACTOR

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ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT: **FINISHING WORKS.**

WORK ITEM: (11.39) ***10 cm high wooden tile skirting***

TOTAL QANTITY OF WORK ITEM 1 ml

LABOUR HOURLY OUTPUT:

EQUIPEMENT:

RESULT : **264.27**

Material Cost (1:01)					Labour Cost (1:02)					Equipment Cost (1	
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labour by Grade	No.	UF	** Indexed Hourly Cost	Hourly Cost	Type of Equipment	No.
Wooden tile	ml	1.01	150.00	151.50	Foreman	1	0.25	85.10	21.27	Tools	2
Screw	No	5.00	5.50	27.50	Tiller	1	1	75.00	75.00		
Fisher	No	5.00	0.15	0.75	D/L	2	1	37.50	75.00		

_____Data collected by _____Prepared checked by _____Approved by

Total (1:01)				179.75	**Total (1:02)**				171.27		**Total (1:03)**

80.60 Birr/ml C= Equipment Unit Cost

A= Materials Unit Cost **179.8** Birr/ml B= Manpower Unit Cost — Total of (1:03)

Total of (1:02) — Hourly output: _____

Hourly Output: _____ **264.27** Birr/ml

Direct Cost of Work Item = Over head cost : _ 0% 0.00 "

Profit Cost: 0% 0.00 "

Total Unit Cost : _ **264.27** Birr/ml

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

LABOUR HOURLY OUTPUT:

PROJECT: **FINISHING WORKS.**

EQUIPEMENT:

WORK ITEM: (11.40) ***10 cm high porcelain skirting***

RESULT : **307.96**

TOTAL QANTITY OF WORK ITEM 1 ml

Material Cost (1:01)					Labour Cost (1:02)					Equipment Cost (1	
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labour by Grade	No.	UF	** Indexed Hourly Cost	Hourly Cost	Type of Equipment	No.
Porcelain skirting	ml	1.05	150.00	157.50	Foreman	1	0.25	85.10	21.27	Tools	2
Cement	kg	2.30	12.50	28.75	Tiller	1	1	75.00	75.00		
Sand	m3	0.01	1806.45	18.06	D/L	2	1	31.25	62.50		
adhesive II	kg	0.05	500.00	25.00							
Total (1:01)				229.31	**Total (1:02)**				158.77	**Total (1:03)**	

74.72 Birr/ml C= Equipment Unit Cost

A= Materials Unit Cost **229.3** Birr/ml B= Manpower Unit Cost — Total of (1:03)

Total of (1:02) — Hourly output: _____

_____Data collected by _____Prepared checked by _____Approved by

Hourly Output: _____ **307.96** Birr/ml

Direct Cost of Work Item = Over head cost : _ 0% 0.00 "

Profit Cost: 0% 0.00 "

Total Unit Cost : _ **307.96** Birr/ml

Remark _____

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ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

LABOUR HOURLY OUTPUT:

PROJECT: **FINISHING WORKS.**

EQUIPEMENT:

WORK ITEM: (11.44) ***10 cm high granite tile skirting 2cm thick***

RESULT : **413.0**

TOTAL QANTITY OF WORK ITEM 1 ml

Material Cost (1:01)					Labour Cost (1:02)					Equipment Cost (1	
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labour by Grade	No.	UF	** Indexed Hourly Cost	Hourly Cost	Type of Equipment	No.
Granite skerting	ml	1.05	250.00	262.50	Foreman	1	0.25	85.10	21.27	Tools	2
Cement	kg	2.30	12.50	28.75	Tiller	1	1	75.00	75.00		
Sand	m3	0.01	1806.45	18.06	D/L	2	1	31.25	62.50		
adhesive 1	kg	0.05	500.00	25.00							
Total (1:01)				334.31	**Total (1:02)**				158.77	**Total (1:03)**	

74.72 Birr/ml

A= Materials Unit Cost **334** Birr/ml

B= Manpower Unit Cost

Total of (1:02)

Hourly Output: _____

Direct Cost of Work Item = Over head cost : _ 0% 0.00 "

Profit Cost: 0% 0.00 "

Total Unit Cost : _ **412.96** Birr/ml

C= Equipment Unit Cost

Total of (1:03)

Hourly output: _____

412.96 Birr/ml

Remark _____

UF: UTILIZATION FACTOR

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_____Data collected by _____Prepared checked by _____Approved by

**: INCLUSIVE OF BENEFITS, TRAVEL SUBSIDES AND COST OF OVERTIME RELATED TO TARGETED OUTPUT.

ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

LABOUR HOURLY OUTPUT:

PROJECT: **FINISHING WORKS.**

EQUIPEMENT:

WORK ITEM: (11.49) ***Dressed stone cladding***

RESULT : **1918**

TOTAL QANTITY OF WORK ITEM: 1 m^2

Material Cost (1:01)					Labour Cost (1:02)					Equipment Cost (1	
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labour by Grade	No.	UF	** Indexed Hourly Cost	Hourly Cost	Type of Equipment	No.
Dressed stone	m2	1.05	1000.00	1050.00	Foreman	1	0.25	85.10	21.27	Tools	7
Cement	Qtl	0.40	1250.00	500.00	Masonary	2	1	75.00	150.00		
Sand	m3	0.10	1806.45	180.65	D/L	4	1	31.25	125.00		
Water	m3	0.03	35.00	1.05							
Total (1:01)				1731.70	**Total (1:02)**				296.27	**Total (1:03)**	

169.30 Birr/m^2 C= Equipment Unit Cost

A= Materials Unit Cost **1731.7** Birr/m^2 B= Manpower Unit Cost

Total of (1:03)

Total of (1:02) Hourly output: _____

Hourly Output: _____ **1917.67** Birr/m^2

Direct Cost of Work Item = Over head cost : _ 0% 0.00 "

Profit Cost: 0% 0.00 "

Total Unit Cost : _ **1917.67** Birr/m^2

Remark _____

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R DIRECT & INDIRECT UNIT COSTS

LABOUR HOURLY OUTPUT:

PROJECT: **FINISHING WORKS.**

EQUIPEMENT:

WORK ITEM: (11.49) ***Ceramic wall tile - bathroom (30×45cm) best quality***

RESULT : **989**

_____Data collected by _____Prepared checked by _____Approved by

TOTAL QANTITY OF WORK ITEM: 1 m^2

Material Cost (1:01)					Labour Cost (1:02)					Equipment Cost (1	
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labour by Grade	No.	UF	** Indexed Hourly Cost	Hourly Cost	Type of Equipment	No.
Ceramic	m2	1.05	650.00	682.50	Foreman	1	0.25	85.10	21.27	grinder	1
adhesive II	kg	5.00	20.00	100.00	Tiller	1	1	75.00	75.00		
Water	m3	0.03	35.00	1.05	D/L	2	1	31.25	62.50		
disk cutter 1	m3	1	8.33	8.33							
					Total (1:02)				158.77	**Total (1:03)**	
Total (1:01)				791.88							

181.46 Birr/m^2

A= Materials Unit Cost **791.9** Birr/m^2

B= Manpower Unit Cost

Total of (1:02)

Hourly Output: _____

Direct Cost of Work Item = Over head cost : _

Profit Cost:

Total Unit Cost : _

C= Equipment Unit Cost

Total of (1:03)

Hourly output: _____

	989.21	Birr/m^2
0%	0.00	"
0%	0.00	"
	989.21	Birr/m^2

Remark _____

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ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT: **FINISHING WORKS.**

LABOUR HOURLY OUTPUT:

EQUIPEMENT:

WORK ITEM: (11.49) ***Ceramic wall tile - bathroom (30×45cm) standard version***

RESULT : **1037**

TOTAL QANTITY OF WORK ITEM: 1 m^2

Material Cost (1:01)					Labour Cost (1:02)					Equipment Cost (1	
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labour by Grade	No.	UF	** Indexed Hourly Cost	Hourly Cost	Type of Equipment	No.
Ceramic	m2	1.05	700.00	735.00	Foreman	1	0.25	85.10	21.27	tools	4
adhesive II	kg	5.00	20.00	100.00	Tiller	1	1	75.00	75.00		

_____Data collected by _____Prepared checked by _____Approved by

Water	m3	0.03	35.00	1.05	D/L	2	1	31.25	62.50		
Total (1:01)				836.05	**Total (1:02)**				158.77	**Total (1:03)**	

181.46 Birr/m² C= Equipment Unit Cost

A= Materials Unit Cost **836.1** Birr/m² B= Manpower Unit Cost Total of (1:03)

Total of (1:02) Hourly output: _____

Hourly Output: _____ **1036.57** Birr/m²

Direct Cost of Work Item = Over head cost : _ 0% 0.00 "

Profit Cost: 0% 0.00 "

Total Unit Cost : _ **1036.57** Birr/m²

Remark _____

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ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

LABOUR HOURLY OUTPUT:

PROJECT: **FINISHING WORKS.**

EQUIPEMENT:

WORK ITEM: (11.49) ***Ceramic wall tile - kitchen (60×60cm)standard version***

RESULT : **1034**

TOTAL QANTITY OF WORK ITEM: 1 m^2

Material Cost (1:01)					Labour Cost (1:02)					Equipment Cost (1	
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labour by Grade	No.	UF	** Indexed Hourly Cost	Hourly Cost	Type of Equipment	No.
Ceramic(60×60cm)	m2	1.05	750.00	787.50	Foreman	1	0.25	85.10	21.27	grinder	1
adhesive	kg	2.00	20.00	40.00	Tiller	1	1	75.00	75.00		
Water	m3	0.03	35.00	1.05	D/L	2	1	31.25	62.50		
disk cutter 1	m3	1	8.33	8.33							
Total (1:01)				836.88	**Total (1:02)**				158.77	**Total (1:03)**	

181.46 Birr/m² C= Equipment Unit Cost

_____Data collected by _____Prepared checked by _____Approved by

A= Materials Unit Cost **836.9** Birr/m² B= Manpower Unit Cost Total of (1:03)

Total of (1:02) Hourly output: _____

Hourly Output: _____ **1034.21** Birr/m²

Direct Cost of Work Item = Over head cost : _ 0% 0.00 "

Profit Cost: 0% 0.00 "

Total Unit Cost : _ **1034.21** Birr/m²

Remark _____

UF: UTILIZATION FACTOR

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ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

LABOUR HOURLY OUTPUT:

PROJECT: **FINISHING WORKS.**

EQUIPEMENT:

WORK ITEM: (11.49) ***Ceramic wall tile - kitchen (60×60cm) Best quality***

RESULT : **1089**

TOTAL QANTITY OF WORK ITEM: 1 m²

Material Cost (1:01)					Labour Cost (1:02)					Equipment Cost (1	
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labour by Grade	No.	UF	** Indexed Hourly Cost	Hourly Cost	Type of Equipment	No.
Ceramic	m2	1.05	750.00	787.50	Foreman	1	0.25	85.10	21.27	tools	4
adhesive	kg	5.00	20.00	100.00	Tiller	1	1	75.00	75.00		
Water	m3	0.03	35.00	1.05	D/L	2	1	31.25	62.50		
Total (1:01)				888.55	**Total (1:02)**				158.77	**Total (1:03)**	

181.46 Birr/m² C= Equipment Unit Cost

A= Materials Unit Cost **888.6** Birr/m² B= Manpower Unit Cost Total of (1:03)

Total of (1:02) Hourly output: _____

Hourly Output: _____ **1089.07** Birr/m²

Direct Cost of Work Item = Over head cost : _ 0% 0.00 "

Profit Cost: 0% 0.00 "

Total Unit Cost : _ **1089.07** Birr/m²

Remark _____

UF: UTILIZATION FACTOR

_____Data collected by _____Prepared checked by _____Approved by

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R DIRECT & INDIRECT UNIT COSTS

LABOUR HOURLY OUTPUT:

PROJECT: **FINISHING WORKS.**

EQUIPEMENT:

WORK ITEM: (11.49) ***Gypsum chack***

RESULT : **77.76**

TOTAL QANTITY OF WORK ITEM: 1 m^2

Material Cost (1:01)					Labour Cost (1:02)					Equipment Cost (1	
					Labour by Grade	No.	UF	** Indexed Hourly Cost	Hourly Cost	Type of Equipment	No.
Type of Material	Unit	Qty *	Rate	Cost per Unit	Foreman	1	0.1	85.10	8.51	Tools	2
Gypsum	kg	2.20	10.00	22.00	Plasterer	1	1	75.00	75.00		
Water	m3	0.03	35.00	1.05	Daily labourer	1	1	31.25	31.25		
					Total (1:02)				114.76	**Total (1:03)**	
Total (1:01)				23.05							

51.00 Birr/m^2

A= Materials Unit Cost **23.05** Birr/m^2

B= Manpower Unit Cost

Total of (1:02)

Hourly Output: _____

Direct Cost of Work Item = Over head cost : _

Profit Cost:

Total Unit Cost : _

C= Equipment Unit Cost

Total of (1:03)

Hourly output: _____

77.76 Birr/m^2

0% 0.00 "

0% 0.00 "

77.76 Birr/m^2

Remark _____

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ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

LABOUR HOURLY OUTPUT:

PROJECT: **FINISHING WORKS.**

EQUIPEMENT:

WORK ITEM: (11.5 ***24cm wide multi color GRANITE door treshold***

RESULT : **1298**

TOTAL QANTITY OF WORK ITEM: 1 ml

_____Data collected by _____Prepared checked by _____Approved by

Material Cost (1:01)					Labour Cost (1:02)					Equipment Cost (1	
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labour by Grade	No.	UF	** Indexed Hourly Cost	Hourly Cost	Type of Equipment	No.
3cm thick Marble door treshold	ml	0.22	5300.00	1166.00	Foreman	1	0.25	85.10	21.27	Tools	4
Cement	kg	2.20	12.50	27.50	Tiller	1	1	75.00	75.00		
Sand	m3	0.01	1806.45	10.84	D/L	2	1	31.25	62.50		
Total (1:01)				1204.34	**Total (1:02)**				158.77	**Total (1:03)**	

84.68 Birr/m²

A= Materials Unit Cost **1204** Birr/m²

B= Manpower Unit Cost

Total of (1:02)

Hourly Output: _____

Direct Cost of Work Item = Over head cost : _

Profit Cost:

Total Unit Cost : _

C= Equipment Unit Cost

Total of (1:03)

Hourly output: _____

1297.91	Birr/m²	
0%	0.00	"
0%	0.00	"
1297.91	Birr/m²	

Remark _____

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ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT: **FINISHING WORKS.**

WORK ITEM: (11.5 ***30cm wide multi color GRANITE window sill***

TOTAL QANTITY OF WORK ITEM: 1 ml

LABOUR HOURLY OUTPUT:

EQUIPEMENT:

RESULT : **1909.8**

Material Cost (1:01)					Labour Cost (1:02)					Equipment Cost (1	
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labour by Grade	No.	UF	** Indexed Hourly Cost	Hourly Cost	Type of Equipment	No.
3cm thick granite window sill	ml	0.27	6050.00	1633.50	Foreman	1	0.25	85.10	21.27	Tools	4
Cement	kg	2.60	12.50	32.50	Tiller	1	1	75.00	75.00		

_____Data collected by _____Prepared checked by _____Approved by

Sand	m3	0.01	1806.45	10.84	D/L	2	1	31.25	62.50		
bull noising	m	1.02	80	81.6							
Total (1:01)				1758.44	**Total (1:02)**				158.77	**Total (1:03)**	

84.68 Birr/m²

A= Materials Unit Cost **1758.4** Birr/m²

B= Manpower Unit Cost

Total of (1:02)

Hourly Output: _____

Direct Cost of Work Item = Over head cost : _ 0% 0.00 "

Profit Cost: 0% 0.00 "

Total Unit Cost : _ **1909.78** Birr/m²

C= Equipment Unit Cost

Total of (1:03)

Hourly output: _____

1909.78 Birr/m²

Remark _____

UF: UTILIZATION FACTOR

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ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT: **FINISHING WORKS.**

WORK ITEM: (11.8 ***12cm wide Granite riser***

TOTAL QANTITY OF WORK ITEM: 1 ml

LABOUR HOURLY OUTPUT:

EQUIPEMENT:

RESULT : **1009.9**

Material Cost (1:01)					Labour Cost (1:02)					Equipment Cost (1	
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labour by Grade	No.	UF	** Indexed Hourly Cost	Hourly Cost	Type of Equipment	No.
2cm thick Marble	ml	0.14	6050.00	847.00	Foreman	1	0.25	85.10	21.27	Tools	4
Cement	kg	0.12	12.50	1.50	Tiller	1	1	75.00	75.00		
Sand	m3	0.00	1806.45	5.42	D/L	2	1	31.25	62.50		
Total (1:01)				853.92	**Total (1:02)**				158.77	**Total (1:03)**	

_____Data collected by _____Prepared checked by _____Approved by

141.13 Birr/ml C= Equipment Unit Cost

A= Materials Unit Cost **853.92** Birr/ml B= Manpower Unit Cost — Total of (1:03)

Total of (1:02) — Hourly output: _____

Hourly Output: _____ **1009.88** Birr/ml

Direct Cost of Work Item = Over head cost : _ 0% 0.00 "

Profit Cost: 0% 0.00 "

Total Unit Cost : _ **1009.88** Birr/ml

Remark _____

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LABOUR HOURLY OUTPUT:

PROJECT: **FINISHING WORKS.**

EQUIPEMENT:

WORK ITEM: (11.8 ***30cm wide Granite thread***

RESULT : **2062.6**

TOTAL QANTITY OF WORK ITEM: 1 ml

Material Cost (1:01)					Labour Cost (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	No.
3cm thick Granite	ml	0.30	6050.00	1815.00	Foreman	1	0.25	85.10	21.27	Tools	4
Cement	kg	2.90	12.50	36.25	Tiller	1	1	75.00	75.00		
Sand	m3	0.01	1806.45	10.84	D/L	2	1	31.25	62.50		
Total (1:01)				1862.09	**Total (1:02)**				158.77	**Total (1:03)**	

181.46 Birr/ml C= Equipment Unit Cost

A= Materials Unit Cost **1862.09** Birr/ml B= Manpower Unit Cost — Total of (1:03)

Total of (1:02) — Hourly output: _____

Hourly Output: _____ **2062.61** Birr/ml

Direct Cost of Work Item = Over head cost : _ 0% 0.00 "

Profit Cost: 0% 0.00 "

Total Unit Cost : _ **2062.61** Birr/ml

_____Data collected by _____Prepared checked by _____Approved by

Remark _____

UF: UTILIZATION FACTOR

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_____Data collected by _____Prepared checked by _____Approved by

2.8125 m²/hr

Birr/m²

.:03)	
Hourly Rental	Hourly Cost
4.17	12.51
	12.51

4.4 Birr/m²

49.79

0.75 m²/hr

Birr/m²

_____Data collected by _____Prepared checked by _____Approved by

.:03)	
Hourly Rental	Hourly Cost
4.17	12.51
	12.51

16.68 Birr/m²

195.05

0.75 m²/hr

Birr/m²

.:03)	
Hourly Rental	Hourly Cost
4.17	12.51

_____Data collected by _____Prepared checked by _____Approved by

	12.51

16.68 Birr/m²

186.71

1.875 m²/hr

Birr/m²

1:03)

Hourly Rental	Hourly Cost
4.17	12.51
	12.51

6.672 Birr/m²

63.02

_____Data collected by _____Prepared checked by _____Approved by

1.25 m²/hr

Birr/m²

1:03)

Hourly Rental	Hourly Cost
4.17	12.51
	12.51

10.01 Birr/m²

94.53

_____Data collected by _____Prepared checked by _____Approved by

0.875 m²/hr

Birr/m²

1:03)	
Hourly Rental	Hourly Cost
4.17	12.51
	12.51

14.30 Birr/m²

0.875 m²/hr

Birr/m²

1:03)	
Hourly Rental	Hourly Cost

_____Data collected by _____Prepared checked by _____Approved by

4.17	16.68
	16.68

19.06 Birr/m²

0.875 m²/hr

Birr/m²

1:03)

Hourly Rental	Hourly Cost
4.17	16.68

_____Data collected by _____Prepared checked by _____Approved by

	16.68

19.06285714 Birr/m²

2 m²/hr

Birr/m²

1:03)

Hourly Rental	Hourly Cost
4.17	16.68
	0
	0
	0
	0
	0
	0
	0
	16.68

8.34 Birr/m²

_____Data collected by _____Prepared checked by _____Approved by

0.875 m²/hr

Birr/m²

1:03)

Hourly Rental	Hourly Cost
4.17	16.68
	16.68

19.06285714 Birr/m²

_____Data collected by _____Prepared checked by _____Approved by

0.875 m²/hr

Birr/m²

1:03)	
Hourly Rental	Hourly Cost
4.17	16.68
	16.68

19.06285714 Birr/m²

5.625 ml/hr

Birr/ml

1:03)

_____Data collected by _____Prepared checked by _____Approved by

Hourly Rental	Hourly Cost
4.17	8.34
	8.34

1.48 Birr/ml

2.125 ml/hr

Birr/ml

1:03)

Hourly Rental	Hourly Cost
4.17	8.34

_____Data collected by _____Prepared checked by _____Approved by

	8.34

3.924705882 Birr/ml

2.125 ml/hr

Birr/ml

1:03)

Hourly Rental	Hourly Cost
4.17	8.34
	8.34

3.924705882 Birr/ml

_____Data collected by _____Prepared checked by _____Approved by

2.125 ml/hr

Birr/ml

1:03)	
Hourly Rental	Hourly Cost
4.17	8.34
	8.34

3.924705882 Birr/ml

_____Data collected by _____Prepared checked by _____Approved by

1.75 m2/hr

Birr/m2

1:03)

Hourly Rental	Hourly Cost
4.17	29.19
	29.19

16.68 Birr/m²

0.875 m2/hr

Birr/m2

_____Data collected by _____Prepared checked by _____Approved by

1:03)	
Hourly Rental	Hourly Cost
13.89	13.89
	13.89

15.87301587 Birr/m^2

0.875 m2/hr

Birr/m^2

1:03)	
Hourly Rental	Hourly Cost
4.17	16.68

_____Data collected by _____Prepared checked by _____Approved by

	16.7

19.06 Birr/m²

0.875 m2/hr

Birr/m²

1:03)	
Hourly Rental	Hourly Cost
13.89	13.89
	13.89

15.87301587 Birr/m²

_____Data collected by _____Prepared checked by _____Approved by

0.875 m2/hr

Birr/m^2

1:03)	
Hourly Rental	Hourly Cost
4.17	16.68
	16.68

19.06285714 Birr/m^2

_____Data collected by _____Prepared checked by _____Approved by

2.25 m2/hr

Birr/m^2

1:03)	
Hourly Rental	Hourly Cost
4.17	8.34
	8.34

3.71 Birr/m^2

1.875 m^2/hr

Birr/m^2

_____Data collected by _____Prepared checked by _____Approved by

1:03)	
Hourly Rental	Hourly Cost
4.17	16.68
	16.68

8.896 Birr/m²

1.875 m²/hr

Birr/m²

1:03)	
Hourly Rental	Hourly Cost
31.25	125

_____Data collected by _____Prepared checked by _____Approved by

	125

66.7 Birr/m²

1.04

1.125 ml/hr

Birr/ml

1:03)

Hourly Rental	Hourly Cost
4.17	16.68
	16.68

_____Data collected by _____Prepared checked by _____Approved by

14.82666667 Birr/ml

0.875 ml/hr

Birr/ml

1:03)	
Hourly Rental	Hourly Cost
4.17	16.68
	16.68

19.06285714 Birr/ml

_____Data collected by _____Prepared checked by _____Approved by

ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT: **PAINTING.**

LABOUR HOURLY OUTPUT:

WORK ITEM: (13.2) ***Three coats of plastic emulsion paint to gypsum plaster internal wall***

EQUIPEMENT: Tool

TOTAL QANTITY OF WORK ITEM: 1 m^2

RESULT: **133.94** Birr/m

Material Cost (1:01)					Labour Cost (1:02)					Equipme	
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	0.33	188.57	62.23	foreman	1	0.25	85.10	21.27	tools	3
sand paper	pcs	0.2	103.50	20.70	painter	1	1	62.50	62.50		
					DL	1	1	31.25	31.25		
Total (1:-01)				82.93	**Total (1:02)**				115.02404	**Total (1:0**	

A= Materials Unit Cost **82.92857** Birr/m^2

B= Manpower Unit Cost **46.0096** 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 = **133.94** Birr/m

Over head cost : 0% 0.00 "

Profit Cost: 0% 0.00 "

Total Unit Cost : **133.94** Birr/m

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

_____Data collected by _____Prepared and checked by _____Approved by

PROJECT: **PAINTING.**

WORK ITEM: (13.3) ***granite paint to external wall***

TOTAL QANTITY OF WORK ITEM: 1 m^2

LABOUR HOURLY OUTPUT:

EQUIPEMENT: Tool

RESULT: **1239.47** Birr/m

Material Cost (1:01)					Labour Cost (1:02)					Equipme	
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labour by Grade	No.	UF	** Indexed Hourly Cost	Hourly Cost	Type of Equipment	No.
granite paint	gal	0.21	5500.00	1155.00	foreman	1	0.25	85.10	21.27	tools	3
sand paper	No	0.2	103.50	20.70	painter	1	1	62.50	62.50		
					DL	1	1	31.25	31.25		
Total (1:-01)				1175.70	**Total (1:02)**				115.02404	**Total (1:0**	

A= Materials Unit Cost **1175.7** Birr/m^2

B= Manpower Unit Cost **57.512** 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 = **1239.47** Birr/m

Over head cost : 0% 0.00 "

Profit Cost: 0% 0.00 "

Total Unit Cost : **1239.47** Birr/m

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: **PAINTING.**

WORK ITEM: (13.5) ***Three coats of plastic emulsion paint to gypsum plastered soffit***

LABOUR HOURLY OUTPUT:

EQUIPEMENT: Tool

_____Data collected by _____Prepared and checked by _____Approved by

TOTAL QANTITY OF WORK ITEM: 1 m² RESULT: **153.78** Birr/m

Material Cost (1:01)					Labour Cost (1:02)					Equipme	
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	0.33	188.57	62.23	foreman	1	0.25	85.10	21.27	tools	3
Sand paper	No	0.2	103.50	20.70	painter	1	1	62.50	62.50		
					DL	1	1	31.25	31.25		
Total (1:-01)				82.93	**Total (1:02)**				115.02404	**Total (1:0**	

A= Materials Unit Cost **82.92857** Birr/m²

B= Manpower Unit Cost **63.9022** Birr/m²
Total of (1:02)
Hourly Output:

C= Equipment Unit Cost
Total of (1:03)
Hourly output: __

Direct Cost of Work Item = A+B+C = **153.78** Birr/m
Over head cost : 0% 0.00 "
Profit Cost: 0% 0.00 "
Total Unit Cost : **153.78** Birr/m

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: **PAINTING.**
WORK ITEM: (13.25) ***FINE Quartz paint to plastered wall surface***
TOTAL QANTITY OF WORK ITEM: 1 m²

LABOUR HOURLY OUTPUT:
EQUIPEMENT: Tool
RESULT: **400.54** Birr/m

_____Data collected by _____Prepared and checked by _____Approved by

Material Cost (1:01)					Labour Cost (1:02)					Equipme	
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labour by Grade	No.	UF	** Indexed Hourly Cost	Hourly Cost	Type of Equipment	No.
Quartz paint	gal	0.18	1879.00	328.83	foreman	1	0.25	85.10	21.27	tools	3
Sand paper	No	0.2	103.50	20.70	painter	1	1	62.50	62.50		
					DL	1	1	31.25	31.25		
Total (1:-01)				349.53	**Total (1:02)**				115.02	**Total (1:0**	

A= Materials Unit Cost **349.525** Birr/m^2

B= Manpower Unit Cost **46.0096** 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 = **400.54** Birr/m

Over head cost : 0% 0.00 "

Profit Cost: 0% 0.00

Total Unit Cost : **400.54** Birr/m

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: **PAINTING.**

WORK ITEM: (13.25) ***Fine Quartz paint to plastered soffit***

TOTAL QANTITY OF WORK ITEM: 1 m^2

LABOUR HOURLY OUTPUT:

EQUIPEMENT: Tool

RESULT: **465.47** Birr/m

_____Data collected by _____Prepared and checked by _____Approved by

Material Cost (1:01)					Labour Cost (1:02)					Equipme	
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labour by Grade	No.	UF	** Indexed Hourly Cost	Hourly Cost	Type of Equipment	No.
Quartz paint	gal	0.18	1879.00	328.83	foreman	1	0.25	85.10	21.27	tools	3
Sand paper	No	0.2	103.50	20.70	painter	1	1	62.50	62.50		
					DL	1	1	31.25	31.25		
Total (1:-01)				349.53	**Total (1:02)**				115.02404	**Total (1:0**	

A= Materials Unit Cost **349.525** Birr/m^2

B= Manpower Unit Cost **104.567** 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 = **465.47** Birr/m

Over head cost : 0% 0.00 "

Profit Cost: 0% 0.00 "

Total Unit Cost : **465.47** Birr/m

Remark _____

UF: UTILIZATION FACTOR

*: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.

**: INCLUSIVE OF BENEFITS, TRAVEL SUBSIDES AND COST OF OVERTIME RELATED TO TARGETED OUTPUT.

_____Data collected by _____Prepared and checked by _____Approved by

2.5 m²/hr.

ı²

nt Cost (1:03)	
Hourly Rental	Hourly Cost
4.17	12.51
03)	12.51

5.00 Birr/m²

ı²

ı²

_____Data collected by _____Prepared and checked by _____Approved by

2 m²/hr.

ı²

ɨnt Cost (1:03)	
Hourly Rental	Hourly Cost
4.17	12.51
)3)	12.51

6.26 Birr/m²

ı²

ı²

1.8 m²/hr.

_____Data collected by _____Prepared and checked by _____Approved by

ı²

ɨnt Cost (1:03)	
Hourly Rental	Hourly Cost
4.17	12.51
)3)	12.51

6.95 Birr/m²

ı²

ı²

2.5 m²/hr.

ı²

_____Data collected by _____Prepared and checked by _____Approved by

nt Cost (1:03)	
Hourly Rental	Hourly Cost
4.17	12.51
03)	12.51

5.00 Birr/m^2

_____

m^2

m^2

1.1 m^2/hr.

m^2

_____Data collected by _____Prepared and checked by _____Approved by

nt Cost (1:03)	
Hourly Rental	Hourly Cost
4.17	12.51
03)	12.51

11.37 Birr/m²

_____

ı²

ı²

_____Data collected by _____Prepared and checked by _____Approved by

ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT: **GLAZING WORKS**
WORK ITEM: (13.1) **Fixing 5mm clear glass.**
TOTAL QANTITY OF WORK ITEM 1 m²

LABOUR HOURLY OUTPUT: 1.31
EQUIPEMENT:
RESULT: **2151.48 Birr/**

Material Cost (1:01)					Labour Cost (1:02)					Equipme	
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labour by Grade	No.	UF	** Indexed Hourly Cost	Hourly Cost	Type of Equipment	No.
5 mm. clear glass	m2	1.1	1800	1980.00	Foreman	1	0.25	85.10	21.27	Tools	1
Putty	kg	0.4	35	14	Glazer	2	1	75.00	150.00		
					Hlper	1	1	31.25	31.25		
	Total (1:01)			1994	**Total (1:02)**				202.52	**Total (1:**	

A= Materials Unit Cos **1994** Birr/m²

B= Manpower Unit Cost **154.30** Birr/m²
Total of (1:02)
Hourly Output: _____

C= Equipment Unit Cost
Total of (1:03)
Hourly output: __

Direct Cost of Work Item = A+B+C = **2151.48** Birr/
Over head cost : 0% 0.00 "
Profit Cost: 0% 0.00 "
Total Unit Cost : _ **2151.48** Birr/

Remark _____

UF: UTILIZATION FACTOR
*: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.
**: INCLUSIVE OF BENEFITS, TRAVEL SUBSIDES AND COST OF OVERTIME RELATED TO TARGETED OUTPUT.

m²/hr

m²

ɛnt Cost (1:03)	
Hourly Rental	Hourly Cost
4.17	4.17
03)	4.17

3.18 Birr/m²

m²

m²

14.1 Hand wash basin

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: **SANITARY WORK** LABOR DAILY OUTPUT:
WORK ITEM:(14.1.1) **400x500 mm hand wash basin with pedistal and all accessories high quality** EQUIPMENT DAILY OUT PUT:
TOTAL QUANTITY OF WORK IT 1 Pc RESULT: **122** Birr/Pc

Material Cost (1:01)					Labor (1:02)					Equipment Cos	
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	Indexed Hourly Cost	Hourly Cost	Type of Equipment	No.
H.W.B + accessor	pc	1.00		0.00					0	Hand tools	2.2
Gypsum	kg	0.50	3	1.50	Plumber	1	1	15.75	15.75		
Fiber (kacha)	kg	0.001	110	0.11	Chiseler	1	1	8.88	8.875		
Anti rust	lt	0.1	52	5.18	Helper	1	1	10.00	10		
Total (1:-01)				6.79	**Total (1:02)**				34.63	**Total (1:03)**	

A=Materials Unit Cos 7 Birr/Pc **B=Manpower Unit C** 92.33 Birr/Pc **C=Equipment Unit Cost**
Total of (1:02) Total of (1:03)
Daily Output Daily Output
Direct Cost of work item = A+B+C = **106.63** Birr/Pc
Overhead Cost: 8% 8.53 Birr/Pc
Profit Cost: 7% 7.46 Birr/Pc
Total : 121.56 Birr/Pc

Remark _____
UF: UTILIZATION FACTOR **Total unit cost:** **121.56** Birr/Pc
*: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.
**: INCLUSIVE OF BENEFITS, TRAVEL SUBSIDES AND COST OF OVERTIME RELATED TO TARGETED OUTPUT.

14.1 Hand wash basin

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: **SANITARY WORK** LABOR DAILY OUTPUT:
WORK ITEM:(c) **405x500 mm hand wash basin with pedistal and all accessories med. quality** EQUIPMENT DAILY OUT PUT:
TOTAL QUANTITY OF WORK IT 1 Pc RESULT: **121.56** Birr/Pc

Material Cost (1:01)					Labor (1:02)					Equipment Cos	
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	Indexed Hourly Cost	Daily Cost	Type of Equipment	No.
H.W.B + accessor	pc	1.00		0.00					0	Hand tools	2.2
Gypsum	kg	0.50	3.00	1.50	Plumber	1	1	15.75	15.75		
Fiber (kacha)	kg	0.001	110.00	0.11	Chiseler	1	1	8.88	8.875		
Anti rust	lt	0.1	51.75	5.18	Helper	1	1	10.00	10		
Total (1:-01)				6.79	**Total (1:02)**				34.63	**Total (1:03)**	

A=Materials Unit Cos 6.79 Birr/Pc **B=Manpower Unit C** 92.33 Birr/Pc **C=Equipment Unit Cost**
Total of (1:02) Total of (1:03)
Daily Output Daily Output
Direct Cost of work item = A+B+C = **106.63** Birr/Pc
Overhead Cost: 8% 8.53 Birr/Pc
Profit Cost: 7% 7.46 Birr/Pc
Total : 121.56 Birr/Pc

Remark _____
UF: UTILIZATION FACTOR **Total unit cost:** **121.56** Birr/Pc
*: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.
**: INCLUSIVE OF BENEFITS, TRAVEL SUBSIDES AND COST OF OVERTIME RELATED TO TARGETED OUTPUT.

14.1 Hand wash basin

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: **SANITARY WORK** LABOR DAILY OUTPUT:

WORK ITEM:(d) **405x500 mm hand wash basin with pedistal and all accessories low quality** EQUIPMENT DAILY OUT PUT:

TOTAL QUANTITY OF WORK IT 1 Pc RESULT: **121.56** Birr/Pc

Material Cost (1:01)					Labor (1:02)					Equipment Cos	
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	Indexed Hourly Cost	Daily Cost	Type of Equipment	No.
H.W.B + accessor	pc	1.00		0.00					0	Hand tools	2.2
Gypsum	kg	0.50	3.00	1.50	Plumber	1	1	15.75	15.75		
Fiber (kacha)	kg	0.001	110.00	0.11	Chiseler	1	1	8.88	8.875		
Anti rust	lt	0.1	51.75	5.18	Helper	1	1	10.00	10		
Total (1:-01)				6.79	**Total (1:02)**				34.63	**Total (1:03)**	

A=Materials Unit Cos 6.79 Birr/Pc **B=Manpower Unit C** 92.33 Birr/Pc **C=Equipment Unit Cost**

Total of (1:02) Total of (1:03)

Daily Output Daily Output

Direct Cost of work item = A+B+C = **106.63** Birr/Pc

Overhead Cost: 8% 8.53 Birr/Pc

Profit Cost: 7% 7.46 Birr/Pc

Total : 121.56 Birr/Pc

Remark _____

UF: UTILIZATION FACTOR **Total unit cost:** **121.56** Birr/Pc

*: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.

**: INCLUSIVE OF BENEFITS, TRAVEL SUBSIDES AND COST OF OVERTIME RELATED TO TARGETED OUTPUT.

14.1 Hand wash basin

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: **SANITARY WORK** LABOR DAILY OUTPUT:

WORK ITEM:(e) **600x500 mm hand wash basin with pedistal and all accessories high quality** EQUIPMENT DAILY OUT PUT:

TOTAL QUANTITY OF WORK IT 1 Pc RESULT: **121.6** Birr/Pc

Material Cost (1:01)					Labor (1:02)					Equipment Cos	
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	Indexed Hourly Cost	Daily Cost	Type of Equipment	No.
H.W.B + accessor	pc	1.00		0.00					0	Hand tools	2.2
Gypsum	kg	0.50	3.00	1.50	Plumber	1	1	15.75	15.75		
Fiber (kacha)	kg	0.001	110.00	0.11	Chiseler	1	1	8.88	8.875		
Anti rust	lt	0.1	51.75	5.18	Helper	1	1	10.00	10		
Total (1:-01)				6.79	**Total (1:02)**				34.63	**Total (1:03)**	

A=Materials Unit Cos 7 Birr/Pc **B=Manpower Unit C** 92.33 Birr/Pc **C=Equipment Unit Cost**

Total of (1:02) Total of (1:03)

Daily Output Daily Output

Direct Cost of work item = A+B+C = **106.63** Birr/Pc

Overhead Cost: 8% 8.53 Birr/Pc

Profit Cost: 7% 7.46 Birr/Pc

Total : 121.56 Birr/Pc

Remark _____ Vat

UF: UTILIZATION FACTOR **Total unit cost:** **121.56** Birr/Pc

*: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.

**: INCLUSIVE OF BENEFITS, TRAVEL SUBSIDES AND COST OF OVERTIME RELATED TO TARGETED OUTPUT.

14.1 Hand wash basin

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: **SANITARY WORK** LABOR DAILY OUTPUT:

WORK ITEM:(f) **600x500 mm hand wash basin with pedistal and all accessories med. quality** EQUIPMENT DAILY OUT PUT:

TOTAL QUANTITY OF WORK IT 1 Pc RESULT: **121.56** Birr/Pc

Material Cost (1:01)					Labor (1:02)					Equipment Cos	
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	Indexed Hourly Cost	Daily Cost	Type of Equipment	No.
H.W.B + accessor	pc	1.00		0.00					0	Hand tools	2.2
Gypsum	kg	0.50	3.00	1.50	Plumber	1	1	15.75	15.75		
Fiber (kacha)	kg	0.001	110.00	0.11	Chiseler	1	1	8.88	8.875		
Anti rust	lt	0.1	51.75	5.18	Helper	1	1	10.00	10		
Total (1:-01)				6.79	**Total (1:02)**				34.63	**Total (1:03)**	

A=Materials Uni 6.79 Birr/Pc **B=Manpower Unit C** 92.33 Birr/Pc **C=Equipment Unit Cost**

Total of (1:02) Total of (1:03)

Daily Output Daily Output

Direct Cost of work item = A+B+C = **106.63** Birr/Pc

Overhead Cost: 8% 8.53 Birr/Pc

Profit Cost: 7% 7.46 Birr/Pc

Total : 121.56 Birr/Pc

Remark _____ Vat

UF: UTILIZATION FACTOR **Total unit cost:** **121.56** Birr/Pc

*: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.

**: INCLUSIVE OF BENEFITS, TRAVEL SUBSIDES AND COST OF OVERTIME RELATED TO TARGETED OUTPUT.

14.1 Hand wash basin

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: **SANITARY WORK** LABOR DAILY OUTPUT:

WORK ITEM:(g) **600x500 mm hand wash basin with pedistal and all accessories low quality** EQUIPMENT DAILY OUT PUT:

TOTAL QUANTITY OF WORK IT 1 Pc RESULT: **121.56** Birr/Pc

Material Cost (1:01)					Labor (1:02)					Equipment Cos	
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	Indexed Hourly Cost	Daily Cost	Type of Equipment	No.
H.W.B + accessor	pc	1.00		0.00					0	Hand tools	2.2
Gypsum	kg	0.50	3.00	1.50	Plumber	1	1	15.75	15.75		
Fiber (kacha)	kg	0.001	110.00	0.11	Chiseler	1	1	8.88	8.875		
Anti rust	lt	0.1	51.75	5.18	Helper	1	1	10.00	10		
Total (1:-01)				6.79	**Total (1:02)**				34.63	**Total (1:03)**	

A=Materials Unit Cos 6.79 Birr/Pc **B=Manpower Unit C** 92.33 Birr/Pc **C=Equipment Unit Cost**

Total of (1:02) Total of (1:03)

Daily Output Daily Output

Direct Cost of work item = A+B+C = **106.63** Birr/Pc

Overhead Cost: 8% 8.53 Birr/Pc

Profit Cost: 7% 7.46 Birr/Pc

Total : 121.56 Birr/Pc

Remark _____ Vat

UF: UTILIZATION FACTOR **Total unit cost:** **121.56** Birr/Pc

*: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.

**: INCLUSIVE OF BENEFITS, TRAVEL SUBSIDES AND COST OF OVERTIME RELATED TO TARGETED OUTPUT.

14.2 Low flush W.C

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: **SANITARY WORK** LABOR DAILY OUTPUT:

WORK ITEM:(a) **Low flush W.C with all accessories high quality** EQUIPMENT DAILY OUT PUT:

TOTAL QUANTITY OF WORK IT 1 Pc RESULT: **141.89** Birr/Pc

Material Cost (1:01)					Labor (1:02)					Equipment Cos	
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	Indexed Hourly Cost	Daily Cost	Type of Equipment	No.
W.C + accessories	pc	1.00		0.00					0	Hand tools	4
Fiber (kacha)	kg	0.001	110.00	0.11	Plumber	1	1	15.75	15.75		
Anti rust	lt	0.1	51.75	5.18	Chiseler	1	1	8.88	8.875		

					Helper	1	1	7.50	7.5		
Total (1:-01)				5.29	**Total (1:02)**				32.13	**Total (1:03)**	

A=Materials Unit Cos 5 Birr/Pc ***B=Manpower Unit C*** 102.80 Birr/Pc ***C=Equipment Unit Cost***

Total of (1:02) Total of (1:03)

Daily Output Daily Output

Direct Cost of work item = A+B+C = ***124.47*** Birr/Pc

Overhead Cost: 8% 9.96 Birr/Pc

Profit Cost: 7% 8.71 Birr/Pc

Total : 141.89 Birr/Pc

Remark _____

UF: UTILIZATION FACTOR ***Total unit cost:*** ***141.89*** Birr/Pc

*: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.

**: INCLUSIVE OF BENEFITS, TRAVEL SUBSIDES AND COST OF OVERTIME RELATED TO TARGETED OUTPUT.

14.2 Low flush W.C

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: ***SANITARY WORK*** LABOR DAILY OUTPUT:

WORK ITEM:(b) ***Low flush W.C with all accessories medium quality*** EQUIPMENT DAILY OUT PUT:

TOTAL QUANTITY OF WORK IT 1 Pc RESULT: ***151*** Birr/Pc

Material Cost (1:01)					**Labor (1:02)**					**Equipment Cos**	
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	Indexed Hourly Cost	hourly Cost	Type of Equipment	No.
W.C + accessories	pc	1.00		0.00					0	Hand tools	4
Fiber (kacha)	kg	0.001	3.00	0.00	Plumber	1	1	15.75	15.75		
Anti rust	lt	0.1	51.75	5.18	Chiseler	1	1	8.88	8.875		
					Helper	1	1	10.00	10		
Total (1:-01)				5.18	**Total (1:02)**				34.63	**Total (1:03)**	

A=Materials Unit Cos 5.18 Birr/Pc ***B=Manpower Unit C*** 110.80 Birr/Pc ***C=Equipment Unit Cost***

Total of (1:02) Total of (1:03)

Daily Output Daily Output

Direct Cost of work item = A+B+C = ***132.4*** Birr/Pc

Overhead Cost: 8% 10.59 Birr/Pc

Profit Cost: 7% 9.27 Birr/Pc

Total : 150.89 Birr/Pc

Remark _____ Vat

UF: UTILIZATION FACTOR ***Total unit cost:*** ***150.89*** Birr/Pc

*: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.

**: INCLUSIVE OF BENEFITS, TRAVEL SUBSIDES AND COST OF OVERTIME RELATED TO TARGETED OUTPUT.

14.2 Low flush W.C

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: ***SANITARY WORK*** LABOR DAILY OUTPUT:

WORK ITEM:(c) ***Low flush W.C with all accessories low quality*** EQUIPMENT DAILY OUT PUT:

TOTAL QUANTITY OF WORK IT 1 Pc RESULT: ***151.01*** Birr/Pc

Material Cost (1:01)					**Labor (1:02)**					**Equipment Cos**	
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	Indexed Hourly Cost	Daily Cost	Type of Equipment	No.
W.C + accessories	pc	1.00		0.00					0	Hand tools	4
Fiber (kacha)	kg	0.001	110.00	0.11	Plumber	1	1	15.75	15.75		
Anti rust	lt	0.1	51.75	5.18	Chiseler	1	1	8.88	8.875		
					Helper	1	1	10.00	10		

Total (1:-01)	5.29	Total (1:02)	34.63	Total (1:03)

A=Materials Uni 5.29 Birr/Pc **B=Manpower Unit C** 110.80 Birr/Pc **C=Equipment Unit Cost**

Total of (1:02) Total of (1:03)

Daily Output Daily Output

Direct Cost of work item = A+B+C = **132.47** Birr/Pc

Overhead Cost: 8% 10.60 Birr/Pc

Profit Cost: 7% 9.27 Birr/Pc

Total : 151.01 Birr/Pc

Remark _____ Vat

UF: UTILIZATION FACTOR **Total unit cost:** **151.01** Birr/Pc

*: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.

14.3 Double bowel kitchen sink

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: **SANITARY WORK** LABOR DAILY OUTPUT:

WORK ITEM:(a) **Double bowel kitchen sink with all accessories high quality (50 x 150)cm** EQUIPMENT HOURLY OUT PUT:

TOTAL QUANTITY OF WORK IT 1 Pc RESULT: **246.0** Birr/Pc

Material Cost (1:01)					Labor (1:02)					Equipment Cos	
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	Indexed Hourly Cost	Daily Cost	Type of Equipment	No.
D.sink + accessor	pc	1.00		0.00					0	Hand tools	4
Steel support	Pc	2.00	25.00	50.00	Plumber	1	1	15.75	15.75		
Gypsum	kg	0.5	3.00	1.50	Chiseler	1	1	8.88	8.875		
Fiber (kacha)	kg	0.001	110.00	0.11	Helper	1	1	10.00	10		
Anti rust	lt	0.1	51.75	5.18							
Total (1:-01)				56.79	Total (1:02)				34.63	Total (1:03)	

A=Materials Unit Cos 56.8 Birr/Pc **B=Manpower Unit C** 138.50 Birr/Pc **C=Equipment Unit Cost**

Total of (1:02) Total of (1:03)

Daily Output Daily Output

Direct Cost of work item = A+B+C = **215.77** Birr/Pc

Overhead Cost: 8% 17.26 Birr/Pc

Profit Cost: 7% 15.10 Birr/Pc

Total : 245.97 Birr/Pc

Remark _____ Vat

UF: UTILIZATION FACTOR **Total unit cost:** **245.97** Birr/Pc

*: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.

**: INCLUSIVE OF BENEFITS, TRAVEL SUBSIDES AND COST OF OVERTIME RELATED TO TARGETED OUTPUT.

14.3 Double bowel kitchen sink

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: **SANITARY WORK** LABOR DAILY OUTPUT:

WORK ITEM:(b) **Double bowel kitchen sink with all accessories medium quality (50 x 150)cm** EQUIPMENT HOURLY OUT PUT:

TOTAL QUANTITY OF WORK IT 1 Pc RESULT: **252.49** Birr/Pc

Material Cost (1:01)					Labor (1:02)					Equipment Cos	
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	Indexed Hourly Cost	Daily Cost	Type of Equipment	No.
D.sink + accessor	pc	1.00		0.00					0	Hand tools	4
Steel support	Pc	2.00	25.00	50.00	Plumber	1	1	15.75	15.75		
Gypsum	kg	0.5	3.00	1.50	Chiseler	1	1	8.88	8.875		
Fiber (kacha)	kg	0.001	3.00	0.00	Helper	1	1	10.00	10		
Anti rust	lt	0.1	110.00	11.00							
Total (1:-01)				62.50	Total (1:02)				34.63	Total (1:03)	

A=Materials Unit Cos 62.50 Birr/Pc **B=Manpower Unit C** 138.50 Birr/Pc **C=Equipment Unit Cost**

Total of (1:02) Total of (1:03)

Daily Output Daily Output

Direct Cost of work item = A+B+C =		**221.48** Birr/Pc
Overhead Cost:	8%	17.72 Birr/Pc
Profit Cost:	7%	15.50 Birr/Pc
Total :		252.49 Birr/Pc

Remark _____
UF: UTILIZATION FACTOR — **Total unit cost:** **252.49** Birr/Pc
*: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.
**: INCLUSIVE OF BENEFITS, TRAVEL SUBSIDES AND COST OF OVERTIME RELATED TO TARGETED OUTPUT.

14.3 Double bowel kitchen sink

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: **SANITARY WORK** — LABOR DAILY OUTPUT:
WORK ITEM:(c) **Double bowel kitchen sink with all accessories low quality (50 x 150)cm** — EQUIPMENT DAILY OUT PUT:
TOTAL QUANTITY OF WORK IT 1 Pc — RESULT: **245.97** Birr/Pc

Material Cost (1:01)					Labor (1:02)					Equipment Cos	
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	Indexed Hourly Cost	Daily Cost	Type of Equipment	No.
D.sink + accessor	pc	1.00		0.00					0	Hand tools	4
Steel support	Pc	2.00	25.00	50.00	Plumber	1	1	15.75	15.75		
Gypsum	kg	0.50	3.00	1.50	Chiseler	1	1	8.88	8.875		
Fiber (kacha)	kg	0.001	110.00	0.11	Helper	1	1	10.00	10		
Anti rust	lt	0.1	51.75	5.18							
Total (1:-01)				56.79	**Total (1:02)**				34.63	**Total (1:03)**	

A=Materials Unit Cos 56.79 Birr/Pc — **B=Manpower Unit C** 138.50 Birr/Pc — **C=Equipment Unit Cost**
Total of (1:02) — Total of (1:03)
Daily Output — Daily Output

Direct Cost of work item = A+B+C =		**215.77** Birr/Pc
Overhead Cost:	8%	17.26 Birr/Pc
Profit Cost:	7%	15.10 Birr/Pc
Total :		245.97 Birr/Pc
Vat		
Total unit cost:		**245.97** Birr/Pc

Remark _____
UF: UTILIZATION FACTOR
*: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.
**: INCLUSIVE OF BENEFITS, TRAVEL SUBSIDES AND COST OF OVERTIME RELATED TO TARGETED OUTPUT.

14.4 Single bowel kitchen sink

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: **SANITARY WORK** — LABOR DAILY OUTPUT:
WORK ITEM:(a) **Single bowel kitchen sink with all accessories high quality (50x100 cm)** — EQUIPMENT DAILY OUT PUT:
TOTAL QUANTITY OF WORK IT 1 Pc — RESULT: **245.97**

Material Cost (1:01)					Labor (1:02)					Equipment Cos	
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	Indexed Hourly Cost	Daily Cost	Type of Equipment	No.
S.B. sink+ access	pc	1.00		0.00					0	Hand tools	4
Steel support	Pc	2	25.00	50.00	Plumber	1	1	15.75	15.75		
Gypsum	kg	0.5	3.00	1.50	Chiseler	1	1	8.88	8.875		
Fiber (kacha)	kg	0.001	110.00	0.11	Helper	1	1	10.00	10		
Anti rust	lt	0.1	51.75	5.18							
Total (1:-01)				56.79	**Total (1:02)**				34.63	**Total (1:03)**	

A=Materials Unit Cos 56.79 Birr/Pc — **B=Manpower Unit C** 138.50 Birr/Pc — **C=Equipment Unit Cost**
Total of (1:02) — Total of (1:03)
Daily Output — Daily Output

Direct Cost of work item = A+B+C =		**215.77** Birr/Pc
Overhead Cost:	8%	17.26 Birr/Pc
Profit Cost:	7%	15.10 Birr/Pc
Total :		245.97 Birr/Pc
Vat		
Total unit cost:		**245.97** Birr/Pc

Remark _____
UF: UTILIZATION FACTOR

*: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.
**: INCLUSIVE OF BENEFITS, TRAVEL SUBSIDES AND COST OF OVERTIME RELATED TO TARGETED OUTPUT.

14.4 Single bowel kitchen sink

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: **SANITARY WORK** LABOR DAILY OUTPUT:
WORK ITEM:(b) **Single bowel kitchen sink with all accessories medium quality (50x100 cm)** EQUIPMENT DAILY OUT PUT:
TOTAL QUANTITY OF WORK IT 1 Pc RESULT: **245.97** Birr/Pc

Material Cost (1:01)					Labor (1:02)					Equipment Cos	
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	Indexed Hourly Cost	Daily Cost	Type of Equipment	No.
S.B. sink+ access	pc	1.00		0.00					0	Hand tools	4
Steel support	Pc	2	25.00	50.00	Plumber	1	1	15.75	15.75		
Gypsum	kg	0.5	3.00	1.50	Chiseler	1	1	8.88	8.875		
Fiber (kacha)	kg	0.001	110.00	0.11	Helper	1	1	10.00	10		
Anti rust	lt	0.1	51.75	5.18							
Total (1:-01)				56.79	**Total (1:02)**				34.63	**Total (1:03)**	

A=Materials Unit Cos 56.79 Birr/Pc **B=Manpower Unit C** 138.50 Birr/Pc **C=Equipment Unit Cost**
Total of (1:02) Total of (1:03)
Daily Output Daily Output
Direct Cost of work item = A+B+C = **215.77** Birr/Pc
Overhead Cost: 8% 17.26 Birr/Pc
Profit Cost: 7% 15.10 Birr/Pc
Total : 245.97 Birr/Pc
Remark _____ Vat
UF: UTILIZATION FACTOR **Total unit cost:** **245.97** Birr/Pc

*: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.
**: INCLUSIVE OF BENEFITS, TRAVEL SUBSIDES AND COST OF OVERTIME RELATED TO TARGETED OUTPUT.

14.4 Single bowel kitchen sink

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: **SANITARY WORK** LABOR DAILY OUTPUT:
WORK ITEM:(c) **Single bowel kitchen sink with all accessories low quality (50x100 cm)** EQUIPMENT DAILY OUT PUT:
TOTAL QUANTITY OF WORK IT 1 Pc RESULT: **245.97** Birr/Pc

Material Cost (1:01)					Labor (1:02)					Equipment Cos	
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	Indexed Hourly Cost	Daily Cost	Type of Equipment	No.
S.B. sink+ access	pc	1.00		0.00					0	Hand tools	4
Steel support	Pc	2.00	25.00	50.00	Plumber	1	1	15.75	15.75		
Gypsum	kg	0.5	3.00	1.50	Chiseler	1	1	8.88	8.875		
Fiber (kacha)	kg	0.001	110.00	0.11	Helper	1	1	10.00	10		
Anti rust	lt	0.1	51.75	5.18							
Total (1:-01)				56.79	**Total (1:02)**				34.63	**Total (1:03)**	

A=Materials Unit Cos 56.79 Birr/Pc **B=Manpower Unit C** 138.50 Birr/Pc **C=Equipment Unit Cost**
Total of (1:02) Total of (1:03)
Daily Output Daily Output
Direct Cost of work item = A+B+C = **215.77** Birr/Pc
Overhead Cost: 8% 17.26 Birr/Pc
Profit Cost: 7% 15.10 Birr/Pc
Total : 245.97 Birr/Pc
Remark _____ Vat
UF: UTILIZATION FACTOR **Total unit cost:** **245.97** Birr/Pc

*: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.
**: INCLUSIVE OF BENEFITS, TRAVEL SUBSIDES AND COST OF OVERTIME RELATED TO TARGETED OUTPUT.

14.5 Shower tray

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: **SANITARY WORK** LABOR DAILY OUTPUT: 0.0625
WORK ITEM:(a) **80x80 cm vitreous china shower tray with all accessories** EQUIPMENT DAILY OUT PUT: 0.0625
TOTAL QUANTITY OF WORK IT 1 Pc RESULT: **730.97** Birr/Pc

Material Cost (1:01)					Labor (1:02)					Equipment Cos	
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	Indexed Hourly Cost	Daily Cost	Type of Equipment	No.
Shower set	Pc	1.00		0.00					0	Hand tools	4
Fiber (kacha)	kg	0.001	110.00	0.11	Plumber	1	1	15.75	15.75		
Anti rust	lt	0.1	51.75	5.18	Chiseler	1	1	8.88	8.875		
					Helper	1	1	10.00	10		
Total (1:-01)				5.29	**Total (1:02)**				34.63	**Total (1:03)**	

A=Materials Unit Cos 5.29 Birr/Pc **B=Manpower Unit C** 554.00 Birr/Pc **C=Equipment Unit Cost**
Total of (1:02) Total of (1:03)
Daily Output Daily Output
Direct Cost of work item = A+B+C = **641.20** Birr/Pc
Overhead Cost: 8% 51.30 Birr/Pc
Profit Cost: 7% 44.88 Birr/Pc
Total : 730.97 Birr/Pc
Remark _____ Vat
UF: UTILIZATION FACTOR **Total unit cost:** **730.97** Birr/Pc
*: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.
**: INCLUSIVE OF BENEFITS, TRAVEL SUBSIDES AND COST OF OVERTIME RELATED TO TARGETED OUTPUT.

14.5 Shower tray

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: **SANITARY WORK** LABOR DAILY OUTPUT:
WORK ITEM:(b) **70x70 cm white enameled steel shower tray with all accessories** EQUIPMENT DAILY OUT PUT:
TOTAL QUANTITY OF WORK IT 1 Pc RESULT: **728.02** Birr/Pc

Material Cost (1:01)					Labor (1:02)					Equipment Cos	
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	Indexed Hourly Cost	Daily Cost	Type of Equipment	No.
Shower set	Pc	1.00		0.00					0	Hand tools	4
Fiber (kacha)	kg	0.001	110.00	0.11	Plumber	1	1	15.75	15.75		
Anti rust	lt	0.05	51.75	2.59	Chiseler	1	1	8.88	8.875		
					Helper	1	1	10.00	10		
Total (1:-01)				2.70	**Total (1:02)**				34.63	**Total (1:03)**	

A=Materials Unit Cos 2.70 Birr/Pc **B=Manpower Unit C** 554.00 Birr/Pc **C=Equipment Unit Cost**
Total of (1:02) Total of (1:03)
Daily Output Daily Output
Direct Cost of work item = A+B+C = **638.62** Birr/Pc
Overhead Cost: 8% 51.09 Birr/Pc
Profit Cost: 7% 44.70 Birr/Pc
Total : 728.02 Birr/Pc
Remark _____
UF: UTILIZATION FACTOR **Total unit cost:** **728.02** Birr/Pc
*: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.
**: INCLUSIVE OF BENEFITS, TRAVEL SUBSIDES AND COST OF OVERTIME RELATED TO TARGETED OUTPUT.

14.5 Shower tray

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: **SANITARY WORK** LABOR DAILY OUTPUT: 0.3125
WORK ITEM:(c) **70x70 cm terrazzo shower tray with all accessories** EQUIPMENT DAILY OUT PUT: 0.3125
TOTAL QUANTITY OF WORK IT 1 Pc RESULT: **151.01** Birr/Pc

Material Cost (1:01)	Labor (1:02)	Equipment Cos

Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	Indexed Hourly Cost	Daily Cost	Type of Equipment	No.
Terrazzo shower t	Pc	1.00		0.00					0	Hand tools	4
Fiber (kacha)	kg	0.001	110.00	0.11	Plumber	1	1	15.75	15.75		
Anti rust	lt	0.1	51.75	5.18	Chiseler	1	1	8.88	8.875		
Flexible shower h	Pc	0.01	0.00	0.00	Helper	1	1	10.00	10		
Total (1:-01)				5.29	**Total (1:02)**				34.63	**Total (1:03)**	

A=Materials Unit Cos 5.29 Birr/Pc **B=Manpower Unit C** 110.80 Birr/Pc **C=Equipment Unit Cost**

Total of (1:02) Total of (1:03)

Daily Output Daily Output

Direct Cost of work item = A+B+C = **132.47** Birr/Pc

Overhead Cost: 8% 10.60 Birr/Pc

Profit Cost: 7% 9.27 Birr/Pc

Total : 151.01 Birr/Pc

Remark _____

UF: UTILIZATION FACTOR **Total unit cost:** **151.01** Birr/Pc

*: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.

**: INCLUSIVE OF BENEFITS, TRAVEL SUBSIDES AND COST OF OVERTIME RELATED TO TARGETED OUTPUT.

14.6 Soap holder

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: **SANITARY WORK** LABOR DAILY OUTPUT: 0.875

WORK ITEM:(a) **White vitreous china soap holder best quality** EQUIPMENT DAILY OUT PUT: 0.875

TOTAL QUANTITY OF WORK IT 1 Pc RESULT: **26.56** Birr/Pc

Material Cost (1:01)					Labor (1:02)					Equipment Cos	
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	Indexed Hourly Cost	Daily Cost	Type of Equipment	No.
Soap holder	Pc	1.00		0.00					0	Hand tools	4
cement	Qtl	0.01		0.00	Plumber	1	1	15.75	15.75		
white cement	kg	0.01	12.00	0.12							
Total (1:-01)				0.12	**Total (1:02)**				15.75	**Total (1:03)**	

A=Materials Unit Cos 0.12 Birr/Pc **B=Manpower Unit C** 18.00 Birr/Pc **C=Equipment Unit Cost**

Total of (1:02) Total of (1:03)

Daily Output Daily Output

Direct Cost of work item = A+B+C = **23.97** Birr/Pc

Overhead Cost: 8% 1.92 Birr/Pc

Profit Cost: 5% 1.29 Birr/Pc

Total : 26.56 Birr/Pc

Remark _____

UF: UTILIZATION FACTOR **Total unit cost:** **26.56** Birr/Pc

*: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.

**: INCLUSIVE OF BENEFITS, TRAVEL SUBSIDES AND COST OF OVERTIME RELATED TO TARGETED OUTPUT.

14.6 Soap holder

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: **SANITARY WORK** LABOR DAILY OUTPUT:

WORK ITEM:(b) **White vitreous china soap holder economy version** EQUIPMENT DAILY OUT PUT:

TOTAL QUANTITY OF WORK IT 1 Pc RESULT: **27.33** Birr/Pc

Material Cost (1:01)					Labor (1:02)					Equipment Cos	
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	Indexed Hourly Cost	Daily Cost	Type of Equipment	No.
Soap holder	Pc	1.00		0.00	Forman	1	0.25	-	0	Hand tools	4
cement	Qtl	0.01		0.00	Plumber	1	1	15.75	15.75		
white cement	kg	0.01	12.00	0.12	Chiseler	1	1	-	0		
					Helper	1	1	-	0		

Total (1:-01)				0.12	**Total (1:02)**				15.75	**Total (1:03)**	

A=Materials Unit Cos 0.12 Birr/Pc ***B=Manpower Unit C*** 18.00 Birr/Pc ***C=Equipment Unit Cost***

Total of (1:02) Total of (1:03)

Daily Output Daily Output

Direct Cost of work item = A+B+C = ***23.97*** Birr/Pc

Overhead Cost: 8% 1.92 Birr/Pc

Profit Cost: 7% 1.68 Birr/Pc

Total : 27.33 Birr/Pc

Remark _____

UF: UTILIZATION FACTOR ***Total unit cost:*** ***27.33*** Birr/Pc

*: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.

**: INCLUSIVE OF BENEFITS, TRAVEL SUBSIDES AND COST OF OVERTIME RELATED TO TARGETED OUTPUT.

14.7 Toilet paper holder

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: ***SANITARY WORK*** LABOR DAILY OUTPUT:

WORK ITEM:(a) ***White vitreous china toilet paper holder best quality*** EQUIPMENT DAILY OUT PUT:

TOTAL QUANTITY OF WORK IT 1 Pc RESULT: ***27.33*** Birr/Pc

Material Cost (1:01)					***Labor (1:02)***					***Equipment Cos***	
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	Indexed Hourly Cost	Daily Cost	Type of Equipment	No.
Toilet holder	Pc	1.00		0.00					0	Hand tools	4
cement	Qtl	0.01		0.00	Plumber	1	1	15.75	15.75		
white cement	kg	0.01	12.00	0.12					0		
									0		
Total (1:-01)				0.12	**Total (1:02)**				15.75	**Total (1:03)**	

A=Materials Unit Cos 0.12 Birr/Pc ***B=Manpower Unit C*** 18.00 Birr/Pc ***C=Equipment Unit Cost***

Total of (1:02) Total of (1:03)

Daily Output Daily Output

Direct Cost of work item = A+B+C = ***23.97*** Birr/Pc

Overhead Cost: 8% 1.92 Birr/Pc

Profit Cost: 7% 1.68 Birr/Pc

Total : 27.33 Birr/Pc

Remark _____

UF: UTILIZATION FACTOR ***Total unit cost:*** ***27.33*** Birr/Pc

*: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.

**: INCLUSIVE OF BENEFITS, TRAVEL SUBSIDES AND COST OF OVERTIME RELATED TO TARGETED OUTPUT.

14.7 Toilet paper holder

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: ***SANITARY WORK*** LABOR DAILY OUTPUT: 1.125

WORK ITEM:(b) ***White vitreous china toilet paper holder economy version*** EQUIPMENT DAILY OUT PUT: 1.125

TOTAL QUANTITY OF WORK IT 1 Pc RESULT: ***96.32*** Birr/Pc

Material Cost (1:01)					***Labor (1:02)***					***Equipment Cos***	
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	Indexed Hourly Cost	Daily Cost	Type of Equipment	No.
Toilet holder	Pc	1.00	65.00	65.00	Forman	1	0.25	-	0	Hand tools	4
cement	Kg	0.01	0.00	0.00	Plumber	1	1	15.75	15.75		
white cement	kg	0.01	12.00	0.12	Chiseler	1	1	-	0		
					Helper	1	1	-	0		
Total (1:-01)				65.12	**Total (1:02)**				15.75	**Total (1:03)**	

A=Materials Unit Cos 65.12 Birr/Pc **B=Manpower Unit C** 14.00 Birr/Pc **C=Equipment Unit Cost**

Total of (1:02) Total of (1:03)

Daily Output Daily Output

Direct Cost of work item = A+B+C = **83.67** Birr/Pc

Overhead Cost: 8% 6.69 Birr/Pc

Profit Cost: 7% 6.33 Birr/Pc

Total : 96.32 Birr/Pc

Remark _____

UF: UTILIZATION FACTOR **Total unit cost:** **96.32** Birr/Pc

*: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.

**: INCLUSIVE OF BENEFITS, TRAVEL SUBSIDES AND COST OF OVERTIME RELATED TO TARGETED OUTPUT.

14.8 Towel hunger

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: **SANITARY WORK** LABOR DAILY OUTPUT: 0.875

WORK ITEM:(a) **Towel hunger best quality** EQUIPMENT DAILY OUT PUT: 0.875

TOTAL QUANTITY OF WORK IT 1 Pc RESULT: **36.31** Birr/Pc

Material Cost (1:01)					Labor (1:02)					Equipment Cos	
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	Indexed Hourly Cost	Daily Cost	Type of Equipment	No.
Towel hunger	Pc	1.00		0.00					0	Hand tools	4
Screw	No	4	0.50	2.00	Plumber	1	1	15.75	15.75		
Fisher	No	4	1.5	6.00					0		
									0		
Total (1:-01)				8.00	**Total (1:02)**				15.75	**Total (1:03)**	

A=Materials Unit Cos 8.00 Birr/Pc **B=Manpower Unit C** 18.00 Birr/Pc **C=Equipment Unit Cost**

Total of (1:02) Total of (1:03)

Daily Output Daily Output

Direct Cost of work item = A+B+C = **31.85** Birr/Pc

Overhead Cost: 8% 2.55 Birr/Pc

Profit Cost: 7% 2.23 Birr/Pc

Total : 36.31 Birr/Pc

Remark _____ Vat

UF: UTILIZATION FACTOR **Total unit cost:** **36.31** Birr/Pc

*: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.

14.8 Towel hunger

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: **SANITARY WORK** LABOR DAILY OUTPUT: 0.875

WORK ITEM:(b) **Towel hunger economy version** EQUIPMENT DAILY OUT PUT: 0.875

TOTAL QUANTITY OF WORK IT 1 Pc RESULT: **96.94** Birr/Pc

Material Cost (1:01)					Labor (1:02)					Equipment Cos	
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	Indexed Hourly Cost	Daily Cost	Type of Equipment	No.
Towel hunger	Pc	1.00	24.00	24.00	Forman	1	0.25	23.75	5.9375	Hand tools	4
Screw	Kg	4	0.50	2.00	Plumber	1	1	15.75	15.75		
Fisher	kg	4	1.5	6.00	Chiseler	1	1	8.88	8.875		
					Helper	1	1	10.00	10		
Total (1:-01)				32.00	**Total (1:02)**				40.56	**Total (1:03)**	

A=Materials Unit Cos 32.00 Birr/Pc **B=Manpower Unit C** 46.36 Birr/Pc **C=Equipment Unit Cost**

Total of (1:02) Total of (1:03)

Daily Output Daily Output

Direct Cost of work item = A+B+C = **84.21** Birr/Pc

Overhead Cost: 8% 6.74 Birr/Pc

	Profit Cost:	7%	6.37 Birr/Pc
	Total :		96.94 Birr/Pc
Remark _____	Vat		
UF: UTILIZATION FACTOR	**Total unit cost:**		**96.94** Birr/Pc

*: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.

**: INCLUSIVE OF BENEFITS, TRAVEL SUBSIDES AND COST OF OVERTIME RELATED TO TARGETED OUTPUT.

14.9 Bath tub

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: **SANITARY WORK** — LABOR DAILY OUTPUT: 0.375

WORK ITEM:(a) **70x150 cm white enameled steel bath tub with all accesso** — EQUIPMENT DAILY OUT PUT: 0.375

TOTAL QUANTITY OF WORK IT 1 Pc — RESULT: **412.58** Birr/Pc

Material Cost (1:01)					Labor (1:02)					Equipment Cos	
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	Indexed Hourly Cost	Daily Cost	Type of Equipment	No.
Bath tub+accesso	Pc	1.00		0.00					0	Hand tools	8
Brick	No	65	3.52	228.80	Plumber	1	1	15.75	15.75		
cement	Qtl	0.19		0.00	Chiseler	1	1	8.88	8.875		
sand	m3	0.03	448.96	13.47	Helper	1	1	10.00	10		
									0		
Total (1:-01)				242.27	**Total (1:02)**				34.63	**Total (1:03)**	

A=Materials Unit Cos 242.27 Birr/Pc — **B=Manpower Unit C** 92.33 Birr/Pc — **C=Equipment Unit Cost**

Total of (1:02) Daily Output — Total of (1:03) Daily Output

	Direct Cost of work item = A+B+C =		**361.91** Birr/Pc
	Overhead Cost:	8%	28.95 Birr/Pc
	Profit Cost:	7%	25.33 Birr/Pc
	Total :		412.58 Birr/Pc
Remark _____	Vat		
UF: UTILIZATION FACTOR	**Total unit cost:**		**412.58** Birr/Pc

*: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.

**: INCLUSIVE OF BENEFITS, TRAVEL SUBSIDES AND COST OF OVERTIME RELATED TO TARGETED OUTPUT.

14.9 Bath tub

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: **SANITARY WORK** — LABOR DAILY OUTPUT: 0.375

WORK ITEM:(b) **70x170 cm white enameled steel bath tub with all accesso** — EQUIPMENT DAILY OUT PUT: 0.375

TOTAL QUANTITY OF WORK IT 1 Pc — RESULT: **414.62** Birr/Pc

Material Cost (1:01)					Labor (1:02)					Equipment Cos	
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	Indexed Hourly Cost	Daily Cost	Type of Equipment	No.
Bath tub+accesso	Pc	1.00		0.00					0	Hand tools	8
Brick	No	65	3.52	228.80	Plumber	1	1	15.75	15.75		
cement	Qtl	0.19		0.00	Chiseler	1	1	8.88	8.875		
sand	m3	0.034	448.96	15.26	Helper	1	1	10.00	10		
									0		
Total (1:-01)				244.06	**Total (1:02)**				34.63	**Total (1:03)**	

A=Materials Unit Cos 244.1 Birr/Pc — **B=Manpower Unit C** 92.33 Birr/Pc — **C=Equipment Unit Cost**

Total of (1:02) Daily Output — Total of (1:03) Daily Output

	Direct Cost of work item = A+B+C =		**363.70** Birr/Pc
	Overhead Cost:	8%	29.10 Birr/Pc
	Profit Cost:	7%	25.46 Birr/Pc
	Total :		414.62 Birr/Pc
Remark _____	Vat		
UF: UTILIZATION FACTOR	**Total unit cost:**		**414.62** Birr/Pc

*: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.

**: INCLUSIVE OF BENEFITS, TRAVEL SUBSIDES AND COST OF OVERTIME RELATED TO TARGETED OUTPUT.

14.9 Bath tub

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: **SANITARY WORK** LABOR DAILY OUTPUT: 0.25
WORK ITEM:(c) **70x150 cm fiber glass bath tub with all accessories** EQUIPMENT DAILY OUT PUT: 0.25
TOTAL QUANTITY OF WORK IT 1 Pc RESULT: **2097.20** Birr/Pc

Material Cost (1:01)					Labor (1:02)					Equipment Cos	
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	Indexed Hourly Cost	Daily Cost	Type of Equipment	No.
Bath tub+accesso	Pc	1.00	1200.00	1200.00	Forman	1	0.25	23.75	5.9375	Hand tools	8
Brick	No	65	3.52	228.80	Plumber	1	1	15.75	15.75		
cement	Qtl	0.19	244.36	46.43	Chiseler	1	1	8.88	8.875		
sand	m3	0.3	448.96	134.69	Helper	1	1	10.00	10		
					mason	1	0.25	8.63	2.15625		
					plasterer	1	0.25	-	0		
Total (1:-01)				1609.92	**Total (1:02)**				42.72	**Total (1:03)**	

A=Materials Unit Cos 1609.92 Birr/Pc **B=Manpower Unit C** 170.88 Birr/Pc **C=Equipment Unit Cost**
Total of (1:02) Total of (1:03)
Daily Output Daily Output
Direct Cost of work item = A+B+C = **1821.75** Birr/Pc
Overhead Cost: 8% 145.74 Birr/Pc
Profit Cost: 7% 137.72 Birr/Pc
Total : 2097.20 Birr/Pc
Remark _____ Vat
UF: UTILIZATION FACTOR **Total unit cost:** **2097.20** Birr/Pc
*: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.
**: INCLUSIVE OF BENEFITS, TRAVEL SUBSIDES AND COST OF OVERTIME RELATED TO TARGETED OUTPUT.

14.9 Bath tub

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: **SANITARY WORK** LABOR DAILY OUTPUT: 0.25
WORK ITEM:(d) **70x170 cm fiber glass bath tub with all accessories** EQUIPMENT DAILY OUT PUT: 0.25
TOTAL QUANTITY OF WORK IT 1 Pc RESULT: **2500.12** Birr/Pc

Material Cost (1:01)					Labor (1:02)					Equipment Cos	
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	Indexed Hourly Cost	Daily Cost	Type of Equipment	No.
Bath tub+accesso	Pc	1.00	1550.00	1550.00	Forman	1	0.25	23.75	5.9375	Hand tools	8
Brick	No	65	3.52	228.80	Plumber	1	1	15.75	15.75		
cement	Qtl	0.19	244.36	46.43	Chiseler	1	1	8.88	8.875		
sand	m3	0.3	448.96	134.69	Helper	1	1	10.00	10		
					mason	1	0.25	8.63	2.15625		
					plasterer	1	0.25	-	0		
Total (1:-01)				1959.92	**Total (1:02)**				42.7	**Total (1:03)**	

A=Materials Unit Cos 1959.92 Birr/Pc **B=Manpower Unit C** 170.88 Birr/Pc **C=Equipment Unit Cost**
Total of (1:02) Total of (1:03)
Daily Output Daily Output
Direct Cost of work item = A+B+C = **2171.75** Birr/Pc
Overhead Cost: 8% 173.74 Birr/Pc
Profit Cost: 7% 164.18 Birr/Pc
Total : 2500.12 Birr/Pc
Remark _____ Vat
UF: UTILIZATION FACTOR **Total unit cost:** **2500.12** Birr/Pc
*: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.
**: INCLUSIVE OF BENEFITS, TRAVEL SUBSIDES AND COST OF OVERTIME RELATED TO TARGETED OUTPUT.

14.9 Bath tub

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: **SANITARY WORK** LABOR DAILY OUTPUT:
WORK ITEM:(e) **80x150 cm Jacuzzi (bath tub) with all accessories** EQUIPMENT DAILY OUT PUT:
TOTAL QUANTITY OF WORK IT 1 Pc RESULT: **21253.3** Birr/Pc

Material Cost (1:01)					Labor (1:02)						Equipment Cos	
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	Indexed Hourly Cost	Daily Cost		Type of Equipment	No.
Bath tub+accesso	Pc	1.00	17000.00	17000.00	Forman	1	0.25	23.75	5.9375		Hand tools	4
					Plumber	1	1	15.75	15.75			
					Chiseler	1	1	8.88	8.875			
					Helper	1	1	10.00	10			
Total (1:-01)				17000.00	Total (1:02)				40.6		Total (1:03)	

A=Materials Unit Cos 17000.00 Birr/Pc **B=Manpower Unit C** 1298.00 Birr/Pc **C=Equipment Unit Cost**

Total of (1:02) Total of (1:03)

Daily Output Daily Output

Direct Cost of work item = A+B+C = **18461.8** Birr/Pc

Overhead Cost: 8% 1476.95 Birr/Pc

Profit Cost: 7% 1395.72 Birr/Pc

Total : 21253.27 Birr/Pc

Remark _____ Vat

UF: UTILIZATION FACTOR **Total unit cost:** **21253.3** Birr/Pc

*: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.

**: INCLUSIVE OF BENEFITS, TRAVEL SUBSIDES AND COST OF OVERTIME RELATED TO TARGETED OUTPUT.

14.9 Bath tub

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: **SANITARY WORK** LABOR DAILY OUTPUT: 0.03125

WORK ITEM:(f) 124x190 cm Jacuzzi (bath tub) with all accessories EQUIPMENT DAILY OUT PUT: 0.03125

TOTAL QUANTITY OF WORK IT 1 Pc RESULT: **31060.7** Birr/Pc

Material Cost (1:01)					Labor (1:02)						Equipment Cos	
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	Indexed Hourly Cost	Daily Cost		Type of Equipment	No.
Bath tub+accesso	Pc	1.00	22000	22000	Forman	1	0.25	23.75	5.9375		Hand tools	4
					Plumber	1	1	15.75	15.75			
					Chiseler	1	1	8.88	8.875			
					Helper	1	1	10.00	10			
Total (1:-01)				22000.00	Total (1:02)				40.56		Total (1:03)	

A=Materials Unit Cos 22000.00 Birr/Pc **B=Manpower Unit C** 1298.00 Birr/Pc **C=Equipment Unit Cost**

Total of (1:02) Total of (1:03)

Daily Output Daily Output

Direct Cost of work item = A+B+C = **23461.8** Birr/Pc

Overhead Cost: 8% 1876.95 Birr/Pc

Profit Cost: 7% 1773.72 Birr/Pc

Total : 27009.27 Birr/Pc

Remark _____ Vat 15% 4051.39 Birr/Pc

UF: UTILIZATION FACTOR **Total unit cost:** **31060.7** Birr/Pc

*: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.

**: INCLUSIVE OF BENEFITS, TRAVEL SUBSIDES AND COST OF OVERTIME RELATED TO TARGETED OUTPUT.

14.9 Bath tub

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: **SANITARY WORK** LABOR DAILY OUTPUT:

WORK ITEM:(g) **150x150 cm Jacuzzi (bath tub) with all accessories** EQUIPMENT DAILY OUT PUT:

TOTAL QUANTITY OF WORK IT 1 Pc RESULT: **46580** Birr/Pc

Material Cost (1:01)					Labor (1:02)						Equipment Cos	
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	Indexed Hourly Cost	Daily Cost		Type of Equipment	No.
Bath tub+accesso	Pc	1.00	39000.00	39000.00	Forman	1	0.25	23.75	5.9375		Hand tools	4
					Plumber	1	1	15.75	15.75			

					Chiseler	1	1	8.88	8.875		
					Helper	1	1	10.00	10		
Total (1:-01)				39000.00	**Total (1:02)**				40.56	**Total (1:03)**	

A=Materials Unit Cos 39000.00 Birr/Pc ***B=Manpower Unit C*** 1298.00 Birr/Pc ***C=Equipment Unit Cost***

Total of (1:02) Total of (1:03)

Daily Output Daily Output

Direct Cost of work item = A+B+C = ***40461.8*** Birr/Pc

Overhead Cost: 8% 3236.95 Birr/Pc

Profit Cost: 7% 3058.92 Birr/Pc

Total : 46579.67 Birr/Pc

Remark _____ Vat

UF: UTILIZATION FACTOR ***Total unit cost:*** ***46579.7*** Birr/Pc

*: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.

**: INCLUSIVE OF BENEFITS, TRAVEL SUBSIDES AND COST OF OVERTIME RELATED TO TARGETED OUTPUT.

14.9 Bath tub

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: **SANITARY WORK** LABOR DAILY OUTPUT:

WORK ITEM:(h) ***180x130 cm digital control Jacuzzi (bath tub) with steam and all accessorie*** EQUIPMENT DAILY OUT PUT:

TOTAL QUANTITY OF WORK IT 1 Pc RESULT: ***53486.9*** Birr/Pc

Material Cost (1:01)					**Labor (1:02)**					**Equipment Cos**	
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	Indexed Hourly Cost	Daily Cost	Type of Equipment	No.
Bath tub+accesso	Pc	1.00	45000.00	45000.00	Forman	1	0.25	23.75	5.9375	Hand tools	4
					Plumber	1	1	15.75	15.75		
					Chiseler	1	1	8.88	8.875		
					Helper	1	1	10.00	10		
Total (1:-01)				45000.00	**Total (1:02)**				40.56	**Total (1:03)**	

A=Materials Unit Cos 45000.0 Birr/Pc ***B=Manpower Unit C*** 1298.00 Birr/Pc ***C=Equipment Unit Cost***

Total of (1:02) Total of (1:03)

Daily Output Daily Output

Direct Cost of work item = A+B+C = ***46461.8*** Birr/Pc

Overhead Cost: 8% 3716.95 Birr/Pc

Profit Cost: 7% 3512.52 Birr/Pc

Total : 53486.87 Birr/Pc

Remark _____ Vat

UF: UTILIZATION FACTOR ***Total unit cost:*** ***53486.9*** Birr/Pc

*: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.

**: INCLUSIVE OF BENEFITS, TRAVEL SUBSIDES AND COST OF OVERTIME RELATED TO TARGETED OUTPUT.

14.10 Shower box

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: **SANITARY WORK** LABOR DAILY OUTPUT: 0.25

WORK ITEM:(a) ***90x90 cm Shower box*** EQUIPMENT DAILY OUT PUT: 0.25

TOTAL QUANTITY OF WORK IT 1 Pc RESULT: ***12298.0*** Birr/Pc

Material Cost (1:01)					**Labor (1:02)**					**Equipment Cos**	
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	Indexed Hourly Cost	Daily Cost	Type of Equipment	No.
shower box	Pc	1.00	10500.0	10500.0	Forman	1	0.25	23.75	5.9375	Hand tools	4
					Plumber	1	1	15.75	15.75		
					Chiseler	1	1	8.88	8.875		
					Helper	1	1	10.00	10		

Total (1:-01)				10500.0	**Total (1:02)**				40.56	**Total (1:03)**	

A=Materials Unit Cos 10500 Birr/Pc **B=Manpower Unit C** 162.25 Birr/Pc **C=Equipment Unit Cost**

Total of (1:02) Total of (1:03)

Daily Output Daily Output

Direct Cost of work item = A+B+C = **10682.7** Birr/Pc

Overhead Cost: 8% 854.62 Birr/Pc

Profit Cost: 7% 807.61 Birr/Pc

Total : 12297.96 Birr/Pc

Remark _____ Vat

UF: UTILIZATION FACTOR **Total unit cost:** **12298.0** Birr/Pc

*: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.

**: INCLUSIVE OF BENEFITS, TRAVEL SUBSIDES AND COST OF OVERTIME RELATED TO TARGETED OUTPUT.

14.11 Urinal

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: **SANITARY WORK** LABOR DAILY OUTPUT: 0.25

WORK ITEM:(a) **Urinal with all accessories medium quality** EQUIPMENT DAILY OUT PUT: 0.25

TOTAL QUANTITY OF WORK IT 1 Pc RESULT: **730.82** Birr/Pc

Material Cost (1:01)					**Labor (1:02)**					**Equipment Cos**	
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	Indexed Hourly Cost	Daily Cost	Type of Equipment	No.
Urinal+accessorie	Pc	1.00	450.00	450.00	Forman	1	0.25	23.75	5.9375	Hand tools	4
Fiber (kacha)	kg	0.005	110.00	0.55	Plumber	1	1	15.75	15.75		
Anti rust	lt	0.03	51.75	1.55	Chiseler	1	1	8.88	8.875		
					Helper	1	1	10.00	10		
Total (1:-01)				452.10	**Total (1:02)**				40.56	**Total (1:03)**	

A=Materials Unit Cos 452.10 Birr/Pc **B=Manpower Unit C** 162.25 Birr/Pc **C=Equipment Unit Cost**

Total of (1:02) Total of (1:03)

Daily Output Daily Output

Direct Cost of work item = A+B+C = **634.83** Birr/Pc

Overhead Cost: 8% 50.79 Birr/Pc

Profit Cost: 7% 47.99 Birr/Pc

Total : 730.82 Birr/Pc

Remark _____ Vat

UF: UTILIZATION FACTOR **Total unit cost:** **730.82** Birr/Pc

*: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.

**: INCLUSIVE OF BENEFITS, TRAVEL SUBSIDES AND COST OF OVERTIME RELATED TO TARGETED OUTPUT.

14.11 Urinal

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: **SANITARY WORK** LABOR DAILY OUTPUT: 0.25

WORK ITEM:(b) **Urinal with all accessories low quality** EQUIPMENT DAILY OUT PUT: 0.25

TOTAL QUANTITY OF WORK IT 1 Pc RESULT: **500.58** Birr/Pc

Material Cost (1:01)					**Labor (1:02)**					**Equipment Cos**	
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	Indexed Hourly Cost	Daily Cost	Type of Equipment	No.
Urinal+accessorie	Pc	1.00	250.00	250.00	Forman	1	0.25	23.75	5.9375	Hand tools	4
Fiber (kacha)	kg	0.005	110.00	0.55	Plumber	1	1	15.75	15.75		
Anti rust	lt	0.03	51.75	1.55	Chiseler	1	1	8.88	8.875		
					Helper	1	1	10.00	10		
Total (1:-01)				252.10	**Total (1:02)**				40.56	**Total (1:03)**	

A=Materials Unit Cos 252.10 Birr/Pc **B=Manpower Unit C** 162.25 Birr/Pc **C=Equipment Unit Cost**

Total of (1:02) Total of (1:03)

Daily Output Daily Output

Direct Cost of work item = A+B+C =		**434.83** Birr/Pc
Overhead Cost:	8%	34.79 Birr/Pc
Profit Cost:	7%	32.87 Birr/Pc
Total :		500.58 Birr/Pc
Vat		
Total unit cost:		**500.58** Birr/Pc

Remark _____
UF: UTILIZATION FACTOR
*: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.
**: INCLUSIVE OF BENEFITS, TRAVEL SUBSIDES AND COST OF OVERTIME RELATED TO TARGETED OUTPUT.

14.12 Water heater with

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: **SANITARY WORK**
WORK ITEM:(a) **50 lt capacity Water heater with all accessories**
TOTAL QUANTITY OF WORK IT 1 Pc
LABOR DAILY OUTPUT: 0.5
EQUIPMENT DAILY OUT PUT: 0.5
RESULT: **3081.15** Birr/Pc

Material Cost (1:01)					**Labor (1:02)**					**Equipment Cos**	
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	Indexed Hourly Cost	Daily Cost	Type of Equipment	No.
Heater	Pc	1.00	2550.00	2550.00	Forman	1	0.25	23.75	5.9375	Hand tools	4
Fisher	Pc	2	1.50	3.00	Plumber	1	1	15.75	15.75	Driller	1
Fiber (kacha)	kg	0.005	110.00	0.55	Chiseler	1	1	8.88	8.875		
Anti rust	lt	0.03	51.75	1.55	Helper	1	1	10.00	10		
Total (1:-01)				2555.10	**Total (1:02)**				40.56	**Total (1:03)**	

A=Materials Unit Cos 2555.10 Birr/Pc
B=Manpower Unit C 81.13 Birr/Pc
Total of (1:02)
Daily Output
C=Equipment Unit Cost
Total of (1:03)
Daily Output

Direct Cost of work item = A+B+C =		**2676.47** Birr/Pc
Overhead Cost:	8%	214.12 Birr/Pc
Profit Cost:	7%	202.34 Birr/Pc
Total :		3081.15 Birr/Pc
Vat		
Total unit cost:		**3081.15** Birr/Pc

Remark _____
UF: UTILIZATION FACTOR
*: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.
**: INCLUSIVE OF BENEFITS, TRAVEL SUBSIDES AND COST OF OVERTIME RELATED TO TARGETED OUTPUT.

14.12 Water heater with

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: **SANITARY WORK**
WORK ITEM:(b) **80 lt capacity Water heater with all accessories**
TOTAL QUANTITY OF WORK IT 1 Pc
LABOR DAILY OUTPUT: 0.1875
EQUIPMENT DAILY OUT PUT: 0.1875
RESULT: **3358.91** Birr/Pc

Material Cost (1:01)					**Labor (1:02)**					**Equipment Cos**	
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	Indexed Hourly Cost	Daily Cost	Type of Equipment	No.
Heater	Pc	1.00	2750.00	2750.00					0	Hand tools	4
Fisher	Pc	2	1.50	3.00	Plumber	1	1	15.75	15.75	Driller	1
Fiber (kacha)	kg	0.005	110.00	0.55					0		
Anti rust	lt	0.03	51.75	1.55					0		
Total (1:-01)				2755.10	**Total (1:02)**				15.75	**Total (1:03)**	

A=Materials Unit Cos 2755.10 Birr/Pc
B=Manpower Unit C 84.00 Birr/Pc
Total of (1:02)
Daily Output
C=Equipment Unit Cost
Total of (1:03)
Daily Output

Direct Cost of work item = A+B+C =		**2946.41** Birr/Pc
Overhead Cost:	8%	235.71 Birr/Pc
Profit Cost:	7%	206.25 Birr/Pc
Total :		3358.91 Birr/Pc
Vat		
Total unit cost:		**3358.91** Birr/Pc

Remark _____
UF: UTILIZATION FACTOR

*: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.
**: INCLUSIVE OF BENEFITS, TRAVEL SUBSIDES AND COST OF OVERTIME RELATED TO TARGETED OUTPUT.

14.12 Water heater with

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: **SANITARY WORK** — LABOR DAILY OUTPUT: 0.1875
WORK ITEM:(c) 100 lt capacity Water heater with all accessories — EQUIPMENT DAILY OUT PUT: 0.1875
TOTAL QUANTITY OF WORK IT 1 Pc — RESULT: **3643.91** Birr/Pc

Material Cost (1:01)					Labor (1:02)					Equipment Cos	
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	Indexed Hourly Cost	Daily Cost	Type of Equipment	No.
Heater	Pc	1.00	3000.00	3000.00					0	Hand tools	4
Fisher	Pc	2	1.50	3.00	Plumber	1	1	15.75	15.75	Driller	1
Fiber (kacha)	kg	0.005	110.00	0.55					0		
Anti rust	lt	0.03	51.75	1.55					0		
Total (1:-01)				3005.10	**Total (1:02)**				15.75	**Total (1:03)**	

A=Materials Unit Cos 3005.1 Birr/Pc — **B=Manpower Unit C** 84.00 Birr/Pc — **C=Equipment Unit Cost**
Total of (1:02) — Total of (1:03)
Daily Output — Daily Output
Direct Cost of work item = A+B+C = **3196.41** Birr/Pc
Overhead Cost: 8% 255.71 Birr/Pc
Profit Cost: 7% 223.75 Birr/Pc
Total : 3643.91 Birr/Pc
Remark _____ — Vat
UF: UTILIZATION FACTOR — **Total unit cost:** **3643.91** Birr/Pc

*: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.
**: INCLUSIVE OF BENEFITS, TRAVEL SUBSIDES AND COST OF OVERTIME RELATED TO TARGETED OUTPUT.

14.13 Floor drain

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: **SANITARY WORK** — LABOR DAILY OUTPUT: 1.2375
WORK ITEM:(a) **Dia.50 mm brass plated floor drain high quality** — EQUIPMENT DAILY OUT PUT: 1.2375
TOTAL QUANTITY OF WORK IT 1 Pc — RESULT: **173.41** Birr/Pc

Material Cost (1:01)					Labor (1:02)					Equipment Cos	
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	Indexed Hourly Cost	Daily Cost	Type of Equipment	No.
Dia.50 mm floor drain	pc	1.00	120.00	120.00					0	Hand tools	4
					Plumber	1	1	15.75	15.75		
					Chiseler	1	1	8.88	8.875		
					Helper	1	1	10.00	10		
Total (1:-01)				120.00	**Total (1:02)**				34.63	**Total (1:03)**	

A=Materials Unit Cos 120.00 Birr/Pc — **B=Manpower Unit C** 27.98 Birr/Pc — **C=Equipment Unit Cost**
Total of (1:02) — Total of (1:03)
Daily Output — Daily Output
Direct Cost of work item = A+B+C = **152.12** Birr/Pc
Overhead Cost: 8% 12.17 Birr/Pc
Profit Cost: 7% 10.65 Birr/Pc
Total : 173.41 Birr/Pc
Remark _____ — Vat
UF: UTILIZATION FACTOR — **Total unit cost:** **173.41** Birr/Pc

*: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.
**: INCLUSIVE OF BENEFITS, TRAVEL SUBSIDES AND COST OF OVERTIME RELATED TO TARGETED OUTPUT.

14.13 Floor drain

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: **SANITARY WORK** — LABOR DAILY OUTPUT:

WORK ITEM:(b) Dia.50 mm brass plated floor drain low quality
TOTAL QUANTITY OF WORK IT 1 Pc
EQUIPMENT DAILY OUT PUT:
RESULT: **110.71** Birr/Pc

Material Cost (1:01)					Labor (1:02)					Equipment Cos	
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	Indexed Hourly Cost	Daily Cost	Type of Equipment	No.
Dia.50 mm floor drain	pc	1.00	65.00	65.00					0	Hand tools	4
					Plumber	1	1	15.75	15.75		
					Chiseler	1	1	8.88	8.875		
					Helper	1	1	10.00	10		
Total (1:-01)				65.00	**Total (1:02)**				34.63	**Total (1:03)**	

A=Materials Unit Cos 65.00 Birr/Pc
B=Manpower Unit C 27.98 Birr/Pc
Total of (1:02)
Daily Output
C=Equipment Unit Cost
Total of (1:03)
Daily Output
Direct Cost of work item = A+B+C = **97.12** Birr/Pc
Overhead Cost: 8% 7.77 Birr/Pc
Profit Cost: 7% 6.80 Birr/Pc
Total : 110.71 Birr/Pc
Vat
Total unit cost: **110.71** Birr/Pc

Remark _____
UF: UTILIZATION FACTOR
*: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.
**: INCLUSIVE OF BENEFITS, TRAVEL SUBSIDES AND COST OF OVERTIME RELATED TO TARGETED OUTPUT.

14.13 Floor drain

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: **SANITARY WORK**
WORK ITEM:(c) **Dia.80 mm brass plated floor drain high quality**
TOTAL QUANTITY OF WORK IT 1 Pc
LABOR DAILY OUTPUT: 1.25
EQUIPMENT DAILY OUT PUT: 1.25
RESULT: **207.25** Birr/Pc

Material Cost (1:01)					Labor (1:02)					Equipment Cos	
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	Indexed Hourly Cost	Daily Cost	Type of Equipment	No.
Dia.80 mm floor drain	pc	1.00	150.00	150.00					0	Hand tools	4
					Plumber	1	1	15.75	15.75		
					Chiseler	1	1	8.88	8.875		
					Helper	1	1	10.00	10		
Total (1:-01)				150.00	**Total (1:02)**				34.63	**Total (1:03)**	

A=Materials Unit Cos 150.00 Birr/Pc
B=Manpower Unit C 27.70 Birr/Pc
Total of (1:02)
Daily Output
C=Equipment Unit Cost
Total of (1:03)
Daily Output
Direct Cost of work item = A+B+C = **181.80** Birr/Pc
Overhead Cost: 8% 14.54 Birr/Pc
Profit Cost: 7% 12.73 Birr/Pc
Total : 207.25 Birr/Pc
Vat
Total unit cost: **207.25** Birr/Pc

Remark _____
UF: UTILIZATION FACTOR
*: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.
**: INCLUSIVE OF BENEFITS, TRAVEL SUBSIDES AND COST OF OVERTIME RELATED TO TARGETED OUTPUT.

14.13 Floor drain

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: **SANITARY WORK**
WORK ITEM:(d) **Dia.80 mm brass plated floor drain low quality**
TOTAL QUANTITY OF WORK IT 1 Pc
LABOR DAILY OUTPUT: 1.25
EQUIPMENT DAILY OUT PUT: 1.25
RESULT: **218.65** Birr/Pc

Material Cost (1:01)					Labor (1:02)					Equipment Cos	
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	Indexed Hourly Cost	Daily Cost	Type of Equipment	No.

Dia.80 mm floor drain	pc	1.00	160.00	160.00					0	Hand tools	4
					Plumber	1	1	15.75	15.75		
					Chiseler	1	1	8.88	8.875		
					Helper	1	1	10.00	10		
Total (1:-01)				160.00	**Total (1:02)**				34.63	**Total (1:03)**	

A=Materials Unit Cos 160.00 Birr/Pc

B=Manpower Unit C 27.70 Birr/Pc

C=Equipment Unit Cost

Total of (1:02)

Daily Output

Total of (1:03)

Daily Output

Direct Cost of work item = A+B+C = ***191.80*** Birr/Pc

Overhead Cost: 8% 15.34 Birr/Pc

Profit Cost: 7% 13.43 Birr/Pc

Total : 218.65 Birr/Pc

Vat

Total unit cost: ***218.65*** Birr/Pc

Remark _____

UF: UTILIZATION FACTOR

*: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.

**: INCLUSIVE OF BENEFITS, TRAVEL SUBSIDES AND COST OF OVERTIME RELATED TO TARGETED OUTPUT.

0.375 Pc / hr
0.375 Pc / hr

t (1:03)	
Hourly Rental	*Hourly Cost*
1.28	*2.816*
	2.816

7.51 Birr/Pc

0.375 Pc / hr
0.375 Pc / hr

t (1:03)	
Hourly Rental	*Hourly Cost*
1.28	*2.816*
	2.816

7.51 Birr/Pc

0.375 Pc / hr
0.375 Pc / hr

t (1:03)	
Hourly Rental	*Hourly Cost*
1.28	*2.816*
	2.816

7.51 Birr/Pc

0.375 Pc / hr
0.375 Pc / hr

t (1:03)	
Hourly Rental	*Hourly Cost*
1.28	*2.816*
	2.816

7.51 Birr/Pc

0.375 Pc / hr
0.375 Pc / hr

t (1:03)	
Hourly Rental	Hourly Cost
1.28	2.816
	2.816

7.51 Birr/Pc

0.375 Pc / hr

0.375 Pc / hr

t (1:03)	
Hourly Rental	Hourly Cost
1.28	2.816
	2.816

7.51 Birr/Pc

0.3125 Pc / hr

0.3125 Pc / hr

t (1:03)	
Hourly Rental	Hourly Cost
1.28	5.12

	5.12

16.38 Birr/Pc

0.3125 Pc / hr
0.3125 Pc / hr

t (1:03)	
Hourly Rental	Hourly Cost
1.28	5.12
	5.12

16.38 Birr/Pc

0.3125 Pc / hr
0.3125 Pc / hr

t (1:03)	
Hourly Rental	Hourly Cost
1.28	5.12

	5.12

16.38 Birr/Pc

0.25 Pc / hr
0.25 Pc / hr

t (1:03)	
Hourly Rental	Hourly Cost
1.28	5.12
	5.12

20.48 Birr/Pc

0.25 Pc / hr
0.25 Pc / hr

t (1:03)	
Hourly Rental	Hourly Cost
1.28	5.12
	5.12

20.48 Birr/Pc

0.25 Pc / hr
0.25 Pc / hr

t (1:03)	
Hourly Rental	*Hourly Cost*
1.28	*5.12*
	5.12

20.48 Birr/Pc

0.25 Pc / hr
0.25 Pc / hr
Birr/Pc

t (1:03)	
Hourly Rental	*Hourly Cost*
1.28	*5.12*
	5.12

20.48 Birr/Pc

0.25 Pc / hr
0.25 Pc / hr

t (1:03)	
Hourly Rental	*Hourly Cost*
1.28	*5.12*
	5.12

20.48 Birr/Pc

0.25 Pc / hr
0.25 Pc / hr

t (1:03)	
Hourly Rental	*Hourly Cost*
1.28	*5.12*
	5.12

20.48 Birr/Pc

Pc / hr
Pc / hr

t (1:03)	
Hourly Rental	*Hourly Cost*
1.28	*5.12*
	5.12

81.92 Birr/Pc

0.0625 Pc / hr
0.0625 Pc / hr

t (1:03)	
Hourly Rental	*Hourly Cost*
1.28	*5.12*
	5.12

81.92 Birr/Pc

Pc / hr
Pc / hr

t (1:03)

Hourly Rental	Hourly Cost
1.28	5.12
	5.12

16.38 Birr/Pc

Pc / hr
Pc / hr

t (1:03)	
Hourly Rental	Hourly Cost
1.28	5.12
	5.12

5.85 Birr/Pc

0.875 Pc / hr
0.875 Pc / hr

t (1:03)	
Hourly Rental	Hourly Cost
1.28	5.12

	5.12

5.85 Birr/Pc

0.875 Pc / hr
0.875 Pc / hr

t (1:03)	
Hourly Rental	*Hourly Cost*
1.28	*5.12*
	5.12

5.85 Birr/Pc

Pc / hr
Pc / hr

t (1:03)	
Hourly Rental	*Hourly Cost*
1.28	*5.12*
	5.12

4.55 Birr/Pc

Pc / hr
Pc / hr

t (1:03)	
Hourly Rental	*Hourly Cost*
1.28	*5.12*
	5.12

5.85 Birr/Pc

Pc / hr
Pc / hr

t (1:03)	
Hourly Rental	*Hourly Cost*
1.28	*5.12*
	5.12

5.85 Birr/Pc

Pc / hr
Pc / hr

t (1:03)	
Hourly Rental	*Hourly Cost*
1.28	*10.24*
	10.24

27.31 Birr/Pc

Pc / hr
Pc / hr

t (1:03)	
Hourly Rental	*Hourly Cost*
1.28	*10.24*
	10.24

27.31 Birr/Pc

Pc / hr
Pc / hr

t (1:03)	
Hourly Rental	*Hourly Cost*
1.28	*10.24*
	10.24

40.96 Birr/Pc

Pc / hr
Pc / hr

t (1:03)	
Hourly Rental	*Hourly Cost*
1.28	*10.24*
	10.24

40.96 Birr/Pc

0.03125 Pc / hr
0.03125 Pc / hr

t (1:03)	
Hourly Rental	Hourly Cost
1.28	5.12
	5.12

163.8 Birr/Pc

Pc / hr
Pc / hr

t (1:03)	
Hourly Rental	Hourly Cost
1.28	5.12
	5.12

163.84 Birr/Pc

0.03125 Pc / hr
0.03125 Pc / hr

t (1:03)	
Hourly Rental	Hourly Cost
1.28	5.12

	5.12

163.8 Birr/Pc

0.03125 Pc / hr
0.03125 Pc / hr

t (1:03)	
Hourly Rental	*Hourly Cost*
1.28	*5.12*
	5.12

164 Birr/Pc

Pc / hr
Pc / hr

t (1:03)	
Hourly Rental	*Hourly Cost*
1.28	*5.12*

	5.12

20.48 Birr/Pc

Pc / hr
Pc / hr

t (1:03)	
Hourly Rental	*Hourly Cost*
1.28	*5.12*
	5.12

20.48 Birr/Pc

Pc / hr
Pc / hr

t (1:03)	
Hourly Rental	*Hourly Cost*
1.28	*5.12*
	5.12

20.48 Birr/Pc

Pc / hr
Pc / hr

t (1:03)	
Hourly Rental	*Hourly Cost*
1.28	*5.12*
15.00	*15*
	20.12

40.24 Birr/Pc

Pc / hr
Pc / hr

t (1:03)	
Hourly Rental	*Hourly Cost*
1.28	*5.12*
15.00	*15*
	20.12

107.31 Birr/Pc

Pc / hr
Pc / hr

t (1:03)	
Hourly Rental	*Hourly Cost*
1.28	*5.12*
15.00	*15*
	20.12

107.31 Birr/Pc

Pc / hr
Pc / hr

t (1:03)	
Hourly Rental	*Hourly Cost*
1.28	*5.12*
	5.12

4.14 Birr/Pc

1.2375 Pc / hr

1.2375 Pc / hr

t (1:03)	
Hourly Rental	*Hourly Cost*
1.28	*5.12*
	5.12

4.14 Birr/Pc

Pc / hr
Pc / hr

t (1:03)	
Hourly Rental	*Hourly Cost*
1.28	*5.12*
	5.12

4.10 Birr/Pc

Pc / hr
Pc / hr

t (1:03)	
Hourly Rental	*Hourly Cost*

1.28	*5.12*
	5.12

4.10 Birr/Pc

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: **SITE SANITARY WORK** — LABOR DAILY OUTPUT:

WORK ITEM:(15.1) **Supply and install Dia. 1/2" G.S.Pipe (Class -B)** — EQUIPMENT DAILY OUT PUT:

TOTAL QUANTITY OF WORK ITEM: 1 ml — RESULT: **47.40** Birr/r

Material Cost (1:01)					Labor (1:02)					Equipment	
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	Indexed hourly Cost	Daily Cost	Type of Equipment	No.
1/2" G.S.Pipe	ml	1.05	33.33	35.00	Forman	1	0.25	23.8	5.94	Hand tools	2
Fiber	kg	0.005	110.00	0.55	Plumber	1	1	15.8	15.75	Trader	1
Anti-rust	lt	0.03	51.75	1.55	D/L	1	1	10.0	10		
					Chiseler	1	1	8.88	8.88		
Total (1:-01)				37.10	**Total (1:02)**				40.56	**Total (1:03**	

A=Materials Unit Cost 37.10 Birr/ml — **B=Manpower Unit Cost** 2.70 Birr/ml — **C=Equipment Unit Cost**

Total of (1:02) / Daily Output — Total of (1:03) / Daily Output

Direct Cost of work item = A+B+C = **41.17** Birr/r

Overhead Cost: 8% 3.29 Birr/r

Profit Cost: 7% 3.11 Birr/r

Total : 47.40 Birr/r

Remark _____

UF: UTILIZATION FACTOR — **Total unit cost:** **47.40** Birr/r

*: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.

**: INCLUSIVE OF BENEFITS, TRAVEL SUBSIDES AND COST OF OVERTIME RELATED TO TARGETED OUTPUT.

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: **SITE SANITARY WORK** — LABOR DAILY OUTPUT:

WORK ITEM:(15.2) **Supply and install Dia. 3/4" G.S.Pipe (Class - B)** — EQUIPMENT DAILY OUT PUT:

TOTAL QUANTITY OF WORK ITEM: 1 ml — RESULT: **70** Birr/r

Material Cost (1:01)					Labor (1:02)					Equipment	
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	Indexed hourly Cost	Daily Cost	Type of Equipment	No.
3/4" G.S.Pipe	ml	1.05	50.00	52.50	Forman	1	0.25	23.8	5.9375	Hand tools	2
Fiber	Kg	0.005	110.00	0.55	Plumber	1	1	15.8	15.75	Trader	1
Anti-rust	lt	0.03	51.75	1.55	Helper	2	1	10.0	20		
Total (1:-01)				54.60	**Total (1:02)**				41.69	**Total (1:03**	

A=Materials Unit Cost 54.60 Birr/ml — **B=Manpower Unit Cost** 2.78 Birr/ml — **C=Equipment Unit Cost**

Total of (1:02) / Daily Output — Total of (1:03) / Daily Output

Direct Cost of work item = A+B+C = **60.89** Birr/r

Overhead Cost: 8% 4.87 Birr/r

Profit Cost: 7% 4.60 Birr/r

Total : 70.09 Birr/r

Remark _____

UF: UTILIZATION FACTOR — **Total unit cost:** **70.09** Birr/r

*: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.

**: INCLUSIVE OF BENEFITS, TRAVEL SUBSIDES AND COST OF OVERTIME RELATED TO TARGETED OUTPUT.

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: **SITE SANITARY WORK** — LABOR DAILY OUTPUT:

WORK ITEM:(15.3) **Supply and install Dia. 1" G.S.Pipe (Class - B)** — EQUIPMENT DAILY OUT PUT:

TOTAL QUANTITY OF WORK ITEM: 1 ml — RESULT: **82.18** Birr/r

Material Cost (1:01)					Labor (1:02)					Equipment	
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	Indexed hourly Cost	Daily Cost	Type of Equipment	No.
1" G.S.Pipe	ml	1.05	60.00	63.00	Forman	1	0.25	23.8	5.9375	Hand tools	2
Fiber	Kg	0.005	110.00	0.55	Plumber	1	1	15.8	15.75	Trader	1
Anti-rust	lt	0.03	51.75	1.55	Helper	2	1	10.0	20		
Total (1:-01)				65.10	**Total (1:02)**				41.69	**Total (1:03**	

A=Materials Unit Cost 65.10 Birr/ml **B=Manpower Unit Cost** 2.78 Birr/ml **C=Equipment Unit Cost**

Total of (1:02) Total of (1:03)

Daily Output Daily Output

Direct Cost of work item = A+B+C = **71.39** Birr/

Overhead Cost: 8% 5.71 Birr/

Profit Cost: 7% 5.40 Birr/

Total : 82.18 Birr/

Remark _____ Vat

UF: UTILIZATION FACTOR **Total unit cost:** **82.18** Birr/

*: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.

**: INCLUSIVE OF BENEFITS, TRAVEL SUBSIDES AND COST OF OVERTIME RELATED TO TARGETED OUTPUT.

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: **SITE SANITARY WORK** LABOR DAILY OUTPUT:

WORK ITEM:(15.4) **Supply and install Dia. 1 1/2" G.S.Pipe (Class -B)** EQUIPMENT DAILY OUT PUT:

TOTAL QUANTITY OF WORK ITEM: 1 ml RESULT: **152** Birr/

Material Cost (1:01)					Labor (1:02)					Equipment	
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	Indexed hourly Cost	Daily Cost	Type of Equipment	No.
1 1/2" G.S.Pipe	ml	1.05	116.67	122.50	Forman	1	0.25	23.8	5.9375	Hand tools	2
Fiber	Kg	0.005	110.00	0.55	Plumber	1	1	15.8	15.75	Trader	1
Anti-rust	lt	0.03	51.75	1.55	Helper	2	1	10.0	20		
Total (1:-01)				124.61	**Total (1:02)**				41.69	**Total (1:03**	

A=Materials Unit Cost 124.61 Birr/ml **B=Manpower Unit Cost** 3.34 Birr/ml **C=Equipment Unit Cost**

Total of (1:02) Total of (1:03)

Daily Output Daily Output

Direct Cost of work item = A+B+C = **132.15** Birr/

Overhead Cost: 8% 10.57 Birr/

Profit Cost: 7% 9.99 Birr/

Total : 152.13 Birr/

Remark _____ Vat

UF: UTILIZATION FACTOR **Total unit cost:** **152.13** Birr/

*: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.

**: INCLUSIVE OF BENEFITS, TRAVEL SUBSIDES AND COST OF OVERTIME RELATED TO TARGETED OUTPUT.

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: **SITE SANITARY WORK** LABOR DAILY OUTPUT:

WORK ITEM:(15.5) Supply and install Dia. 2" G.S.Pipe (Class - B) EQUIPMENT DAILY OUT PUT:

TOTAL QUANTITY OF WORK ITEM: 1 ml RESULT: **192** Birr/

Material Cost (1:01)					Labor (1:02)					Equipment	
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	Indexed hourly Cost	Daily Cost	Type of Equipment	No.
2" G.S.Pipe	ml	1.05	150.00	157.50	Forman	1	0.25	23.75	5.9375	Hand tools	2
Fiber	Kg	0.005	110.00	0.55	Plumber	1	1	15.75	15.75	Trader	1

Anti-rust	lt	0.03	51.75	1.55	Helper	2	1	10.00	20		
Total (1:-01)				159.60	**Total (1:02)**				41.69	**Total (1:03**	

A=Materials Unit Cost 159.60 Birr/ml **B=Manpower Unit Cost** 3.34 Birr/ml **C=Equipment Unit Cost**

Total of (1:02) Total of (1:03)

Daily Output Daily Output

Direct Cost of work item = A+B+C = **167.14** Birr/

Overhead Cost: 8% 13.37 Birr/

Profit Cost: 7% 12.64 Birr/

Total : 192.41 Birr/

Remark _____ Vat

UF: UTILIZATION FACTOR **Total unit cost:** **192.41** Birr/

*: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.

**: INCLUSIVE OF BENEFITS, TRAVEL SUBSIDES AND COST OF OVERTIME RELATED TO TARGETED OUTPUT.

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: **SITE SANITARY WORK** LABOR DAILY OUTPUT:

WORK ITEM:(15.11) **Supply and lay Diameter 10 cm concrete pipe** EQUIPMENT DAILY OUT PUT:

TOTAL QUANTITY OF WORK ITEM: 1 ml RESULT: **87.06** Birr/

Material Cost (1:01)					**Labor (1:02)**					**Equipment**	
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	Indexed hourly Cost	Daily Cost	Type of Equipment	No.
Concrete pipe	ml	1.05	55.00	57.75	Forman	1	0.25	23.75	5.9375	Hand tools	2
Cement	Kg	1.10	2.44	2.68	mason	1	1	8.63	8.625		
Sand	m³	0.003	474.32	1.42	Helper	3	1	10.00	30		
Red ash	m³	0.006	200.00	1.20							
Total (1:-01)				63.06	**Total (1:02)**				44.56	**Total (1:03**	

A=Materials Unit Cost 63.06 Birr/ml **B=Manpower Unit Cost** 11.88 Birr/ml **C=Equipment Unit Cost**

Total of (1:02) Total of (1:03)

Daily Output Daily Output

Direct Cost of work item = A+B+C = **75.62** Birr/

Overhead Cost: 8% 6.05 Birr/

Profit Cost: 7% 5.72 Birr/

Total : 87.06 Birr/

Remark _____ Vat

UF: UTILIZATION FACTOR **Total unit cost:** **87.06** Birr/

*: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.

**: INCLUSIVE OF BENEFITS, TRAVEL SUBSIDES AND COST OF OVERTIME RELATED TO TARGETED OUTPUT.

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: **SITE SANITARY WORK** LABOR DAILY OUTPUT:

WORK ITEM:(15.12) **Supply and lay Diameter 15 cm concrete pipe** EQUIPMENT DAILY OUT PUT:

TOTAL QUANTITY OF WORK ITEM: 1 ml RESULT: **108.95** Birr/

Material Cost (1:01)					**Labor (1:02)**					**Equipment**	
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	Indexed hourly Cost	Daily Cost	Type of Equipment	No.
Concrete pipe	ml	1.05	80.00	84.00	Forman	1	1	23.75	23.75	Hand tools	2
Cement	Kg	1.47		0.00	Plumber	1	1	15.75	15.75		
Sand	m³	0.004	474.32	1.90	Helper	1	1	10.00	10		
Red ash	m³	0.0105	200.00	2.10							
Total (1:-01)				88.00	**Total (1:02)**				49.50	**Total (1:03**	

A=Materials Unit Cost 88.00 Birr/ml **B=Manpower Unit Cost** 7.20 Birr/ml **C=Equipment Unit Cost**

Total of (1:02) Total of (1:03)

Daily Output Daily Output

Direct Cost of work item = A+B+C = **95.57** Birr/

Overhead Cost: 8% 7.65 Birr/

Profit Cost: 7% 6.69 Birr/

Total : 108.95 Birr/

Remark _____ Vat

UF: UTILIZATION FACTOR **Total unit cost:** **108.95** Birr/

*: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.

**: INCLUSIVE OF BENEFITS, TRAVEL SUBSIDES AND COST OF OVERTIME RELATED TO TARGETED OUTPUT.

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: **SITE SANITARY WORK** LABOR DAILY OUTPUT:

WORK ITEM:(15.15) Supply and lay Diameter 30 cm concrete pipe EQUIPMENT DAILY OUT PUT:

TOTAL QUANTITY OF WORK ITEM: 1 ml RESULT: **330.32** Birr/

Material Cost (1:01)					Labor (1:02)					Equipment	
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	Indexed hourly Cost	Daily Cost	Type of Equipment	No.
Concrete pipe	ml	1.05	120.00	126.00	Forman	1	1	23.75	23.75	Hand tools	2
Cement	Kg	2.58		0.00	plumber	1	1	15.75	15.75	Self-propelled crane	1
Sand	m³	0.0075	474.32	3.56	Helper	1	1	10.00	10		
Red ash	m³	0.0185	200.00	3.70	Equp.Ope	1	1	75.00	75.00		
Total (1:-01)				133.26	**Total (1:02)**				124.50	**Total (1:03**	

A=Materials Unit Cost 133.26 Birr/ml **B=Manpower Unit Cost** 24.29 Birr/ml **C=Equipment Unit Cost**

Total of (1:02) Total of (1:03)

Daily Output Daily Output

Direct Cost of work item = A+B+C = **289.76** Birr/

Overhead Cost: 8% 23.18 Birr/

Profit Cost: 7% 20.28 Birr/

Total : 330.32 Birr/

Remark _____ Vat

UF: UTILIZATION FACTOR **Total unit cost:** **330.32** Birr/

*: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.

**: INCLUSIVE OF BENEFITS, TRAVEL SUBSIDES AND COST OF OVERTIME RELATED TO TARGETED OUTPUT.

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: **SITE SANITARY WORK** LABOR DAILY OUTPUT:

WORK ITEM:(15.15) Supply and lay 1/2 Dia. 30 cm concrete pipe EQUIPMENT DAILY OUT PUT:

TOTAL QUANTITY OF WORK ITEM: 1 ml RESULT: **264.49** Birr/

Material Cost (1:01)					Labor (1:02)					Equipment	
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	Indexed hourly Cost	Daily Cost	Type of Equipment	No.
Concrete pipe	ml	1.05	65.00	68.25	Forman	1	1	23.75	23.75	Hand tools	2
Cement	Kg	2.58		0.00	plumber	1	1	15.75	15.75	Self-propelled crane	1
Sand	m³	0.0075	474.32	3.56	Helper	1	1	10.00	10		
Red ash	m³	0.0185	200.00	3.70	Equp.Ope	1	1	75.00	75		
Total (1:-01)				75.51	**Total (1:02)**				124.50	**Total (1:03**	

A=Materials Unit Cost 75.51 Birr/ml **B=Manpower Unit Cost** 24.29 Birr/ml **C=Equipment Unit Cost**

	Total of (1:02)		Total of (1:03)
	Daily Output		Daily Output
Direct Cost of work item = A+B+C =			**232.01** Birr/r
	Overhead Cost:	8%	18.56 Birr/r
	Profit Cost:	7%	16.24 Birr/r
	Total :		264.49 Birr/r
Remark _____	Vat		
UF: UTILIZATION FACTOR	**Total unit cost:**		**264.49** Birr/r

*: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.

**: INCLUSIVE OF BENEFITS, TRAVEL SUBSIDES AND COST OF OVERTIME RELATED TO TARGETED OUTPUT.

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: **SITE SANITARY WORK**

WORK ITEM:(15.21) Supply and lay Diameter 30 cm Reinforced concrete pipe

TOTAL QUANTITY OF WORK ITEM: 1 ml

LABOR DAILY OUTPUT:

EQUIPMENT DAILY OUT PUT:

RESULT: **417.32** Birr/r

Material Cost (1:01)					**Labor (1:02)**					**Equipment**	
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	Indexed hourly Cost	Daily Cost	Type of Equipment	No.
R. Concrete pipe	ml	1.05	194.00	203.70	Forman	1	1	23.75	23.75	Hand tools	2
Cement	Kg	2.58		0.00	plumber	1	1	8.63	8.625	Self-propelled crane	1
Sand	m³	0.0075	474.32	3.56	Helper	1	1	10.00	10		
Red ash	m³	0.0185	200.00	3.70	Equp.Ope	1	1	75.00	75		
Total (1:-01)				210.96	**Total (1:02)**				117.38	**Total (1:03**	

A=Materials Unit Cost 210.96 Birr/ml **B=Manpower Unit Cost** 22.90 Birr/ml **C=Equipment Unit Cost**

	Total of (1:02)		Total of (1:03)
	Daily Output		Daily Output
Direct Cost of work item = A+B+C =			**366.07** Birr/r
	Overhead Cost:	8%	29.29 Birr/r
	Profit Cost:	7%	25.62 Birr/r
	Total :		417.32 Birr/r
Remark _____	Vat		
UF: UTILIZATION FACTOR	**Total unit cost:**		**417.32** Birr/r

*: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.

**: INCLUSIVE OF BENEFITS, TRAVEL SUBSIDES AND COST OF OVERTIME RELATED TO TARGETED OUTPUT.

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: **SITE SANITARY WORK**

WORK ITEM:(15.22) **Supply and lay Diameter 40 cm Reinforced concrete pipe**

TOTAL QUANTITY OF WORK ITEM: 1 ml

LABOR DAILY OUTPUT:

EQUIPMENT DAILY OUT PUT:

RESULT: **578** Birr/r

Material Cost (1:01)					**Labor (1:02)**					**Equipment**	
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	Indexed hourly Cost	Daily Cost	Type of Equipment	No.
R. Concrete pipe	ml	1.05	294.00	308.70	Forman	1	1	23.75	23.75	Hand tools	2
Cement	Kg	3.31		0.00	plumber	1	1	15.75	15.75	Self-propelled crane	1
Sand	m³	0.01	474.32	4.74	Helper	1	1	10.00	10		
Red ash	m³	0.0235	200.00	4.70	Equp.Ope	1	1	75.00	75		
Total (1:-01)				318.14	**Total (1:02)**				124.50	**Total (1:03**	

A=Materials Unit Cost 318 Birr/ml **B=Manpower Unit Cost** 29.29 Birr/ml **C=Equipment Unit Cost**

	Total of (1:02)		Total of (1:03)
	Daily Output		Daily Output
Direct Cost of work item = A+B+C =			**506.86** Birr/r

Overhead Cost:	8%	40.55	Birr/r
Profit Cost:	7%	35.48	Birr/r
Total :		577.82	Birr/r
Vat			
Total unit cost:		**577.82**	Birr/r

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 COSTS

PROJECT: **SITE SANITARY WORK**

WORK ITEM:(15.23) **Supply and lay Diameter 50 cm Reinforced concrete pipe**

TOTAL QUANTITY OF WORK ITEM: 1 ml

LABOR DAILY OUTPUT:

EQUIPMENT DAILY OUT PUT:

RESULT: **701** Birr/r

Material Cost (1:01)					Labor (1:02)					Equipment	
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	Indexed hourly Cost	Daily Cost	Type of Equipment	No.
R. Concrete pipe	ml	1.05	314.00	329.70	Forman	1	1	23.75	23.75	Hand tools	2
Cement	Kg	3.68		0.00	plumber	1	1	15.75	15.75	Self-propelled crane	1
Sand	m^3	0.0105	474.32	4.98	Helper	3	1	10.00	30		
Red ash	m^3	0.029	200.00	5.80	Equp.Ope	1	1	75.00	75		
Total (1:-01)				340.48	**Total (1:02)**				144.50	**Total (1:03**	

A=Materials Unit Cost 340 Birr/ml

B=Manpower Unit Cost 48.17 Birr/ml

C=Equipment Unit Cost

Total of (1:02) / Daily Output

Total of (1:03) / Daily Output

Direct Cost of work item = A+B+C =		**614.50** Birr/r
Overhead Cost:	8%	49.16 Birr/r
Profit Cost:	7%	43.02 Birr/r
Total :		700.53 Birr/r
Vat		
Total unit cost:		**700.53** Birr/r

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 COSTS

PROJECT: **SITE SANITARY WORK**

WORK ITEM:(15.28) **Polyethylene water tank 750 lt capacity**

TOTAL QUANTITY OF WORK ITEM: 1 Pc

LABOR DAILY OUTPUT:

EQUIPMENT DAILY OUT PUT:

RESULT: **2966.3** Birr/p

Material Cost (1:01)					Labor (1:02)					Equipment	
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	Indexed hourly Cost	Daily Cost	Type of Equipment	No.
Water tank	No.	1.00	2210.00	2210.00	Forman	1	0.25	23.75	5.9375	Hand tools	2
Fittings (out let and inlate)	No.	6.00	9.00	54.00	plumber	1	1	15.75	15.75		
Float valve 3/4"	No.	1.00	85.00	85.00	Helper	3	1	10.00	30		
Fiber	kg	0.05	110.00	5.50							
Antirust	lt	0.10	51.75	5.18							
Total (1:-01)				2359.68	**Total (1:02)**				51.69	**Total (1:03**	

A=Materials Unit Cost 2359.7 Birr/pc

B=Manpower Unit Cost 206.75 Birr/pc

C=Equipment Unit Cost

Total of (1:02) / Daily Output

Total of (1:03) / Daily Output

Direct Cost of work item = A+B+C =		**2576.67** Birr/p
Overhead Cost:	8%	206.13 Birr/p
Profit Cost:	7%	194.80 Birr/p
Total :		2966.26 Birr/p
Vat		

Remark _____

UF: UTILIZATION FACTOR **Total unit cost:** **2966.26** Birr/p

*: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.

**: INCLUSIVE OF BENEFITS, TRAVEL SUBSIDES AND COST OF OVERTIME RELATED TO TARGETED OUTPUT.

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: **SITE SANITARY WORK** LABOR DAILY OUTPUT:

WORK ITEM:(15.29) **Polyethylene water tank 1000 lt capacity** EQUIPMENT DAILY OUT PUT:

TOTAL QUANTITY OF WORK ITEM: 1 Pc RESULT: **4715.40** Birr/p

Material Cost (1:01)					Labor (1:02)					Equipment	
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	Indexed hourly Cost	Daily Cost	Type of Equipment	No.
Water tank	No.	1.00	3250.00	3250.00	Forman	1	0.25	23.75	5.9375	Hand tools	2
Fittings (out let and inlate)	No.	6.00	9.00	54.00	plumber	1	1	15.75	15.75		
Float valve 3/4"	No.	1.00	85.00	85.00	Helper	3	1	10.00	30		
Fiber	kg	0.05	110.00	5.50							
Antirust	lt	0.10	51.75	5.18							
Total (1:-01)				3399.68	**Total (1:02)**				51.69	**Total (1:03**	

A=Materials Unit Cost 3400 Birr/pc **B=Manpower Unit Cost** 413.50 Birr/pc **C=Equipment Unit Cost**

Total of (1:02) Total of (1:03)

Daily Output Daily Output

Direct Cost of work item = A+B+C = **3833.66** Birr/p

Overhead Cost: 15% 575.05 Birr/p

Profit Cost: 10% 440.87 Birr/p

Total : 4715.40 Birr/p

Remark _____ Vat

UF: UTILIZATION FACTOR **Total unit cost:** **4715.40** Birr/p

*: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.

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ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: **SITE SANITARY WORK** LABOR DAILY OUTPUT:

WORK ITEM:(15.31) Polyethylene water tank 2000 lt capacity EQUIPMENT DAILY OUT PUT:

TOTAL QUANTITY OF WORK ITEM: 1 Pc RESULT: **6669.96** Birr/p

Material Cost (1:01)					Labor (1:02)					Equipment	
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	Indexed hourly Cost	Daily Cost	Type of Equipment	No.
Water tank	No.	1.0	5590.0	5590.0	Forman	1	0.25	23.8	5.9375	Hand tools	2
Fittings (out let and inlate)	No.	6.0	9.00	54.00	plumber	1	1	15.8	15.75		
Float valve 3/4"	No.	1.0	85.00	85.00	Helper	3	1	10.0	30		
Fiber	kg	0.1	110.00	5.50							
Antirust	lt	0.1	51.75	5.18							
Total (1:-01)				5739.68	**Total (1:02)**				51.69	**Total (1:03**	

A=Materials Unit Cost 5740 Birr/pc **B=Manpower Unit Cost** 51.69 Birr/pc **C=Equipment Unit Cost**

Total of (1:02) Total of (1:03)

Daily Output Daily Output

Direct Cost of work item = A+B+C = **5793.92** Birr/p

Overhead Cost: 8% 463.51 Birr/p

Profit Cost: 7% 438.02 Birr/p

Total : 6669.96 Birr/p

Remark _____ Vat

UF: UTILIZATION FACTOR **Total unit cost:** **6669.96** Birr/p

*: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.

**: INCLUSIVE OF BENEFITS, TRAVEL SUBSIDES AND COST OF OVERTIME RELATED TO TARGETED OUTPUT.

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: **SITE SANITARY WORK** — LABOR DAILY OUTPUT:
WORK ITEM:(15.35) Polyethylene water tank 5000 lt capacity — EQUIPMENT DAILY OUT PUT:
TOTAL QUANTITY OF WORK ITEM: 1 Pc — RESULT: **8436.75** Birr/

Material Cost (1:01)					Labor (1:02)					Equipment	
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	Indexed hourly Cost	Daily Cost	Type of Equipment	No.
Water tank	No.	1.0	6500.0	6500.0	Forman	1	0.25	23.8	5.9375	Hand tools	2
Fittings (out let and inlate)	No.	6.0	9.00	54.00	plumber	1	1	15.8	15.75		
Float valve 1 1/2"	No.	1.0	330.00	330.00	Helper	3	1	10.0	30		
Fiber	kg	0.1	110.00	5.50							
Antirust	lt	0.1	51.75	5.18							
Total (1:-01)				6894.68	**Total (1:02)**				51.69	**Total (1:03**	

A=Materials Unit Cost 6895 Birr/pc — **B=Manpower Unit Cost** 413.50 Birr/pc — **C=Equipment Unit Cost**
Total of (1:02) — Total of (1:03)
Daily Output — Daily Output
Direct Cost of work item = A+B+C = **7328.66** Pc/ D
Overhead Cost: 8% 586.29 Pc/ D
Profit Cost: 7% 554.05 Pc/ D
Total : 8436.75 Pc/ D
Remark _____ — Vat
UF: UTILIZATION FACTOR — **Total unit cost:** **8436.75** Pc/ D

*: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.
**: INCLUSIVE OF BENEFITS, TRAVEL SUBSIDES AND COST OF OVERTIME RELATED TO TARGETED OUTPUT.

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: **SITE SANITARY WORK** — LABOR DAILY OUTPUT:
WORK ITEM:(15.42) **Fiber glass water tank 500 lt capacity** — EQUIPMENT DAILY OUT PUT:
TOTAL QUANTITY OF WORK ITEM: 1 Pc — RESULT: **3585.60** Birr/

Material Cost (1:01)					Labor (1:02)					Equipment	
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	Indexed hourly Cost	Daily Cost	Type of Equipment	No.
Water tank	No.	1.00	2800.0	2800.0	Forman	1	0.25	23.8	5.9375	Hand tools	2
Fittings (out let and inlate)	No.	6.00	9.00	54.00	plumber	1	1	15.8	15.75		
Float valve 1/2"	No.	1.00	33.00	33.00	Helper	3	1	10.0	30		
Fiber	kg	0.05	110.00	5.50							
Antirust	lt	0.10	51.75	5.18							
Total (1:-01)				2897.68	**Total (1:02)**				51.69	**Total (1:03**	

A=Materials Unit Cost 2897.7 Birr/pc — **B=Manpower Unit Cost** 206.75 Birr/pc — **C=Equipment Unit Cost**
Total of (1:02) — Total of (1:03)
Daily Output — Daily Output
Direct Cost of work item = A+B+C = **3114.67** Birr/
Overhead Cost: 8% 249.17 Birr/
Profit Cost: 7% 235.47 Birr/
Total : 3585.60 Birr/
Remark _____ — Vat
UF: UTILIZATION FACTOR — **Total unit cost:** **3585.60** Birr/

*: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.
**: INCLUSIVE OF BENEFITS, TRAVEL SUBSIDES AND COST OF OVERTIME RELATED TO TARGETED OUTPUT.

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: **SITE SANITARY WORK** — LABOR DAILY OUTPUT:
WORK ITEM:(15.43) Fiber glass water tank 1000 lt capacity — EQUIPMENT DAILY OUT PUT:
TOTAL QUANTITY OF WORK ITEM: 1 Pc — RESULT: **3944.93** Birr/

Material Cost (1:01)					Labor (1:02)					Equipment	
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	Indexed hourly Cost	Daily Cost	Type of Equipment	No.
Water tank	No.	1.00	3250.0	3250.0	Forman	1	0.25	23.75	5.9375	Hand tools	2
Fittings (out let and inlate)	No.	6.00	9.00	54.00	plumber	1	1	15.75	15.75		
Float valve 3/4"	No.	1.00	85.00	85.00	Helper	3	1	10.00	30		
Fiber	kg	0.05	110.00	5.50							
Antirust	lt	0.10	51.75	5.18							
Total (1:-01)				3399.68	**Total (1:02)**				51.69	**Total (1:03**	

A=Materials Unit Cost 3400 Birr/pc **B=Manpower Unit Cost** 25.84 Birr/pc **C=Equipment Unit Cost**

Total of (1:02) Total of (1:03)

Daily Output Daily Output

Direct Cost of work item = A+B+C = **3426.80** Birr/

Overhead Cost: 8% 274.14 Birr/

Profit Cost: 7% 259.07 Birr/

Total : 3944.93 Birr/

Remark _____ Vat

UF: UTILIZATION FACTOR **Total unit cost:** **3944.93** Birr/

*: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.

**: INCLUSIVE OF BENEFITS, TRAVEL SUBSIDES AND COST OF OVERTIME RELATED TO TARGETED OUTPUT.

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: **SITE SANITARY WORK** LABOR DAILY OUTPUT:

WORK ITEM:(15.45) **Fiber glass water tank 2000 lt capacity** EQUIPMENT DAILY OUT PUT:

TOTAL QUANTITY OF WORK ITEM: _ 1 Pc RESULT: **8768.30** Birr/

Material Cost (1:01)					Labor (1:02)					Equipment	
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	Indexed hourly Cost	Daily Cost	Type of Equipment	No.
Water tank	No.	1.00	7250.00	7250.00	Forman	1	0.25	23.75	5.9375	Hand tools	2
Fittings (out let and inlate)	No.	6.00	9.00	54.00	plumber	1	1	15.75	15.75		
Float valve 3/4"	No.	1.00	85.00	85.00	Helper	3	1	10.00	30		
Fiber	kg	0.05	110.00	5.50							
Antirust	lt	0.10	51.75	5.18							
Total (1:-01)				7399.68	**Total (1:02)**				51.69	**Total (1:03**	

A=Materials Unit Cost 7399.7 Birr/pc **B=Manpower Unit Cost** 206.75 Birr/pc **C=Equipment Unit Cost**

Total of (1:02) Total of (1:03)

Daily Output Daily Output

Direct Cost of work item = A+B+C = **7616.67** Birr/

Overhead Cost: 8% 609.33 Birr/

Profit Cost: 7% 575.82 Birr/

Total : 8768.30 Birr/

Remark _____ Vat

UF: UTILIZATION FACTOR **Total unit cost:** **8768.30** Birr/

*: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.

**: INCLUSIVE OF BENEFITS, TRAVEL SUBSIDES AND COST OF OVERTIME RELATED TO TARGETED OUTPUT.

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: **SITE SANITARY WORK** LABOR DAILY OUTPUT:

WORK ITEM:(15.48) **Fiber glass water tank 5000 lt capacity** EQUIPMENT DAILY OUT PUT:

TOTAL QUANTITY OF WORK ITEM: _ 1 Pc RESULT: **10431.8** Birr/

Material Cost (1:01)					Labor (1:02)					Equipment	
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	Indexed hourly Cost	Daily Cost	Type of Equipment	No.
Water tank	No.	1.0	8450.0	8450.00	Forman	1	0.25	23.8	5.9375	Hand tools	2

Fittings (out let and inlate)	No.	6.0	9.00	54.00	plumber	1	1	15.8	15.75		
Float valve 1 1/2"	No.	1.0	330.00	330.00	Helper	3	1	10.0	30		
Fiber	kg	0.1	110.00	5.50							
Antirust	lt	0.1	51.75	5.18							
Total (1:-01)				8844.68	**Total (1:02)**				51.69	**Total (1:03**	

A=Materials Unit Cost 8845 Birr/pc **B=Manpower Unit Cost** 206.75 Birr/pc **C=Equipment Unit Cost**

Total of (1:02) Total of (1:03)

Daily Output Daily Output

Direct Cost of work item = A+B+C = **9061.66** Pc/ D

Overhead Cost: 8% 724.93 Pc/ D

Profit Cost: 7% 685.06 Pc/ D

Total : 10431.79 Pc/ D

Remark _____ Vat

UF: UTILIZATION FACTOR **Total unit cost:** **10432** Pc/ D

*: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.

**: INCLUSIVE OF BENEFITS, TRAVEL SUBSIDES AND COST OF OVERTIME RELATED TO TARGETED OUTPUT.

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: **SITE SANITARY WORK** LABOR DAILY OUTPUT:

WORK ITEM:(15.50) **Supply and install Dia. 1/2" gate valve** EQUIPMENT DAILY OUT PUT:

TOTAL QUANTITY OF WORK ITEM: 1 Pc RESULT: **115.54** Birr/

Material Cost (1:01)					**Labor (1:02)**					**Equipment**	
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	Indexed hourly Cost	Daily Cost	Type of Equipment	No.
1/2" Gate valve	pc	1.00	80.00	80.00	Forman	1	0.25	23.75	5.9375	Hand tools	2
Fiber	kg	0.005	110.00	0.55	Plumber	1	1	15.75	15.75		
Anti-rust	lt	0.03	51.75	1.55	Helper	1	1	10.00	10		
Total (1:-01)				82.10	**Total (1:02)**				31.69	**Total (1:03**	

A=Materials Unit Cost 82.10 Birr/Pc **B=Manpower Unit Cost** 16.90 Birr/Pc **C=Equipment Unit Cost**

Total of (1:02) Total of (1:03)

Daily Output Daily Output

Direct Cost of work item = A+B+C = **100.37** Birr/

Overhead Cost: 8% 8.03 Birr/

Profit Cost: 7% 7.59 Birr/

Total : 115.54 Birr/

Remark _____

UF: UTILIZATION FACTOR **Total unit cost:** **115.54** Birr/

*: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.

**: INCLUSIVE OF BENEFITS, TRAVEL SUBSIDES AND COST OF OVERTIME RELATED TO TARGETED OUTPUT.

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: **SITE SANITARY WORK** LABOR DAILY OUTPUT:

WORK ITEM:(15.51) **Supply and install Dia. 3/4" gate valve** EQUIPMENT DAILY OUT PUT:

TOTAL QUANTITY OF WORK ITEM: 1 Pc RESULT: **127.06** Birr/

Material Cost (1:01)					**Labor (1:02)**					**Equipment**	
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	Indexed hourly Cost	Daily Cost	Type of Equipment	No.
3/4" Gate valve	pc	1.00	90.00	90.00	Forman	1	0.25	23.75	5.9375	Hand tools	2
Fiber	kg	0.005	110.00	0.55	Plumber	1	1	15.75	15.75		
Anti-rust	lt	0.03	51.75	1.55	Helper	1	1	10.00	10		

Total (1:-01)				92.10	**Total (1:02)**				31.69	**Total (1:03**	

A=Materials Unit Cost 92.10 Birr/Pc **B=Manpower Unit Cost** 16.90 Birr/Pc **C=Equipment Unit Cost**

Total of (1:02) Total of (1:03)

Daily Output Daily Output

Direct Cost of work item = A+B+C = **110.37** Birr/

Overhead Cost: 8% 8.83 Birr/

Profit Cost: 7% 8.34 Birr/

Total : 127.06 Birr/

Remark _____

UF: UTILIZATION FACTOR **Total unit cost:** **127.06** Birr/

*: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.

**: INCLUSIVE OF BENEFITS, TRAVEL SUBSIDES AND COST OF OVERTIME RELATED TO TARGETED OUTPUT.

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: **SITE SANITARY WORK** LABOR DAILY OUTPUT:

WORK ITEM:(15.52) **Supply and install Dia. 1" gate valve** EQUIPMENT DAILY OUT PUT:

TOTAL QUANTITY OF WORK ITEM: 1 Pc RESULT: **212.90** Birr/

Material Cost (1:01)					**Labor (1:02)**					**Equipment**	
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	Indexed hourly Cost	Daily Cost	Type of Equipment	No.
1" Gate valve	pc	1.00	160.00	160.00	Forman	1	0.25	23.75	5.9375	Hand tools	2
Fiber	kg	0.005	110.00	0.55	Plumber	1	1	15.75	15.75		
Anti-rust	lt	0.03	51.75	1.55	Helper	1	1	10.00	10		
Total (1:-01)				162.10	**Total (1:02)**				31.69	**Total (1:03**	

A=Materials Unit Cost 162.10 Birr/Pc **B=Manpower Unit Cost** 21.13 Birr/Pc **C=Equipment Unit Cost**

Total of (1:02) Total of (1:03)

Daily Output Daily Output

Direct Cost of work item = A+B+C = **184.93** Birr/

Overhead Cost: 8% 14.79 Birr/

Profit Cost: 7% 13.98 Birr/

Total : 212.90 Birr/

Remark _____ Vat

UF: UTILIZATION FACTOR **Total unit cost:** **212.90** Birr/

*: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.

**: INCLUSIVE OF BENEFITS, TRAVEL SUBSIDES AND COST OF OVERTIME RELATED TO TARGETED OUTPUT.

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: **SITE SANITARY WORK** LABOR DAILY OUTPUT:

WORK ITEM:(15.53) **Supply and install Dia. 1 1/2" gate valve** EQUIPMENT DAILY OUT PUT:

TOTAL QUANTITY OF WORK ITEM: 1 Pc RESULT: **385.58** Birr/

Material Cost (1:01)					**Labor (1:02)**					**Equipment**	
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	Indexed hourly Cost	Daily Cost	Type of Equipment	No.
1 1/2" Gate valve	pc	1.00	310.00	310.00	Forman	1	0.25	23.75	5.9375	Hand tools	2
Fiber	kg	0.005	110.00	0.55	Plumber	1	1	15.75	15.75		
Anti-rust	lt	0.03	51.75	1.55	Helper	1	1	10.00	10		
Total (1:-01)				312.10	**Total (1:02)**				31.69	**Total (1:03**	

A=Materials Unit Cost 312.10 Birr/Pc **B=Manpower Unit Cost** 21.13 Birr/Pc **C=Equipment Unit Cost**

Total of (1:02) Total of (1:03)

Daily Output Daily Output

Direct Cost of work item = A+B+C =			**334.93** Birr/I
Overhead Cost:	8%		26.79 Birr/I
Profit Cost:	7%		25.32 Birr/I
Total :			385.58 Birr/I
Vat			
Total unit cost:			**385.58** Birr/I

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 COSTS

PROJECT: **SITE SANITARY WORK**

WORK ITEM:(15.54) **Supply and install Dia. 2" gate valve**

TOTAL QUANTITY OF WORK ITEM: 1 Pc

LABOR DAILY OUTPUT:

EQUIPMENT DAILY OUT PUT:

RESULT: **552.00** Birr/I

Material Cost (1:01)					**Labor (1:02)**					**Equipment**	
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	Indexed hourly Cost	Daily Cost	Type of Equipment	No.
2" Gate valve	pc	1.00	450.00	450.00	Forman	1	0.25	23.75	5.9375	Hand tools	2
Fiber	kg	0.005	110.00	0.55	Plumber	1	1	15.75	15.75		
Anti-rust	lt	0.03	51.75	1.55	Helper	1	1	10.00	10		
Total (1:-01)				452.10	**Total (1:02)**				31.69	**Total (1:03**	

A=Materials Unit Cost 452.10 Birr/Pc

B=Manpower Unit Cost 25.35 Birr/Pc

Total of (1:02)

Daily Output

C=Equipment Unit Cost

Total of (1:03)

Daily Output

Direct Cost of work item = A+B+C =			**479.50** Birr/I
Overhead Cost:	8%		38.36 Birr/I
Profit Cost:	7%		36.25 Birr/I
Total :			552.00 Birr/I
Vat			
Total unit cost:			**552.00** Birr/I

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 COSTS

PROJECT: **SITE SANITARY WORK**

WORK ITEM:(15.54) **Pit latrin**

TOTAL QUANTITY OF WORK ITEM: 1 Pc

LABOR DAILY OUTPUT:

EQUIPMENT DAILY OUT PUT:

RESULT: **8150.42** Birr/I

Material Cost (1:01)					**Labor (1:02)**					**Equipment**	
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	Indexed hourly Cost	Daily Cost	Type of Equipment	No.
Excavation	m³	25.70	66.63	1712.41	Forman	1	0.25	23.75	5.94	Hand tools	2
Cart away	m³	25.7	54.07	1389.54	Mason	2	1	18.75	37.5		
Batten 8x10cm	ml	21	60.00	1260.00	DL	4	1	8.75	35		
Timber Cover	m²	9	230.00	2070.00							
Total (1:-01)				6431.95	**Total (1:02)**				78.44	**Total (1:03**	

A=Materials Unit Cost 6432.0 Birr/Pc

B=Manpower Unit Cost 627.50 Birr/Pc

Total of (1:02)

Daily Output

C=Equipment Unit Cost

Total of (1:03)

Daily Output

Direct Cost of work item = A+B+C =			**7079.93** Birr/I
Overhead Cost:	8%		566.39 Birr/I
Profit Cost:	7%		535.24 Birr/I
Total :			8150.42 Birr/I
Vat			
Total unit cost:			**8150.42** Birr/I

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 COSTS

PROJECT: **SITE SANITARY WORK** LABOR DAILY OUTPUT:
WORK ITEM:(15.54) **Pit latrin** EQUIPMENT DAILY OUT PUT:
TOTAL QUANTITY OF WORK ITEM: 1 Pc RESULT: **16782.57** Birr/

Material Cost (1:01)					**Labor (1:02)**					**Equipment**	
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	Indexed hourly Cost	Daily Cost	Type of Equipment	No.
Excavation	m³	25.70	66.63	1712.41	Forman	1	0.25	23.75	5.94	Hand tools	2
Cart away	m³	25.7	54.07	1389.54	Mason	2	1	8.63	17.25		
Batten 8x10cm	ml	21	60.00	1260.00	DL	4	1	6.38	25.5		
Stone	m²	30	311.13	9333.90							
Timber Cover	m²	9	52.50	472.50							
Total (1:-01)				14168.35	**Total (1:02)**				48.69	**Total (1:03**	

A=Materials Unit Cost 14168 Birr/Pc **B=Manpower Unit Cost** 389.50 Birr/Pc **C=Equipment Unit Cost**
Total of (1:02) Total of (1:03)
Daily Output Daily Output
Direct Cost of work item = A+B+C = **14578.33** Birr/
Overhead Cost: 8% 1166.27 Birr/
Profit Cost: 7% 1102.12 Birr/
Total : 16782.57 Birr/
Remark _____ Vat
UF: UTILIZATION FACTOR **Total unit cost:** **16782.6** Birr/
*: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.
**: INCLUSIVE OF BENEFITS, TRAVEL SUBSIDES AND COST OF OVERTIME RELATED TO TARGETED OUTPUT.

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: **SITE SANITARY WORK** LABOR DAILY OUTPUT:
WORK ITEM:(15.54) **Stone masonary septi tank with RC Slab** EQUIPMENT DAILY OUT PUT:
TOTAL QUANTITY OF WORK ITEM: 1 Pc RESULT: **16139.45** Birr/

Material Cost (1:01)					**Labor (1:02)**					**Equipment**	
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	Indexed hourly Cost	Daily Cost	Type of Equipment	No.
Excavation	m³	25.70	66.63	1712.41	Forman	1	0.25	23.75	5.94	Hand tools	2
Cart away	m³	25.7	54.07	1389.54	Mason	2	1	8.63	17.25		
Stone	m²	30	311.13	9333.90	DL	4	1	6.38	25.5		
Slab	m²	9	130.43	1173.84							
Total (1:-01)				13609.69	**Total (1:02)**				48.69	**Total (1:03**	

A=Materials Unit Cost 13610 Birr/Pc **B=Manpower Unit Cost** 389.50 Birr/Pc **C=Equipment Unit Cost**
Total of (1:02) Total of (1:03)
Daily Output Daily Output
Direct Cost of work item = A+B+C = **14019.67** Birr/
Overhead Cost: 8% 1121.57 Birr/
Profit Cost: 7% 1059.89 Birr/
Total : 16139.45 Birr/
Remark _____ Vat
UF: UTILIZATION FACTOR **Total unit cost:** **16139.4** Birr/
*: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.
**: INCLUSIVE OF BENEFITS, TRAVEL SUBSIDES AND COST OF OVERTIME RELATED TO TARGETED OUTPUT.

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: **SITE SANITARY WORK** LABOR DAILY OUTPUT:

WORK ITEM:(15.54) **Manhole 70x70x60cm**

TOTAL QUANTITY OF WORK ITEM: 1 Pc

EQUIPMENT DAILY OUT PUT:

RESULT: **#NAME?** Birr/

Material Cost (1:01)					Labor (1:02)					Equipment	
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	Indexed hourly Cost	Daily Cost	Type of Equipment	No.
Excavation	m³	1.69	66.63	112.44	Forman	1	0.25	23.75	5.94	Hand tools	2
Cart away	m³	1.69	54.07	91.24	Mason	1	1	8.63	8.625		
Lean concrete	m²	0.11	73.31	8.25	DL	2	1	6.38	12.75		
Mass concrete	m³	0.23	474.87	106.85	Bar binder	1	1	7.25	7.25		
Brick	m²	2.28	#NAME?	#NAME?							
R.C.Cover	m³	0.0343	2337.91	80.19							
Form work	m²	0.154	52.5	8.08							
Rei. Bar Ø8mm	kg	2.6	1.50	3.91							
Total (1:-01)				#NAME?	**Total (1:02)**				34.56	**Total (1:03**	

A=Materials Unit Cost #NAME? Birr/Pc **B=Manpower Unit Cost** 34.56 Birr/Pc **C=Equipment Unit Cost**

Total of (1:02) Total of (1:03)

Daily Output Daily Output

Direct Cost of work item = A+B+C = **#NAME?** Birr/

Overhead Cost: 8% #NAME? Birr/

Profit Cost: 7% #NAME? Birr/

Total : #NAME? Birr/

Remark _____ Vat

UF: UTILIZATION FACTOR **Total unit cost:** **#NAME?** Birr/

*: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.

**: INCLUSIVE OF BENEFITS, TRAVEL SUBSIDES AND COST OF OVERTIME RELATED TO TARGETED OUTPUT.

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: **SITE SANITARY WORK**

LABOR DAILY OUTPUT:

WORK ITEM:(15.54) **R.C.Cover 70x70x7cm**

EQUIPMENT DAILY OUT PUT:

TOTAL QUANTITY OF WORK ITEM: 1 Pc

RESULT: **121.03** Birr/

Material Cost (1:01)					Labor (1:02)					Equipment	
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	Indexed hourly Cost	Daily Cost	Type of Equipment	No.
R.C.Cover	m³	0.0343	2337.91	80.19	Forman	1	0.1	23.75	2.375	Hand tools	1
Form work	m²	0.154	52.5	8.08	Mason	1	1	8.63	8.625		
Rei. Bar Ø8mm	kg	2.6	1.50	3.91	DL	1	1	6.38	6.375		
					Bar bender	1	1	7.25	7.25		
Total (1:-01)				92.18	**Total (1:02)**				24.63	**Total (1:03**	

A=Materials Unit Cost 92.2 Birr/Pc **B=Manpower Unit Cost** 12.31 Birr/Pc **C=Equipment Unit Cost**

Total of (1:02) Total of (1:03)

Daily Output Daily Output

Direct Cost of work item = A+B+C = **105.14** Birr/

Overhead Cost: 8% 8.41 Birr/

Profit Cost: 7% 7.95 Birr/

Total : 121.03 Birr/

Remark _____ Vat

UF: UTILIZATION FACTOR **Total unit cost:** **121.03** Birr/

*: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.

**: INCLUSIVE OF BENEFITS, TRAVEL SUBSIDES AND COST OF OVERTIME RELATED TO TARGETED OUTPUT.

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: **SITE SANITARY WORK**

LABOR DAILY OUTPUT:

WORK ITEM:(15.23) **250mm UPVC Sewerage Pipe installation**

EQUIPMENT DAILY OUT PUT:

TOTAL QUANTITY OF WORK ITEM: 1 ml

RESULT: **150** Birr/

Average 1.50m excavation depth is considered

Material Cost (1:01)					Labor (1:02)					Equipment	
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	Indexed hourly Cost	Daily Cost	Type of Equipment	No.

Dia.250 UPVC Pipe	*ml*	*1.05*	*0.00*	*0.00*	*Forman*	*1*	*0.25*	*23.75*	*5.9375*	*Hand tools*	*2*
Excavation	*m³*	*0.50*	*156.03*	*78.01*	*mason*	*1*	*1*	*8.63*	*8.625*		
Backfill	*m³*	*0.4*	*46.64*	*18.66*	*Helper*	*2*	*1*	*6.38*	*12.75*		
Red ash	*m³*	*0.02*	*217.38*	*4.35*							
Warming Pipe	ml	1.05	20	21							
Total (1:-01)				*122.02*	***Total (1:02)***				*27.31*	***Total (1:03)***	

A=Materials Unit Cost *122 Birr/ml*

B=Manpower Unit Cost *9.10 Birr/ml*

C=Equipment Unit Cost

Total of (1:02)

Daily Output

Total of (1:03)

Daily Output

Direct Cost of work item = A+B+C = ***131.98*** *Birr/m*

Overhead Cost: *8%* *10.56 Birr/m*

Profit Cost: *7%* *9.24 Birr/m*

Total : *150.45 Birr/m*

Vat

Total unit cost: ***150.45*** *Birr/m*

Remark _____

UF: UTILIZATION FACTOR

**: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.*

***: INCLUSIVE OF BENEFITS, TRAVEL SUBSIDES AND COST OF OVERTIME RELATED TO TARGETED OUTPUT.*

15 ml / hr
15 ml / hr
ml

Cost (1:03)	
Hourly Rental	Hourly Cost
1	2.56
18	18
)	20.56

1.37 Birr/ml

ml
ml
ml
ml

ml

15 ml / hr
15 ml / hr
ml

Cost (1:03)	
Hourly Rental	Hourly Cost
1	2.56
50	50
)	52.56

3.50 Birr/ml

ml
ml
ml
ml

ml

15 ml / hr
15 ml / hr
ml

Cost (1:03)	
Hourly Rental	Hourly Cost
1.28	2.56
50	50
)	52.56

3.50 Birr/ml

ml
ml
ml
ml

ml

12.5 ml / hr
12.5 ml / hr
ml

Cost (1:03)	
Hourly Rental	Hourly Cost
1.28	2.56
50	50
)	52.56

4.20 Birr/ml

ml
ml
ml
ml

ml

12.5 ml / hr
12.5 ml / hr
ml

Cost (1:03)	
Hourly Rental	Hourly Cost
1.28	2.56
50	50

)	52.56

4.20 Birr/ml

ml
ml
ml
ml

ml

3.75 ml / hr
3.75 ml / hr
ml

Cost (1:03)	
Hourly Rental	Hourly Cost
1.28	2.56
)	2.56

0.68 Birr/ml

ml
ml
ml
ml

ml

6.875 ml / hr
6.875 ml / hr
ml

Cost (1:03)	
Hourly Rental	Hourly Cost
1.28	2.56
)	2.56

0.37 Birr/ml

ml
ml
ml
ml

ml

5.125 ml / hr
5.125 ml / hr
ml

Cost (1:03)	
Hourly Rental	Hourly Cost
1.28	2.56
675	675
)	677.56

132.21 Birr/ml

ml
ml
ml
ml

ml

5.125 ml / hr
5.125 ml / hr
ml

Cost (1:03)	
Hourly Rental	Hourly Cost
1.28	2.56
675	675
)	677.56

132.21 Birr/ml

ml
ml
ml
ml

ml

5.125 ml / hr
5.125 ml / hr
ml

Cost (1:03)	
Hourly Rental	Hourly Cost
1.28	2.56
675	675
)	677.56

132.21 Birr/ml

ml
ml
ml
ml

ml

4.25 ml / hr
4.25 ml / hr
ml

Cost (1:03)	
Hourly Rental	Hourly Cost
1.28	2.56
675	675
)	677.56

159.43 Birr/ml

ml

ml
ml
ml

ml

3 ml / hr
3 ml / hr
ml

Cost (1:03)	
Hourly Rental	Hourly Cost
1.28	2.56
675	675
)	677.56

225.85 Birr/ml

ml
ml
ml
ml

ml

0.25 Pc/ hr
0.25 Pc/ hr
pc

Cost (1:03)	
Hourly Rental	Hourly Cost
1.28	2.56
)	2.56

10.24 Birr/pc

pc
pc
pc
pc

ɔc

0.125 Pc/ hr
0.125 Pc/ hr

ɔc

Cost (1:03)	
Hourly Rental	Hourly Cost
1.28	2.56
)	2.56

20 Birr/pc

ɔc
ɔc
ɔc
ɔc

ɔc

1 Pc/ hr
1 Pc/ hr

ɔc

Cost (1:03)	
Hourly Rental	Hourly Cost
1.28	2.56
)	2.56

2.6 Birr/pc

ɔc
ɔc
ɔc
ɔc

ɔc

0.125 Pc/ hr

0.125 Pc/ hr

ɔc

Cost (1:03)	
Hourly Rental	Hourly Cost
1.28	2.56
)	2.56

20.48 Birr/pc

y

y

y

y

y

0 Pc/ hr

0.25 Pc/ hr

ɔc

Cost (1:03)	
Hourly Rental	Hourly Cost
1	2.56
)	2.56

10.24 Birr/pc

ɔc

ɔc

ɔc

ɔc

ɔc

2 Pc/ hr

2 Pc/ hr

ɔc

Cost (1:03)	
Hourly Rental	Hourly Cost
1	2.56
)	2.56

1.28 Birr/pc

ɔc
ɔc
ɔc
ɔc

ɔc

0.25 Pc/ hr
0.25 Pc/ hr
ɔc

Cost (1:03)	
Hourly Rental	Hourly Cost
1.28	2.56
)	2.56

10.24 Birr/pc

ɔc
ɔc
ɔc
ɔc

ɔc

0.25 Pc/ hr
0.25 Pc/ hr
ɔc

Cost (1:03)	
Hourly Rental	Hourly Cost
1.28	2.56

)	2.56

10.2 Birr/pc

y
y
y
y

y

1.875 Pc/ hr
1.875 Pc/ hr
ᵖc

Cost (1:03)	
Hourly Rental	Hourly Cost
1	2.56
)	2.56

1.37 Birr/Pc

ᵖc
ᵖc
ᵖc
ᵖc

ᵖc

1.875 Pc/ hr
1.875 Pc/ hr
ᵖc

Cost (1:03)	
Hourly Rental	Hourly Cost
1.28	2.56

)	2.56

1.37 Birr/Pc

ᵖc
ᵖc
ᵖc
ᵖc

ᵖc

1.5 Pc/ hr
1.5 Pc/ hr
ᵖc

Cost (1:03)	
Hourly Rental	Hourly Cost
1.28	2.56
)	2.56

1.71 Birr/Pc

ᵖc
ᵖc
ᵖc
ᵖc

ᵖc

1.5 Pc/ hr
1.5 Pc/ hr
ᵖc

Cost (1:03)	
Hourly Rental	Hourly Cost
1.28	2.56
)	2.56

1.71 Birr/Pc

Pc
Pc
Pc
Pc

Pc

1.25 Pc/ hr
1.25 Pc/ hr
Pc

Cost (1:03)	
Hourly Rental	Hourly Cost
1.28	2.56
)	2.56

2.0 Birr/Pc

Pc
Pc
Pc
Pc

Pc

0.125 Pc/ hr
0.125 Pc/ hr
Pc

Cost (1:03)	
Hourly Rental	Hourly Cost
1.28	2.56
)	2.56

20.48 Birr/Pc

Pc
Pc
Pc
Pc

Pc

0.125 Pc/ hr

0.125 Pc/ hr

Pc

Cost (1:03)	
Hourly Rental	Hourly Cost
1.28	2.56
)	2.56

20.48 Birr/Pc

Pc

Pc

Pc

Pc

Pc

0.125 Pc/ hr

0.125 Pc/ hr

Pc

Cost (1:03)	
Hourly Rental	Hourly Cost
1.28	2.56
)	2.56

20.48 Birr/Pc

Pc

Pc

Pc

Pc

Pc

1 Pc/ hr

1 Pc/ hr

Pc

Cost (1:03)	
Hourly Rental	Hourly Cost
1.28	2.56
)	2.56

0.84
1.44
2.28
0.049
0.105
0.154

2.56 Birr/Pc

Pc
Pc
Pc
Pc

Pc

2 Pc/ hr
2 Pc/ hr

Pc

Cost (1:03)	
Hourly Rental	Hourly Cost
1.28	1.28
)	1.28

0.64 Birr/Pc

Pc
Pc
Pc
Pc

Pc

3 ml / hr
3 ml / hr

ml

Cost (1:03)	
Hourly Rental	Hourly Cost

1.28	2.56
)	2.56

0.85 Birr/ml

ml
ml
ml
ml

ml

RHB LIGHT FITTINGS

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: **ELECTRICAL WORK / Indoor lighting /** LABOR DAILY OUTPUT:
WORK ITEM:(17.1) **Light fitting RZB 91163.00x with accessories** EQUIPMENT DAILY OUT PUT:
TOTAL QUANTITY OF WORK ITEM: 1 Pc RESULT:

Material Cost (1:01)					Labor (1:02)				
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	Indexed hourly Cost	Hourly Cost
RZB 91163.00x	Pc	1.00	290.00	290.00	Forman	1	0.25	23.75	5.9375
					Electrician	1	1	16.00	16
					Helper	1	1	10.00	10
Total (1:-01)				290.00	**Total (1:02)**				31.94

A=Materials U 290.00 Birr/Pc **B=Manpower Unit Cost** 42.58 Birr/Pc
Total of (1:02)
Daily Output
Direct Cost of work item = A+B+C =
Overhead Cost: 8%
Profit Cost: 7%
Total :

Remark _____
UF: UTILIZATION FACTOR **Total unit cost:**
*: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.
**: INCLUSIVE OF BENEFITS, TRAVEL SUBSIDES AND COST OF OVERTIME RELATED TO TARGETED OUTPUT.

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: **ELECTRICAL WORK / Indoor lighting /** LABOR DAILY OUTPUT:
WORK ITEM:(17.1) **Light fitting RZB 91163.00x with accessories** EQUIPMENT DAILY OUT PUT:
TOTAL QUANTITY OF WORK ITEM: 1 Pc RESULT:

Material Cost (1:01)					Labor (1:02)				
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	Indexed hourly Cost	Hourly Cost
RZB 91163.00x	Pc	1.00	466.00	466.00	Forman	1	0.25	23.75	5.9375
					Electrician	1	1	16.00	16
					Helper	1	1	10.00	10
Total (1:-01)				466.00	**Total (1:02)**				31.94

A=Materials U 466.00 Birr/Pc **B=Manpower Unit Cost** 42.58 Birr/Pc
Total of (1:02)
Daily Output
Direct Cost of work item = A+B+C =
Overhead Cost: 8%
Profit Cost: 7%
Total :

Remark _____
UF: UTILIZATION FACTOR **Total unit cost:**
*: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.
**: INCLUSIVE OF BENEFITS, TRAVEL SUBSIDES AND COST OF OVERTIME RELATED TO TARGETED OUTPUT.

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: **ELECTRICAL WORK / Indoor lighting /** LABOR DAILY OUTPUT:
WORK ITEM:(17.2) **Light fitting RZB 211004.002 with accessories** EQUIPMENT DAILY OUT PUT:
TOTAL QUANTITY OF WORK ITEM: 1 Pc RESULT:

Material Cost (1:01)					Labor (1:02)				
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	Indexed hourly Cost	Hourly Cost

RZB 211004.002	Pc	1.00	520.00	520.00	Forman	1	0.25	23.75	5.9375
					Electrician	1	1	16.00	16
					Helper	1	1	10.00	10
Total (1:-01)				520.00	**Total (1:02)**				31.94

A=Materials U 520.00 Birr/Pc ***B=Manpower Unit Cost*** 42.58 Birr/Pc

Total of (1:02)

Daily Output

Direct Cost of work item = A+B+C =

Overhead Cost: 8%

Profit Cost: 7%

Total :

Remark _____

UF: UTILIZATION FACTOR ***Total unit cost:***

*: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.

**: INCLUSIVE OF BENEFITS, TRAVEL SUBSIDES AND COST OF OVERTIME RELATED TO TARGETED OUTPUT.

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: ***ELECTRICAL WORK / Indoor lighting /*** LABOR DAILY OUTPUT:

WORK ITEM:(17.3) ***Light fitting RZB 21104.00X with accessories*** EQUIPMENT DAILY OUT PUT:

TOTAL QUANTITY OF WORK ITEM: 1 Pc RESULT:

Material Cost (1:01)					**Labor (1:02)**				
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	Indexed hourly Cost	Hourly Cost
RZB 21104.00X	Pc	1.00	1100.00	1100.00	Forman	1	0.25	23.75	5.9375
					Electrician	1	1	16.00	16
					Helper	1	1	10.00	10
Total (1:-01)				1100.00	**Total (1:02)**				31.94

A=Materials U 1100.00 Birr/Pc ***B=Manpower Unit Cost*** 63.88 Birr/Pc

Total of (1:02)

Daily Output

Direct Cost of work item = A+B+C =

Overhead Cost: 8%

Profit Cost: 7%

Total :

Remark _____ Vat

UF: UTILIZATION FACTOR ***Total unit cost:***

*: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.

**: INCLUSIVE OF BENEFITS, TRAVEL SUBSIDES AND COST OF OVERTIME RELATED TO TARGETED OUTPUT.

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: ***ELECTRICAL WORK / Indoor lighting /*** LABOR DAILY OUTPUT:

WORK ITEM:(17.4) ***Light fitting RZB 612067 with accessories*** EQUIPMENT DAILY OUT PUT:

TOTAL QUANTITY OF WORK ITEM: 1 Pc RESULT:

Material Cost (1:01)					**Labor (1:02)**				
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	Indexed hourly Cost	Hourly Cost
RZB 612067	Pc	1.00	5925.00	5925.00	Forman	1	0.25	23.75	5.9375
					Electrician	1	1	16.00	16
					Helper	1	1	10.00	10
								1.28	
Total (1:-01)				5925.00	**Total (1:02)**				31.94

A=Materials U 5925.00 Birr/Pc ***B=Manpower Unit Cost*** 255.50 Birr/Pc

Total of (1:02)
Daily Output
Direct Cost of work item = A+B+C =
Overhead Cost: 8%
Profit Cost: 7%
Total :

Remark _____
UF: UTILIZATION FACTOR **Total unit cost:**
*: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.
**: INCLUSIVE OF BENEFITS, TRAVEL SUBSIDES AND COST OF OVERTIME RELATED TO TARGETED OUTPUT.

FLOURESCENT FITTING TYPE

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: **ELECTRICAL WORK / Indoor lighting /** LABOR DAILY OUTPUT:
WORK ITEM:(17.5) **Flourescent Disano 930 ECHO with 1x36w flourescent T8 Lamps(electric gear)** EQUIPMENT DAILY OUT PUT:
TOTAL QUANTITY OF WORK ITEM: 1 Pc RESULT:

Material Cost (1:01)					Labor (1:02)				
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	Indexed hourly Cost	Hourly Cost
Flourescent light fitt	Pc	1.00	935.00	935.00	Forman	1	0.25	23.75	5.9375
					Electrician	1	1	16.00	16
					Ele. Helper	1	1	10.00	10
					DL	1	1	6.38	20
Total (1:-01)				935.00	**Total (1:02)**				51.94

A=Materials U 935.00 Birr/Pc **B=Manpower Unit Cost** 39.57 Birr/Pc
Total of (1:02)
Daily Output
Direct Cost of work item = A+B+C =
Overhead Cost: 8%
Profit Cost: 7%
Total :

Remark _____
UF: UTILIZATION FACTOR **Total unit cost:**
*: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.
**: INCLUSIVE OF BENEFITS, TRAVEL SUBSIDES AND COST OF OVERTIME RELATED TO TARGETED OUTPUT.

_____ _____
Prepared by **Checked by**

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: **ELECTRICAL WORK / Indoor lighting /** LABOR DAILY OUTPUT:
WORK ITEM:(17.6) **Flourescent MODUSE I 418 ALDP or equivalent 4x18w lenear flourescent lamp T8 with G13 base** EQUIPMENT DAILY OUT PUT:
RESULT:

TOTAL QUANTITY OF WORK ITEM: 1 Pc

Material Cost (1:01)					Labor (1:02)				
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	Indexed hourly Cost	Hourly Cost
Flourescent light fitt	Pc	1.00	950.00	950.00	Forman	1	0.25	85.00	21.25
					Electrician	1	1	60.00	60
					Ele. Helper	1	1	40.00	40
					DL	1	1	31.00	20
Total (1:-01)				950.00	**Total (1:02)**				141.25

A=Materials U 950.00 Birr/Pc **B=Manpower Unit Cost** 141.25 Birr/Pc
Total of (1:02)
Daily Output
Direct Cost of work item = A+B+C =
Overhead Cost: 8%
Profit Cost: 7%
Total :

Remark _____

_____ Data collected by _____ Prepared and checked by _____ Approved by

UF: UTILIZATION FACTOR **Total unit cost:**
*: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.
**: INCLUSIVE OF BENEFITS, TRAVEL SUBSIDES AND COST OF OVERTIME RELATED TO TARGETED OUTPUT.

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: **ELECTRICAL WORK / Indoor lighting /** LABOR DAILY OUTPUT:
WORK ITEM:(17.6) **Massive 34004/11/10E14/40W** EQUIPMENT DAILY OUT PUT:
TOTAL QUANTITY OF WORK ITEM: 1 Pc RESULT:

Material Cost (1:01)					Labor (1:02)				
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	Indexed hourly Cost	Hourly Cost
Luminary light fittin	Pc	1.00	489.60	489.60	Forman	1	0.25	23.75	5.9375
					Electrician	1	1	16.00	16
					Ele. Helper	1	1	10.00	10
					DL	1	1	6.38	20
Total (1:-01)				489.60	**Total (1:02)**				51.94

A=Materials U 489.60 Birr/Pc **B=Manpower Unit Cost** 103.88 Birr/Pc
Total of (1:02)
Daily Output
Direct Cost of work item = A+B+C =
Overhead Cost: 8%
Profit Cost: 7%
Total :

Remark _____
UF: UTILIZATION FACTOR **Total unit cost:**
*: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.
**: INCLUSIVE OF BENEFITS, TRAVEL SUBSIDES AND COST OF OVERTIME RELATED TO TARGETED OUTPUT.

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: **ELECTRICAL WORK / Indoor lighting /** LABOR DAILY OUTPUT:
WORK ITEM:(17.6) **Massive 70107/02/2XE27/60W** EQUIPMENT DAILY OUT PUT:
RESULT:

TOTAL QUANTITY OF WORK ITEM: 1 Pc

Material Cost (1:01)					Labor (1:02)				
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	Indexed hourly Cost	Hourly Cost
Luminary light fittin	Pc	1.00	595.20	595.20	Forman	1	0.25	23.75	5.9375
					Electrician	1	1	16.00	16
					Ele. Helper	1	1	10.00	10
					DL	1	1	6.38	20
Total (1:-01)				595.20	**Total (1:02)**				51.94

A=Materials U 595.20 Birr/Pc **B=Manpower Unit Cost** 103.88 Birr/Pc
Total of (1:02)
Daily Output
Direct Cost of work item = A+B+C =
Overhead Cost: 8%
Profit Cost: 7%
Total :

Remark _____
UF: UTILIZATION FACTOR **Total unit cost:**
*: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.
**: INCLUSIVE OF BENEFITS, TRAVEL SUBSIDES AND COST OF OVERTIME RELATED TO TARGETED OUTPUT.

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: **ELECTRICAL WORK / Indoor lighting /** LABOR DAILY OUTPUT:
WORK ITEM:(17.6) **Massive 73768/03/3XE14/40W** EQUIPMENT DAILY OUT PUT:
RESULT:

TOTAL QUANTITY OF WORK ITEM: 1 Pc

Material Cost (1:01)	Labor (1:02)

_____ Data collected by _____ Prepared and checked by _____ Approved by

Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	Indexed hourly Cost	Hourly Cost
Luminary light fittin	Pc	1.00	1440.00	1440.00	Forman	1	0.25	23.75	5.9375
					Electrician	1	1	16.00	16
					Ele. Helper	1	1	10.00	10
					DL	1	1	6.38	20
Total (1:-01)				1440.00	**Total (1:02)**				51.94

A=Materials U 1440.00 Birr/Pc

B=Manpower Unit Cost 103.88 Birr/Pc

Total of (1:02)

Daily Output

Direct Cost of work item = A+B+C =

Overhead Cost: 8%

Profit Cost: 7%

Total :

Remark _____

UF: UTILIZATION FACTOR

Total unit cost:

*: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.

**: INCLUSIVE OF BENEFITS, TRAVEL SUBSIDES AND COST OF OVERTIME RELATED TO TARGETED OUTPUT.

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: ***ELECTRICAL WORK / Indoor lighting /***

LABOR DAILY OUTPUT:

WORK ITEM:(17.6) ***Massive 73768/05/5XE14/40W***

EQUIPMENT DAILY OUT PUT:

RESULT:

TOTAL QUANTITY OF WORK ITEM: 1 Pc

Material Cost (1:01)					Labor (1:02)				
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	Indexed hourly Cost	Hourly Cost
Luminary light fittin	Pc	1.00	2172.00	2172.00	Forman	1	0.25	23.75	5.9375
					Electrician	1	1	16.00	16
					Ele. Helper	1	1	10.00	10
					DL	1	1	6.38	20
Total (1:-01)				2172.00	**Total (1:02)**				51.94

A=Materials U 2172.00 Birr/Pc

B=Manpower Unit Cost 103.88 Birr/Pc

Total of (1:02)

Daily Output

Direct Cost of work item = A+B+C =

Overhead Cost: 8%

Profit Cost: 7%

Total :

Remark _____

UF: UTILIZATION FACTOR

Total unit cost:

*: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.

**: INCLUSIVE OF BENEFITS, TRAVEL SUBSIDES AND COST OF OVERTIME RELATED TO TARGETED OUTPUT.

Philips Lighting

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: ***ELECTRICAL WORK / Indoor lighting /***

LABOR DAILY

WORK ITEM:(17.7) ***TCW 215/118 +1xTLD 18W with water proof Luminaires***

EQUIPMENT D

TOTAL QUANTITY OF WORK ITEM: 1 Pc

RESULT:

Material Cost (1:01)	Labor (1:02)

Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	Indexed hourly Cost	Hourly Cost
Flourescent light fitt	Pc	1.00	470.00	470.00	Forman	1	0.25	23.75	5.9375
					Electrician	1	1	16.00	16
					Ele. Helper	1	1	10.00	10
					Helper	1	1	6.38	20
Total (1:-01)				470.00	**Total (1:02)**				51.94

A=Materials U 470.00 Birr/Pc ***B=Manpower Unit Cost*** 39.57 Birr/Pc

Total of (1:02)

Daily Output

Direct Cost of work item = A+B+C =

Overhead Cost: 8%

Profit Cost: 7%

Total :

Remark _____

UF: UTILIZATION FACTOR **Total unit cost:**

*: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.

**: INCLUSIVE OF BENEFITS, TRAVEL SUBSIDES AND COST OF OVERTIME RELATED TO TARGETED OUTPUT.

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: **ELECTRICAL WORK / Indoor lighting /** LABOR DAILY OUTPUT:

WORK ITEM:(17.8) **TCW215/218 + 2xTLD 18W with water proof Luminaires** EQUIPMENT DAILY OUT PUT:

TOTAL QUANTITY OF WORK ITEM: 1 Pc RESULT:

Material Cost (1:01)					**Labor (1:02)**				
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	Indexed hourly Cost	Hourly Cost
Flourescent light fitt	Pc	1.00	540.00	540.00	Forman	1	0.25	23.75	5.9375
					Electrician	1	1	16.00	16
					Ele. Helper	1	1	10.00	10
					Helper	1	1	6.38	20
Total (1:-01)				540.00	**Total (1:02)**				51.94

A=Materials U 540.00 Birr/Pc ***B=Manpower Unit Cost*** 39.57 Birr/Pc

Total of (1:02)

Daily Output

Direct Cost of work item = A+B+C =

Overhead Cost: 8%

Profit Cost: 7%

Total :

Remark _____

UF: UTILIZATION FACTOR **Total unit cost:**

*: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.

**: INCLUSIVE OF BENEFITS, TRAVEL SUBSIDES AND COST OF OVERTIME RELATED TO TARGETED OUTPUT.

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: **ELECTRICAL WORK / Indoor lighting /** LABOR DAILY OUTPUT:

WORK ITEM:(17.9) **TCW215/136 + 1xTLD 36 w with water proof Luminaires** EQUIPMENT DAILY OUT PUT:

TOTAL QUANTITY OF WORK ITEM: 1 Pc RESULT:

Material Cost (1:01)					**Labor (1:02)**				
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	Indexed hourly Cost	Hourly Cost
Flourescent light fitt	Pc	1.00	540.00	540.00	Forman	1	0.25	23.75	5.9375
					Electrician	1	1	16.00	16
					Ele. Helper	1	1	10.00	10
					Helper	1	1	6.38	20

Total (1:-01)				540.00	**Total (1:02)**				51.94

A=Materials U 540.00 Birr/Pc ***B=Manpower Unit Cost*** 39.57 Birr/Pc

Total of (1:02)

Daily Output

Direct Cost of work item = A+B+C =

Overhead Cost: 8%

Profit Cost: 7%

Total :

Remark _____

UF: UTILIZATION FACTOR **Total unit cost:**

*: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.

**: INCLUSIVE OF BENEFITS, TRAVEL SUBSIDES AND COST OF OVERTIME RELATED TO TARGETED OUTPUT.

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: **ELECTRICAL WORK / Indoor lighting /** LABOR DAILY

WORK ITEM:(17.10) **TCW215/236 + 2xTLD 36 w with water proof Luminaires** EQUIPMENT D

TOTAL QUANTITY OF WORK ITEM: 1 Pc RESULT:

Material Cost (1:01)					**Labor (1:02)**				
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	Indexed hourly Cost	Hourly Cost
Flourescent light fitt	Pc	1.00	660.00	660.00	Forman	1	0.25	23.75	5.9375
					Electrician	1	1	16.00	16
					Ele. Helper	1	1	10.00	10
					DL	1	1	6.38	20
Total (1:-01)				660.00	**Total (1:02)**				51.94

A=Materials U 660.00 Birr/Pc ***B=Manpower Unit Cost*** 39.57 Birr/Pc

Total of (1:02)

Daily Output

Direct Cost of work item = A+B+C =

Overhead Cost: 8%

Profit Cost: 7%

Total :

Remark _____

UF: UTILIZATION FACTOR **Total unit cost:**

*: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.

**: INCLUSIVE OF BENEFITS, TRAVEL SUBSIDES AND COST OF OVERTIME RELATED TO TARGETED OUTPUT.

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: **ELECTRICAL WORK / Indoor lighting /** LABOR DAILY OUTPUT:

WORK ITEM:(17.11) **TMW065 1xTL-D36w with water proof batten and dust proof** EQUIPMENT DAILY OUT PUT:

TOTAL QUANTITY OF WORK ITEM: 1 Pc RESULT:

Material Cost (1:01)					**Labor (1:02)**				
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	Indexed hourly Cost	Hourly Cost
Flourescent light fitt	Pc	1.00	530.00	530.00	Forman	1	0.25	23.75	5.9375
					Electrician	1	1	16.00	16
					Ele. Helper	1	1	10.00	10
					DL	1	1	6.38	20
Total (1:-01)				530.00	**Total (1:02)**				51.94

A=Materials U 530.00 Birr/Pc ***B=Manpower Unit Cost*** 39.57 Birr/Pc

Total of (1:02)

Daily Output

Direct Cost of work item = A+B+C =

Overhead Cost: 8%
Profit Cost: 7%
Total :

Remark _____
UF: UTILIZATION FACTOR **Total unit cost:**
*: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.
**: INCLUSIVE OF BENEFITS, TRAVEL SUBSIDES AND COST OF OVERTIME RELATED TO TARGETED OUTPUT.

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: **ELECTRICAL WORK / Indoor lighting /** LABOR DAILY OUTPUT:
WORK ITEM:(17.12) TMW065 2xTL-D36w with water proof batten and dust proof EQUIPMENT DAILY OUT PUT:
TOTAL QUANTITY OF WORK ITEM: 1 Pc RESULT:

Material Cost (1:01)					Labor (1:02)				
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	Indexed hourly Cost	Hourly Cost
Flourescent light fitt	Pc	1.00	650.00	650.00	Forman	1	0.25	23.75	5.9375
					Electrician	1	1	16.00	16
					Ele. Helper	1	1	10.00	10
					Helper	1	1	6.38	20
Total (1:-01)				650.00	**Total (1:02)**				51.94

A=Materials U 650.00 Birr/Pc **B=Manpower Unit Cost** 39.57 Birr/Pc
Total of (1:02)
Daily Output
Direct Cost of work item = A+B+C =
Overhead Cost: 8%
Profit Cost: 7%
Total :

Remark _____
UF: UTILIZATION FACTOR **Total unit cost:**
*: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.
**: INCLUSIVE OF BENEFITS, TRAVEL SUBSIDES AND COST OF OVERTIME RELATED TO TARGETED OUTPUT.

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: **ELECTRICAL WORK / Indoor lighting /** LABOR DAILY OUTPUT:
WORK ITEM:(17.13) **TCS 398 2x18 w** EQUIPMENT DAILY OUT PUT:
TOTAL QUANTITY OF WORK ITEM: 1 Pc RESULT:

Material Cost (1:01)					Labor (1:02)				
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	Indexed hourly Cost	Hourly Cost
Flourescent light fitt	Pc	1.00	1500.00	1500.00	Forman	1	0.25	23.75	5.9375
					Electrician	1	1	16.00	16
					Ele. Helper	1	1	10.00	10
					Helper	1	1	6.38	20
Total (1:-01)				1500.00	**Total (1:02)**				51.94

A=Materials U 1500.00 Birr/Pc **B=Manpower Unit Cost** 39.57 Birr/Pc
Total of (1:02)
Daily Output
Direct Cost of work item = A+B+C =
Overhead Cost: 8%
Profit Cost: 7%
Total :

Remark _____
UF: UTILIZATION FACTOR **Total unit cost:**
*: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.
**: INCLUSIVE OF BENEFITS, TRAVEL SUBSIDES AND COST OF OVERTIME RELATED TO TARGETED OUTPUT.

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: **ELECTRICAL WORK / Indoor lighting /** LABOR DAILY OUTPUT:

WORK ITEM:(17.14) **TCS 398 1x36 w** EQUIPMENT DAILY OUT PUT:
TOTAL QUANTITY OF WORK ITEM: 1 Pc RESULT:

Material Cost (1:01)					Labor (1:02)				
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	Indexed hourly Cost	Hourly Cost
Flourescent light fitt	Pc	1.00	2000.00	2000.00	Forman	1	0.25	23.75	5.9375
					Electrician	1	1	16.00	16
					Ele. Helper	1	1	10.00	10
					DL	1	1	6.38	20
Total (1:-01)				2000.00	**Total (1:02)**				51.94

A=Materials U 2000.00 Birr/Pc **B=Manpower Unit Cost** 39.57 Birr/Pc
Total of (1:02)
Daily Output
Direct Cost of work item = A+B+C =
Overhead Cost: 8%
Profit Cost: 7%
Total :

Remark _____
UF: UTILIZATION FACTOR **Total unit cost:**
*: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.
**: INCLUSIVE OF BENEFITS, TRAVEL SUBSIDES AND COST OF OVERTIME RELATED TO TARGETED OUTPUT.

Batten

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: **ELECTRICAL WORK / Indoor lighting /** LABOR DAILY OUTPUT:
WORK ITEM:(17.15) **TMX 204 1-2x36w** EQUIPMENT DAILY OUT PUT:
TOTAL QUANTITY OF WORK ITEM: 1 Pc RESULT:

Material Cost (1:01)					Labor (1:02)				
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	Indexed hourly Cost	Hourly Cost
Flourescent light fitt	Pc	1.00	550.00	550.00	Forman	1	0.25	23.75	5.9375
					Electrician	1	1	16.00	16
					Ele. Helper	1	1	10.00	10
					DL	1	1	6.38	20
Total (1:-01)				550.00	**Total (1:02)**				51.94

A=Materials U 550.00 Birr/Pc **B=Manpower Unit Cost** 39.57 Birr/Pc
Total of (1:02)
Daily Output
Direct Cost of work item = A+B+C =
Overhead Cost: 8%
Profit Cost: 7%
Total :

Remark _____
UF: UTILIZATION FACTOR **Total unit cost:**
*: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.
**: INCLUSIVE OF BENEFITS, TRAVEL SUBSIDES AND COST OF OVERTIME RELATED TO TARGETED OUTPUT.

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: **ELECTRICAL WORK / Indoor lighting /** LABOR DAILY OUTPUT:
WORK ITEM:(17.16) **TMX 204 1-2x58w** EQUIPMENT DAILY OUT PUT:
TOTAL QUANTITY OF WORK ITEM: 1 Pc RESULT:

Material Cost (1:01)					Labor (1:02)				
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	Indexed hourly Cost	Hourly Cost

Flourescent light fitt	Pc	1.00	700.00	700.00	Forman	1	0.25	23.75	5.9375
					Electrician	1	1	16.00	16
					Ele. Helper	1	1	10.00	10
					DL	1	1	6.38	20
Total (1:-01)				700.00	**Total (1:02)**				51.94

A=Materials U 700.00 Birr/Pc ***B=Manpower Unit Cost*** 39.57 Birr/Pc

Total of (1:02)

Daily Output

Direct Cost of work item = A+B+C =

Overhead Cost: 8%

Profit Cost: 7%

Total :

Remark _____

UF: UTILIZATION FACTOR ***Total unit cost:***

*: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.

**: INCLUSIVE OF BENEFITS, TRAVEL SUBSIDES AND COST OF OVERTIME RELATED TO TARGETED OUTPUT.

HIGH BAY LUMINAIRES

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: ***ELECTRICAL WORK / Indoor lighting /*** LABOR DAILY

WORK ITEM:(17.17) ***HPK 100 + 1xHPL 250w with Lamp, reflector and accessories*** EQUIPMENT D

TOTAL QUANTITY OF WORK ITEM: 1 Pc RESULT:

Material Cost (1:01)					**Labor (1:02)**				
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	Indexed hourly Cost	Hourly Cost
Flourescent light fitt	Pc	1.00	2200.00	2200.00	Forman	1	0.25	23.75	5.9375
					Electrician	1	1	16.00	16
					Ele. Helper	1	1	10.00	10
					DL	1	1	6.38	20
Total (1:-01)				2200.00	**Total (1:02)**				51.94

A=Materials U 2200.00 Birr/Pc ***B=Manpower Unit Cost*** 51.94 Birr/Pc

Total of (1:02)

Daily Output

Direct Cost of work item = A+B+C =

Overhead Cost: 8%

Profit Cost: 7%

Total :

Remark _____

UF: UTILIZATION FACTOR ***Total unit cost:***

*: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.

**: INCLUSIVE OF BENEFITS, TRAVEL SUBSIDES AND COST OF OVERTIME RELATED TO TARGETED OUTPUT.

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: ***ELECTRICAL WORK / Indoor lighting /*** LABOR DAILY

WORK ITEM:(17.18) ***SPK 100 1xSON400w with Lamp, reflector and accessories*** EQUIPMENT D

TOTAL QUANTITY OF WORK ITEM: 1 Pc RESULT:

Material Cost (1:01)					**Labor (1:02)**				
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	** Indexed Daily Cost	Daily Cost
Flourescent light fitt	Pc	1.00	2400.00	2400.00	Forman	1	0.25	23.75	5.9375
					Electrician	1	1	16.00	16
					Ele. Helper	1	1	10.00	10
					DL	1	1	6.38	20
Total (1:-01)				2400.00	**Total (1:02)**				51.94

A=Materials U *2400.00 Birr/Pc* ***B=Manpower Unit Cost*** *51.94 Birr/Pc*

Total of (1:02)

Daily Output

Direct Cost of work item = A+B+C =

Overhead Cost: *8%*

Profit Cost: *7%*

Total :

Remark _____

UF: UTILIZATION FACTOR ***Total unit cost:***

**: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.*

***: INCLUSIVE OF BENEFITS, TRAVEL SUBSIDES AND COST OF OVERTIME RELATED TO TARGETED OUTPUT.*

Surface mounted distribution board all complete with neutral and earth bar but with out ACB / MCB / MCCB

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: ***ELECTRICAL WORK / Surface mounted DB /*** *LABOR DAILY*

WORK ITEM:(17.19) ***DB for 4ACB/20/25A Rating /plastic / economy version*** *EQUIPMENT D*

TOTAL QUANTITY OF WORK ITEM: *1 Pc* *RESULT:*

Material Cost (1:01)					***Labor (1:02)***				
Type of Material	*Unit*	*Qty **	*Rate*	*Cost per Unit*	*Labor by Trade*	*No.*	*UF*	*Indexed hourly Cost*	*Hourly Cost*
Distribution board (	*Pc*	*1.00*	*420.00*	*420.00*	*Forman*	*1*	*0.25*	*23.75*	*5.9375*
					Electrician	*1*	*1*	*16.00*	*16*
					Ele. Helper	*1*	*1*	*10.00*	*10*
					DL	*1*	*1*	*6.38*	*6.375*
					chiseler	*1*	*0.5*	*8.88*	*4.4375*
					plasterer	*1*	*0.25*	*-*	*0*
Total (1:-01)				*420.00*	***Total (1:02)***				*42.75*

A=Materials U *420.00 Birr/Pc* ***B=Manpower Unit Cost*** *342.00 Birr/Pc*

Total of (1:02)

Daily Output

Direct Cost of work item = A+B+C =

Overhead Cost: *8%*

Profit Cost: *7%*

Total :

Remark _____

UF: UTILIZATION FACTOR ***Total unit cost:***

**: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.*

***: INCLUSIVE OF BENEFITS, TRAVEL SUBSIDES AND COST OF OVERTIME RELATED TO TARGETED OUTPUT.*

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: ***ELECTRICAL WORK / Surface mounted DB /*** *LABOR DAILY OUTPUT:*

WORK ITEM:(17.20) ***DB for 8 ACB/25/40A Rating /plastic / economy version*** *EQUIPMENT DAILY OUT PUT:*

TOTAL QUANTITY OF WORK ITEM: *1 Pc* *RESULT:*

Material Cost (1:01)					***Labor (1:02)***				
Type of Material	*Unit*	*Qty **	*Rate*	*Cost per Unit*	*Labor by Trade*	*No.*	*UF*	*Indexed hourly Cost*	*Hourly Cost*
Distribution board (	*Pc*	*1.00*	*420.00*	*420.00*	*Forman*	*1*	*0.25*	*23.75*	*5.9375*
					Electrician	*1*	*1*	*16.00*	*16*
					Ele. Helper	*1*	*1*	*10.00*	*10*
					Helper	*1*	*1*	*6.38*	*6.375*
					chiseler	*1*	*0.5*	*8.88*	*4.4375*
					plasterer	*1*	*0.25*	*-*	*0*
Total (1:-01)				*420.00*	***Total (1:02)***				*42.75*

A=Materials U *420.00 Birr/Pc* ***B=Manpower Unit Cost*** *342.00 Birr/Pc*

Total of (1:02)

Daily Output

Direct Cost of work item = A+B+C =

Overhead Cost: *8%*

Profit Cost: *7%*

Total :

Remark _____

UF: UTILIZATION FACTOR ***Total unit cost:***

*: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.
**: INCLUSIVE OF BENEFITS, TRAVEL SUBSIDES AND COST OF OVERTIME RELATED TO TARGETED OUTPUT.

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: **ELECTRICAL WORK / Surface mounted DB /** LABOR DAILY
WORK ITEM:(17.21) **DB for 12 ACB/40/63A Rating /plastic / economy version** EQUIPMENT D
TOTAL QUANTITY OF WORK ITEM: 1 Pc RESULT:

Material Cost (1:01)					Labor (1:02)				
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	Indexed hourly Cost	Hourly Cost
Distribution board (	Pc	1.00	420.00	420.00	Forman	1	0.25	23.75	5.9375
					Electrician	1	1	16.00	16
					Ele. Helper	1	1	10.00	10
					Helper	1	1	10.00	10
					chiseler	1	0.5	8.88	4.4375
					plasterer	1	0.25	-	0
Total (1:-01)				420.00	**Total (1:02)**				46.38

A=Materials U 420.00 Birr/Pc **B=Manpower Unit Cost** 742.00 Birr/Pc
Total of (1:02)
Daily Output
Direct Cost of work item = A+B+C =
Overhead Cost: 8%
Profit Cost: 7%
Total :

Remark _____
UF: UTILIZATION FACTOR **Total unit cost:**
*: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.
**: INCLUSIVE OF BENEFITS, TRAVEL SUBSIDES AND COST OF OVERTIME RELATED TO TARGETED OUTPUT.

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: **ELECTRICAL WORK / Surface mounted DB /** LABOR DAILY
WORK ITEM:(17.22) **DB for 12 ACB/40/63A Rating /plastic / Steel enclosure** EQUIPMENT D
TOTAL QUANTITY OF WORK ITEM: 1 Pc RESULT:

Material Cost (1:01)					Labor (1:02)				
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	Indexed hourly Cost	Hourly Cost
Distribution board (	Pc	1.00	890.00	890.00	Forman	1	0.25	23.75	5.9375
					Electrician	1	1	16.00	16
					Ele. Helper	1	1	10.00	10
					Helper	1	1	6.38	6.375
					chiseler	1	0.5	8.88	4.4375
					plasterer	1	0.25	-	0
Total (1:-01)				890.00	**Total (1:02)**				42.75

A=Materials U 890.00 Birr/Pc **B=Manpower Unit Cost** 684.00 Birr/Pc
Total of (1:02)
Daily Output
Direct Cost of work item = A+B+C =
Overhead Cost: 8%
Profit Cost: 7%
Total :

Remark _____
UF: UTILIZATION FACTOR **Total unit cost:**
*: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.
**: INCLUSIVE OF BENEFITS, TRAVEL SUBSIDES AND COST OF OVERTIME RELATED TO TARGETED OUTPUT.

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: **ELECTRICAL WORK / Surface mounted DB /** LABOR DAILY OUTPUT:
WORK ITEM:(17.23) **DB for 16 ACB/63/80A Rating /plastic / economy version** EQUIPMENT DAILY OUT PUT:
TOTAL QUANTITY OF WORK ITEM: 1 Pc RESULT:

Material Cost (1:01)					Labor (1:02)				
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	Indexed hourly Cost	Hourly Cost
Distribution board (	Pc	1.00	550.00	550.00	Forman	1	0.25	23.75	5.9375
					Electrician	1	1	16.00	16
					Ele. Helper	1	1	10.00	10
					Helper	1	1	6.38	6.375
					chiseler	1	0.5	8.88	4.4375
					plasterer	1	0.25	-	0
Total (1:-01)				550.00	**Total (1:02)**				42.75

A=Materials U 550.00 Birr/Pc

B=Manpower Unit Cost 684.00 Birr/Pc

Total of (1:02)

Daily Output

Direct Cost of work item = A+B+C =

Overhead Cost: 8%

Profit Cost: 7%

Total :

Remark _____

UF: UTILIZATION FACTOR

Total unit cost:

*: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.

**: INCLUSIVE OF BENEFITS, TRAVEL SUBSIDES AND COST OF OVERTIME RELATED TO TARGETED OUTPUT.

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: ***ELECTRICAL WORK / Surface mounted DB /*** LABOR DAILY OUTPUT:

WORK ITEM:(17.24) ***DB for 16 ACB/63/80A Rating /plastic / standard version*** EQUIPMENT DAILY OUT PUT:

TOTAL QUANTITY OF WORK ITEM: 1 Pc RESULT:

Material Cost (1:01)					Labor (1:02)				
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	Indexed hourly Cost	Hourly Cost
Distribution board (	Pc	1.00	590.00	590.00	Forman	1	0.25	23.75	5.9375
					Electrician	1	1	15.75	15.75
					Ele. Helper	1	1	10.00	10
					Helper	1	1	6.38	6.375
					chiseler	1	0.5	8.88	4.4375
					plasterer	1	0.25	-	0
Total (1:-01)				590.00	**Total (1:02)**				42.50

A=Materials U 590.00 Birr/Pc

B=Manpower Unit Cost 680.00 Birr/Pc

Total of (1:02)

Daily Output

Direct Cost of work item = A+B+C =

Overhead Cost: 8%

Profit Cost: 7%

Total :

Remark _____

UF: UTILIZATION FACTOR

Total unit cost:

*: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.

**: INCLUSIVE OF BENEFITS, TRAVEL SUBSIDES AND COST OF OVERTIME RELATED TO TARGETED OUTPUT.

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: ***ELECTRICAL WORK / Surface mounted DB /*** LABOR DAILY OUTPUT:

WORK ITEM:(17.25) ***DB for 16 ACB/63/80A Rating /plastic / Steel enclosure*** EQUIPMENT DAILY OUT PUT:

TOTAL QUANTITY OF WORK ITEM: 1 Pc RESULT:

Material Cost (1:01)					Labor (1:02)				
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	Indexed hourly Cost	Hourly Cost
Distribution board (	Pc	1.00	990.00	990.00	Forman	1	0.25	23.75	5.9375
					Electrician	1	1	16.00	16
					Ele. Helper	1	1	10.00	10
					Helper	1	1	6.38	6.375
					chiseler	1	0.5	8.88	4.4375

					plasterer	1	0.25	-	0
Total (1:-01)				990.00	**Total (1:02)**				42.75

A=Materials U 990.00 Birr/Pc **B=Manpower Unit Cost** 684.00 Birr/Pc

Total of (1:02)

Daily Output

Direct Cost of work item = A+B+C =

Overhead Cost: 8%

Profit Cost: 7%

Total :

Remark _____

UF: UTILIZATION FACTOR **Total unit cost:**

*: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.

**: INCLUSIVE OF BENEFITS, TRAVEL SUBSIDES AND COST OF OVERTIME RELATED TO TARGETED OUTPUT.

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: **ELECTRICAL WORK / Surface mounted DB /** LABOR DAILY OUTPUT:

WORK ITEM:(17.26) **DB for 36 ACB/80/100A Rating /plastic / Steel enclosure** EQUIPMENT DAILY OUT PUT:

TOTAL QUANTITY OF WORK ITEM: 1 Pc RESULT:

Material Cost (1:01)					**Labor (1:02)**				
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	Indexed hourly Cost	Hourly Cost
Distribution board (	Pc	1.00	4920.00	4920.00	Forman	1	0.25	23.75	5.9375
					Electrician	1	1	16.00	16
					Ele. Helper	1	1	10.00	10
					Helper	1	1	6.38	6.375
					chiseler	1	0.5	8.88	4.4375
					plasterer	1	0.25	-	0
Total (1:-01)				4920.00	**Total (1:02)**				42.75

A=Materials U 4920.00 Birr/Pc **B=Manpower Unit Cost** 1710.00 Birr/Pc

Total of (1:02)

Daily Output

Direct Cost of work item = A+B+C =

Overhead Cost: 8%

Profit Cost: 7%

Total :

Remark _____

UF: UTILIZATION FACTOR **Total unit cost:**

*: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.

**: INCLUSIVE OF BENEFITS, TRAVEL SUBSIDES AND COST OF OVERTIME RELATED TO TARGETED OUTPUT.

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: **ELECTRICAL WORK / Fulsh mounted DB /** LABOR DAILY OUTPUT:

WORK ITEM:(17.27) **DB for 48 ACB/100/125A Rating /plastic / Steel enclosure** EQUIPMENT DAILY OUT PUT:

TOTAL QUANTITY OF WORK ITEM: 1 Pc RESULT:

Material Cost (1:01)					**Labor (1:02)**				
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	Indexed hourly Cost	Hourly Cost
DistributionBoard in metal inclosure with locable door, dus bars of three phase +neutral+ earth ,voltmter , load current , selector switch, including all necessary connecting and fixing accessories but with out ACB/MCB/MCCB	Pc	1.00	6985.00	6985.00	Forman	1	0.25	23.75	5.9375
					Electrician	1	1	16.00	16
					Ele. Helper	1	1	10.00	10
					Helper	2	1	6.38	12.75
Total (1:-01)				6985.00	**Total (1:02)**				44.69

A=Materials U 6985.00 Birr/Pc **B=Manpower Unit Cost** 715.00 Birr/Pc

Total of (1:02)

Daily Output

Direct Cost of work item = A+B+C =

_____ Data collected by _____ Prepared and checked by _____ Approved by

Overhead Cost: 8%
Profit Cost: 7%
Total :

Remark _____
UF: UTILIZATION FACTOR **Total unit cost:**
*: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.
**: INCLUSIVE OF BENEFITS, TRAVEL SUBSIDES AND COST OF OVERTIME RELATED TO TARGETED OUTPUT.

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: **ELECTRICAL WORK / Fulsh mounted DB /** LABOR DAILY OUTPUT:
WORK ITEM:(17.28) **Distriution Board including bus bar of 200 A** EQUIPMENT DAILY OUT PUT:
TOTAL QUANTITY OF WORK ITEM: 1 Pc RESULT:

Material Cost (1:01)					Labor (1:02)				
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	Indexed hourly Cost	Hourly Cost
DistributionBoard in metal inclosure with locable door, dus bars of three phase +neutral+ earth ,voltmter , load current , selector switch, including all necessary connecting and fixing accessories but with out ACB/MCB/MCCB	Pc	1.00	9215.00	9215.00	Forman	1	0.25	23.75	5.9375
					Electrician	1	1	16.00	16
					Ele. Helper	1	1	10.00	10
					Helper	2	1	6.38	12.75
Total (1:-01)				9215.00	**Total (1:02)**				44.69

A=Materials U 9215.00 Birr/Pc **B=Manpower Unit Cost** 715.00 Birr/Pc
Total of (1:02)
Daily Output
Direct Cost of work item = A+B+C =
Overhead Cost: 8%
Profit Cost: 7%
Total :

Remark _____
UF: UTILIZATION FACTOR **Total unit cost:**
*: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.
**: INCLUSIVE OF BENEFITS, TRAVEL SUBSIDES AND COST OF OVERTIME RELATED TO TARGETED OUTPUT.

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: **ELECTRICAL WORK / ACB /** LABOR DAILY
WORK ITEM:(17.29) **Single phase Automatic Circuit Breaker ABB type 6A-40A/ph** EQUIPMENT D
TOTAL QUANTITY OF WORK ITEM: 1 Pc RESULT:

Material Cost (1:01)					Labor (1:02)				
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	Indexed hourly Cost	Hourly Cost
ABB type ACB 6A- 4	Pc	1.00	55.00	55.00	Forman	1	0.25	23.75	5.9375
					Electrician	1	1	16.00	16
					Ele. Helper	1	1	10.00	10
Total (1:-01)				55.00	**Total (1:02)**				31.94

A=Materials U 55.00 Birr/Pc **B=Manpower Unit Cost** 63.88 Birr/Pc
Total of (1:02)
Daily Output
Direct Cost of work item = A+B+C =
Overhead Cost: 8%
Profit Cost: 7%
Total :

Remark _____
UF: UTILIZATION FACTOR **Total unit cost:**
*: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.
**: INCLUSIVE OF BENEFITS, TRAVEL SUBSIDES AND COST OF OVERTIME RELATED TO TARGETED OUTPUT.

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: **ELECTRICAL WORK / ACB /** LABOR DAILY OUTPUT:
WORK ITEM:(17.30) Single phase Automatic Circuit Breaker ABB type 50A-63A/ph EQUIPMENT DAILY OUT PUT:
TOTAL QUANTITY OF WORK ITEM: 1 Pc RESULT:

Material Cost (1:01)					Labor (1:02)				
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	Indexed hourly Cost	Hourly Cost
ABB type ACB 50A-	Pc	1.00	120.00	120.00	Forman	1	0.25	23.75	5.9375
					Electrician	1	1	16.00	16
					Ele. Helper	1	1	10.00	10
Total (1:-01)				120.00	**Total (1:02)**				31.94

A=Materials U 120.00 Birr/Pc **B=Manpower Unit Cost** 63.88 Birr/Pc
Total of (1:02)
Daily Output
Direct Cost of work item = A+B+C =
Overhead Cost: 8%
Profit Cost: 7%
Total :

Remark _____
UF: UTILIZATION FACTOR **Total unit cost:**
*: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.
**: INCLUSIVE OF BENEFITS, TRAVEL SUBSIDES AND COST OF OVERTIME RELATED TO TARGETED OUTPUT.

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: **ELECTRICAL WORK / MCB/ACB /** LABOR DAILY
WORK ITEM:(17.31) **Three phase Automatic Circuit Breaker ABB type 6A-40A/3ph** EQUIPMENT D
TOTAL QUANTITY OF WORK ITEM: 1 Pc RESULT:

Material Cost (1:01)					Labor (1:02)				
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	Indexed hourly Cost	Hourly Cost
ABB type ACB 6A- 4	Pc	1.00	210.00	210.00	Forman	1	0.25	23.75	5.9375
					Electrician	1	1	16.00	16
					Ele. Helper	1	1	10.00	10
Total (1:-01)				210.00	**Total (1:02)**				31.94

A=Materials U 210.00 Birr/Pc **B=Manpower Unit Cost** 63.88 Birr/Pc
Total of (1:02)
Daily Output
Direct Cost of work item = A+B+C =
Overhead Cost: 8%
Profit Cost: 7%
Total :

Remark _____
UF: UTILIZATION FACTOR **Total unit cost:**
*: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.
**: INCLUSIVE OF BENEFITS, TRAVEL SUBSIDES AND COST OF OVERTIME RELATED TO TARGETED OUTPUT.

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: **ELECTRICAL WORK / MCB/ACB /** LABOR DAILY OUTPUT:
WORK ITEM:(17.32) **Three phase Automatic Circuit Breaker ABB type 50A/3ph** EQUIPMENT DAILY OUT PUT:
TOTAL QUANTITY OF WORK ITEM: 1 Pc RESULT:

Material Cost (1:01)					Labor (1:02)				
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	Indexed hourly Cost	Hourly Cost
ABB type ACB 50A/3	Pc	1.00	330.00	330.00	Forman	1	0.25	23.75	5.9375
					Electrician	1	1	16.00	16

_____ Data collected by _____ Prepared and checked by _____ Approved by

					Ele. Helper	1	1	10.00	10
Total (1:-01)				330.00	**Total (1:02)**				31.94

A=Materials U 330.00 Birr/Pc ***B=Manpower Unit Cost*** 63.88 Birr/Pc

Total of (1:02)

Daily Output

Direct Cost of work item = A+B+C =

Overhead Cost: 8%

Profit Cost: 7%

Total :

Remark _____

UF: UTILIZATION FACTOR ***Total unit cost:***

*: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.

**: INCLUSIVE OF BENEFITS, TRAVEL SUBSIDES AND COST OF OVERTIME RELATED TO TARGETED OUTPUT.

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: ***ELECTRICAL WORK / MCB/ACB /*** LABOR DAILY OUTPUT:

WORK ITEM:(17.33) ***Three phase Automatic Circuit Breaker ABB type 60A/3ph*** EQUIPMENT DAILY OUT PUT:

TOTAL QUANTITY OF WORK ITEM: 1 Pc RESULT:

Material Cost (1:01)					**Labor (1:02)**				
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	Indexed hourly Cost	Hourly Cost
ABB type ACB 60A/3	Pc	1.00	400.00	400.00	Forman	1	0.25	23.75	5.9375
					Electrician	1	1	16.00	16
					Ele. Helper	1	1	10.00	10
Total (1:-01)				400.00	**Total (1:02)**				31.94

A=Materials U 400.00 Birr/Pc ***B=Manpower Unit Cost*** 63.88 Birr/Pc

Total of (1:02)

Daily Output

Direct Cost of work item = A+B+C =

Overhead Cost: 8%

Profit Cost: 7%

Total :

Remark _____

UF: UTILIZATION FACTOR ***Total unit cost:***

*: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.

**: INCLUSIVE OF BENEFITS, TRAVEL SUBSIDES AND COST OF OVERTIME RELATED TO TARGETED OUTPUT.

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: ***ELECTRICAL WORK / MCCB /*** LABOR DAILY OUTPUT:

WORK ITEM:(17.34) ***Three phase Automatic Circuit Breaker ABB type 80A/3ph*** EQUIPMENT DAILY OUT PUT:

TOTAL QUANTITY OF WORK ITEM: 1 Pc RESULT:

Material Cost (1:01)					**Labor (1:02)**				
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	Indexed hourly Cost	Hourly Cost
MCCB of 80A/3ph	Pc	1.00	1300.00	1300.00	Forman	1	0.25	23.75	5.9375
					Electrician	1	1	16.00	16
					Ele. Helper	1	1	10.00	10
Total (1:-01)				1300.00	**Total (1:02)**				31.94

A=Materials U 1300.00 Birr/Pc **B=Manpower Unit Cost** 63.88 Birr/Pc

Total of (1:02)

Daily Output

Direct Cost of work item = A+B+C =

Overhead Cost: 8%

Profit Cost: 7%

Total :

Remark _____

UF: UTILIZATION FACTOR **Total unit cost:**

*: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.

**: INCLUSIVE OF BENEFITS, TRAVEL SUBSIDES AND COST OF OVERTIME RELATED TO TARGETED OUTPUT.

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: **ELECTRICAL WORK / MCCB /** LABOR DAILY OUTPUT:

WORK ITEM:(17.35) **Three phase Automatic Circuit Breaker ABB type 100A/3ph** EQUIPMENT DAILY OUT PUT:

TOTAL QUANTITY OF WORK ITEM: 1 Pc RESULT:

Material Cost (1:01)					Labor (1:02)				
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	Indexed hourly Cost	Hourly Cost
MCCB of 100A/3ph	Pc	1.00	1600.00	1600.00	Forman	1	0.25	23.75	5.9375
					Electrician	1	1	16.00	16
					Ele. Helper	1	1	10.00	10
Total (1:-01)				1600.00	**Total (1:02)**				31.94

A=Materials U 1600.00 Birr/Pc **B=Manpower Unit Cost** 63.88 Birr/Pc

Total of (1:02)

Daily Output

Direct Cost of work item = A+B+C =

Overhead Cost: 8%

Profit Cost: 7%

Total :

Remark _____

UF: UTILIZATION FACTOR **Total unit cost:**

*: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.

**: INCLUSIVE OF BENEFITS, TRAVEL SUBSIDES AND COST OF OVERTIME RELATED TO TARGETED OUTPUT.

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: **ELECTRICAL WORK / MCCB /** LABOR DAILY OUTPUT:

WORK ITEM:(17.36) **Three phase Automatic Circuit Breaker ABB type 125A/3ph** EQUIPMENT DAILY OUT PUT:

TOTAL QUANTITY OF WORK ITEM: 1 Pc RESULT:

Material Cost (1:01)					Labor (1:02)				
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	Indexed hourly Cost	Hourly Cost
MCCB of 125A/3ph	Pc	1.00	2000.00	2000.00	Forman	1	0.25	23.75	5.9375
					Electrician	1	1	16.00	16
					Ele. Helper	1	1	10.00	10
Total (1:-01)				2000.00	**Total (1:02)**				31.94

A=Materials U 2000.00 Birr/Pc **B=Manpower Unit Cost** 63.88 Birr/Pc

Total of (1:02)

Daily Output

Direct Cost of work item = A+B+C =

Overhead Cost: 8%

Profit Cost: 7%

Total :

Remark _____

UF: UTILIZATION FACTOR **Total unit cost:**

*: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.

**: INCLUSIVE OF BENEFITS, TRAVEL SUBSIDES AND COST OF OVERTIME RELATED TO TARGETED OUTPUT.

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: **ELECTRICAL WORK / MCCB /** LABOR DAILY

WORK ITEM:(17.37) **Three phase Automatic Circuit Breaker ABB type 150A-160A/3ph** EQUIPMENT D

TOTAL QUANTITY OF WORK ITEM: 1 Pc RESULT:

Material Cost (1:01)					Labor (1:02)				
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	Indexed hourly Cost	Hourly Cost
MCCB of 150A-160A	Pc	1.00	3200.00	3200.00	Forman	1	0.25	23.75	5.9375
					Electrician	1	1	16.00	16
					Ele. Helper	1	1	10.00	10
Total (1:-01)				3200.00	**Total (1:02)**				31.94

A=Materials U 3200.00 Birr/Pc **B=Manpower Unit Cost** 63.88 Birr/Pc

Total of (1:02)

Daily Output

Direct Cost of work item = A+B+C =

Overhead Cost: 8%

Profit Cost: 7%

Total :

Remark _____

UF: UTILIZATION FACTOR **Total unit cost:**

*: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.

**: INCLUSIVE OF BENEFITS, TRAVEL SUBSIDES AND COST OF OVERTIME RELATED TO TARGETED OUTPUT.

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: **ELECTRICAL WORK / MCCB /** LABOR DAILY

WORK ITEM:(17.37) **Three phase Automatic Circuit Breaker ABB type 150A-160A/3ph** EQUIPMENT D

TOTAL QUANTITY OF WORK ITEM: 1 Pc RESULT:

Material Cost (1:01)					Labor (1:02)				
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	Indexed hourly Cost	Hourly Cost
MCCB of 630A /3ph	Pc	1.00	2860.00	2860.00	Forman	1	0.25	23.75	5.9375
					Electrician	1	1	16.00	16
					Ele. Helper	1	1	10.00	10
Total (1:-01)				2860.00	**Total (1:02)**				31.94

A=Materials U 2860.00 Birr/Pc **B=Manpower Unit Cost** 63.88 Birr/Pc

Total of (1:02)

Daily Output

Direct Cost of work item = A+B+C =

Overhead Cost: 8%

Profit Cost: 7%

Total :

Remark _____

UF: UTILIZATION FACTOR **Total unit cost:**

*: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.

**: INCLUSIVE OF BENEFITS, TRAVEL SUBSIDES AND COST OF OVERTIME RELATED TO TARGETED OUTPUT.

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: **ELECTRICAL WORK / Fuse /** LABOR DAILY OUTPUT:
WORK ITEM:(117.38) **HRS Fuse 40A cartridgefuse single phase** EQUIPMENT DAILY OUT PUT:
TOTAL QUANTITY OF WORK ITEM: 1 Pc RESULT:

Material Cost (1:01)					Labor (1:02)				
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	Indexed hourly Cost	Hourly Cost
HRS Fuse 40A /1 ph	Pc	1.00	28.00	28.00	Forman	1	0.25	23.75	5.9375
					Electrician	1	1	16.00	16
					Ele. Helper	1	1	10.00	10
Total (1:-01)				28.00	**Total (1:02)**				31.94

A=Materials U 28.00 Birr/Pc **B=Manpower Unit Cost** 12.78 Birr/Pc
Total of (1:02)
Daily Output
Direct Cost of work item = A+B+C =
Overhead Cost: 8%
Profit Cost: 7%
Total :

Remark _____
UF: UTILIZATION FACTOR **Total unit cost:**
*: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.
**: INCLUSIVE OF BENEFITS, TRAVEL SUBSIDES AND COST OF OVERTIME RELATED TO TARGETED OUTPUT.

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: **ELECTRICAL WORK / Fuse /** LABOR DAILY OUTPUT:
WORK ITEM:(17.39) **HRS Fuse 50A cartridgefuse single phase** EQUIPMENT DAILY OUT PUT:
TOTAL QUANTITY OF WORK ITEM: 1 Pc RESULT:

Material Cost (1:01)					Labor (1:02)				
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	Indexed hourly Cost	Hourly Cost
HRS Fuse 50A /1 ph	Pc	1.00	35.00	35.00	Forman	1	0.25	23.75	5.9375
					Electrician	1	1	16.00	16
					Ele. Helper	1	1	10.00	10
Total (1:-01)				35.00	**Total (1:02)**				31.94

A=Materials U 35.00 Birr/Pc **B=Manpower Unit Cost** 12.78 Birr/Pc
Total of (1:02)
Daily Output
Direct Cost of work item = A+B+C =
Overhead Cost: 8%
Profit Cost: 7%
Total :

Remark _____
UF: UTILIZATION FACTOR **Total unit cost:**
*: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.
**: INCLUSIVE OF BENEFITS, TRAVEL SUBSIDES AND COST OF OVERTIME RELATED TO TARGETED OUTPUT.

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: **ELECTRICAL WORK / Fuse /** LABOR DAILY OUTPUT:
WORK ITEM:(17.40) **HRS Fuse 125A blade type single phase** EQUIPMENT DAILY OUT PUT:
TOTAL QUANTITY OF WORK ITEM: 1 Pc RESULT:

Material Cost (1:01)					Labor (1:02)				
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	Indexed hourly Cost	Hourly Cost
HRS Fuse 125A /1 ph	Pc	1.00	110.00	110.00	Forman	1	0.25	23.75	5.9375
					Electrician	1	1	16.00	16

_____ Data collected by _____ Prepared and checked by _____ Approved by

					Ele. Helper	1	1	10.00	10
Total (1:-01)				110.00	**Total (1:02)**				31.94

A=Materials U 110.00 Birr/Pc ***B=Manpower Unit Cost*** 12.78 Birr/Pc

Total of (1:02)

Daily Output

Direct Cost of work item = A+B+C =

Overhead Cost: 8%

Profit Cost: 7%

Total :

Remark _____

UF: UTILIZATION FACTOR ***Total unit cost:***

*: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.

**: INCLUSIVE OF BENEFITS, TRAVEL SUBSIDES AND COST OF OVERTIME RELATED TO TARGETED OUTPUT.

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: **ELECTRICAL WORK / Fuse /** LABOR DAILY OUTPUT:

WORK ITEM:(17.41) **HRS Fuse 630A blade type single phase** EQUIPMENT DAILY OUT PUT:

TOTAL QUANTITY OF WORK ITEM: 1 Pc RESULT:

Material Cost (1:01)					**Labor (1:02)**				
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	Indexed hourly Cost	Hourly Cost
HRS Fuse 630A /1 pl	Pc	1.00	410.00	410.00	Forman	1	0.25	23.75	5.9375
					Electrician	1	1	16.00	16
					Ele. Helper	1	1	10.00	10
Total (1:-01)				410.00	**Total (1:02)**				31.94

A=Materials U 410.00 Birr/Pc ***B=Manpower Unit Cost*** 12.78 Birr/Pc

Total of (1:02)

Daily Output

Direct Cost of work item = A+B+C =

Overhead Cost: 8%

Profit Cost: 7%

Total :

Remark _____

UF: UTILIZATION FACTOR ***Total unit cost:***

*: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.

**: INCLUSIVE OF BENEFITS, TRAVEL SUBSIDES AND COST OF OVERTIME RELATED TO TARGETED OUTPUT.

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: **ELECTRICAL WORK /Socket Fuse /** LABOR DAILY OUTPUT:

WORK ITEM:(17.42) **Socket single phase economic** EQUIPMENT DAILY OUT PUT:

TOTAL QUANTITY OF WORK ITEM: 1 Pc RESULT:

Material Cost (1:01)					**Labor (1:02)**				
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	Indexed hourly Cost	Hourly Cost
Socket Fuse 10A-40/	Pc	1.00		0.00	Forman	1	0.25		0
					Electrician	1	1		0
Total (1:-01)				0.00	**Total (1:02)**				0.00

A=Materials U 0.00 Birr/Pc ***B=Manpower Unit Cost*** 0.00 Birr/Pc

Total of (1:02)

_____ Data collected by _____ Prepared and checked by _____ Approved by

Daily Output

Direct Cost of work item = A+B+C =

Overhead Cost: 8%

Profit Cost: 7%

Total :

Remark _____

UF: UTILIZATION FACTOR **Total unit cost:**

*: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.

**: INCLUSIVE OF BENEFITS, TRAVEL SUBSIDES AND COST OF OVERTIME RELATED TO TARGETED OUTPUT.

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: **ELECTRICAL WORK /Socket Fuse /** LABOR DAILY OUTPUT:

WORK ITEM:(17.42) **Socket Fuse 10A-40A Carrier fuse single phase** EQUIPMENT DAILY OUT PUT:

TOTAL QUANTITY OF WORK ITEM: 1 Pc RESULT:

Material Cost (1:01)					Labor (1:02)				
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	Indexed hourly Cost	Hourly Cost
Socket Fuse 10A-40.	Pc	1.00	40.00	40.00	Forman	1	0.25	23.75	5.9375
					Electrician	1	1	16.00	16
					Ele. Helper	1	1	10.00	10
Total (1:-01)				40.00	**Total (1:02)**				31.94

A=Materials U 40.00 Birr/Pc **B=Manpower Unit Cost** 12.78 Birr/Pc

Total of (1:02)

Daily Output

Direct Cost of work item = A+B+C =

Overhead Cost: 8%

Profit Cost: 7%

Total :

Remark _____

UF: UTILIZATION FACTOR **Total unit cost:**

*: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.

**: INCLUSIVE OF BENEFITS, TRAVEL SUBSIDES AND COST OF OVERTIME RELATED TO TARGETED OUTPUT.

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: **ELECTRICAL WORK /Socket Fuse /** LABOR DAILY OUTPUT:

WORK ITEM:(17.43) **Socket Fuse 50A-63A Carrier fuse single phase** EQUIPMENT DAILY OUT PUT:

TOTAL QUANTITY OF WORK ITEM: 1 Pc RESULT:

Material Cost (1:01)					Labor (1:02)				
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	Indexed hourly Cost	Hourly Cost
Socket Fuse 50A-63.	Pc	1.00	91.00	91.00	Forman	1	0.25	23.75	5.9375
					Electrician	1	1	16.00	16
					Ele. Helper	1	1	10.00	10
Total (1:-01)				91.00	**Total (1:02)**				31.94

A=Materials U 91.00 Birr/Pc **B=Manpower Unit Cost** 12.78 Birr/Pc

Total of (1:02)

Daily Output

Direct Cost of work item = A+B+C =

Overhead Cost: 8%

Profit Cost: 7%

Total :

Remark _____

UF: UTILIZATION FACTOR **Total unit cost:**

*: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.

**: INCLUSIVE OF BENEFITS, TRAVEL SUBSIDES AND COST OF OVERTIME RELATED TO TARGETED OUTPUT.

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: **ELECTRICAL WORK /Socket Fuse /** LABOR DAILY OUTPUT:
WORK ITEM:(17.44) **Socket Fuse 800A Blade type single phase** EQUIPMENT DAILY OUT PUT:
TOTAL QUANTITY OF WORK ITEM: 1 Pc RESULT:

Material Cost (1:01)					Labor (1:02)				
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	Indexed hourly Cost	Hourly Cost
Socket Fuse 800A /1	Pc	1.00	399.00	399.00	Forman	1	0.25	23.75	5.9375
					Electrician	1	1	16.00	16
					Ele. Helper	1	1	10.00	10
Total (1:-01)				399.00	**Total (1:02)**				31.94

A=Materials U 399.00 Birr/Pc **B=Manpower Unit Cost** 12.78 Birr/Pc
Total of (1:02)
Daily Output
Direct Cost of work item = A+B+C =
Overhead Cost: 8%
Profit Cost: 7%
Total :

Remark _____
UF: UTILIZATION FACTOR **Total unit cost:**
*: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.
**: INCLUSIVE OF BENEFITS, TRAVEL SUBSIDES AND COST OF OVERTIME RELATED TO TARGETED OUTPUT.

Flexible round Cable

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: **ELECTRICAL WORK /Cable /** LABOR DAILY OUTPUT:
WORK ITEM:(17.45) **Flexible round cable 2x 2mm2** EQUIPMENT DAILY OUT PUT:
TOTAL QUANTITY OF WORK ITEM: 1 ml RESULT:

Material Cost (1:01)					Labor (1:02)				
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	Indexed hourly Cost	Hourly Cost
Cable 2x2mm2	ml	1.00	26.00	26.00	Forman	1	0.25	23.75	5.9375
					Electrician	1	1	16.00	16
					Ele. Helper	1	1	10.00	10
					DL	1	1	6.38	6.375
Total (1:-01)				26.00	**Total (1:02)**				38.31

A=Materials U 26.00 Birr/ml **B=Manpower Unit Cost** 12.26 Birr/ml
Total of (1:02)
Daily Output
Direct Cost of work item = A+B+C =
Overhead Cost: 8%
Profit Cost: 7%
Total :

Remark _____
UF: UTILIZATION FACTOR **Total unit cost:**
*: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.
**: INCLUSIVE OF BENEFITS, TRAVEL SUBSIDES AND COST OF OVERTIME RELATED TO TARGETED OUTPUT.

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: **ELECTRICAL WORK /Cable /** LABOR DAILY
WORK ITEM:(17.46) **Flexible round cable 2x 2.5mm2** EQUIPMENT D
TOTAL QUANTITY OF WORK ITEM: 1 ml RESULT:

Material Cost (1:01)					Labor (1:02)				
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	Indexed hourly Cost	Hourly Cost
Cable 2x2.5mm2	ml	1.00	30.00	30.00	Forman	1	0.25	23.75	5.94
					Electrician	1	1	16.00	16
					Ele. Helper	1	1	10.00	10
					Helper	1	1	6.38	6.375
Total (1:-01)				30.00	**Total (1:02)**				38.31

A=Materials U 30.00 Birr/ml ***B=Manpower Unit Cost*** 12.26 Birr/ml

Total of (1:02)

Daily Output

Direct Cost of work item = A+B+C =

Overhead Cost: 8%

Profit Cost: 7%

Total :

Remark _____

UF: UTILIZATION FACTOR **Total unit cost:**

*: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.

**: INCLUSIVE OF BENEFITS, TRAVEL SUBSIDES AND COST OF OVERTIME RELATED TO TARGETED OUTPUT.

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: **ELECTRICAL WORK /Cable /** LABOR DAILY OUTPUT:

WORK ITEM:(17.47) **Flexible round cable 2x 4mm2** EQUIPMENT DAILY OUT PUT:

TOTAL QUANTITY OF WORK ITEM: 1 ml RESULT:

Material Cost (1:01)					Labor (1:02)				
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	Indexed hourly Cost	Hourly Cost
Cable 2x4mm2	ml	1.00	45.00	45.00	Forman	1	0.25	23.75	5.9375
					Electrician	1	1	16.00	16
					Ele. Helper	1	1	10.00	10
					DL	1	1	6.38	6.375
Total (1:-01)				45.00	**Total (1:02)**				38.31

A=Materials U 45.00 Birr/ml ***B=Manpower Unit Cost*** 12.26 Birr/ml

Total of (1:02)

Daily Output

Direct Cost of work item = A+B+C =

Overhead Cost: 8%

Profit Cost: 7%

Total :

Remark _____

UF: UTILIZATION FACTOR **Total unit cost:**

*: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.

**: INCLUSIVE OF BENEFITS, TRAVEL SUBSIDES AND COST OF OVERTIME RELATED TO TARGETED OUTPUT.

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: **ELECTRICAL WORK /Cable /** LABOR DAILY OUTPUT:

WORK ITEM:(17.48) **Flexible round cable 3x6mm2** EQUIPMENT DAILY OUT PUT:

TOTAL QUANTITY OF WORK ITEM: 1 ml RESULT:

Material Cost (1:01)					Labor (1:02)				
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	Indexed hourly Cost	Hourly Cost
Cable 3x6mm2	ml	1.00	84.00	84.00	Forman	1	0.25	23.75	5.9375
					Electrician	1	1	16.00	16
					Ele. Helper	1	1	10.00	10
					Helper	1	1	6.38	6.375

Total (1:-01)				84.00	**Total (1:02)**				38.31

A=Materials U 84.00 Birr/ml ***B=Manpower Unit Cost*** 12.26 Birr/ml

Total of (1:02)

Daily Output

Direct Cost of work item = A+B+C =

Overhead Cost: 8%

Profit Cost: 7%

Total :

Remark _____

UF: UTILIZATION FACTOR **Total unit cost:**

*: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.

**: INCLUSIVE OF BENEFITS, TRAVEL SUBSIDES AND COST OF OVERTIME RELATED TO TARGETED OUTPUT.

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: **ELECTRICAL WORK / Rigid Cable /** LABOR DAILY OUTPUT:

WORK ITEM:(17.49) **Rigid round cable 3x10mm2** EQUIPMENT DAILY OUT PUT:

TOTAL QUANTITY OF WORK ITEM: 1 ml RESULT:

Material Cost (1:01)					**Labor (1:02)**				
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	Indexed hourly Cost	Hourly Cost
Cable 3x10mm2	ml	1.00	188.00	188.00	Forman	1	0.25	23.75	5.9375
					Electrician	1	1	16.00	16
					Ele. Helper	1	1	10.00	10
					Helper	1	1	6.38	6.375
Total (1:-01)				188.00	**Total (1:02)**				38.31

A=Materials U 188.00 Birr/ml ***B=Manpower Unit Cost*** 12.26 Birr/ml

Total of (1:02)

Daily Output

Direct Cost of work item = A+B+C =

Overhead Cost: 8%

Profit Cost: 7%

Total :

Remark _____

UF: UTILIZATION FACTOR **Total unit cost:**

*: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.

**: INCLUSIVE OF BENEFITS, TRAVEL SUBSIDES AND COST OF OVERTIME RELATED TO TARGETED OUTPUT.

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: **ELECTRICAL WORK / Rigid Cable /** LABOR DAILY OUTPUT:

WORK ITEM:(17.50) **Rigid round cable 3x16mm2** EQUIPMENT DAILY OUT PUT:

TOTAL QUANTITY OF WORK ITEM: 1 ml RESULT:

Material Cost (1:01)					**Labor (1:02)**				
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	Indexed hourly Cost	Hourly Cost
Cable 3x16mm2	ml	1.00	253.00	253.00	Forman	1	0.25	23.75	5.9375
					Electrician	1	1	16.00	16
					Ele. Helper	1	1	10.00	10
					Helper	1	1	6.38	6.375
Total (1:-01)				253.00	**Total (1:02)**				38.31

A=Materials U 253.00 Birr/ml ***B=Manpower Unit Cost*** 12.26 Birr/ml

Total of (1:02)

Daily Output

Direct Cost of work item = A+B+C =

Overhead Cost: 8%

Profit Cost: 7%

Total :

_____ Data collected by _____ Prepared and checked by _____ Approved by

Remark _____
UF: UTILIZATION FACTOR **Total unit cost:**
*: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.
**: INCLUSIVE OF BENEFITS, TRAVEL SUBSIDES AND COST OF OVERTIME RELATED TO TARGETED OUTPUT.

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: **ELECTRICAL WORK / Power Cable /** LABOR DAILY OUTPUT:
WORK ITEM:(17.51) **Power cable 3x35/16mm2** EQUIPMENT DAILY OUT PUT:
TOTAL QUANTITY OF WORK ITEM: 1 ml RESULT:

Material Cost (1:01)					Labor (1:02)				
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	Indexed hourly Cost	Hourly Cost
Cable 3x35/16mm2	ml	1.00	270.00	270.00	Forman	1	0.25	23.75	5.9375
					Electrician	1	1	16.00	16
					Ele. Helper	1	1	10.00	10
					Helper	1	1	6.38	6.375
Total (1:-01)				270.00	**Total (1:02)**				38.31

A=Materials U 270.00 Birr/ml **B=Manpower Unit Cost** 12.26 Birr/ml
Total of (1:02)
Daily Output
Direct Cost of work item = A+B+C =
Overhead Cost: 8%
Profit Cost: 7%
Total :

Remark _____
UF: UTILIZATION FACTOR **Total unit cost:**
*: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.
**: INCLUSIVE OF BENEFITS, TRAVEL SUBSIDES AND COST OF OVERTIME RELATED TO TARGETED OUTPUT.

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: **ELECTRICAL WORK / Power Cable /** LABOR DAILY OUTPUT:
WORK ITEM:(17.52) **Power cable 3x50/25mm2** EQUIPMENT DAILY OUT PUT:
TOTAL QUANTITY OF WORK ITEM: 1 ml RESULT:

Material Cost (1:01)					Labor (1:02)				
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	Indexed hourly Cost	Hourly Cost
Cable 3x50/25mm2	ml	1.00	640.00	640.00	Forman	1	0.25	23.75	5.9375
					Electrician	1	1	16.00	16
					Ele. Helper	1	1	10.00	10
					Helper	1	1	6.38	6.375
Total (1:-01)				640.00	**Total (1:02)**				38.31

A=Materials U 640.00 Birr/ml **B=Manpower Unit Cost** 12.26 Birr/ml
Total of (1:02)
Daily Output
Direct Cost of work item = A+B+C =
Overhead Cost: 8%
Profit Cost: 7%
Total :

Remark _____
UF: UTILIZATION FACTOR **Total unit cost:**
*: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.
**: INCLUSIVE OF BENEFITS, TRAVEL SUBSIDES AND COST OF OVERTIME RELATED TO TARGETED OUTPUT.

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: **ELECTRICAL WORK / Power Cable /** LABOR DAILY OUTPUT:
WORK ITEM:(17.53) **Power cable 3x70/35mm2** EQUIPMENT DAILY OUT PUT:
TOTAL QUANTITY OF WORK ITEM: 1 ml RESULT:

Material Cost (1:01)					Labor (1:02)				
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	Indexed hourly Cost	Hourly Cost
Cable 3x70/35mm2	ml	1.00	690.00	690.00	Forman	1	0.25	23.75	5.9375
					Electrician	1	1	16.00	16
					Ele. Helper	1	1	10.00	10
					Helper	1	1	6.38	6.375
Total (1:-01)				690.00	**Total (1:02)**				38.31

A=Materials U 690.00 Birr/ml ***B=Manpower Unit Cost*** 12.26 Birr/ml

Total of (1:02)

Daily Output

Direct Cost of work item = A+B+C =

Overhead Cost: 8%

Profit Cost: 7%

Total :

Remark _____

UF: UTILIZATION FACTOR **Total unit cost:**

*: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.

**: INCLUSIVE OF BENEFITS, TRAVEL SUBSIDES AND COST OF OVERTIME RELATED TO TARGETED OUTPUT.

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: **ELECTRICAL WORK / Bare Copper Wire /** LABOR DAILY OUTPUT:

WORK ITEM:(17.54) **Bare copper wire 1x6mm2** EQUIPMENT DAILY OUT PUT:

TOTAL QUANTITY OF WORK ITEM: 1 ml RESULT:

Material Cost (1:01)					Labor (1:02)				
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	Indexed hourly Cost	Hourly Cost
Bare copper wire 1	ml	1.00	16.00	16.00	Forman	1	0.25	23.75	5.9375
					Electrician	1	1	16.00	16
					Ele. Helper	1	1	10.00	10
					Helper	1	1	6.38	6.375
Total (1:-01)				16.00	**Total (1:02)**				38.31

A=Materials U 16.00 Birr/ml ***B=Manpower Unit Cost*** 20.43 Birr/ml

Total of (1:02)

Daily Output

Direct Cost of work item = A+B+C =

Overhead Cost: 8%

Profit Cost: 7%

Total :

Remark _____

UF: UTILIZATION FACTOR **Total unit cost:**

*: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.

**: INCLUSIVE OF BENEFITS, TRAVEL SUBSIDES AND COST OF OVERTIME RELATED TO TARGETED OUTPUT.

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: **ELECTRICAL WORK / Bare Copper Wire /** LABOR DAILY OUTPUT:

WORK ITEM:(17.55) **Bare copper wire 1x10mm2** EQUIPMENT DAILY OUT PUT:

TOTAL QUANTITY OF WORK ITEM: 1 ml RESULT:

Material Cost (1:01)					Labor (1:02)				
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	Indexed hourly Cost	Hourly Cost
Bare copper wire 1	ml	1.00	31.00	31.00	Forman	1	0.25	23.75	5.9375
					Electrician	1	1	16.00	16
					Ele. Helper	1	1	10.00	10
					Helper	1	1	6.38	6.375

Total (1:-01)	31.00	Total (1:02)	38.31

A=Materials U 31.00 Birr/ml **B=Manpower Unit Cost** 20.43 Birr/ml

Total of (1:02)

Daily Output

Direct Cost of work item = A+B+C =

Overhead Cost: 8%

Profit Cost: 7%

Total :

Remark _____

UF: UTILIZATION FACTOR **Total unit cost:**

*: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.

**: INCLUSIVE OF BENEFITS, TRAVEL SUBSIDES AND COST OF OVERTIME RELATED TO TARGETED OUTPUT.

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: **ELECTRICAL WORK / Bare Copper Wire /** LABOR DAILY OUTPUT:

WORK ITEM:(17.56) **Bare copper wire 1x16mm2** EQUIPMENT DAILY OUT PUT:

TOTAL QUANTITY OF WORK ITEM: 1 ml RESULT:

Material Cost (1:01)					Labor (1:02)				
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	Indexed hourly Cost	Hourly Cost
Bare copper wire 1	ml	1.00	42.00	42.00	Forman	1	0.25	23.75	5.9375
					Electrician	1	1	16.00	16
					Ele. Helper	1	1	10.00	10
					Helper	1	1	6.38	6.375
Total (1:-01)				42.00	Total (1:02)				38.31

A=Materials U 42.00 Birr/ml **B=Manpower Unit Cost** 20.43 Birr/ml

Total of (1:02)

Daily Output

Direct Cost of work item = A+B+C =

Overhead Cost: 8%

Profit Cost: 7%

Total :

Remark _____

UF: UTILIZATION FACTOR **Total unit cost:**

*: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.

**: INCLUSIVE OF BENEFITS, TRAVEL SUBSIDES AND COST OF OVERTIME RELATED TO TARGETED OUTPUT.

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: **ELECTRICAL WORK /Cable Tray /** LABOR DAILY OUTPUT:

WORK ITEM:(17.57) **Galvanized perforated sheet Cable tray of 100mm** EQUIPMENT DAILY OUT PUT:

TOTAL QUANTITY OF WORK ITEM: 1 ml RESULT:

Material Cost (1:01)					Labor (1:02)				
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	Indexed hourly Cost	Hourly Cost
Cable tray of 100m	ml	1.00	110.00	110.00	Forman	1	0.25	23.75	5.94
bolt & nut	No	4	3.50	14.00	Electrician	1	1	16.00	16.00
Fisher	No	4	1.50	6.00	Ele. Helper	1	1	10.00	10.00
steel support	No	1	18.00	18.00	Welder	1	1	14.25	14.25
Electrode	No	0.25	1.85	0.46	DL	2	1	6.38	12.75
Total (1:-01)				148.46	Total (1:02)				58.94

A=Materials U 148.46 Birr/ml **B=Manpower Unit Cost** 15.72 Birr/ml

Total of (1:02)

Daily Output

Direct Cost of work item = A+B+C =

Overhead Cost: 8%

Profit Cost: 7%

Total :

Remark _____

UF: UTILIZATION FACTOR **Total unit cost:**

*: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.
**: INCLUSIVE OF BENEFITS, TRAVEL SUBSIDES AND COST OF OVERTIME RELATED TO TARGETED OUTPUT.

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: **ELECTRICAL WORK /Cable Tray /** LABOR DAILY OUTPUT:
WORK ITEM:(17.58) **Galvanized perforated sheet Cable tray of 200mm** EQUIPMENT DAILY OUT PUT:
TOTAL QUANTITY OF WORK ITEM: 1 ml RESULT:

Material Cost (1:01)					Labor (1:02)				
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	Indexed hourly Cost	Hourly Cost
Cable tray of 200m	ml	1.00	145.00	145.00	Forman	1	0.25	23.75	5.9375
bolt & nut	No	4	3.50	14.00	Electrician	1	1	16.00	16
Fisher	No	4	1.50	6.00	Ele. Helper	1	1	10.00	10
steel support	No	1	18.00	18.00	Welder	1	1	14.25	14.25
Electrode	No	0.25	1.85	0.4625	DL	2	1	6.38	12.75
Total (1:-01)				183.46	**Total (1:02)**				58.94

A=Materials U 183.46 Birr/ml **B=Manpower Unit Cost** 15.72 Birr/ml
Total of (1:02)
Daily Output
Direct Cost of work item = A+B+C =
Overhead Cost: 8%
Profit Cost: 7%
Total :

Remark _____
UF: UTILIZATION FACTOR **Total unit cost:**
*: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.
**: INCLUSIVE OF BENEFITS, TRAVEL SUBSIDES AND COST OF OVERTIME RELATED TO TARGETED OUTPUT.

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: **ELECTRICAL WORK /Cable Tray /** LABOR DAILY OUTPUT:
WORK ITEM:(17.59) **Galvanized perforated sheet Cable tray of 400mm** EQUIPMENT DAILY OUT PUT:
TOTAL QUANTITY OF WORK ITEM: 1 ml RESULT:

Material Cost (1:01)					Labor (1:02)				
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	Indexed hourly Cost	Hourly Cost
Cable tray of 400m	ml	1.00	250.00	250.00	Forman	1	0.25	23.75	5.9375
bolt & nut	No	4	3.50	14.00	Electrician	1	1	16.00	16
Fisher	No	4	1.50	6.00	Ele. Helper	1	1	10.00	10
steel support	No	1	18.00	18.00	Welder	1	1	14.25	14.25
Electrode	No	0.25	1.85	0.4625	DL	2	1	6.38	12.75
Total (1:-01)				288.46	**Total (1:02)**				58.94

A=Materials U 288.46 Birr/ml **B=Manpower Unit Cost** 18.86 Birr/ml
Total of (1:02)
Daily Output
Direct Cost of work item = A+B+C =
Overhead Cost: 8%
Profit Cost: 7%
Total :

Remark _____
UF: UTILIZATION FACTOR **Total unit cost:**
*: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.
**: INCLUSIVE OF BENEFITS, TRAVEL SUBSIDES AND COST OF OVERTIME RELATED TO TARGETED OUTPUT.

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: **ELECTRICAL WORK /Cable Tray /** LABOR DAILY OUTPUT:
WORK ITEM:(17.60) **Galvanized perforated sheet Cable tray of 600mm** EQUIPMENT DAILY OUT PUT:
TOTAL QUANTITY OF WORK ITEM: 1 ml RESULT:

Material Cost (1:01)	Labor (1:02)

Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	Indexed hourly Cost	Hourly Cost
Cable tray of 600m	ml	1.00	330.00	330.00	Forman	1	0.25	23.75	5.9375
bolt & nut	No	4	3.50	14.00	Electrician	1	1	16.00	16
Fisher	No	4	1.50	6.00	Ele. Helper	1	1	10.00	10
Steel support	No	1	18.00	18.00	Welder	1	1	14.25	14.25
Electrode	No	0.25	1.85	0.4625	DL	2	1	6.38	12.75
Total (1:-01)				368.46	**Total (1:02)**				58.94

A=Materials U 368.46 Birr/ml

B=Manpower Unit Cost 23.58 Birr/ml

Total of (1:02)

Daily Output

Direct Cost of work item = A+B+C =

Overhead Cost: 8%

Profit Cost: 7%

Total :

Remark _____

UF: UTILIZATION FACTOR

Total unit cost:

*: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.

**: INCLUSIVE OF BENEFITS, TRAVEL SUBSIDES AND COST OF OVERTIME RELATED TO TARGETED OUTPUT.

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: ***ELECTRICAL WORK /Cable Tray /***

LABOR DAILY OUTPUT:

WORK ITEM:(17.61) ***Galvanized Cable Ladder of 100mm***

EQUIPMENT DAILY OUT PUT:

TOTAL QUANTITY OF WORK ITEM: 1 ml

RESULT:

Material Cost (1:01)					Labor (1:02)				
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	Indexed hourly Cost	Hourly Cost
Cable Ladder of 10	ml	1.00	85.00	85.00	Forman	1	0.25	23.75	5.9375
bolt & nut	No	4	3.50	14.00	Electrician	1	1	16.00	16
Fisher	No	4	1.50	6.00	Ele. Helper	1	1	10.00	10
steel support	No	1	18.00	18.00	Welder	1	1	14.25	14.25
Electrode	No	0.25	1.85	0.4625	DL	2	1	6.38	12.75
Total (1:-01)				123.46	**Total (1:02)**				58.94

A=Materials U 123.46 Birr/ml

B=Manpower Unit Cost 15.72 Birr/ml

Total of (1:02)

Daily Output

Direct Cost of work item = A+B+C =

Overhead Cost: 8%

Profit Cost: 7%

Total :

Remark _____

UF: UTILIZATION FACTOR

Total unit cost:

*: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.

**: INCLUSIVE OF BENEFITS, TRAVEL SUBSIDES AND COST OF OVERTIME RELATED TO TARGETED OUTPUT.

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: ***ELECTRICAL WORK /Cable Tray /***

LABOR DAILY OUTPUT:

WORK ITEM:(17.62) ***Galvanized Cable Ladder of 600mm***

EQUIPMENT DAILY OUT PUT:

TOTAL QUANTITY OF WORK ITEM: 1 ml

RESULT:

Material Cost (1:01)					Labor (1:02)				
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	Indexed hourly Cost	Hourly Cost
Cable Ladder of 40	ml	1.00	300.00	300.00	Forman	1	0.25	23.75	5.9375
bolt & nut	No	4	3.50	14.00	Electrician	1	1	16.00	16
Fisher	No	4	1.50	6.00	Ele. Helper	1	1	10.00	10
Steel support	No	1	18.00	18.00	Welder	1	1	14.25	14.25
Electrode	No	0.25	1.85	0.4625	DL	2	1	6.38	12.75

Total (1:-01)	338.46	Total (1:02)	58.94

A=Materials U 338.46 Birr/ml **B=Manpower Unit Cost** 23.58 Birr/ml

Total of (1:02)

Daily Output

Direct Cost of work item = A+B+C =

Overhead Cost: 8%

Profit Cost: 7%

Total :

Remark _____

UF: UTILIZATION FACTOR **Total unit cost:**

*: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.

**: INCLUSIVE OF BENEFITS, TRAVEL SUBSIDES AND COST OF OVERTIME RELATED TO TARGETED OUTPUT.

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: **ELECTRICAL WORK /Earthing system /** LABOR DAILY OUTPUT:

WORK ITEM:(17.63) **Earth electrodes of 0.6mx0.6mx3.15mm copper plate** EQUIPMENT DAILY OUT PUT:

TOTAL QUANTITY OF WORK ITEM: 1 ml RESULT:

Material Cost (1:01)					Labor (1:02)				
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	Indexed hourly Cost	Hourly Cost
Copper plate	No	1.00	550.00	550.00	Forman	1	0.25	23.75	5.9375
Connector clam	No	1	55.00	55.00	Electrician	1	1	16.00	16
Driving stud	No	1	30.00	30.00	Ele. Helper	1	1	10.00	10
					DL	2	1	6.38	12.75
Total (1:-01)				635.00	Total (1:02)				44.69

A=Materials U 635.00 Birr/ml **B=Manpower Unit Cost** 357.50 Birr/ml

Total of (1:02)

Daily Output

Direct Cost of work item = A+B+C =

Overhead Cost: 8%

Profit Cost: 7%

Total :

Remark _____

UF: UTILIZATION FACTOR **Total unit cost:**

*: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.

**: INCLUSIVE OF BENEFITS, TRAVEL SUBSIDES AND COST OF OVERTIME RELATED TO TARGETED OUTPUT.

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: **ELECTRICAL WORK /Earthing system /** LABOR DAILY OUTPUT:

WORK ITEM:(17.64) **Earth electrodes 2.5mx16mm dia. Copper rod** EQUIPMENT DAILY OUT PUT:

TOTAL QUANTITY OF WORK ITEM: 1 ml RESULT:

Material Cost (1:01)					Labor (1:02)				
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	Indexed hourly Cost	Hourly Cost
Copper rod	No	1.00	660.00	660.00	Forman	1	0.25	23.75	5.9375
Connector clam	No	1	55.00	55.00	Electrician	1	1	16.00	16
Driving stud	No	1	30.00	30.00	Ele. Helper	1	1	10.00	10
16mm rod coup	No.	1	60.00	60.00	DL	3	1	6.38	19.125
Total (1:-01)				805.00	Total (1:02)				51.06

A=Materials U 805.00 Birr/ml **B=Manpower Unit Cost** 408.50 Birr/ml

Total of (1:02)

Daily Output

Direct Cost of work item = A+B+C =

Overhead Cost: 8%

Profit Cost: 7%

Total :

Remark _____

UF: UTILIZATION FACTOR **Total unit cost:**
**: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.*
***: INCLUSIVE OF BENEFITS, TRAVEL SUBSIDES AND COST OF OVERTIME RELATED TO TARGETED OUTPUT.*

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: **ELECTRICAL WORK /Lightning arrestor /** *LABOR DAILY OUTPUT:*
WORK ITEM:(17.65) **Lightning arrestor** *EQUIPMENT DAILY OUT PUT:*
TOTAL QUANTITY OF WORK ITEM: 1 No *RESULT:*

Material Cost (1:01)					Labor (1:02)				
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	Indexed hourly Cost	Hourly Cost
Lightning preventor with accessories SI40,Test clamp for copper tap 25x3-25x6mm copper tap base 25x3mm,Air termination copper rod of 2m, Test junction box,Air termination base and multiple point.	No	1.00	4215.00	4215.00	Forman	1	0.25	23.75	5.9375
					Electrician	1	1	16.00	16
					Ele. Helper	2	1	10.00	20
					DL	2	1	6.38	12.75
Total (1:-01)				4215.00	**Total (1:02)**				54.69

A=Materials U 4215.00 Birr/ml **B=Manpower Unit Cost** 875.00 Birr/ml
Total of (1:02)
Daily Output
Direct Cost of work item = A+B+C =
Overhead Cost: 8%
Profit Cost: 7%
Total :

Remark _____
UF: UTILIZATION FACTOR **Total unit cost:**
**: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.*
***: INCLUSIVE OF BENEFITS, TRAVEL SUBSIDES AND COST OF OVERTIME RELATED TO TARGETED OUTPUT.*

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: **ELECTRICAL WORK /Fire Alarm system /** *LABOR DAILY OUTPUT:*
WORK ITEM:(17.66) **Fire Alarm Main control board** *EQUIPMENT DAILY OUT PUT:*
TOTAL QUANTITY OF WORK ITEM: 1 No *RESULT:*

Material Cost (1:01)					Labor (1:02)				
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	Indexed hourly Cost	Hourly Cost
Fire Alarm control b	pc	1.00	12760.00	12760.00	Forman	1	0.25	23.75	5.9375
					Electrician	2	1	16.00	32
					Ele. Helper	2	1	10.00	20
					DL	2	1	6.38	12.75
Total (1:-01)				12760.00	**Total (1:02)**				70.69

A=Materials U 12760.00 Birr/ml **B=Manpower Unit Cost** 2827.50 Birr/ml
Total of (1:02)
Daily Output
Direct Cost of work item = A+B+C =
Overhead Cost: 8%
Profit Cost: 7%
Total :

Remark _____
UF: UTILIZATION FACTOR **Total unit cost:**
**: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.*
***: INCLUSIVE OF BENEFITS, TRAVEL SUBSIDES AND COST OF OVERTIME RELATED TO TARGETED OUTPUT.*

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: **ELECTRICAL WORK /Fire Alarm system /** *LABOR DAILY OUTPUT:*
WORK ITEM:(17.67) **Fire Alarm repeater panal** *EQUIPMENT DAILY OUT PUT:*

TOTAL QUANTITY OF WORK ITEM: 1 No RESULT:

Material Cost (1:01)					Labor (1:02)				
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	Indexed hourly Cost	Hourly Cost
Fire Alarm repeater	pc	1.00	3210.00	3210.00	Forman	1	0.25	23.75	5.9375
Fisher	pc	4	1.50	6.00	Electrician	1	1	16.00	16
Screw	pc	4	0.50	2.00	Ele. Helper	1	1	10.00	10
					DL	1	1	6.38	6.375
Total (1:-01)				3218.00	Total (1:02)				38.31

A=Materials U 3218.00 Birr/ml **B=Manpower Unit Cost** 306.50 Birr/ml

Total of (1:02)

Daily Output

Direct Cost of work item = A+B+C =

Overhead Cost: 8%

Profit Cost: 7%

Total :

Remark _____

UF: UTILIZATION FACTOR **Total unit cost:**

*: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.

**: INCLUSIVE OF BENEFITS, TRAVEL SUBSIDES AND COST OF OVERTIME RELATED TO TARGETED OUTPUT.

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: **ELECTRICAL WORK /Fire Alarm system /** LABOR DAILY OUTPUT:

WORK ITEM:(17.68) **Siren (Alarm/bell) water proof** EQUIPMENT DAILY OUT PUT:

TOTAL QUANTITY OF WORK ITEM: 1 pt RESULT:

Material Cost (1:01)					Labor (1:02)				
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	Indexed hourly Cost	Hourly Cost
Siren(alarm/bell)	pc	1.00	900.00	900.00	Forman	1	0.25	23.75	5.9375
Fisher	pc	2	1.50	3.00	Electrician	1	1	16.00	16
Screw	pc	2	0.50	1.00	Ele. Helper	1	1	10.00	10
					DL	1	1	6.38	6.375
Total (1:-01)				904.00	Total (1:02)				38.31

A=Materials U 904.00 Birr/ml **B=Manpower Unit Cost** 61.30 Birr/ml

Total of (1:02)

Daily Output

Direct Cost of work item = A+B+C =

Overhead Cost: 8%

Profit Cost: 7%

Total :

Remark _____

UF: UTILIZATION FACTOR **Total unit cost:**

*: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.

**: INCLUSIVE OF BENEFITS, TRAVEL SUBSIDES AND COST OF OVERTIME RELATED TO TARGETED OUTPUT.

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: **ELECTRICAL WORK /Fire Alarm system /** LABOR DAILY OUTPUT:

WORK ITEM:(17.69) **Manual call box for alarm system** EQUIPMENT DAILY OUT PUT:

TOTAL QUANTITY OF WORK ITEM: 1 pt RESULT:

Material Cost (1:01)					Labor (1:02)				
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	Indexed hourly Cost	Hourly Cost
Manual call box	pc	1.00	350.00	350.00	Forman	1	0.25	23.75	5.9375
Fisher	pc	2	1.50	3.00	Electrician	1	1	16.00	16
Screw	pc	2	0.50	1.00	Ele. Helper	1	1	10.00	10
					DL	1	1	6.38	6.375

Total (1:-01)				354.00	**Total (1:02)**				38.31

A=Materials U 354.00 Birr/ml ***B=Manpower Unit Cost*** 61.30 Birr/ml

Total of (1:02)

Daily Output

Direct Cost of work item = A+B+C =

Overhead Cost: 8%

Profit Cost: 7%

Total :

Remark _____

UF: UTILIZATION FACTOR ***Total unit cost:***

*: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.

**: INCLUSIVE OF BENEFITS, TRAVEL SUBSIDES AND COST OF OVERTIME RELATED TO TARGETED OUTPUT.

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: **ELECTRICAL WORK /Fire Alarm system /** LABOR DAILY OUTPUT:

WORK ITEM:(17.70) **Break glass** EQUIPMENT DAILY OUT PUT:

TOTAL QUANTITY OF WORK ITEM: 1 pt RESULT:

Material Cost (1:01)					**Labor (1:02)**				
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	Indexed hourly Cost	Hourly Cost
Break Glass	pc	1.00	450.00	450.00	Forman	1	0.25	23.75	5.9375
Fisher	pc	2	1.50	3.00	Electrician	1	1	16.00	16
Screw	pc	2	0.50	1.00	Ele. Helper	1	1	10.00	10
					DL	1	1	6.38	6.375
Total (1:-01)				454.00	**Total (1:02)**				38.31

A=Materials U 454.00 Birr/ml ***B=Manpower Unit Cost*** 61.30 Birr/ml

Total of (1:02)

Daily Output

Direct Cost of work item = A+B+C =

Overhead Cost: 8%

Profit Cost: 7%

Total :

Remark _____

UF: UTILIZATION FACTOR ***Total unit cost:***

*: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.

**: INCLUSIVE OF BENEFITS, TRAVEL SUBSIDES AND COST OF OVERTIME RELATED TO TARGETED OUTPUT.

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: **ELECTRICAL WORK /Fire Alarm system /** LABOR DAILY OUTPUT:

WORK ITEM:(17.71) **Termosensor** EQUIPMENT DAILY OUT PUT:

TOTAL QUANTITY OF WORK ITEM: 1 pt RESULT:

Material Cost (1:01)					**Labor (1:02)**				
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	Indexed hourly Cost	Hourly Cost
Termosensor	pc	1.00	850.00	850.00	Forman	1	0.25	23.75	5.9375
Fisher	pc	2	1.50	3.00	Electrician	1	1	16.00	16
Screw	pc	2	0.50	1.00	Ele. Helper	1	1	10.00	10
					DL	1	1	6.38	6.375
Total (1:-01)				854.00	**Total (1:02)**				38.31

A=Materials U 854.00 Birr/ml ***B=Manpower Unit Cost*** 61.30 Birr/ml

Total of (1:02)

Daily Output

Direct Cost of work item = A+B+C =

Overhead Cost: 8%

Profit Cost: 7%

Total :

Remark _____

UF: UTILIZATION FACTOR **Total unit cost:**

*: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.

**: INCLUSIVE OF BENEFITS, TRAVEL SUBSIDES AND COST OF OVERTIME RELATED TO TARGETED OUTPUT.

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: **ELECTRICAL WORK /Fire Alarm system /** LABOR DAILY OUTPUT:

WORK ITEM:(17.72) **Smokesensor** EQUIPMENT DAILY OUT PUT:

TOTAL QUANTITY OF WORK ITEM: 1 pt RESULT:

Material Cost (1:01)					Labor (1:02)				
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	Indexed hourly Cost	Hourly Cost
Smokesensor	pc	1.00	800.00	800.00	Forman	1	0.25	23.75	5.9375
Fisher	pc	2	1.50	3.00	Electrician	1	1	16.00	16
Screw	pc	2	0.50	1.00	Ele. Helper	1	1	10.00	10
					DL	1	1	6.38	6.375
Total (1:-01)				804.00	**Total (1:02)**				38.31

A=Materials U 804.00 Birr/ml **B=Manpower Unit Cost** 61.30 Birr/ml

Total of (1:02)

Daily Output

Direct Cost of work item = A+B+C =

Overhead Cost: 8%

Profit Cost: 7%

Total :

Remark _____

UF: UTILIZATION FACTOR **Total unit cost:**

*: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.

**: INCLUSIVE OF BENEFITS, TRAVEL SUBSIDES AND COST OF OVERTIME RELATED TO TARGETED OUTPUT.

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: **ELECTRICAL WORK /Data outlet /** LABOR DAILY OUTPUT:

WORK ITEM:(17.73) **RJ45 outlet category 5E with 8 contacts** EQUIPMENT DAILY OUT PUT:

TOTAL QUANTITY OF WORK ITEM: 1 pt RESULT:

Material Cost (1:01)					Labor (1:02)				
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	Indexed hourly Cost	Hourly Cost
RJ45 outlet	pc	1.00	138.00	138.00	Forman	1	0.25	23.75	5.9375
					Electrician	1	1	16.00	16
Total (1:-01)				138.00	**Total (1:02)**				21.94

A=Materials U 138.00 Birr/ml **B=Manpower Unit Cost** 35.10 Birr/ml

Total of (1:02)

Daily Output

Direct Cost of work item = A+B+C =

Overhead Cost: 8%

Profit Cost: 7%

Total :

Remark _____

UF: UTILIZATION FACTOR **Total unit cost:**

*: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.

**: INCLUSIVE OF BENEFITS, TRAVEL SUBSIDES AND COST OF OVERTIME RELATED TO TARGETED OUTPUT.

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: **ELECTRICAL WORK /Data outlet /** LABOR DAILY OUTPUT:
WORK ITEM:(17.74) **RJ45 twin outlet category 5E with 8 contacts** EQUIPMENT DAILY OUT PUT:
TOTAL QUANTITY OF WORK ITEM: 1 pt RESULT:

Material Cost (1:01)					Labor (1:02)				
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	Indexed hourly Cost	Hourly Cost
RJ45 twin outlet	pc	1.00	245.00	245.00	Forman	1	0.25	23.75	5.9375
					Electrician	1	1	16.00	16
Total (1:-01)				245.00	**Total (1:02)**				21.94

A=Materials U 245.00 Birr/ml **B=Manpower Unit Cost** 35.10 Birr/ml
Total of (1:02)
Daily Output
Direct Cost of work item = A+B+C =
Overhead Cost: 8%
Profit Cost: 7%
Total :

Remark _____
UF: UTILIZATION FACTOR **Total unit cost:**
*: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.
**: INCLUSIVE OF BENEFITS, TRAVEL SUBSIDES AND COST OF OVERTIME RELATED TO TARGETED OUTPUT.

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: **ELECTRICAL WORK /Bell Call Indicator /** LABOR DAILY OUTPUT:
WORK ITEM:(17.75) **Bell 12V** EQUIPMENT DAILY OUT PUT:
TOTAL QUANTITY OF WORK ITEM: 1 pt RESULT:

Material Cost (1:01)					Labor (1:02)				
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	Indexed hourly Cost	Hourly Cost
Bell 12V	pc	1.00	68.00	68.00	Forman	1	0.25	23.75	5.9375
					Electrician	1	1	16.00	16
					Ele. Helper	1	1	10.00	10
Total (1:-01)				68.00	**Total (1:02)**				31.94

A=Materials U 68.00 Birr/ml **B=Manpower Unit Cost** 7.98 Birr/ml
Total of (1:02)
Daily Output
Direct Cost of work item = A+B+C =
Overhead Cost: 8%
Profit Cost: 7%
Total :

Remark _____
UF: UTILIZATION FACTOR **Total unit cost:**
*: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.
**: INCLUSIVE OF BENEFITS, TRAVEL SUBSIDES AND COST OF OVERTIME RELATED TO TARGETED OUTPUT.

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: **ELECTRICAL WORK /Bell Call Indicator /** LABOR DAILY OUTPUT:
WORK ITEM:(17.76) **Bell 220V** EQUIPMENT DAILY OUT PUT:
TOTAL QUANTITY OF WORK ITEM: 1 pt RESULT:

Material Cost (1:01)	Labor (1:02)

_____ Data collected by _____ Prepared and checked by _____ Approved by

Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	Indexed hourly Cost	Hourly Cost
Bell 220V	pc	1.00	68.00	68.00	Forman	1	0.25	23.75	5.94
					Electrician	1	1	16.00	16
					Ele. Helper	1	1	10.00	10
Total (1:-01)				68.00	**Total (1:02)**				31.94

A=Materials U 68.00 Birr/ml ***B=Manpower Unit Cost*** 63.88 Birr/ml

Total of (1:02)

Daily Output

Direct Cost of work item = A+B+C =

Overhead Cost: 8%

Profit Cost: 7%

Total :

Remark _____

UF: UTILIZATION FACTOR **Total unit cost:**

*: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.

**: INCLUSIVE OF BENEFITS, TRAVEL SUBSIDES AND COST OF OVERTIME RELATED TO TARGETED OUTPUT.

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: **ELECTRICAL WORK /Single socket/** LABOR DAILY OUTPUT:

WORK ITEM:(17.77) **Single socket economic** EQUIPMENT DAILY OUT PUT:

TOTAL QUANTITY OF WORK ITEM: 1 pt RESULT:

Material Cost (1:01)					**Labor (1:02)**				
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	Indexed hourly Cost	Hourly Cost
Socket	No	1.00	15.00	15.00	Forman	1	0.25	23.75	5.94
					Electrician	1	1	16.00	16
Total (1:-01)				15.00	**Total (1:02)**				21.94

A=Materials U 15.00 Birr/ml ***B=Manpower Unit Cost*** 8.78 Birr/ml

Total of (1:02)

Daily Output

Direct Cost of work item = A+B+C =

Overhead Cost: 8%

Profit Cost: 7%

Total :

Remark _____

UF: UTILIZATION FACTOR **Total unit cost:**

*: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.

**: INCLUSIVE OF BENEFITS, TRAVEL SUBSIDES AND COST OF OVERTIME RELATED TO TARGETED OUTPUT.

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: **ELECTRICAL WORK /SOCKET/** LABOR DAILY OUTPUT:

TOTAL QUANTITY OF WORK ITEM: 1 pt RESULT:

Material Cost (1:01)					**Labor (1:02)**				
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	Indexed hourly Cost	Hourly Cost
Socket	No	1.00	78.00	78.00	Forman	1	0.25	23.75	5.94
					Electrician	1	1	16.00	16

_____ Data collected by _____ Prepared and checked by _____ Approved by

Total (1:-01)	78.00	Total (1:02)	21.94

A=Materials U 78.00 Birr/ml **B=Manpower Unit Cost** 16.71 Birr/ml

Total of (1:02)

Daily Output

Direct Cost of work item = A+B+C =

Overhead Cost: 8%

Profit Cost: 7%

Total :

Remark _____

UF: UTILIZATION FACTOR **Total unit cost:**

*: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.

**: INCLUSIVE OF BENEFITS, TRAVEL SUBSIDES AND COST OF OVERTIME RELATED TO TARGETED OUTPUT.

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: **ELECTRICAL WORK /SOCKET/** LABOR DAILY OUTPUT:

TOTAL QUANTITY OF WORK ITEM: 1 pt RESULT:

Material Cost (1:01)					Labor (1:02)				
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	Indexed hourly Cost	Hourly Cost
Socket	No	1.00	90.00	90.00	Forman	1	0.25	23.75	5.94
					Electrician	1	1	16.00	16
Total (1:-01)				90.00	Total (1:02)				21.94

A=Materials U 90.00 Birr/ml **B=Manpower Unit Cost** 16.71 Birr/ml

Total of (1:02)

Daily Output

Direct Cost of work item = A+B+C =

Overhead Cost: 8%

Profit Cost: 7%

Total :

Remark _____

UF: UTILIZATION FACTOR **Total unit cost:**

*: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.

**: INCLUSIVE OF BENEFITS, TRAVEL SUBSIDES AND COST OF OVERTIME RELATED TO TARGETED OUTPUT.

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: **ELECTRICAL WORK /SOCKET/** LABOR DAILY OUTPUT:

TOTAL QUANTITY OF WORK ITEM: 1 pt RESULT:

Material Cost (1:01)					Labor (1:02)				
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	Indexed hourly Cost	Hourly Cost
Socket	No	1.00	102.00	102.00	Forman	1	0.25	23.75	5.94
					Electrician	1	1	16.00	16
Total (1:-01)				102.00	Total (1:02)				21.94

A=Materials U 102.00 Birr/ml **B=Manpower Unit Cost** 16.71 Birr/ml

Total of (1:02)

Daily Output

Direct Cost of work item = A+B+C =

Overhead Cost: 8%

Profit Cost: 7%

Total :

Remark _____

UF: UTILIZATION FACTOR **Total unit cost:**

*: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.
**: INCLUSIVE OF BENEFITS, TRAVEL SUBSIDES AND COST OF OVERTIME RELATED TO TARGETED OUTPUT.

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: **ELECTRICAL WORK /SOCKET/** LABOR DAILY OUTPUT:
TOTAL QUANTITY OF WORK ITEM: 1 pt RESULT:

Material Cost (1:01)					Labor (1:02)				
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	Indexed hourly Cost	Hourly Cost
Socket	No	1.00	120.00	120.00	Forman	1	0.25	23.75	5.94
					Electrician	1	1	16.00	16
Total (1:-01)				120.00	**Total (1:02)**				21.94

A=Materials U 120.00 Birr/ml **B=Manpower Unit Cost** 16.71 Birr/ml
Total of (1:02)
Daily Output
Direct Cost of work item = A+B+C =
Overhead Cost: 8%
Profit Cost: 7%
Total :

Remark _____
UF: UTILIZATION FACTOR **Total unit cost:**
*: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.
**: INCLUSIVE OF BENEFITS, TRAVEL SUBSIDES AND COST OF OVERTIME RELATED TO TARGETED OUTPUT.

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: **ELECTRICAL WORK /SOCKET/** LABOR DAILY OUTPUT:
TOTAL QUANTITY OF WORK ITEM: 1 pt RESULT:

Material Cost (1:01)					Labor (1:02)				
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	Indexed hourly Cost	Hourly Cost
Socket	No	1.00	155.00	155.00	Forman	1	0.25	23.75	5.94
					Electrician	1	1	16.00	16
Total (1:-01)				155.00	**Total (1:02)**				21.94

A=Materials U 155.00 Birr/ml **B=Manpower Unit Cost** 16.71 Birr/ml
Total of (1:02)
Daily Output
Direct Cost of work item = A+B+C =
Overhead Cost: 8%
Profit Cost: 7%
Total :

Remark _____
UF: UTILIZATION FACTOR **Total unit cost:**
*: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.
**: INCLUSIVE OF BENEFITS, TRAVEL SUBSIDES AND COST OF OVERTIME RELATED TO TARGETED OUTPUT.

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: **ELECTRICAL WORK /SOCKET/** LABOR DAILY OUTPUT:
TOTAL QUANTITY OF WORK ITEM: 1 pt RESULT:

Material Cost (1:01)					Labor (1:02)				
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	Indexed hourly Cost	Hourly Cost
Socket	No	1.00	102.00	102.00	Forman	1	0.25	23.75	5.94
					Electrician	1	1	16.00	16

_____ Data collected by _____ Prepared and checked by _____ Approved by

Total (1:-01)				102.00	**Total (1:02)**				21.94

A=Materials U 102.00 Birr/ml ***B=Manpower Unit Cost*** 16.71 Birr/ml

Total of (1:02)

Daily Output

Direct Cost of work item = A+B+C =

Overhead Cost: 8%

Profit Cost: 7%

Total :

Remark _____

UF: UTILIZATION FACTOR ***Total unit cost:***

*: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.

**: INCLUSIVE OF BENEFITS, TRAVEL SUBSIDES AND COST OF OVERTIME RELATED TO TARGETED OUTPUT.

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: ***ELECTRICAL WORK /SOCKET/*** LABOR DAILY OUTPUT:

TOTAL QUANTITY OF WORK ITEM: 1 pt RESULT:

Material Cost (1:01)					**Labor (1:02)**				
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	Indexed hourly Cost	Hourly Cost
Socket	No	1.00	135.00	135.00	Forman	1	0.25	23.75	5.94
					Electrician	1	1	16.00	16
Total (1:-01)				135.00	**Total (1:02)**				21.94

A=Materials U 135.00 Birr/ml ***B=Manpower Unit Cost*** 16.71 Birr/ml

Total of (1:02)

Daily Output

Direct Cost of work item = A+B+C =

Overhead Cost: 8%

Profit Cost: 7%

Total :

Remark _____

UF: UTILIZATION FACTOR ***Total unit cost:***

*: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.

**: INCLUSIVE OF BENEFITS, TRAVEL SUBSIDES AND COST OF OVERTIME RELATED TO TARGETED OUTPUT.

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: ***ELECTRICAL WORK /Single switch/*** LABOR DAILY OUTPUT:

WORK ITEM:(17.77) ***Single switch economic*** EQUIPMENT DAILY OUT PUT:

TOTAL QUANTITY OF WORK ITEM: 1 pt RESULT:

Material Cost (1:01)					**Labor (1:02)**				
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	Indexed hourly Cost	Hourly Cost
Single switch	No	1.00	15.00	15.00	Forman	1	0.25	23.75	5.94
					Electrician	1	1	16.00	16
Total (1:-01)				15.00	**Total (1:02)**				21.94

A=Materials U 15.00 Birr/ml **B=Manpower Unit Cost** 8.78 Birr/ml

Total of (1:02)

Daily Output

Direct Cost of work item = A+B+C =

Overhead Cost: 8%

Profit Cost: 7%

Total :

Remark _____

UF: UTILIZATION FACTOR **Total unit cost:**

*: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.

**: INCLUSIVE OF BENEFITS, TRAVEL SUBSIDES AND COST OF OVERTIME RELATED TO TARGETED OUTPUT.

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: **ELECTRICAL WORK /Single pole switch/** LABOR DAILY OUTPUT:

WORK ITEM:(17.77) **Single pole switch** EQUIPMENT DAILY OUT PUT:

TOTAL QUANTITY OF WORK ITEM: 1 pt RESULT:

Material Cost (1:01)					Labor (1:02)				
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	Indexed hourly Cost	Hourly Cost
Single pole switch	No	1.00	40.00	40.00	Forman	1	0.25	23.75	5.94
					Electrician	1	1	16.00	16
Total (1:-01)				40.00	Total (1:02)				21.94

A=Materials U 40.00 Birr/ml **B=Manpower Unit Cost** 16.71 Birr/ml

Total of (1:02)

Daily Output

Direct Cost of work item = A+B+C =

Overhead Cost: 8%

Profit Cost: 7%

Total :

Remark _____

UF: UTILIZATION FACTOR **Total unit cost:**

*: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.

**: INCLUSIVE OF BENEFITS, TRAVEL SUBSIDES AND COST OF OVERTIME RELATED TO TARGETED OUTPUT.

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: **ELECTRICAL WORK /Double pole switch/** LABOR DAILY OUTPUT:

WORK ITEM:(17.78) **Double pole switch** EQUIPMENT DAILY OUT PUT:

TOTAL QUANTITY OF WORK ITEM: 1 pt RESULT:

Material Cost (1:01)					Labor (1:02)				
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	Indexed hourly Cost	Hourly Cost
Double pole switch	No	1.00	60.00	60.00	Forman	1	0.25	23.75	5.94
					Electrician	1	1	16.00	16
Total (1:-01)				60.00	Total (1:02)				21.94

A=Materials U 60.00 Birr/ml **B=Manpower Unit Cost** 21.94 Birr/ml

Total of (1:02)

Daily Output

Direct Cost of work item = A+B+C =

Overhead Cost: 8%

Profit Cost: 7%

Total :

Remark _____

_____ Data collected by _____ Prepared and checked by _____ Approved by

UF: UTILIZATION FACTOR **Total unit cost:**
**: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.*
***: INCLUSIVE OF BENEFITS, TRAVEL SUBSIDES AND COST OF OVERTIME RELATED TO TARGETED OUTPUT.*

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: **ELECTRICAL WORK /Two way switch/** *LABOR DAILY OUTPUT:*
WORK ITEM:(17.79) **Two way switch** *EQUIPMENT DAILY OUT PUT:*
TOTAL QUANTITY OF WORK ITEM: *1 pt* *RESULT:*

Material Cost (1:01)					Labor (1:02)				
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	Indexed hourly Cost	Hourly Cost
Two way switch	No	1.00	42.00	42.00	Forman	1	0.25	23.75	5.94
					Electrician	1	1	16.00	16
Total (1:-01)				42.00	**Total (1:02)**				21.94

A=Materials U *42.00 Birr/ml* ***B=Manpower Unit Cost*** *21.94 Birr/ml*
Total of (1:02)
Daily Output
Direct Cost of work item = A+B+C =
Overhead Cost: *8%*
Profit Cost: *7%*
Total :

Remark _____
UF: UTILIZATION FACTOR **Total unit cost:**
**: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.*
***: INCLUSIVE OF BENEFITS, TRAVEL SUBSIDES AND COST OF OVERTIME RELATED TO TARGETED OUTPUT.*

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: **ELECTRICAL WORK /Two way switch/** *LABOR DAILY OUTPUT:*
WORK ITEM:(17.79) **Two way switch** *EQUIPMENT DAILY OUT PUT:*
TOTAL QUANTITY OF WORK ITEM: *1 pt* *RESULT:*

Material Cost (1:01)					Labor (1:02)				
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	Indexed hourly Cost	Hourly Cost
Two way switch	No	1.00	42.00	42.00	Forman	1	0.25	23.75	5.94
Wire	ml	1	12.00		Electrician	1	1	16.00	16
Total (1:-01)				42.00	**Total (1:02)**				21.94

A=Materials U *42.00 Birr/ml* ***B=Manpower Unit Cost*** *21.94 Birr/ml*
Total of (1:02)
Daily Output
Direct Cost of work item = A+B+C =
Overhead Cost: *8%*
Profit Cost: *7%*
Total :

Remark _____
UF: UTILIZATION FACTOR **Total unit cost:**
**: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.*
***: INCLUSIVE OF BENEFITS, TRAVEL SUBSIDES AND COST OF OVERTIME RELATED TO TARGETED OUTPUT.*

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: **ELECTRICAL WORK /Intermidate switch/** *LABOR DAILY OUTPUT:*

WORK ITEM:(17.80) ***Intermidate switch*** EQUIPMENT DAILY OUT PUT:
TOTAL QUANTITY OF WORK ITEM: 1 pt RESULT:

Material Cost (1:01)					Labor (1:02)				
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	Indexed hourly Cost	Hourly Cost
Intermidate switch	No	1.00	70.00	70.00	Forman	1	0.25	23.75	5.94
					Electrician	1	1	16.00	16
Total (1:-01)				70.00	Total (1:02)				21.94

A=Materials U 70.00 Birr/ml ***B=Manpower Unit Cost*** 21.94 Birr/ml
Total of (1:02)
Daily Output
Direct Cost of work item = A+B+C =
Overhead Cost: 8%
Profit Cost: 7%
Total :

Remark _____
UF: UTILIZATION FACTOR ***Total unit cost:***
*: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.
**: INCLUSIVE OF BENEFITS, TRAVEL SUBSIDES AND COST OF OVERTIME RELATED TO TARGETED OUTPUT.

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: ***ELECTRICAL WORK /3-gange switch/*** LABOR DAILY OUTPUT:
WORK ITEM:(17.80) ***3-gange switch*** EQUIPMENT DAILY OUT PUT:
TOTAL QUANTITY OF WORK ITEM: 1 pt RESULT:

Material Cost (1:01)					Labor (1:02)				
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	Indexed hourly Cost	Hourly Cost
3-gange switch	No	1.00	105.00	105.00	Forman	1	0.25	23.75	5.94
					Electrician	1	1	16.00	16
Total (1:-01)				105.00	Total (1:02)				21.94

A=Materials U 105.00 Birr/ml ***B=Manpower Unit Cost*** 21.94 Birr/ml
Total of (1:02)
Daily Output
Direct Cost of work item = A+B+C =
Overhead Cost: 8%
Profit Cost: 7%
Total :

Remark _____
UF: UTILIZATION FACTOR ***Total unit cost:***
*: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.
**: INCLUSIVE OF BENEFITS, TRAVEL SUBSIDES AND COST OF OVERTIME RELATED TO TARGETED OUTPUT.

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: ***ELECTRICAL WORK*** LABOR DAILY OUTPUT:
WORK ITEM:(17.81) ***Dimmer box type c consisting -12pcs Dimmers*** EQUIPMENT DAILY OUT PUT:
TOTAL QUANTITY OF WORK ITEM: 1 pt RESULT:

Material Cost (1:01)					Labor (1:02)				
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade	No.	UF	Indexed hourly Cost	Hourly Cost
12pcs Dimmers	No	1.00	6270.00	6270.00	Forman	1	0.25	23.75	5.94
					Electrician	1	1	16.00	16

Total (1:-01)				6270.00	**Total (1:02)**				21.94

A=Materials U 6270.00 Birr/ml

B=Manpower Unit Cost 117.00 Birr/ml

Total of (1:02)

Daily Output

Direct Cost of work item = A+B+C =

Overhead Cost: 8%

Profit Cost: 7%

Total :

Remark _____

UF: UTILIZATION FACTOR

Total unit cost:

**: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.*

***: INCLUSIVE OF BENEFITS, TRAVEL SUBSIDES AND COST OF OVERTIME RELATED TO TARGETED OUTPUT.*

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

PROJECT: ***ELECTRICAL WORK***

LABOR DAILY OUTPUT:

WORK ITEM:(17.82) ***Dimmer box type R,L and L/M consisting -6pcs Dimmers***

EQUIPMENT DAILY OUT PUT:

TOTAL QUANTITY OF WORK ITEM: 1 pt

RESULT:

Material Cost (1:01)					**Labor (1:02)**				
Type of Material	*Unit*	*Qty **	*Rate*	*Cost per Unit*	*Labor by Trade*	*No.*	*UF*	*Indexed hourly Cost*	*Hourly Cost*
6pcs Dimmers	No	1.00	2985.00	2985.00	Forman	1	0.25	23.75	5.94
					Electrician	1	1	16.00	16
Total (1:-01)				2985.00	**Total (1:02)**				21.94

A=Materials U 2985.00 Birr/ml

B=Manpower Unit Cost 87.75 Birr/ml

Total of (1:02)

Daily Output

Direct Cost of work item = A+B+C =

Overhead Cost: 8%

Profit Cost: 7%

Total :

Remark _____

UF: UTILIZATION FACTOR

Total unit cost:

**: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.*

***: INCLUSIVE OF BENEFITS, TRAVEL SUBSIDES AND COST OF OVERTIME RELATED TO TARGETED OUTPUT.*

0.75 Pc / hr
0.75 Pc / hr

390.73 *Birr/Pc*

Equipment Cost (1:03)			
Type of Equipment	*No.*	*Hourly Rental*	*Hourly Cost*
Hand tools	*4*	*1.28*	*5.12*
Total (1:03)			*5.12*

C=Equipment Unit Cost *6.83 Birr/Pc*
Total of (1:03)
Daily Output
339.41 *Birr/Pc*
27.15 Birr/Pc
25.66 Birr/Pc
390.73 Birr/Pc

390.73 *Birr/Pc*

0.75 Pc / hr
0.75 Pc / hr

593.34 *Birr/Pc*

Equipment Cost (1:03)			
Type of Equipment	*No.*	*Hourly Rental*	*Hourly Cost*
Hand tools	*4*	*1.28*	*5.12*
Total (1:03)			*5.12*

C=Equipment Unit Cost *6.83 Birr/Pc*
Total of (1:03)
Daily Output
515.41 *Birr/Pc*
41.23 Birr/Pc
38.96 Birr/Pc
593.34 Birr/Pc

593.34 *Birr/Pc*

0.75 Pc / hr
0.75 Pc / hr

655.50 *Birr/Pc*

Equipment Cost (1:03)			
Type of Equipment	*No.*	*Hourly Rental*	*Hourly Cost*

Hand tools	4	1.28	5.12
Total (1:03)			5.12

C=Equipment Unit Cost 6.83 Birr/Pc

Total of (1:03)

Daily Output

569.41	Birr/Pc
45.55	Birr/Pc
43.05	Birr/Pc
655.50	Birr/Pc
655.50	Birr/Pc

0.5 Pc / hr

0.5 Pc / hr

1351.64 Birr/Pc

Equipment Cost (1:03)			
Type of Equipment	No.	Hourly Rental	Hourly Cost
Hand tools	4	1.28	5.12
Total (1:03)			5.12

C=Equipment Unit Cost 10.24 Birr/Pc

Total of (1:03)

Daily Output

1174.12	Birr/Pc
93.93	Birr/Pc
88.76	Birr/Pc
1351.64	Birr/Pc
1351.64	Birr/Pc

0.125 Pc / hr

0.125 Pc / hr

7162.14 Birr/Pc

Equipment Cost (1:03)			
Type of Equipment	No.	Hourly Rental	Hourly Cost
Hand tools	4	1.28	5.12
Total (1:03)			5.12

C=Equipment Unit Cost 40.96 Birr/Pc

Total of (1:03)
Daily Output
6221.46 Birr/Pc
497.72 Birr/Pc
470.34 Birr/Pc
7162.14 Birr/Pc

7162.14 Birr/Pc

1.31 Pc / hr
1.31 Pc / hr
1126.42 Birr/Pc

Equipment Cost (1:03)			
Type of Equipment	No.	Hourly Rental	Hourly Cost
Hand tools	4	1.28	5.12
Total (1:03)			5.12

C=Equipment Unit Cost 3.90 Birr/Pc
Total of (1:03)
Daily Output
978.47 Birr/Pc
78.28 Birr/Pc
73.97 Birr/Pc
1126.42 Birr/Pc

1126.42 Birr/Pc

_____
Approved by

1 Pc / hr
1 Pc / hr
1262.14 Birr/Pc

Equipment Cost (1:03)			
Type of Equipment	No.	Hourly Rental	Hourly Cost
Hand tools	4	1.28	5.12
Total (1:03)			5.12

C=Equipment Unit Cost 5.12 Birr/Pc
Total of (1:03)
Daily Output
1096.37 Birr/Pc
87.71 Birr/Pc
82.89 Birr/Pc
1262.14 Birr/Pc

1262.14 Birr/Pc

0.5 Pc / hr
0.5 Pc / hr

695.00 Birr/Pc

Equipment Cost (1:03)			
Type of Equipment	No.	Hourly Rental	Hourly Cost
Hand tools	4	1.28	5.12
Total (1:03)			5.12

C=Equipment Unit Cost 10.24 Birr/Pc
Total of (1:03)
Daily Output
603.72 Birr/Pc
48.30 Birr/Pc
45.64 Birr/Pc
695.00 Birr/Pc

695.00 Birr/Pc

0.5 Pc / hr
0.5 Pc / hr

816.56 Birr/Pc

Equipment Cost (1:03)			
Type of Equipment	No.	Hourly Rental	Hourly Cost
Hand tools	4	1.28	5.12
Total (1:03)			5.12

C=Equipment Unit Cost 10.24 Birr/Pc
Total of (1:03)
Daily Output
709.32 Birr/Pc
56.75 Birr/Pc
53.62 Birr/Pc
816.56 Birr/Pc

816.56 Birr/Pc

0.5 Pc / hr
0.5 Pc / hr

1789.10 Birr/Pc

Equipment Cost (1:03)

Type of Equipment	No.	Hourly Rental	Hourly Cost
Hand tools	4	1.28	5.12
Total (1:03)			5.12

C=Equipment Unit Cost 10.24 Birr/Pc

Total of (1:03)

Daily Output

1554.12 Birr/Pc

124.33 Birr/Pc

117.49 Birr/Pc

1789.10 Birr/Pc

1789.10 Birr/Pc

0.5 Pc / hr

0.5 Pc / hr

2631.78 Birr/Pc

Equipment Cost (1:03)			
Type of Equipment	No.	Hourly Rental	Hourly Cost
Hand tools	4	1.28	5.12
Total (1:03)			5.12

C=Equipment Unit Cost 10.24 Birr/Pc

Total of (1:03)

Daily Output

2286.12 Birr/Pc

182.89 Birr/Pc

172.83 Birr/Pc

2631.78 Birr/Pc

2631.78 Birr/Pc

OUTPUT: 1.31 Pc / hr

DAILY OUT PUT: 1.31 Pc / hr

591.11 Birr/Pc

Equipment Cost (1:03)

Type of Equipment	No.	Hourly Rental	Hourly Cost
Hand tools	4	1.28	5.12
Total (1:03)			5.12

C=Equipment Unit Cost 3.90 Birr/Pc

Total of (1:03)

Daily Output

513.47	Birr/Pc
41.08	Birr/Pc
38.82	Birr/Pc
591.11	Birr/Pc
591.11	Birr/Pc

1.31 Pc / hr

1.31 Pc / hr

671.69 Birr/Pc

Equipment Cost (1:03)			
Type of Equipment	No.	Hourly Rental	Hourly Cost
Hand tools	4	1.28	5.12
Total (1:03)			5.12

C=Equipment Unit Cost 3.90 Birr/Pc

Total of (1:03)

Daily Output

583.47	Birr/Pc
46.68	Birr/Pc
44.11	Birr/Pc
671.69	Birr/Pc
671.69	Birr/Pc

1.31 Pc / hr

1.31 Pc / hr

671.69 Birr/Pc

Equipment Cost (1:03)			
Type of Equipment	No.	Hourly Rental	Hourly Cost
Hand tools	4	1.28	5.12

Total (1:03)			5.12

C=Equipment Unit Cost 3.90 Birr/Pc

Total of (1:03)

Daily Output

583.47 *Birr/Pc*

46.68 Birr/Pc

44.11 Birr/Pc

671.69 Birr/Pc

671.69 *Birr/Pc*

OUTPUT: *1.31 Pc / hr*

DAILY OUT PUT:

809.84 *Birr/Pc*

Equipment Cost (1:03)			
Type of Equipment	*No.*	*Hourly Rental*	*Hourly Cost*
Hand tools	*4*	*1.28*	*5.12*
Total (1:03)			5.12

C=Equipment Unit Cost 3.90 Birr/Pc

Total of (1:03)

Daily Output

703.47 *Birr/Pc*

56.28 Birr/Pc

53.18 Birr/Pc

809.84 Birr/Pc

809.84 *Birr/Pc*

1.31 Pc / hr

1.31 Pc / hr

660.18 *Birr/Pc*

Equipment Cost (1:03)			
Type of Equipment	*No.*	*Hourly Rental*	*Hourly Cost*
Hand tools	*4*	*1.28*	*5.12*
Total (1:03)			5.12

C=Equipment Unit Cost 3.90 Birr/Pc

Total of (1:03)

Daily Output

573.47 *Birr/Pc*

45.88 Birr/Pc
43.35 Birr/Pc
660.18 Birr/Pc

660.18 Birr/Pc

1.31 Pc / hr
1.31 Pc / hr

798.33 Birr/Pc

Equipment Cost (1:03)			
Type of Equipment	No.	Hourly Rental	Hourly Cost
Hand tools	4	1.28	5.12
Total (1:03)			5.12

C=Equipment Unit Cost 3.90 Birr/Pc

Total of (1:03)

Daily Output

693.47 Birr/Pc
55.48 Birr/Pc
52.43 Birr/Pc
798.33 Birr/Pc

798.33 Birr/Pc

1.31 Pc / hr
1.31 Pc / hr

1776.85 Birr/Pc

Equipment Cost (1:03)			
Type of Equipment	No.	Hourly Rental	Hourly Cost
Hand tools	4	1.28	5.12
Total (1:03)			5.12

C=Equipment Unit Cost 3.90 Birr/Pc

Total of (1:03)

Daily Output

1543.47 Birr/Pc
123.48 Birr/Pc
116.69 Birr/Pc
1776.85 Birr/Pc

1776.85 Birr/Pc

1.31 Pc / hr

1.31 Pc / hr

2352.45 Birr/Pc

Equipment Cost (1:03)			
Type of Equipment	No.	Hourly Rental	Hourly Cost
Hand tools	4	1.28	5.12
Total (1:03)			5.12

C=Equipment Unit Cost 3.90 Birr/Pc

Total of (1:03)

Daily Output

2043.47 Birr/Pc

163.48 Birr/Pc

154.49 Birr/Pc

2352.45 Birr/Pc

2352.45 Birr/Pc

1.31 Pc / hr

1.31 Pc / hr

683.21 Birr/Pc

Equipment Cost (1:03)			
Type of Equipment	No.	Hourly Rental	Hourly Cost
Hand tools	4	1.28	5.12
Total (1:03)			5.12

C=Equipment Unit Cost 3.90 Birr/Pc

Total of (1:03)

Daily Output

593.47 Birr/Pc

47.48 Birr/Pc

44.87 Birr/Pc

683.21 Birr/Pc

683.21 Birr/Pc

1.31 Pc / hr

1.31 Pc / hr

855.89 Birr/Pc

Equipment Cost (1:03)			
Type of Equipment	No.	Hourly Rental	Hourly Cost

Hand tools	4	1.28	5.12
Total (1:03)			5.12

C=Equipment Unit Cost 3.90 Birr/Pc

Total of (1:03)

Daily Output

743.47	Birr/Pc
59.48	Birr/Pc
56.21	Birr/Pc
855.89	Birr/Pc
855.89	Birr/Pc

OUTPUT: 1 Pc / hr

DAILY OUT PUT: 1 Pc / hr

2598.32 Birr/Pc

Equipment Cost (1:03)			
Type of Equipment	No.	Hourly Rental	Hourly Cost
Hand tools	4	1.28	5.12
Total (1:03)			5.12

C=Equipment Unit Cost 5.12 Birr/Pc

Total of (1:03)

Daily Output

2257.06	Birr/Pc
180.56	Birr/Pc
170.63	Birr/Pc
2598.32	Birr/Pc
2598.32	Birr/Pc

OUTPUT: 1 Pc / hr

DAILY OUT PUT: 1 Pc / hr

2828.56 Birr/Pc

Equipment Cost (1:03)			
Type of Equipment	No.	Daily Rental	Daily Cost
Hand tools	4	1.28	5.12
Total (1:03)			5.12

C=Equipment Unit Cost *5.12 Birr/Pc*

Total of (1:03)

Daily Output

2457.06 *Birr/Pc*

196.56 Birr/Pc

185.75 Birr/Pc

2828.56 Birr/Pc

2828.56 *Birr/Pc*

OUTPUT: *0.125 Pc / hr*

DAILY OUT PUT: *0.125 Pc / hr*

924.37 *Birr/Pc*

Equipment Cost (1:03)			
Type of Equipment	*No.*	*Hourly Rental*	*Hourly Cost*
Hand tools	*4*	*1.28*	*5.12*
Total (1:03)			*5.12*

C=Equipment Unit Cost *40.96 Birr/Pc*

Total of (1:03)

Daily Output

802.96 *Birr/Pc*

64.24 Birr/Pc

60.70 Birr/Pc

924.37 Birr/Pc

924.37 *Birr/Pc*

0.125 Pc / hr

0.125 Pc / hr

924.37 *Birr/Pc*

Equipment Cost (1:03)			
Type of Equipment	*No.*	*Hourly Rental*	*Hourly Cost*
Hand tools	*4*	*1.28*	*5.12*
Total (1:03)			*5.12*

C=Equipment Unit Cost *40.96 Birr/Pc*

Total of (1:03)

Daily Output

802.96 *Birr/Pc*

64.24 Birr/Pc

60.70 Birr/Pc

924.37 Birr/Pc

924.37 *Birr/Pc*

OUTPUT: 0.06 Pc / hr
DAILY OUT PUT: 0.06 Pc / hr
1432.00 Birr/Pc

Equipment Cost (1:03)			
Type of Equipment	No.	Hourly Rental	Hourly Cost
Hand tools	4	1.28	5.12
Total (1:03)			5.12

C=Equipment Unit Cost 81.92 Birr/Pc
Total of (1:03)
Daily Output
1243.92 Birr/Pc
99.51 Birr/Pc
94.04 Birr/Pc
1432.00 Birr/Pc

1432.00 Birr/Pc

OUTPUT: 0.063 Pc / hr
DAILY OUT PUT: 0.063 Pc / hr
1906.30 Birr/Pc

Equipment Cost (1:03)			
Type of Equipment	No.	Hourly Rental	Hourly Cost
Hand tools	4	1.28	5.12
Total (1:03)			5.12

C=Equipment Unit Cost 81.92 Birr/Pc
Total of (1:03)
Daily Output
1655.92 Birr/Pc
132.47 Birr/Pc
125.19 Birr/Pc
1906.30 Birr/Pc

1906.30 Birr/Pc

0.063 Pc / hr
0.063 Pc / hr
1514.89 Birr/Pc

Equipment Cost (1:03)			
Type of Equipment	No.	Hourly Rental	Hourly Cost
Hand tools	4	1.28	5.12
Total (1:03)			5.12

C=Equipment Unit Cost 81.92 Birr/Pc

Total of (1:03)

Daily Output

1315.92	Birr/Pc
105.27	Birr/Pc
99.48	Birr/Pc
1514.89	Birr/Pc
1514.89	Birr/Pc

0.063 Pc / hr

0.063 Pc / hr

1556.33 Birr/Pc

Equipment Cost (1:03)			
Type of Equipment	No.	Hourly Rental	Hourly Cost
Hand tools	4	1.28	5.12
Total (1:03)			5.12

C=Equipment Unit Cost 81.92 Birr/Pc

Total of (1:03)

Daily Output

1351.92	Birr/Pc
108.15	Birr/Pc
102.21	Birr/Pc
1556.33	Birr/Pc
1556.33	Birr/Pc

0.063 Pc / hr

0.063 Pc / hr

2021.42 Birr/Pc

Equipment Cost (1:03)			
Type of Equipment	No.	Hourly Rental	Hourly Cost
Hand tools	4	1.28	5.12

Total (1:03)			5.12

C=Equipment Unit Cost 81.92 Birr/Pc

Total of (1:03)

Daily Output

1755.92 Birr/Pc

140.47 Birr/Pc

132.75 Birr/Pc

2021.42 Birr/Pc

2021.42 Birr/Pc

0.025 Pc / hr

0.025 Pc / hr

7868.22 Birr/Pc

Equipment Cost (1:03)			
Type of Equipment	No.	Hourly Rental	Hourly Cost
Hand tools	4	1.28	5.12
Total (1:03)			5.12

C=Equipment Unit Cost 204.80 Birr/Pc

Total of (1:03)

Daily Output

6834.80 Birr/Pc

546.78 Birr/Pc

516.71 Birr/Pc

7868.22 Birr/Pc

7868.22 Birr/Pc

0.063 Pc / hr

0.063 Pc / hr

8958.55 Birr/Pc

Equipment Cost (1:03)			
Type of Equipment	No.	Hourly Rental	Hourly Cost
Hand tools	4	1.28	5.12
Total (1:03)			5.12

C=Equipment Unit Cost 81.92 Birr/Pc

Total of (1:03)

Daily Output

7781.92 Birr/Pc

622.55 Birr/Pc
588.31 Birr/Pc
8958.55 Birr/Pc

8958.55 Birr/Pc

0.063 Pc / hr
0.063 Pc / hr

11525.72 Birr/Pc

Equipment Cost (1:03)			
Type of Equipment	No.	Hourly Rental	Hourly Cost
Hand tools	4	1.28	5.12
Total (1:03)			5.12

C=Equipment Unit Cost 81.92 Birr/Pc

Total of (1:03)
Daily Output

10011.92 Birr/Pc
800.95 Birr/Pc
756.90 Birr/Pc
11525.72 Birr/Pc

11525.72 Birr/Pc

OUTPUT: 0.5 Pc / hr
DAILY OUT PUT: 0.5 Pc / hr

148.64 Birr/Pc

Equipment Cost (1:03)			
Type of Equipment	No.	Hourly Rental	Hourly Cost
Hand tools	4	1.28	5.12
Total (1:03)			5.12

C=Equipment Unit Cost 10.24 Birr/Pc

Total of (1:03)
Daily Output

129.12 Birr/Pc
10.33 Birr/Pc
9.76 Birr/Pc
148.64 Birr/Pc

148.64 Birr/Pc

0.5 Pc / hr
0.5 Pc / hr

223.47 Birr/Pc

Equipment Cost (1:03)			
Type of Equipment	No.	Hourly Rental	Hourly Cost
Hand tools	4	1.28	5.12
Total (1:03)			5.12

C=Equipment Unit Cost 10.24 Birr/Pc
Total of (1:03)
Daily Output
194.12 Birr/Pc
15.53 Birr/Pc
14.68 Birr/Pc
223.47 Birr/Pc

223.47 Birr/Pc

OUTPUT: 0.5 Pc / hr
DAILY OUT PUT: 0.5 Pc / hr
327.07 Birr/Pc

Equipment Cost (1:03)			
Type of Equipment	No.	Hourly Rental	Hourly Cost
Hand tools	4	1.28	5.12
Total (1:03)			5.12

C=Equipment Unit Cost 10.24 Birr/Pc
Total of (1:03)
Daily Output
284.12 Birr/Pc
22.73 Birr/Pc
21.48 Birr/Pc
327.07 Birr/Pc

327.07 Birr/Pc

0.5 Pc / hr
0.5 Pc / hr

465.22 Birr/Pc

Equipment Cost (1:03)			
Type of Equipment	No.	Hourly Rental	Hourly Cost
Hand tools	4	1.28	5.12

Total (1:03)			5.12

C=Equipment Unit Cost 10.24 Birr/Pc

Total of (1:03)

Daily Output

404.12 *Birr/Pc*

32.33 Birr/Pc

30.55 Birr/Pc

465.22 Birr/Pc

465.22 *Birr/Pc*

0.5 Pc / hr

0.5 Pc / hr

545.80 *Birr/Pc*

Equipment Cost (1:03)			
Type of Equipment	*No.*	*Hourly Rental*	*Hourly Cost*
Hand tools	*4*	*1.28*	*5.12*
Total (1:03)			5.12

C=Equipment Unit Cost 10.24 Birr/Pc

Total of (1:03)

Daily Output

474.12 *Birr/Pc*

37.93 Birr/Pc

35.84 Birr/Pc

545.80 Birr/Pc

545.80 *Birr/Pc*

0.5 Pc / hr

0.5 Pc / hr

1581.88 *Birr/Pc*

Equipment Cost (1:03)			
Type of Equipment	*No.*	*Hourly Rental*	*Hourly Cost*
Hand tools	*4*	*1.28*	*5.12*
Total (1:03)			5.12

C=Equipment Unit Cost *10.24 Birr/Pc*

Total of (1:03)

Daily Output

1374.12 *Birr/Pc*

109.93 Birr/Pc

103.88 Birr/Pc

1581.88 Birr/Pc

1581.88 *Birr/Pc*

0.5 Pc / hr

0.5 Pc / hr

1927.24 *Birr/Pc*

Equipment Cost (1:03)			
Type of Equipment	*No.*	*Hourly Rental*	*Hourly Cost*
Hand tools	*4*	*1.28*	*5.12*
Total (1:03)			*5.12*

C=Equipment Unit Cost *10.24 Birr/Pc*

Total of (1:03)

Daily Output

1674.12 *Birr/Pc*

133.93 Birr/Pc

126.56 Birr/Pc

1927.24 Birr/Pc

1927.24 *Birr/Pc*

0.5 Pc / hr

0.5 Pc / hr

2387.72 *Birr/Pc*

Equipment Cost (1:03)			
Type of Equipment	*No.*	*Hourly Rental*	*Hourly Cost*
Hand tools	*4*	*1.28*	*5.12*
Total (1:03)			*5.12*

C=Equipment Unit Cost *10.24 Birr/Pc*

Total of (1:03)

Daily Output

2074.12 *Birr/Pc*

165.93 Birr/Pc

156.80 Birr/Pc

2387.72 Birr/Pc

2387.72 Birr/Pc

OUTPUT: 0.5 Pc / hr
DAILY OUT PUT: 0.5 Pc / hr
3769.16 Birr/Pc

Equipment Cost (1:03)			
Type of Equipment	No.	Hourly Rental	Hourly Cost
Hand tools	4	1.28	5.12
Total (1:03)			5.12

C=Equipment Unit Cost 10.24 Birr/Pc
Total of (1:03)
Daily Output
3274.12 Birr/Pc
261.93 Birr/Pc
247.52 Birr/Pc
3769.16 Birr/Pc

3769.16 Birr/Pc

OUTPUT: 0.5 Pc / hr
DAILY OUT PUT: 0.5 Pc / hr
3377.75 Birr/Pc

Equipment Cost (1:03)			
Type of Equipment	No.	Hourly Rental	Hourly Cost
Hand tools	4	1.28	5.12
Total (1:03)			5.12

C=Equipment Unit Cost 10.24 Birr/Pc
Total of (1:03)
Daily Output
2934.12 Birr/Pc
234.73 Birr/Pc
221.82 Birr/Pc
3377.75 Birr/Pc

3377.75 Birr/Pc

2.5 Pc / hr
2.5 Pc / hr

49.30 Birr/Pc

Equipment Cost (1:03)			
Type of Equipment	No.	Hourly Rental	Hourly Cost
Hand tools	4	1.28	5.12
Total (1:03)			5.12

C=Equipment Unit Cost 2.05 Birr/Pc
Total of (1:03)
Daily Output
42.82 Birr/Pc
3.43 Birr/Pc
3.24 Birr/Pc
49.30 Birr/Pc

49.30 Birr/Pc

2.5 Pc / hr
2.5 Pc / hr

57.36 Birr/Pc

Equipment Cost (1:03)			
Type of Equipment	No.	Hourly Rental	Hourly Cost
Hand tools	4	1.28	5.12
Total (1:03)			5.12

C=Equipment Unit Cost 2.05 Birr/Pc
Total of (1:03)
Daily Output
49.82 Birr/Pc
3.99 Birr/Pc
3.77 Birr/Pc
57.36 Birr/Pc

57.36 Birr/Pc

2.5 Pc / hr
2.5 Pc / hr

143.70 Birr/Pc

Equipment Cost (1:03)			
Type of Equipment	No.	Hourly Rental	Hourly Cost
Hand tools	4	1.28	5.12

Total (1:03)			*5.12*

C=Equipment Unit Cost *2.05 Birr/Pc*

Total of (1:03)

Daily Output

124.82 *Birr/Pc*

9.99 Birr/Pc

9.44 Birr/Pc

143.70 Birr/Pc

143.70 *Birr/Pc*

2.5 Pc / hr

2.5 Pc / hr

489.06 *Birr/Pc*

Equipment Cost (1:03)			
Type of Equipment	*No.*	*Hourly Rental*	*Hourly Cost*
Hand tools	*4*	*1.28*	*5.12*
Total (1:03)			*5.12*

C=Equipment Unit Cost *2.05 Birr/Pc*

Total of (1:03)

Daily Output

424.82 *Birr/Pc*

33.99 Birr/Pc

32.12 Birr/Pc

489.06 Birr/Pc

489.06 *Birr/Pc*

2.5 Pc / hr

2.5 Pc / hr

0.00 *Birr/Pc*

Equipment Cost (1:03)			
Type of Equipment	*No.*	*Hourly Rental*	*Hourly Cost*
Hand tools	*4*		*0*
Total (1:03)			*0*

C=Equipment Unit Cost *0.00 Birr/Pc*

Total of (1:03)

Daily Output

0.00	Birr/Pc
0.00	Birr/Pc
0.00	Birr/Pc
0.00	Birr/Pc
0.00	Birr/Pc

2.5 Pc / hr

2.5 Pc / hr

63.11 Birr/Pc

Equipment Cost (1:03)			
Type of Equipment	No.	Hourly Rental	Hourly Cost
Hand tools	4	1.28	5.12
Total (1:03)			5.12

C=Equipment Unit Cost 2.05 Birr/Pc

Total of (1:03)

Daily Output

54.82	Birr/Pc
4.39	Birr/Pc
4.14	Birr/Pc
63.11	Birr/Pc
63.11	Birr/Pc

2.5 Pc / hr

121.82 Birr/Pc

Equipment Cost (1:03)			
Type of Equipment	No.	Hourly Rental	Hourly Cost
Hand tools	4	1.28	5.12
Total (1:03)			5.12

C=Equipment Unit Cost 2.05 Birr/Pc

Total of (1:03)

Daily Output

105.82	Birr/Pc
8.47	Birr/Pc
8.00	Birr/Pc
121.82	Birr/Pc
121.82	Birr/Pc

2.5 Pc / hr

476.39 Birr/Pc

Equipment Cost (1:03)			
Type of Equipment	No.	Hourly Rental	Hourly Cost
Hand tools	4	1.28	5.12
Total (1:03)			5.12

C=Equipment Unit Cost 2.05 Birr/Pc

Total of (1:03)

Daily Output

413.82 Birr/Pc

33.11 Birr/Pc

31.29 Birr/Pc

476.39 Birr/Pc

476.39 Birr/Pc

3.125 ml /hr

44.99 Birr/ml

Equipment Cost (1:03)			
Type of Equipment	No.	Hourly Rental	Hourly Cost
Hand tools	2	1.28	2.56
Total (1:03)			2.56

C=Equipment Unit Cost 0.82 Birr/ml

Total of (1:03)

Daily Output

39.08 Birr/ml

3.13 Birr/ml

2.95 Birr/ml

44.99 Birr/ml

44.99 Birr/ml

OUTPUT: 3.125 ml / hr

DAILY OUT PUT:

49.59 Birr/ml

Equipment Cost (1:03)			
Type of Equipment	No.	Hourly Rental	Hourly Cost
Hand tools	2	1.28	2.56
Total (1:03)			2.56

C=Equipment Unit Cost 0.82 Birr/ml

Total of (1:03)

Daily Output

43.08 Birr/ml

3.45 Birr/ml

3.26 Birr/ml

49.59 Birr/ml

49.59 Birr/ml

3.125 ml / hr

66.86 Birr/ml

Equipment Cost (1:03)			
Type of Equipment	No.	Hourly Rental	Hourly Cost
Hand tools	2	1.28	2.56
Total (1:03)			2.56

C=Equipment Unit Cost 0.82 Birr/ml

Total of (1:03)

Daily Output

58.08 Birr/ml

4.65 Birr/ml

4.39 Birr/ml

66.86 Birr/ml

66.86 Birr/ml

3.125 ml / hr

111.76 Birr/ml

Equipment Cost (1:03)			
Type of Equipment	No.	Hourly Rental	Hourly Cost
Hand tools	2	1.28	2.56

Total (1:03)			2.56

C=Equipment Unit Cost 0.82 Birr/ml

Total of (1:03)

Daily Output

97.08	Birr/ml
7.77	Birr/ml
7.34	Birr/ml
111.76	Birr/ml
111.76	Birr/ml

3.125 ml / hr

231.48 Birr/ml

Equipment Cost (1:03)			
Type of Equipment	No.	Hourly Rental	Hourly Cost
Hand tools	2	1.28	2.56
Total (1:03)			2.56

C=Equipment Unit Cost 0.82 Birr/ml

Total of (1:03)

Daily Output

201.08	Birr/ml
16.09	Birr/ml
15.20	Birr/ml
231.48	Birr/ml
231.48	Birr/ml

3.125 ml / hr

306.31 Birr/ml

Equipment Cost (1:03)			
Type of Equipment	No.	Hourly Rental	Hourly Cost
Hand tools	2	1.28	2.56
Total (1:03)			2.56

C=Equipment Unit Cost 0.82 Birr/ml

Total of (1:03)

Daily Output

266.08	Birr/ml
21.29	Birr/ml
20.12	Birr/ml
306.31	Birr/ml

306.31 *Birr/ml*

3.125 ml /hr

325.88 *Birr/ml*

Equipment Cost (1:03)			
Type of Equipment	*No.*	*Hourly Rental*	*Hourly Cost*
Hand tools	*2*	*1.28*	*2.56*
Total (1:03)			*2.56*

C=Equipment Unit Cost *0.82 Birr/ml*

Total of (1:03)

Daily Output

283.08 *Birr/ml*
22.65 Birr/ml
21.40 Birr/ml
325.88 Birr/ml

325.88 *Birr/ml*

3.125 ml / ht

751.82 *Birr/ml*

Equipment Cost (1:03)			
Type of Equipment	*No.*	*Hourly Rental*	*Hourly Cost*
Hand tools	*2*	*1.28*	*2.56*
Total (1:03)			*2.56*

C=Equipment Unit Cost *0.82 Birr/ml*

Total of (1:03)

Daily Output

653.08 *Birr/ml*
52.25 Birr/ml
49.37 Birr/ml
751.82 Birr/ml

751.82 *Birr/ml*

3.125 ml / hr

809.38 *Birr/ml*

Equipment Cost (1:03)			
Type of Equipment	No.	Hourly Rental	Hourly Cost
Hand tools	2	1.28	2.56
Total (1:03)			2.56

C=Equipment Unit Cost 0.82 Birr/ml

Total of (1:03)

Daily Output

703.08 Birr/ml

56.25 Birr/ml

53.15 Birr/ml

809.38 Birr/ml

809.38 Birr/ml

1.875 ml / hr

43.51 Birr/ml

Equipment Cost (1:03)			
Type of Equipment	No.	Hourly Rental	Hourly Cost
Hand tools	2	1.28	2.56
Total (1:03)			2.56

C=Equipment Unit Cost 1.37 Birr/ml

Total of (1:03)

Daily Output

37.80 Birr/ml

3.02 Birr/ml

2.86 Birr/ml

43.51 Birr/ml

43.51 Birr/ml

1.875 ml / hr

60.78 Birr/ml

Equipment Cost (1:03)			
Type of Equipment	No.	Hourly Rental	Hourly Cost
Hand tools	2	1.28	2.56

Total (1:03)	2.56

C=Equipment Unit Cost 1.37 Birr/ml

Total of (1:03)

Daily Output

52.80	Birr/ml
4.22	Birr/ml
3.99	Birr/ml
60.78	Birr/ml
60.78	Birr/ml

1.875 ml / hr

73.45 Birr/ml

Equipment Cost (1:03)			
Type of Equipment	No.	Hourly Rental	Hourly Cost
Hand tools	2	1.28	2.56
Total (1:03)			2.56

C=Equipment Unit Cost 1.37 Birr/ml

Total of (1:03)

Daily Output

63.80	Birr/ml
5.10	Birr/ml
4.82	Birr/ml
73.45	Birr/ml
73.45	Birr/ml

3.75 ml / hr

202.65 Birr/ml

Equipment Cost (1:03)			
Type of Equipment	No.	Hourly Rental	Hourly Cost
Hand tools	8	1.28	10.24
Drill	1	15.00	15.00
Welding m	1	19.23	19.23
Total (1:03)			44.47

C=Equipment Unit Cost 11.86 Birr/ml

Total of (1:03)

Daily Output

176.04	Birr/ml
14.08	Birr/ml
13.31	Birr/ml
202.65	Birr/ml
202.65	Birr/ml

3.75 ml / hr

242.95 Birr/ml

Equipment Cost (1:03)			
Type of Equipment	No.	Hourly Rental	Hourly Cost
Hand tools	8	1.28	10.24
Driller	1	15.00	15.00
Welder	1	19.23	19.23
Total (1:03)			44.47

C=Equipment Unit Cost 11.86 Birr/ml

Total of (1:03)

Daily Output

211.04 Birr/ml

16.88 Birr/ml

15.95 Birr/ml

242.95 Birr/ml

242.95 Birr/ml

3.125 ml / hr

370.17 Birr/ml

Equipment Cost (1:03)			
Type of Equipment	No.	Hourly Rental	Hourly Cost
Hand tools	8	1.28	10.24
Driller	1	15.00	15.00
Welder	1	19.23	19.23
Total (1:03)			44.47

C=Equipment Unit Cost 14.23 Birr/ml

Total of (1:03)

Daily Output

321.55 Birr/ml

25.72 Birr/ml

24.31 Birr/ml

370.17 Birr/ml

370.17 Birr/ml

2.5 ml / hr

471.79 Birr/ml

Equipment Cost (1:03)

Type of Equipment	No.	Hourly Rental	Hourly Cost
Hand tools	8	1.28	10.24
Driller	1	15.00	15.00
Welder	1	19.23	19.23
Total (1:03)			44.47

C=Equipment Unit Cost 17.79 Birr/ml

Total of (1:03)

Daily Output

409.83 Birr/ml

32.79 Birr/ml

30.98 Birr/ml

471.79 Birr/ml

471.79 Birr/ml

3.75 ml / hr

173.87 Birr/ml

Equipment Cost (1:03)			
Type of Equipment	No.	Hourly Rental	Hourly Cost
Hand tools	8	1.28	10.24
Driller	1	15.00	15.00
Welder	1	19.23	19.23
Total (1:03)			44.47

C=Equipment Unit Cost 11.86 Birr/ml

Total of (1:03)

Daily Output

151.04 Birr/ml

12.08 Birr/ml

11.42 Birr/ml

173.87 Birr/ml

173.87 Birr/ml

2.5 ml / hr

437.26 Birr/ml

Equipment Cost (1:03)			
Type of Equipment	No.	Hourly Rental	Hourly Cost
Hand tools	8	1.28	10.24
Driller	1	15.00	15.00
Welder	1	19.23	19.23

Total (1:03)	44.47

C=Equipment Unit Cost 17.79 Birr/ml

Total of (1:03)

Daily Output

379.83	Birr/ml
30.39	Birr/ml
28.71	Birr/ml
437.26	Birr/ml
437.26	Birr/ml

0.125 Pc/ hr

1189.72 Birr/ml

Equipment Cost (1:03)			
Type of Equipment	No.	Hourly Rental	Hourly Cost
Hand tools	4	1.28	5.12
Total (1:03)			5.12

C=Equipment Unit Cost 40.96 Birr/ml

Total of (1:03)

Daily Output

1033.46	Birr/ml
82.68	Birr/ml
78.13	Birr/ml
1189.72	Birr/ml
1189.72	Birr/ml

0.125 Pc/ hr

1444.13 Birr/ml

Equipment Cost (1:03)			
Type of Equipment	No.	Hourly Rental	Hourly Cost
Hand tools	4	1.28	5.12
Total (1:03)			5.12

C=Equipment Unit Cost 40.96 Birr/ml

Total of (1:03)

Daily Output

1254.46	Birr/ml
100.36	Birr/ml
94.84	Birr/ml
1444.13	Birr/ml

1444.13 *Birr/ml*

0.0625 Pc/ hr

5953.91 *Birr/ml*

Equipment Cost (1:03)			
Type of Equipment	*No.*	*Hourly Rental*	*Hourly Cost*
Hand tools	*4*	*1.28*	*5.12*
Total (1:03)			*5.12*

C=Equipment Unit Cost *81.92 Birr/ml*

Total of (1:03)

Daily Output

5171.92 *Birr/ml*

413.75 Birr/ml

391.00 Birr/ml

5953.91 Birr/ml

5953.91 *Birr/ml*

0.025 Pc/ hr

18180.10 *Birr/ml*

Equipment Cost (1:03)			
Type of Equipment	*No.*	*Hourly Rental*	*Hourly Cost*
Hand tools	*4*	*1.28*	*5.12*
Total (1:03)			*5.12*

C=Equipment Unit Cost *204.80 Birr/ml*

Total of (1:03)

Daily Output

15792.30 *Birr/ml*

1263.38 Birr/ml

1193.90 Birr/ml

18180.10 Birr/ml

18180.10 *Birr/ml*

0.125 Pc/ hr

4080.98 *Birr/ml*

Equipment Cost (1:03)			
Type of Equipment	*No.*	*Hourly Rental*	*Hourly Cost*
Hand tools	*2*	*1.28*	*2.56*
Total (1:03)			*2.56*

C=Equipment Unit Cost *20.48 Birr/ml*

Total of (1:03)

Daily Output

3544.98 *Birr/ml*
283.60 Birr/ml
268.00 Birr/ml
4080.98 Birr/ml

4080.98 *Birr/ml*

0.625 Pc/ hr

1115.97 *Birr/ml*

Equipment Cost (1:03)			
Type of Equipment	*No.*	*Hourly Rental*	*Hourly Cost*
Hand tools	*2*	*1.28*	*2.56*
Total (1:03)			*2.56*

C=Equipment Unit Cost *4.10 Birr/ml*

Total of (1:03)

Daily Output

969.40 *Birr/ml*
77.55 Birr/ml
73.29 Birr/ml
1115.97 Birr/ml

1115.97 *Birr/ml*

0.625 Pc/ hr

482.81 *Birr/ml*

Equipment Cost (1:03)			
Type of Equipment	*No.*	*Hourly Rental*	*Hourly Cost*
Hand tools	*2*	*1.28*	*2.56*

Total (1:03)			*2.56*

C=Equipment Unit Cost *4.10 Birr/ml*

Total of (1:03)

Daily Output

419.40 *Birr/ml*

33.55 Birr/ml

31.71 Birr/ml

482.81 Birr/ml

482.81 *Birr/ml*

0.625 Pc/ hr

597.93 *Birr/ml*

Equipment Cost (1:03)			
Type of Equipment	*No.*	*Hourly Rental*	*Hourly Cost*
Hand tools	*2*	*1.28*	*2.56*
Total (1:03)			*2.56*

C=Equipment Unit Cost *4.10 Birr/ml*

Total of (1:03)

Daily Output

519.40 *Birr/ml*

41.55 Birr/ml

39.27 Birr/ml

597.93 Birr/ml

597.93 *Birr/ml*

0.625 Pc/ hr

1058.41 *Birr/ml*

Equipment Cost (1:03)			
Type of Equipment	*No.*	*Hourly Rental*	*Hourly Cost*
Hand tools	*2*	*1.28*	*2.56*
Total (1:03)			*2.56*

C=Equipment Unit Cost *4.10 Birr/ml*

Total of (1:03)

Daily Output

919.40 *Birr/ml*
73.55 Birr/ml
69.51 Birr/ml
1058.41 Birr/ml

1058.41 *Birr/ml*

0.625 Pc/ hr

1000.85 *Birr/ml*

Equipment Cost (1:03)			
Type of Equipment	*No.*	*Hourly Rental*	*Hourly Cost*
Hand tools	*2*	*1.28*	*2.56*
Total (1:03)			*2.56*

C=Equipment Unit Cost *4.10 Birr/ml*
Total of (1:03)
Daily Output
869.40 *Birr/ml*
69.55 Birr/ml
65.73 Birr/ml
1000.85 Birr/ml

1000.85 *Birr/ml*

0.625 Pc/ hr

203.99 *Birr/ml*

Equipment Cost (1:03)			
Type of Equipment	*No.*	*Hourly Rental*	*Hourly Cost*
Hand tools	*2*	*1.28*	*2.56*
Total (1:03)			*2.56*

C=Equipment Unit Cost *4.10 Birr/ml*
Total of (1:03)
Daily Output
177.20 *Birr/ml*
14.18 Birr/ml
13.40 Birr/ml
203.99 Birr/ml

203.99 *Birr/ml*

0.625 *Pc/ hr*

327.17 *Birr/ml*

Equipment Cost (1:03)			
Type of Equipment	*No.*	*Hourly Rental*	*Hourly Cost*
Hand tools	*2*	*1.28*	*2.56*
Total (1:03)			*2.56*

C=Equipment Unit Cost *4.10* *Birr/ml*

Total of (1:03)

Daily Output

284.20 *Birr/ml*

22.74 *Birr/ml*

21.49 *Birr/ml*

327.17 *Birr/ml*

327.17 *Birr/ml*

4 *Pc/ Dy*

4 *Pc/ Dy*

88.21 *Birr/ml*

Equipment Cost (1:03)			
Type of Equipment	*No.*	*Hourly Rental*	*Hourly Cost*
Hand tools	*2*	*1.28*	*2.56*
Total (1:03)			*2.56*

C=Equipment Unit Cost *0.64* *Birr/ml*

Total of (1:03)

Daily Output

76.62 *Birr/ml*

6.13 *Birr/ml*

5.79 *Birr/ml*

88.21 *Birr/ml*

88.21 *Birr/ml*

0.5 *Pc/ hr*

157.71 *Birr/ml*

Equipment Cost (1:03)

Type of Equipment	No.	Hourly Rental	Hourly Cost
Hand tools	2	1.28	2.56
Total (1:03)			2.56

C=Equipment Unit Cost 5.12 Birr/ml

Total of (1:03)

Daily Output

137.00 Birr/ml

10.96 Birr/ml

10.36 Birr/ml

157.71 Birr/ml

157.71 Birr/ml

2.50 Pc/ hr

28.55 Birr/ml

Equipment Cost (1:03)			
Type of Equipment	No.	Hourly Rental	Hourly Cost
Hand tools	2	1.28	2.56
Total (1:03)			2.56

C=Equipment Unit Cost 1.02 Birr/ml

Total of (1:03)

Daily Output

24.80 Birr/ml

1.98 Birr/ml

1.87 Birr/ml

28.55 Birr/ml

28.55 Birr/ml

1.31 Pc/ hr

111.28 Birr/ml

Equipment Cost (1:03)			
Type of Equipment	No.	Hourly Rental	Hourly Cost
Hand tools	2	1.28	2.56

Total (1:03)	2.56

C=Equipment Unit Cost 1.95 Birr/ml

Total of (1:03)

Daily Output

96.66	Birr/ml
7.73	Birr/ml
7.31	Birr/ml
111.28	Birr/ml
111.28	Birr/ml

1.31 Pc/ hr

125.09 Birr/ml

Equipment Cost (1:03)			
Type of Equipment	No.	Hourly Rental	Hourly Cost
Hand tools	2	1.28	2.56
Total (1:03)			2.56

C=Equipment Unit Cost 1.95 Birr/ml

Total of (1:03)

Daily Output

108.66	Birr/ml
8.69	Birr/ml
8.22	Birr/ml
125.09	Birr/ml
125.09	Birr/ml

1.31 Pc/ hr

138.91 Birr/ml

Equipment Cost (1:03)			
Type of Equipment	No.	Hourly Rental	Hourly Cost
Hand tools	2	1.28	2.56
Total (1:03)			2.56

C=Equipment Unit Cost 1.95 Birr/ml

Total of (1:03)

Daily Output

120.66	Birr/ml
9.65	Birr/ml
9.12	Birr/ml
138.91	Birr/ml
138.91	Birr/ml

1.31 Pc/ hr

159.63 Birr/ml

Equipment Cost (1:03)			
Type of Equipment	No.	Hourly Rental	Hourly Cost
Hand tools	2	1.28	2.56
Total (1:03)			2.56

C=Equipment Unit Cost 1.95 Birr/ml

Total of (1:03)

Daily Output

138.66 Birr/ml

11.09 Birr/ml

10.48 Birr/ml

159.63 Birr/ml

159.63 Birr/ml

1.31 Pc/ hr

199.92 Birr/ml

Equipment Cost (1:03)			
Type of Equipment	No.	Hourly Rental	Hourly Cost
Hand tools	2	1.28	2.56
Total (1:03)			2.56

C=Equipment Unit Cost 1.95 Birr/ml

Total of (1:03)

Daily Output

173.66 Birr/ml

13.89 Birr/ml

13.13 Birr/ml

199.92 Birr/ml

199.92 Birr/ml

1.31 Pc/ hr

138.91 Birr/ml

Equipment Cost (1:03)			
Type of Equipment	No.	Hourly Rental	Hourly Cost
Hand tools	2	1.28	2.56

Total (1:03)			*2.56*

C=Equipment Unit Cost *1.95 Birr/ml*

Total of (1:03)

Daily Output

120.66 *Birr/ml*

9.65 Birr/ml

9.12 Birr/ml

138.91 Birr/ml

138.91 *Birr/ml*

1.31 Pc/ hr

176.90 *Birr/ml*

Equipment Cost (1:03)			
Type of Equipment	*No.*	*Hourly Rental*	*Hourly Cost*
Hand tools	*2*	*1.28*	*2.56*
Total (1:03)			*2.56*

C=Equipment Unit Cost *1.95 Birr/ml*

Total of (1:03)

Daily Output

153.66 *Birr/ml*

12.29 Birr/ml

11.62 Birr/ml

176.90 Birr/ml

176.90 *Birr/ml*

2.50 Pc/ hr

28.55 *Birr/ml*

Equipment Cost (1:03)			
Type of Equipment	*No.*	*Hourly Rental*	*Hourly Cost*
Hand tools	*2*	*1.28*	*2.56*
Total (1:03)			*2.56*

C=Equipment Unit Cost *1.02 Birr/ml*

Total of (1:03)

Daily Output

24.80 *Birr/ml*

1.98 Birr/ml

1.87 Birr/ml

28.55 Birr/ml

28.55 *Birr/ml*

1.31 Pc/ hr

67.53 *Birr/ml*

Equipment Cost (1:03)			
Type of Equipment	*No.*	*Hourly Rental*	*Hourly Cost*
Hand tools	*2*	*1.28*	*2.56*
Total (1:03)			*2.56*

C=Equipment Unit Cost *1.95 Birr/ml*

Total of (1:03)

Daily Output

58.66 *Birr/ml*

4.69 Birr/ml

4.44 Birr/ml

67.53 Birr/ml

67.53 *Birr/ml*

1 Pc/ hr

97.27 *Birr/ml*

Equipment Cost (1:03)			
Type of Equipment	*No.*	*Hourly Rental*	*Hourly Cost*
Hand tools	*2*	*1.28*	*2.56*
Total (1:03)			*2.56*

C=Equipment Unit Cost *2.56 Birr/ml*

Total of (1:03)

Daily Output

84.50 *Birr/ml*

6.76 Birr/ml

6.39 Birr/ml

97.27 Birr/ml

97.27 Birr/ml

1 Pc/ hr

76.55 Birr/ml

Equipment Cost (1:03)			
Type of Equipment	No.	Hourly Rental	Hourly Cost
Hand tools	2	1.28	2.56
Total (1:03)			2.56

C=Equipment Unit Cost 2.56 Birr/ml

Total of (1:03)

Daily Output

66.50 Birr/ml

5.32 Birr/ml

5.03 Birr/ml

76.55 Birr/ml

76.55 Birr/ml

1 Pc/ hr

76.55 Birr/ml

Equipment Cost (1:03)			
Type of Equipment	No.	Hourly Rental	Hourly Cost
Hand tools	2	1.28	2.56
Total (1:03)			2.56

C=Equipment Unit Cost 2.56 Birr/ml

Total of (1:03)

Daily Output

66.50 Birr/ml

5.32 Birr/ml

5.03 Birr/ml

76.55 Birr/ml

76.55 Birr/ml

1 Pc/ hr

108.79 Birr/ml

Equipment Cost (1:03)			
Type of Equipment	No.	Hourly Rental	Hourly Cost
Hand tools	2	1.28	2.56
Total (1:03)			2.56

C=Equipment Unit Cost 2.56 Birr/ml

Total of (1:03)

Daily Output

94.50 Birr/ml

7.56 Birr/ml

7.14 Birr/ml

108.79 Birr/ml

108.79 Birr/ml

1 Pc/ hr

149.08 Birr/ml

Equipment Cost (1:03)			
Type of Equipment	No.	Hourly Rental	Hourly Cost
Hand tools	2	1.28	2.56
Total (1:03)			2.56

C=Equipment Unit Cost 2.56 Birr/ml

Total of (1:03)

Daily Output

129.50 Birr/ml

10.36 Birr/ml

9.79 Birr/ml

149.08 Birr/ml

149.08 Birr/ml

0.1875 Pc/ hr

7368.43 Birr/ml

Equipment Cost (1:03)			
Type of Equipment	No.	Hourly Rental	Hourly Cost
Hand tools	2	1.28	2.56

Total (1:03)			*2.56*

C=Equipment Unit Cost *13.65 Birr/ml*

Total of (1:03)

Daily Output

6400.65 *Birr/ml*

512.05 Birr/ml

483.89 Birr/ml

7368.43 Birr/ml

7368.43 *Birr/ml*

0.25 Pc/ hr

3549.14 *Birr/ml*

Equipment Cost (1:03)			
Type of Equipment	*No.*	*Hourly Rental*	*Hourly Cost*
Hand tools	*2*	*1.28*	*2.56*
Total (1:03)			*2.56*

C=Equipment Unit Cost *10.24 Birr/ml*

Total of (1:03)

Daily Output

3082.99 *Birr/ml*

246.64 Birr/ml

233.07 Birr/ml

3549.14 Birr/ml

3549.14 *Birr/ml*

Steel structure

ANALYSIS SI

PROJECT: ***Truss***

WORK ITEM :(e) ***Mounting & fixing light structure steel truss***

TOTAL QANTITY OF WORK ITEM: *1 kg*

Material Cost (1:01)					
Type of Material	*Unit*	*Qty **	*Rate*	*Cost per Unit*	*Labor by Trade*
RHS Truss	*kg*	*1.05*	*22.25*	*23.36*	*Forman*
Electrode	No	*3*	*1.85*	*5.55*	*Welder*
Antirust	lt	*0.03*	*51.75*	*1.55*	*Crane ope.*
Electric power	Kw/hr	1	2.75	*2.75*	*Helper*
Total (1:-01)				*33.22*	***Total (1:02)***

A=Material unit cost *33.22 Birr/kg* ***B=Manpowe***

Total of (1:02)

Daily output

Direct Cost of work item = A + B + C =

Overhead Cos

Profit Cost:

Total :

Remark : _____

UF: UTILIZATION FACTOR ***Total Unit Co***

**: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.*

***: INCLUSIVE OF BENEFITS, TRAVEL SUBSIDES AND COST OF OVERTIME RELATED TO*

Steel structure

ANALYSIS SI

PROJECT: ***Truss***

WORK ITEM :(e) ***Mounting & fixing medium structure steel truss***

TOTAL QANTITY OF WORK ITEM: *1 kg*

Material Cost (1:01)					
Type of Material	*Unit*	*Qty **	*Rate*	*Cost per Unit*	*Labor by Trade*

RHS Truss	*kg*	*1.05*	*22.25*	*23.36*	*Forman*
Electrode	No	*3*	*1.85*	*5.55*	*Welder*
Antirust	lt	*0.03*	*51.75*	*1.55*	*Crane ope.*
Electric power	Kw/hr	1	2.75	*2.75*	*Helper*
Total (1:-01)				*33.22*	***Total (1:02)***

A=Material unit cost *33.22 Birr/kg* ***B=Manpowe***

Total of (1:02)

Daily output

Direct Cost of work item = A + B + C =

Overhead Cos

Profit Cost:

Total :

Remark : _____

UF: UTILIZATION FACTOR ***Total Unit Co***

**: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.*

***: INCLUSIVE OF BENEFITS, TRAVEL SUBSIDES AND COST OF OVERTIME RELATED TO*

Steel structure

ANALYSIS SH

PROJECT: ***RHS Truss Upper & Lower cord***

WORK ITEM :(e) ***Mounting & fixing heavy structure steel truss***

TOTAL QANTITY OF WORK ITEM: *1 ml*

Material Cost (1:01)					
Type of Material	*Unit*	*Qty **	*Rate*	*Cost per Unit*	*Labor by Trade*
50x50x3mm RHS	*ml*	*2.1*	*104.28*	*218.98*	*Forman*
Electrode	No	*3*	*1.85*	*5.55*	*Welder*
Antirust	lt	*0.03*	*51.75*	*1.55*	*Helper*
Electric power	Kw/hr	1	2.75	*2.75*	*Crane ope.*
Total (1:-01)				*228.84*	***Total (1:02)***

A=Material unit cost *228.84 Birr/ml* ***B=Manpowe***

Total of (1:02)

Daily output

Direct Cost of work item = A + B + C =
Overhead Cos
Profit Cost:
Total :
Remark : _____ *Vat:*
UF: UTILIZATION FACTOR ***Total Unit Co***
**: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.*
***: INCLUSIVE OF BENEFITS, TRAVEL SUBSIDES AND COST OF OVERTIME RELATED TO*

Steel structure

ANALYSIS SH

PROJECT: ***RHS truss vertical & diagonal***
WORK ITEM :(e) ***Mounting & fixing heavy structure steel truss***
TOTAL QANTITY OF WORK ITEM: *1 ml*

Material Cost (1:01)					
Type of Material	*Unit*	*Qty **	*Rate*	*Cost per Unit*	*Labor by Trade*
30x30x2.5mm RHS	*ml*	*1.5*	*49.80*	*74.70*	*Forman*
Electrode	No	*3*	*1.85*	*5.55*	*Welder*
Antirust	lt	*0.03*	*51.75*	*1.55*	*Helper*
Electric power	Kw/hr	1	2.75	*2.75*	*Crane ope.*
Total (1:-01)				*84.56*	***Total (1:02)***

A=Material unit cost *84.56 Birr/ml* ***B=Manpowe***
Total of (1:02)
Daily output
Direct Cost of work item = A + B + C =
Overhead Cos
Profit Cost:
Total :
Remark : _____ *Vat:*
UF: UTILIZATION FACTOR ***Total Unit Co***
**: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.*
***: INCLUSIVE OF BENEFITS, TRAVEL SUBSIDES AND COST OF OVERTIME RELATED TO*

Steel structure

ANALYSIS SH

PROJECT: ***RHS Purline***
WORK ITEM :(e) ***Mounting & fixing steel purline***

TOTAL QANTITY OF WORK ITEM: 1 kg

Material Cost (1:01)					
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade
25x25x2.5mm RHS	kg	1.05	22.25	23.36	Forman
Electrode	No	3	1.80	5.40	Welder
Antirust	lt	0.03	51.75	1.55	Helper
Electric power	Kw/hr	1	2.75	2.75	Crane ope.
Total (1:-01)				33.07	**Total (1:02)**

A=Material unit cost 33.07 Birr/kg **B=Manpowe**

Total of (1:02)

Daily output

Direct Cost of work item = A + B + C =

Overhead Cos

Profit Cost:

Total :

Remark : _____ Vat:

UF: UTILIZATION FACTOR **Total Unit Co**

*: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.

**: INCLUSIVE OF BENEFITS, TRAVEL SUBSIDES AND COST OF OVERTIME RELATED TO

Steel structure

ANALYSIS SI

PROJECT: **RHS Purline**

WORK ITEM :(e) **Mounting & fixing steel purline**

TOTAL QANTITY OF WORK ITEM: 1 ml

Material Cost (1:01)					
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade
25x25x2.5mm RHS	ml	3.00	43.57	130.72	Forman
Electrode	No	3	1.85	5.55	Welder
Antirust	lt	0.03	51.75	1.55	Helper
Electric power	Kw/hr	1	2.75	2.75	Crane ope.

Total (1:-01)				*140.57*	***Total (1:02)***

A=Material unit cost *140.57 Birr/ml* ***B=Manpowe***

Total of (1:02)

Daily output

Direct Cost of work item = A + B + C =

Overhead Cos

Profit Cost:

Total :

Remark : _____ *Vat:*

UF: UTILIZATION FACTOR ***Total Unit Co***

**: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.*

***: INCLUSIVE OF BENEFITS, TRAVEL SUBSIDES AND COST OF OVERTIME RELATED TO*

Steel structure

ANALYSIS SH

PROJECT: ***RHS Truss Upper & Lower cord***

WORK ITEM :(e) ***Mounting & fixing heavy structure steel truss***

TOTAL QANTITY OF WORK ITEM: *1 ml*

Material Cost (1:01)					
Type of Material	*Unit*	*Qty **	*Rate*	*Cost per Unit*	*Labor by Trade*
40x40x2.5mm RHS	*ml*	*2.1*	*69.20*	*145.31*	*Forman*
Electrode	No	*3*	*1.85*	*5.55*	*Welder*
Antirust	lt	*0.03*	*51.75*	*1.55*	*Helper*
Electric power	Kw/hr	1	2.75	*2.75*	*Crane ope.*
Total (1:-01)				*155.17*	***Total (1:02)***

A=Material unit cost *155.17 Birr/ml* ***B=Manpowe***

Total of (1:02)

Daily output

Direct Cost of work item = A + B + C =

Overhead Cos

Profit Cost:

Total :

Remark : _____ *Vat:*

UF: UTILIZATION FACTOR ***Total Unit Co***

**: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.*

**: INCLUSIVE OF BENEFITS, TRAVEL SUBSIDES AND COST OF OVERTIME RELATED TO

Steel structure

ANALYSIS SH

PROJECT: **RHS Purline**

WORK ITEM :(e) **Mounting & fixing steel purline**

TOTAL QANTITY OF WORK ITEM: 1 ml

Material Cost (1:01)					
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade
80x80x3mm RHS	ml	1.05	174.18	182.89	Forman
Electrode	No	3	1.85	5.55	Welder
Antirust	lt	0.03	175.00	5.25	Helper
Electric power	Kw/hr	1	3	3.00	Crane ope.
Total (1:-01)				196.69	**Total (1:02)**

A=Material unit cost 196.69 Birr/ml **B=Manpowe**

Total of (1:02)

Daily output

Direct Cost of work item = A + B + C =

Overhead Cos

Profit Cost:

Total :

Vat:

Total Unit Co

Remark : _____

UF: UTILIZATION FACTOR

*: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.

**: INCLUSIVE OF BENEFITS, TRAVEL SUBSIDES AND COST OF OVERTIME RELATED TO

Steel structure

ANALYSIS SH

PROJECT: **RHS Purline**

WORK ITEM :(e) **Mounting & fixing steel purline**

TOTAL QANTITY OF WORK ITEM: 1 ml

Material Cost (1:01)					
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade

70x50x3mm RHS	*ml*	*1.05*	*127.34*	*133.71*	*Forman*
Electrode	No	*3*	*1.85*	*5.55*	*Welder*
Antirust	lt	*0.03*	*175.00*	*5.25*	*Helper*
Electric power	Kw/hr	1	3	*3.00*	*Crane ope.*
Total (1:-01)				*147.51*	***Total (1:02)***

A=Material unit cost *147.51 Birr/ml* ***B=Manpowe***

Total of (1:02)

Daily output

Direct Cost of work item = A + B + C =

Overhead Cos

Profit Cost:

Total :

Remark : _____ *Vat:*

UF: UTILIZATION FACTOR ***Total Unit Co***

**: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.*

***: INCLUSIVE OF BENEFITS, TRAVEL SUBSIDES AND COST OF OVERTIME RELATED TO*

Steel structure

ANALYSIS SH

PROJECT: ***RHS Structure***

WORK ITEM :(e) ***Fixing RHS structure***

TOTAL QANTITY OF WORK ITEM: *1 ml*

Material Cost (1:01)					
Type of Material	*Unit*	*Qty **	*Rate*	*Cost per Unit*	*Labor by Trade*
80x80x3.5mm RHS	*ml*	*1.00*	*200.18*	*200.18*	*Forman*
Electrode	No	*3*	*1.85*	*5.55*	*Welder*
Antirust	lt	*0.03*	*51.75*	*1.55*	*Helper*
Electric power	Kw/hr	1	2.75	*2.75*	
Total (1:-01)				*210.03*	***Total (1:02)***

A=Material unit cost *210.03 Birr/ml* ***B=Manpowe***

Total of (1:02)

Daily output

Direct Cost of work item = A + B + C =

Overhead Cos

Profit Cost:

Total :

Remark : _____ Vat:

UF: UTILIZATION FACTOR **Total Unit Co**

*: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.

**: INCLUSIVE OF BENEFITS, TRAVEL SUBSIDES AND COST OF OVERTIME RELATED TO

Steel structure

ANALYSIS SH

PROJECT: **RHS structure**

WORK ITEM :(e) **Supply & fixing RHS**

TOTAL QANTITY OF WORK ITEM: 1 ml

Material Cost (1:01)					
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labor by Trade
60x60x3mm RHS	ml	1.00	127.34	127.34	Forman
Electrode	No	3	1.85	5.55	Welder
Antirust	lt	0.03	51.75	1.55	Helper
Electric power	Kw/hr	1	2.75	2.75	
Total (1:-01)				137.20	**Total (1:02)**

A=Material unit cost 137.20 Birr/ml **B=Manpowe**

Total of (1:02)

Daily output

Direct Cost of work item = A + B + C =

Overhead Cos

Profit Cost:

Total :

Remark : _____ Vat:

UF: UTILIZATION FACTOR **Total Unit Co**

*: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.

**: INCLUSIVE OF BENEFITS, TRAVEL SUBSIDES AND COST OF OVERTIME RELATED TO

Steel structure

ANALYSIS SH

PROJECT: **RHS structure**

WORK ITEM :(e) **Supply & fixing RHS**

TOTAL QANTITY OF WORK ITEM: 1 ml

Material Cost (1:01)					
Type of Material	*Unit*	*Qty **	*Rate*	*Cost per Unit*	*Labor by Trade*
40x40x2.5mm RHS	*ml*	*1.00*	*69.20*	*69.20*	*Forman*
Electrode	No	*3*	*1.85*	*5.55*	*Welder*
Antirust	lt	*0.03*	*51.75*	*1.55*	*Helper*
Electric power	Kw/hr	1	2.75	*2.75*	
Total (1:-01)				*79.05*	***Total (1:02)***

A=Material unit cost *79.05 Birr/ml* ***B=Manpowe***

Total of (1:02)

Daily output

Direct Cost of work item = A + B + C =

Overhead Cos

Profit Cost:

Total :

Remark : _____ *Vat:*

UF: UTILIZATION FACTOR ***Total Unit Co***

**: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.*

***: INCLUSIVE OF BENEFITS, TRAVEL SUBSIDES AND COST OF OVERTIME RELATED TO*

Steel structure

ANALYSIS SH

PROJECT: ***RHS structure***

WORK ITEM :(e) ***Supply & fixing RHS***

TOTAL QANTITY OF WORK ITEM: *1 ml*

Material Cost (1:01)					
Type of Material	*Unit*	*Qty **	*Rate*	*Cost per Unit*	*Labor by Trade*
30x30x2.5mm RHS	*ml*	*1.00*	*49.80*	*49.80*	*Forman*
Electrode	No	*3*	*1.85*	*5.55*	*Welder*
Antirust	lt	*0.03*	*51.75*	*1.55*	*Helper*
Electric power	Kw/hr	1	2.75	*2.75*	

Total (1:-01)	*59.66*	***Total (1:02)***

A=Material unit cost *59.66 Birr/ml* ***B=Manpowe***

Total of (1:02)

Daily output

Direct Cost of work item = A + B + C =

Overhead Cos

Profit Cost:

Total :

Remark : _____ *Vat:*

UF: UTILIZATION FACTOR ***Total Unit Co***

**: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.*

***: INCLUSIVE OF BENEFITS, TRAVEL SUBSIDES AND COST OF OVERTIME RELATED TO*

Steel structure

ANALYSIS SH

PROJECT: ***Angle iron structure***

WORK ITEM :(e) ***Supply & fixing Angle iron***

TOTAL QANTITY OF WORK ITEM: *1 ml*

Material Cost (1:01)					
Type of Material	*Unit*	*Qty **	*Rate*	*Cost per Unit*	*Labor by Trade*
40x40x3mm Angle i	*ml*	*1.00*	*40.00*	*40.00*	*Forman*
Electrode	No	*3*	*1.85*	*5.55*	*Welder*
Antirust	lt	*0.03*	*51.75*	*1.55*	*Helper*
Electric power	Kw/hr	1	2.75	*2.75*	
Total (1:-01)				*49.85*	***Total (1:02)***

A=Material unit cost *49.85 Birr/ml* ***B=Manpowe***

Total of (1:02)

Daily output

Direct Cost of work item = A + B + C =

Overhead Cos

Profit Cost:

Total :

Remark : _____ *Vat:*

UF: UTILIZATION FACTOR ***Total Unit Co***

**: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.*

***: INCLUSIVE OF BENEFITS, TRAVEL SUBSIDES AND COST OF OVERTIME RELATED TO*

Steel structure

ANALYSIS SI

PROJECT: ***Metal plate***

WORK ITEM :(e) ***Supply & fixing Metal plate with four J-bolt***

TOTAL QANTITY OF WORK ITEM: *1 kg*

Material Cost (1:01)					
Type of Material	*Unit*	*Qty **	*Rate*	*Cost per Unit*	*Labor by Trade*
250x520x6mm plate	*kg*	*2.85*	*22.25*	*63.41*	*Forman*
J-bolt	No	4	58	*232.00*	*Welder*
Washer	No	4	3	*12.00*	*Helper*
Electrode	No	*4*	*1.85*	*7.40*	
Antirust	lt	*0.03*	*51.75*	*1.55*	
Electric power	Kw/hr	1	2.75	*2.75*	
Total (1:-01)				*319.12*	***Total (1:02)***

A=Material unit cost *319.12 Birr/pc* ***B=Manpowe***

Total of (1:02)

Daily output

Direct Cost of work item = A + B + C =

Overhead Cos

Profit Cost:

Total :

Vat:

Total Unit Co

Remark : _____

UF: UTILIZATION FACTOR

**: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.*

***: INCLUSIVE OF BENEFITS, TRAVEL SUBSIDES AND COST OF OVERTIME RELATED TO*

Steel structure

ANALYSIS SI

PROJECT: ***Metal plate***

WORK ITEM :(e) ***Supply & fixing Metal plate***

TOTAL QANTITY OF WORK ITEM: *1 kg*

Material Cost (1:01)					
Type of Material	*Unit*	*Qty **	*Rate*	*Cost per Unit*	*Labor by Trade*
250x520x6mm plate	*kg*	*2.85*	*22.25*	*63.41*	*Forman*
Electrode	No	*4*	*1.85*	*7.40*	*Welder*
Antirust	lt	*0.03*	*51.75*	*1.55*	*Helper*
Electric power	Kw/hr	1	2.75	*2.75*	

Total (1:-01)				*75.12*	***Total (1:02)***

A=Material unit cost *75.12 Birr/pc*

B=Manpowe

Total of (1:02)

Daily output

Direct Cost of work item = A + B + C =

Overhead Cos

Profit Cost:

Total :

Vat:

Total Unit Co

Remark : _____

UF: UTILIZATION FACTOR

**: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.*

***: INCLUSIVE OF BENEFITS, TRAVEL SUBSIDES AND COST OF OVERTIME RELATED TO*

HEET FOR DIRECT & INDIRECT COSTS

LABOUR DAILY OUTPUT: 100.00

EQUIPEMENT DAILY OUT PUT: 100.00

RESULT **50.14** Birr/kg

Labor Cost (1:02)				Equipment Cost (1:03)		
No.	UF	** Indexed hourly wage	hourly wage	Type of Equipment	No.	hourly Rental
1	0.25	23.75	5.94	Tools	4	1.28
1	1	14.25	14.25	Crane 45 Tone	1	867.2
1	1	75.00	75.00	Welding M.	1	19.23
2	1	6.38	12.75	Grinder	1	18.00
			107.94	**Total (1:03)**		

r Unit Cost 1.08 Birr/kg **C=Equipment Unit Cost** 9.10

) Total of (1:03)

t: Daily output:

43.39 Birr/kg

t : 7% 3.04 "

8% 3.71 "

50.14 "

"

ost : **50.14** Birr/kg

TARGETED OUTPUT.

HEET FOR DIRECT & INDIRECT COSTS

LABOUR DAILY OUTPUT: 500.00

EQUIPEMENT DAILY OUT PUT: 500.00

RESULT **44.59** Birr/kg

Labor Cost (1:02)				Equipment Cost (1:03)		
No.	UF	** Indexed hourly wage	hourly wage	Type of Equipment	No.	hourly Rental

1	0.25	23.75	5.94	Tools	4	1.28
1	1	14.25	14.25	Crane 45 Tone	1	867.2
1	1	75.00	75.00	Welding M.	1	19.23
2	1	6.38	12.75	Grinder	1	18.00
			107.94	**Total (1:03)**		

r Unit Cost 0.22 Birr/kg **C=Equipment Unit Cost** 1.82

) Total of (1:03)

t: Daily output:

35.25 Birr/kg

st : 15% 5.29 "

10% 4.05 "

44.59 "

"

ost : **44.59** Birr/kg

O TARGETED OUTPUT.

HEET FOR DIRECT & INDIRECT COSTS

LABOUR DAILY OUTPUT: 2.00

EQUIPEMENT DAILY OUT PUT: 2.00

RESULT **859.72** Birr/ml

Labor Cost (1:02)				**Equipment Cost (1:03)**		
No.	UF	** Indexed hourly wage	hourly wage	Type of Equipment	No.	hourly Rental
1	0.25	23.75	5.94	Tools	4	1.28
1	1	14.25	14.25	Crane 45 tone	1	867.2
4	1	6.38	25.50	Welding M.	1	19.23
1	1	75.00	75.00	Grinder	1	18.00
			120.69	**Total (1:03)**		

r Unit Cost 60.34 Birr/ml **C=Equipment Unit Cost** 454.78

) Total of (1:03)

t: Daily output:

		743.96	*Birr/ml*
st :	*7%*	*52.08*	"
	8%	*63.68*	"
		859.72	"
			"
ost :		***859.72***	*Birr/ml*

O TARGETED OUTPUT.

HEET FOR DIRECT & INDIRECT COSTS

LABOUR DAILY OUTPUT:	*5.00*
EQUIPEMENT DAILY OUT PUT:	*5.00*
RESULT	***335.82*** *Birr/ml*

Labor Cost (1:02)				***Equipment Cost (1:03)***		
No.	*UF*	** *Indexed hourly wage*	*hourly wage*	*Type of Equipment*	*No.*	*hourly Rental*
1	*0.25*	*23.75*	*5.94*	*Tools*	*4*	*1.28*
1	*1*	*14.25*	*14.25*	*Crane 45 tone*	*1*	*867.2*
4	*1*	*6.38*	*25.50*	*Welding M.*	*1*	*19.23*
1	*1*	*75.00*	*75.00*	*Grinder*	*1*	*18.00*
			120.69	***Total (1:03)***		

r Unit Cost	*24.14 Birr/ml*	***C=Equipment Unit Cost***	*181.91*
)		*Total of (1:03)*	
t:		*Daily output:*	
		290.60 *Birr/ml*	
st :	*7%*	*20.34*	"
	8%	*24.88*	"
		335.82	"
			"
ost :		***335.82*** *Birr/ml*	

O TARGETED OUTPUT.

HEET FOR DIRECT & INDIRECT COSTS

LABOUR DAILY OUTPUT:	*312.50*
EQUIPEMENT DAILY OUT PUT:	*312.50*

RESULT **41.72** Birr/kg

Labor Cost (1:02)				Equipment Cost (1:03)		
No.	UF	** Indexed hourly wage	hourly wage	Type of Equipment	No.	hourly Rental
1	0.25	23.75	5.94	Tools	4	1.28
1	1	16.25	16.25	Crane 45 tone	1	775
4	1	8.75	35.00	Welding M.	1	18.00
1	1	75.00	75.00	Grinder	1	18.00
			132.19	**Total (1:03)**		

r Unit Cost 0.42 Birr/kg **C=Equipment Unit Cost** 2.61

) Total of (1:03)

t: Daily output:

36.10 Birr/kg

st : 7% 2.53 "

8% 3.09 "

41.72 "

"

ost : **41.72** Birr/ml

O TARGETED OUTPUT.

HEET FOR DIRECT & INDIRECT COSTS

LABOUR DAILY OUTPUT: 3.00

EQUIPEMENT DAILY OUT PUT: 3.00

RESULT **485.26** Birr/ml

Labor Cost (1:02)				Equipment Cost (1:03)		
No.	UF	** Indexed hourly wage	hourly wage	Type of Equipment	No.	hourly Rental
1	0.25	23.75	5.94	Tools	4	1.28
1	1	14.25	14.25	Crane 20 tone	1	675
4	1	6.38	25.50	Welding M.	1	19.23
1	1	75.00	75.00	Grinder	1	18.00

			120.69	**Total (1:03)**		

r Unit Cost	40.23	Birr/ml	**C=Equipment Unit Cost**		239.12
)			Total of (1:03)		
t:			Daily output:		
		419.92	Birr/ml		
st :	7%	29.39	"		
	8%	35.94	"		
		485.26	"		
			"		
ost :		**485.26**	Birr/ml		

TARGETED OUTPUT.

HEET FOR DIRECT & INDIRECT COSTS

LABOUR DAILY OUTPUT:		2.00
EQUIPEMENT DAILY OUT PUT:		2.00
RESULT	**663.53**	Birr/ml

Labor Cost (1:02)				**Equipment Cost (1:03)**		
No.	UF	** Indexed hourly wage	hourly wage	Type of Equipment	No.	hourly Rental
1	0.25	23.75	5.94	Tools	4	1.28
1	1	14.25	14.25	Crane 45 tone	1	675
4	1	6.38	25.50	Welding M.	1	19.23
1	1	75.00	75.00	Grinder	1	18.00
			120.69	**Total (1:03)**		

r Unit Cost	60.34	Birr/ml	**C=Equipment Unit Cost**		358.68
)			Total of (1:03)		
t:			Daily output:		
		574.19	Birr/ml		
st :	7%	40.19	"		
	8%	49.15	"		
		663.53	"		
			"		
ost :		**663.53**	Birr/ml		

D TARGETED OUTPUT.

HEET FOR DIRECT & INDIRECT COSTS

LABOUR DAILY OUTPUT:		3.00
EQUIPEMENT DAILY OUT PUT:		3.00
RESULT	**550.11**	Birr/ml

Labor Cost (1:02)				Equipment Cost (1:03)		
No.	UF	** Indexed hourly wage	hourly wage	Type of Equipment	No.	hourly Rental
1	0.25	23.75	5.94	Tools	4	1.28
1	1	14.25	14.25	Crane 20 tone	1	675
4	1	6.38	25.50	Welding M.	1	19.23
1	1	75.00	75.00	Grinder	1	18.00
			120.69	**Total (1:03)**		

r Unit Cost	40.23	Birr/ml	**C=Equipment Unit Cost**	239.12
)			Total of (1:03)	
t:			Daily output:	
		476.04	Birr/ml	
st :	7%	33.32	"	
	8%	40.75	"	
		550.11	"	
			"	
ost :		**550.11**	Birr/ml	

D TARGETED OUTPUT.

HEET FOR DIRECT & INDIRECT COSTS

LABOUR DAILY OUTPUT:		3.00
EQUIPEMENT DAILY OUT PUT:		3.00
RESULT	**493.28**	Birr/ml

Labor Cost (1:02)				Equipment Cost (1:03)		
No.	UF	** Indexed hourly wage	hourly wage	Type of Equipment	No.	hourly Rental

1	0.25	23.75	5.94	Tools	4	1.28
1	1	14.25	14.25	Crane 20 tone	1	675
4	1	6.38	25.50	Welding M.	1	19.23
1	1	75.00	75.00	Grinder	1	18.00
			120.69	**Total (1:03)**		

r Unit Cost 40.23 Birr/ml **C=Equipment Unit Cost** 239.12

) Total of (1:03)

t: Daily output:

426.86 Birr/ml

st : 7% 29.88 "

8% 36.54 "

493.28 "

"

ost : **493.28** Birr/ml

O TARGETED OUTPUT.

HEET FOR DIRECT & INDIRECT COSTS

LABOUR DAILY OUTPUT: 3.00

EQUIPEMENT DAILY OUT PUT: 3.00

RESULT **270.72** Birr/ml

Labor Cost (1:02)				**Equipment Cost (1:03)**		
No.	UF	** Indexed hourly wage	hourly wage	Type of Equipment	No.	hourly Rental
1	0.25	23.75	5.94	Tools	2	1.28
1	1	14.25	14.25	Welding M.	1	19.23
2	1	6.38	12.75	Grinder	1	18.00
			32.94	**Total (1:03)**		

r Unit Cost 10.98 Birr/ml **C=Equipment Unit Cost** 13.26

) Total of (1:03)

t:			Daily output:
		234.27	Birr/ml
st :	7%	16.40	"
	8%	20.05	"
		270.72	"
			"
ost :		**270.72**	Birr/ml

O TARGETED OUTPUT.

HEET FOR DIRECT & INDIRECT COSTS

LABOUR DAILY OUTPUT:		3.00
EQUIPEMENT DAILY OUT PUT:		3.00
RESULT	**186.56** Birr/ml	

Labor Cost (1:02)				**Equipment Cost (1:03)**		
No.	UF	** Indexed hourly wage	hourly wage	Type of Equipment	No.	hourly Rental
1	0.25	23.75	5.94	Tools	2	1.28
1	1	14.25	14.25	Welding M.	1	19.23
2	1	6.38	12.75	Grinder	1	18.00
			32.94	**Total (1:03)**		

r Unit Cost	10.98 Birr/ml	**C=Equipment Unit Cost**	13.26
)		Total of (1:03)	
t:		Daily output:	
		161.44 Birr/ml	
st :	7%	11.30	"
	8%	13.82	"
		186.56	"
			"
ost :		**186.56** Birr/ml	

O TARGETED OUTPUT.

HEET FOR DIRECT & INDIRECT COSTS

LABOUR DAILY OUTPUT:		3.00
EQUIPEMENT DAILY OUT PUT:		3.00
RESULT	**119.36** Birr/ml	

Labor Cost (1:02)				Equipment Cost (1:03)		
No.	UF	** Indexed hourly wage	hourly wage	Type of Equipment	No.	hourly Rental
1	0.25	23.75	5.94	Tools	2	1.28
1	1	14.25	14.25	Welding M.	1	19.23
2	1	6.38	12.75	Grinder	1	18.00
			32.94	**Total (1:03)**		

r Unit Cost 10.98 Birr/ml **C=Equipment Unit Cost** 13.26

) Total of (1:03)

t: Daily output:

103.29 Birr/ml

st : 7% 7.23 "

8% 8.84 "

119.36 "

"

ost : **119.36** Birr/ml

O TARGETED OUTPUT.

HEET FOR DIRECT & INDIRECT COSTS

LABOUR DAILY OUTPUT: 3.00

EQUIPEMENT DAILY OUT PUT: 3.00

RESULT **96.95** Birr/ml

Labor Cost (1:02)				Equipment Cost (1:03)		
No.	UF	** Indexed hourly wage	hourly wage	Type of Equipment	No.	hourly Rental
1	0.25	23.75	5.94	Tools	2	1.28
1	1	14.25	14.25	Welding M.	1	19.23
2	1	6.38	12.75	Grinder	1	18.00

	32.94	**Total (1:03)**	

r Unit Cost	10.98	Birr/ml	**C=Equipment Unit Cost**		13.26
)			Total of (1:03)		
t:			Daily output:		
		83.90	Birr/ml		
st :	7%	5.87	"		
	8%	7.18	"		
		96.95	"		
			"		
ost :		**96.95**	Birr/ml		

O TARGETED OUTPUT.

HEET FOR DIRECT & INDIRECT COSTS

LABOUR DAILY OUTPUT:		3.00
EQUIPEMENT DAILY OUT PUT:		3.00
RESULT	**85.62**	Birr/ml

Labor Cost (1:02)				**Equipment Cost (1:03)**		
No.	UF	** Indexed hourly wage	hourly wage	Type of Equipment	No.	hourly Rental
1	0.25	23.75	5.94	Tools	2	1.28
1	1	14.25	14.25	Welding M.	1	19.23
2	1	6.38	12.75	Grinder	1	18.00
			32.94	**Total (1:03)**		

r Unit Cost	10.98	Birr/ml	**C=Equipment Unit Cost**		13.26
)			Total of (1:03)		
t:			Daily output:		
		74.10	Birr/ml		
st :	7%	5.19	"		
	8%	6.34	"		
		85.62	"		
			"		
ost :		**85.62**	Birr/ml		

O TARGETED OUTPUT.

HEET FOR DIRECT & INDIRECT COSTS

LABOUR DAILY OUTPUT:		12.50
EQUIPEMENT DAILY OUT PUT:		12.50
RESULT	**375.49**	Birr/pc

Labor Cost (1:02)				Equipment Cost (1:03)		
No.	UF	** Indexed hourly wage	hourly wage	Type of Equipment	No.	hourly Rental
1	0.25	23.75	5.94	Tools	2	1.28
1	1	14.25	14.25	Welding M.	1	19.23
2	1	6.38	12.75	Grinder	1	18.00
			32.94	**Total (1:03)**		

r Unit Cost	2.64	Birr/pc	**C=Equipment Unit Cost**	3.18
)			Total of (1:03)	
t:			Daily output:	
		324.93	Birr/pc	
st :	7%	22.75	"	
	8%	27.81	"	
		375.49	"	
			"	
ost :		**375.49**	Birr/pc	

TARGETED OUTPUT.

HEET FOR DIRECT & INDIRECT COSTS

LABOUR DAILY OUTPUT:		12.50
EQUIPEMENT DAILY OUT PUT:		12.50
RESULT	**93.53**	Birr/pc

Labor Cost (1:02)				Equipment Cost (1:03)		
No.	UF	** Indexed hourly wage	hourly wage	Type of Equipment	No.	hourly Rental
1	0.25	23.75	5.94	Tools	2	1.28
1	1	14.25	14.25	Welding M.	1	19.23
2	1	6.38	12.75	Grinder	1	18.00

			32.94	**Total (1:03)**		

r Unit Cost	*2.64*	*Birr/pc*	***C=Equipment Unit Cost***	*3.18*
)			*Total of (1:03)*	
t:			*Daily output:*	
		80.93	*Birr/pc*	
t :	*7%*	*5.67*	"	
	8%	*6.93*	"	
		93.53	"	
			"	
ost :		***93.53***	*Birr/pc*	

D TARGETED OUTPUT.

kg /hr
kg /hr

hourly Cost
5.12
867.20
19.23
18.00
909.55

Birr/kg

kg /hr
kg /hr

hourly Cost

5.12
867.20
19.23
18.00
909.55

Birr/kg

ml /hr
ml./hr

hourly Cost
5.12
867.20
19.23
18.00
909.55

Birr/ml

ml /hr
ml./hr

hourly Cost
5.12
867.20
19.23
18.00
909.55

Birr/ml

kg /hr
kg /hr

hourly Cost
5.12
775.00
18.00
18.00
816.12

25*25*2.5mm RHS =1.96kg/m

5.88

245.3136

Birr/kg

ml /hr

ml./hr

192.711111

hourly Cost
5.12
675.00
19.23
18.00

25*25*2.5mm RHS =1.96kg/m

0.53571429

159.438776

5.10204082

717.35

Birr/ml

ml /hr
ml./hr

hourly Cost
5.12
675.00
19.23
18.00
717.35

Birr/ml

ml /hr
ml./hr

hourly Cost
5.12
675.00
19.23
18.00
717.35

Birr/ml

ml /hr
ml./hr

hourly Cost

5.12
675.00
19.23
18.00
717.35

Birr/ml

ml /hr
ml./hr

hourly Cost
2.56
19.23
18.00

39.79

Birr/ml

ml /hr
ml./hr

hourly Cost
2.56
19.23
18.00

39.79

Birr/ml

ml /hr
ml./hr

hourly Cost
2.56
19.23
18.00

39.79

Birr/ml

ml /hr
ml./hr

hourly Cost
2.56
19.23
18.00

39.79

Birr/ml

ml /hr
ml./hr

hourly Cost
2.56
19.23
18.00

39.79

Birr/ml

pc /hr
pc /hr

hourly Cost
2.56
19.23
18.00

39.79

Birr/pc

pc /hr
pc /hr

hourly Cost
2.56
19.23
18.00

39.79

Birr/pc

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ANALYSIS SHEET FOR DIREC

PROJECT: **FINISHING WORKS.**

WORK ITEM: (11.4) ***Two coat of cement plaster to vertical surfaces (1:3)***

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.
Cement	Qtl	0.11	240.00	26.40	Foreman	1
Sand	m3	0.03	435.00	13.05	Plasterer	1
water	m^3	0.01	3.45	0.03	D/L	1
	Total (1:01)			39.48	**Total**	

A= Materials U **39.4845** 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.

CT & INDIRECT UNIT COSTS

LABOUR HOURLY OUTPUT 1st (2.8125 m²/hr

EQUIPEMENT:

RESULT : **53.31** Birr/m²

Labour Cost (1:02)			Equipment Cost (1:03)			
UF	** Indexed Hourly Cost	Hourly Cost	Type of Equipment	No.	Hourly Rental	Hourly Cost
0.1	19.94	1.99	Tools	2	1.28	2.56
1	9.75	9.75				
1	4.38	4.38				
(1:02)		16.12	**Total (1:03)**			2.56

5.73 Birr/m² C= Equipment Unit Cost **0.910222222** Birr/m²

Total of (1:03)

Hourly output: _____

46.13 Birr/m² 6.64

8% 3.69 "

7% 3.49 "

53.31 Birr/m²

		COST OF CONSTRUCTION MATERIAL AT ADI
Item No	**Type of material**	**Unit**
1	**Excavation & Earth work**	
1.1	Selected material	m^3
1.2	Basaltic hardcore	m^3
1.3	Redash	m^3
2	**Masonary & Concret work**	
2.1	Cement	qnt
2.2	Cement-2	kg
2.3	Sand	m^3
	Sand adama	
2.4	Aggregate 00	m^3
2.5	Aggregate 01	m^3
2.6	Aggregate 02	m^3
	Aggregate adama	
2.7	trchytic masonry Stone	m^3
2.8	basal tic stone for masonry	m^3
2.9	Red ash	m^3
2.10	Pumice	m^3
2.11	Water	m^3
2.12	Dressed stone	m2
2.13	Roughly dressed stone	m^2
2.14	Ambo stone	m^2
2.15	Kebena stone	m^2
2.16	Alolo stone	m^2
2.17	Precast beam	m^3
2.18	Selected material	m^3
3	**Formwork**	
3.1	Eucalyptus wood 4cm dia.	ml
3.2	Eucalyptus wood 6cm dia.	ml
3.3	Eucalyptus wood 8cm dia.	ml
3.4	Eucalyptus wood 10cm dia.	ml
3.5	Eucalyptus wood 12cm dia.	ml
3.6	formwork plywood 2cm	m2
3.7	Zigba formwork 2.5cm	m^2
3.8	Timber 2.5cm thick	m^2
3.9	Timber 1cm thick	m^2
3.10	Purline for ceiling	m^2
3.11	40 x 50mm standard quality battens-local	ml
3.12	70 x 50mm standard quality battens-local	ml
3.13	40 x 50mm best quality battens-austalia	ml
3.14	70 x 50mm best quality battens-australia	ml
3.15	Mould oil	lt

	Black oil	lt
	Band iron/bonda	kg
	Barbed wire	ml
	Fence wire	kg
	Wire mesh	kg
4	**Reinforcment bar**	
4.1	Size 6mm plain	kg
4.2	Size 8mm deformed	kg
4.3	Size 10mm deformed	kg
4.4	Size 12mm deformed	kg
4.5	Size 14mm deformed	kg
4.6	Size 16mm deformed	kg
4.7	Size 20mm deformed	kg
4.8	Size 24mm deformed	kg
4.9	Size 28mm deformed	kg
4.10	Size 30mm deformed	kg
4.11	Size 32mm deformed	kg
5	**Black annaed wire**	
5.1-	Tying wire size 1.5mm	kg
5.2	cutter disk	Pcs
	ceramic and tile cutter	Pcs
6	**BRICK & HCB WALLING**	
6.1	Hydraform /22cm thick/	No
6.2	- Facing brick	Pcs.
6.3	Backing brick -latest	Pcs.
6.12	class - B 15 cm. Thick HCB	Pcs.
6.19	class - B 20cm. Thick H C.B	Pcs.
	class - B 10cm. Thick solid C.B	
	Ceramic	m2
7	**Roofing**	
7.1	CORRUGATED IRON SHEET	
7.1.1	Gauge 35	m²
7.1.2	Gauge 32	m²
7.1.3	Gauge 30	m²
7.1.4	Gauge 28	m²
7.1.5	flat g-28	ml
	ridge cover-33cm	ml
	Fixer	ps
7.1.6	*Timber /Tsid /የጽድ ጣውላ/ 1cm for decorating roof purlin*	m²
7.1.7	Aspestos	m²
7.1.8	Euro tile	m²
7.1.9	Mica roof tile	m²
7.1.10	Grass for roof cover	m²
7.1.11	Rope	ml
7.2	**Nails**	
7.2.1	3cm & 4cm.	Kg
7.2.2	5cm up to 15cm.	Kg
7.2.3	Concrete nail	Kg

7.2.4	Roofing nail	Kg
7.2.5	Plastice washer	pkt
7.4	**Gutter**	
7.4.1	ridge cover & flashing galvanized sheet metal of devt. Length 33 cm	m2
7.4.2	Metal brackets-piato	No.
7.9	PVC for down pipe	
7.9.1	Ø 80cm	ml
7.9.2	Ø 110cm	ml
7.9.3	Ø 150cm	ml
8	**Metal Works/steel structure**	
1	38 mm LTZ metal L - Section 1.5mm	ml
2	38 mm LTZ metal T - Section 1.5mm	ml
3	38 mm LTZ metal Z - Section 1.5mm	ml
4	38 mm LTZ metal L - Section 1.2mm	ml
5	38 mm LTZ metal T - Section 1.2mm	ml
6	38 mm LTZ metal Z - Section 1.2mm	ml
14	Metal Frame (angle iron) 10*20*1.25mm	ml
15	manelia	No
16	Creketto	No
	RHS 40*40*1.5mm	ML
18	Hinge	No
19	Electrode	kg
20	Electric power	Kw/hr
21	Flat metal (piato)	ml
22	sheet metal (0.8mm)	m²
23	sheet metal (1.0mm)	m²
24	sheet metal (1.5mm)	m²
	sheet metal (3mm)	pc
25	mesh wire for fence20*20* 4mm	m2
26	metal mesh for vntilation 1.2mm thick	m2
27		
28	Locker IV	No
29	Cylindrical lock I	No
	PVC DOOR 70*180	no
	PVC DOOR 80*180	no
	PVC DOOR 66*180-latest	no
	Pvc partition	
36	Washer	Pcs
37	Antirust	lt
38	synthetic paint	lt
39	RHS (20X20X1.5mm) Kality	ml
40	RHS (25X25X2mm)	ml
41	RHS (30X30X1.5mm)	ml
42	RHS (30X30X2.0mm)	ml
43	RHS (30X30X2.5mm)	ml
44	RHS (40X40X1.5mm)	ml

45	RHS (40X40X2mm)	ml
46	RHS (40X40X2.5mm)	ml
47	RHS (40X40X3mm)	ml
48	RHS (50X50X3mm)	ml
49	RHS (60X40X1.5mm)	ml
50	RHS (60X40X2mm)	ml
51	RHS (60X40X3mm)	ml
52	RHS (70X50X3mm)	ml
53	RHS (60X60X2mm)	ml
54	RHS (60X60X3mm)	ml
55	RHS (80x80x3mm)	ml
56	RHS (80x80x3.5mm)	ml
57	RHS (100X60X2mm)	ml
58	RHS (100X60X2mm)	ml
59	Art metal	Pcs
9	**FINISHING WORKS**	
1	2 cm thick Terrazzo tile	m²
	Wall tiles	
2	6 mm thick Ceramic wall tile economic version	m²
	6 mm thick Ceramic wall tile 60×60cm best quality	m²
54	6 mm thick Ceramic wall tile 60×60cm standard version	m²
55	6 mm thick Ceramic wall tile - standard version 30×45cm	m²
56	6 mm thick Ceramic wall tile - best quality 30×45cm	m²
56	6 mm thick Ceramic FLOOR tile - 7mm thickness 30×30cm	m²
57	40x40cm porceiline	m²
58	10cm porceilne skerting	ml
58	60x60cm porcfeline for main corridor and varandah	m²
59	granite 2cm	m2
60	GRANITE 3cm for window cill	m2
61	bull noising	m
61	GRANITE 2cm for door treshod	m2
62	granite tile	m2
63	granite tile skerting	ml
59	HDF wooden parquet of 10mm thick	m2
60	adhesive (ceramic 1pac)	1pac
61	adhesive (ceramic 1kg)	kg
62	adhesive for porcilene	1pac
61	pvc tile	m²
62	pvc glue	kg
63	Pvc skerting 8cm heigh	m
64	Wodden skerting 10cm height	m
65	fisher	pc
66	screw	pc
67	3mm thick galvanized sheet metal	ml

59	disk cutter 1(ceramic)	pc
60	disk cutter 2(granite)	pc
61	disk cutter 3(	pc
62	Mosaic wall tile	m²
63	Adhesive II	kg
64	Adhesive I	kg
65	white cement	kg
66	1cm thick white marble cladding	m²
67	10mm thick white marble cladding 6x30cm	m²
68	3mm thick white mrble	m²
69	6mm thick Clinker wall 24x6 cm	m²
70	Plastic paper	m²
71	Kaki or news paper	m²
72	Normal paper	m²
73	Abujedid	m²
	PVC wall tile type cladding	m²
	WINDOW sill	
1	marble	
2	3cm thick sabian multi-color marble trade & window sill	m²
3	1cm thick sabian marble	m²
4	2cm thick sabian marble	m²
5	3cm thick Mankusha marble	m²
6	2cm thick Mankusha marble	m²
7	2cm thick sabian multi-color marble riser & door sill	m²
8	3cm thick Harar marble window sill	m²
9	3cm thick terrazzo window sill	m²
10	3cm thick 28cm width L=1.2m	
11	3cm thick 28cm width L=1.5m	
17	**Copping1**	
17.1	marble	
	5cm thick white marble copping	m²
	2cm thick marble copping	m²
	5cm thick concrete copping	m²
	2cm thick terrazzo copping	m²
17.2	Riser and Thread	
	2 cm thick Harar marble riser	m²
	2 cm thick white marble riser	m²
	2 cm thick granite riser	m²
	2 cm thick Terrazzo riser	m²
	Gojam marble chips flooring	m²
	Gypsum	kg
	Harrar marble thread	m²
	white marble thread	m²
	granite thread	m²
	Terrazzo thread	m²
6	Terrazo skirting	ml
10	**GLAZING WORKS**	

18.1	Clear Glass	
	Size 4 mm thick	m²
	Size 5 mm thick	m²
	Puty	Kg
11	**PAINTING**	
1	Plastic paint	lit
2	granite paint	lit
3	Synthetic enamel paint	lit
4	Gypsum	kg
5	animalmglue	kg
6	sand paper	pc
7	quartz	gal
8	FINE quartz	gal
9	brusher	Pcs
10	dulentin	liter
12	**CARPENTARY AND JOINERY**	
	3.Chipwood	
1	8 mm thick chip wood	m²
2	10 mm thick chip wood	m²
3	13 mm thick chip wood	m²
4	16 mm thick chip wood	m²
5	19 mm thick chip wood	m²
20.23	5cm width wooden fascia board	ml
20.24	20cm width wooden fascia board	ml
20.25	25cm width wooden fascia board-local	ml
20.26	30cm width wooden fascia board	ml
20.27	15cm width wooden fascia board	ml
20.28	50cm width wooden fascia board	ml
20.29	*Timber 1cm thick*	m²
20.30	*Door 265*90*	Pcs
20.31	*Door lock*	Pcs
20.32	*corner list*	ml
20.33	4*5cm local zigba batten	m²
	7*5CM LOCAL MORALE	m2
	Eucylyptus 10-12	ml
	Eucylyptus 8-10	ml
		ml
13	**SANITARY WORK**	
	Dia 63mm PN-16 HDPE pipe	ml
	FITTINGS -Adapter	pcs
	elbow	pcs
	reducer	pcs
	filler	kg
	Katcha	kg
	HDPE GATE valve dia 63mm	pcs
	pvc-glue	kg
	Roto 5000 liter	pcs

	Roto10000 liter	pcs
	Float valve1.5''	pcs
	Outlet/inlet	pcs
	G.Spipe 15mm	ml
	G.S Gate valve dia 15mm	pcs
	water	m3
	water tap	pcs
2	**Hand wash basin**	
	Impaired hand wash basin(for disabled)	pc
	Impaired hand wash basin(for disabled)	pc
	PVC DIA 50MM	ML
	PVC DIA 110MM	ML
	PVC DIA 160MM	ML
	PVC DIA 32MM	ML
	PPR-DIA-20mm	
	PPR-DIA-25mm	
	PPR-DIA-15mm	
	PPR-DIA-32mm	
	WC-low flush	
	Hand -wash low flush	
	SH box	
	toilet paper holder	
	soap holder	
	Double bowl stainless steel kitchen sink	
	FD	
	White vitreous china toilet paper holder European made	pc
	White vitreous china toilet paper holder Ethiopian made	pc
8	**Towel hunger**	
	Towel hunger best quality	pc
	Towel hunger economy version	pc
9	**enameled steel bath tub**	
	70x150 cm white enameled steel bath tub with all acces	pc
	70x170 cm white enameled steel bath tub with all acces	pc
10	**Fiber glass bath tub**	
	70x150 cm fiber glass bath tub with all accessories	pc
	70x170 cm fiber glass bath tub with all accessories	pc
11	**Jacuzzi**	
	80x150 cm Jacuzzi (bath tub) with all accessories	pc
	124x190 cm Jacuzzi (bath tub) with all accessories	pc
	150x150 cm Jacuzzi (bath tub) with all accessories	pc
	180x130 cm digital control Jacuzzi (bath tub)with steam & all accessories	pc

12	**Shower box**	
	90x90 cm Shower box	pc
	Urinal	
	Urinal with all accessories medium quality	pc
	Urinal with all accessories low quality	pc
13	**Water heater**	
	50 lt capacity Water heater with all accessories	pc
	80 lt capacity Water heater with all accessories	pc
	100 lt capacity Water heater with all accessories	pc
14	**Floor drain**	
	Dia.50 mm brass plated floor drain high quality	pc
	Dia.50 mm brass plated floor drain low quality	pc
	Dia.80 mm brass plated floor drain high quality	pc
	Dia.80 mm brass plated floor drain low quality	pc
15	**Crystal glass mirror**	
	500x400mm	pc
14	**ELECTRICAL WORK**	
	Telephone outlet	No
	connector	No
	TV Cable	Ml
	TV outlet	No
	Electrical	
2	**Light fitting RZB**	pc
	Light fitting RZB 91163.00x with accessories	pc
	Light fitting RZB 34500.200x with accessories	pc
	Light fitting RZB 211004.002 with accessories	pc
	Light fitting RZB 21104.00X with accessories	pc
	Light fitting RZB 612067 with accessories	pc
3	**Flourescent light fitting**	
	Flourescent Disano 930 ECHO with 1x36w flourescent T8 Lamps	
	Flourescent MODUSE I 418 ALDP or equivalent 4x18w lenear flourescent lamp T8 with G13 base	
	Luminaries	
	Massive 34004/11/10E14/40W	pc
	Massive 70107/02/2XE27/60W	pc
	Massive 73768/03/3XE14/40W	pc
	Massive 73768/05/5XE14/40W	pc
4	**Philips Lighting**	
	TCW 215/118 +1xTLD 18W with water proof Luminaires	
	TCW215/218 + 2xTLD 18W with water proof Luminaires	
	TCW215/136 + 1xTLD 36 w with water proof Luminaires	
	TCW215/236 + 2xTLD 36 w with water proof Luminaires	
	TMW065 1xTL-D36w with water proof batten and dust proof	
	TMW065 2xTL-D36w with water proof batten and dust proof	

	TCS 398 2x18 w	
	TCS 398 1x36 w	
5	**Batten**	
	TMX 204 1-2x36w	
	TMX 204 1-2x58w	pc
6	**HIGH BAY LUMINAIRES**	
22.10.1		
	Flush mounted socket	pcs
	conduit dia 16	pcs
	flourecent luminar type TMS 012/2.3D	
	flourecent luminar type TMS 012/1.36c	
	copper clad earth rod	pcs
	copper earth conductor	ml
	cable 4*25+16	
	5*6mm2	
	Connector	
	1*2.5mm	
	2*2.5mm	ml
	3*2.5mm	ml
	conduit dia 16mm	ml
	switch	pcs
	Socket	pcs
	Juncion box/scatola	pcs
	Distriution Board including bus bar of 80A	
	Distriution Board including bus bar of 63 A	
	Distriution Board including bus bar of 80A-2	
	Distriution Board including bus bar of 63 A-2	
	Flourescent light fitting-TMS-012/2.36D	
	Flourescent light fitting-TMS-012/1.36D	
	Flourescent light fitting-TMS-012/1.36D	
	With half reflector	
	breaker 10 Amp	
22.12	**Fuse**	
22.12.1	HRS Fuse 40A cartridgefuse single phase	pc
	HRS Fuse 50A cartridgefuse single phase	
	HRS Fuse 125A blade type single phase	
	HRS Fuse 630A blade type single phase	
	Socket Fuse 10A-40A Carrier fuse single phase	
	Socket Fuse 50A-63A Carrier fuse single phase	
	Socket Fuse 800A Blade type single phase	
22.13	**Cable**	
22.13.1	Flexible round cable 2x 2mm2	pc
	Flexible round cable 2x 2.5mm2	
	Flexible round cable 2x 4mm2	

	Flexible round cable 3x6mm2	
	Rigid round cable 3x10mm2	
	Rigid round cable 3x16mm2	
22.14	**Cable1**	
22.14.1	Galvanized perforated sheet Cable tray of 100mm	pc
	Galvanized perforated sheet Cable tray of 200mm	
	Galvanized perforated sheet Cable tray of 400mm	
	Galvanized perforated sheet Cable tray of 600mm	
	Galvanized Cable Ladder of 100mm	
	Galvanized Cable Ladder of 600mm	
22.14.2	steel support	pc
22.15	**Power cable**	
22.15.1	Power cable 3x35/16mm2	Ml
	Power cable 3x50/25mm2	
	Power cable 3x70/35mm2	
22.16	**Control cable**	
22.16.1	Control cable 7x1.5mm2	Ml
22.17	**Bare copper**	
22.17.1	Bare copper wire 1x6mm2	pc
	Bare copper wire 1x10mm2	
	Bare copper wire 1x16mm2	
22.18	**Earthing system**	
22.18.1	Earth electrodes of 0.6mx0.6mx3.15mm copper plate	
	Earth electrodes 2.5mx16mm dia. Copper rod	
	Lightning arrestor	
22.19	**Fire Alarm system**	
22.19.1	Fire Alarm Main control board	pc
	Fire Alarm repeater panal	ml
	Siren(Alarm/bell)water proof	
	Manual call box for alarm system	
	Break glass	
	Termosensor	
	Smokesensor	
	RJ45 outlet category 5E with 8 contacts	
	RJ45 twin outlet category 5E with 8 contacts	
22.20	**Data outlet**	
22.20.1	RJ45 outlet category 5E with 8 contacts	pc
22.21	**Bell**	
22.21.1	Bell 12V	pc
22.21.2	Bell 220V	pc
22.21.3	Bell Call Indicator/Annunciator 6 number	pc
22.22	**connectors**	pc
22.22.1	Connector clap	no
22.22.2	Driving stud	no
	16mm rod coupling	
22.24	**switch**	
22.24.1	Single switch economic	no
22.24.2	Single pole switch	no

22.24.3	Double pole switch	no
22.24.4	Two way switch	no
22.24.5	Intermidate switch	no
22.24.6	3-gange switch	no
	Dimmer box type c consisting -12pcs Dimmers	no
	Dimmer box type R,L and L/M consisting -6pcs Dimmers	
22.25	**Single wire**	ml
22.25.1	Single wire 1x4mm2	ml
22.26	**Socket outlet**	
22.26.1	Socket economic	no
22.26.2	Socket outlet 10A/1p	no
22.26.3	Socket outlet 16A/1p	no
22.26.4	Socket outlet 25A/1p	no
	TV Socket outlet	no
	Socket for water heater	no
	Socket for stove	no
	Socket for Injera mitad	no
22.27	Conduit 16m	no
	Rigid conduit	
	Dia.13mm	
	Dia 16mm	
	Dia 19mm	
	Flexible conduit	
	Dia 13mm	
	Dia 16mm	
	Dia 19mm	
22.27.1	Dia 13mm2 conduit	Ml
22.28	Junction box	No
15	**SITE SANITARY WORK**	
	Fiber (kacha)	kg
	Anti rust	lit
	Cement	kg
	Sand	m^3
	Red ash	m^3
23.1	**G S C Pipe**	
	1/2" G.S.Pipe (class B)	ml
	3/4" G.S.Pipe (class B)	ml
	1" G.S.Pipe (class B)	ml
	1 1/2" G.S.Pipe (class B)	ml
	1 1/4" G.S.Pipe (class B)	ml
	2" G.S.Pipe (class B)	ml
	21/2" G.S.Pipe (class B)	ml
	3" G.S.Pipe (class B)	ml
23.2	**concrete pipe**	
	Diameter 10 cm concrete pipe	ml
	Diameter 15cm concrete pipe	ml
	Diameter 20cm concrete pipe	ml
	Diameter 30cm concrete pipe	ml

	Diameter 30 cm reinforced concrete pipe	ml
	Diameter 40 cm reinforced concrete pipe	ml
	Diameter 50 cm reinforced concrete pipe	ml
	1/2 Dia. 30cm concrete pipe	ml
	1/2 Dia 40cm concrete pipe	ml
	1/2 Dia 50cm concrete pipe	ml
23.3	**water tank**	
	Polyethylene water tank 750 lt capacity	No
	Polyethylene water tank 1000 lt capacity	No
	Polyethylene water tank 2000 lt capacity	No
	Polyethylene water tank 5000 lt capacity	No
	Fittings (out let and in let)	No
	Fiber glass water tank 750 lt	No
	Fiber glass water tank 1000 lt	No
	Fiber glass water tank 2000 lt	No
	Fiber glass water tank 5000 lt	No
23.4	**float valve**	
	1/2" float valve	no
	3/4" float valve	no
	1 1/2" float valve	no
	Gate valve	
	1/2" Gate valve	no
	3/4" Gate valve	no
	1" Gate valve (25mm)	no
	1 1/2" Gate valve	no
	2" Gate valve (50mm)	no
23.5.1	**Reducer**	
	11/2"-1"	no
	11/2"-3/4"	no
	2"-3/4"	no
	2"-1 1/2"	no
	2 1/2"-1/2"	no
23.5.2	**Union**	
	1"	no
	1 1/2"	no
	2"	no
	3/4"	no
23.5.3	**Elbo**	
	1/2"	no
	1"	no
	1 1/2"	no
	2"	no
	3/4"	no
23.5.4	**Tee**	
	3/4"	no
	1/2"	no
	1"	no
	1 1/2"	no

	2"	no
	2 1/2"	no
23.6	Vent cap	
	Diameter 50 mm Vent cap	no
23.7	PVC Pipe	
	50 mm. dia. PVC Pipe	ml
	75 mm. dia. PVC Pipe	ml
	110 mm. Dia. PVC Pipe	ml
	125 mm. Dia. PVC Pipe	ml
	160mm. Dia. PVC Pipe	ml
	200mm. Dia. PVC Pipe	ml
23.8	HDPE pipe	
	Diameter 25mm HDPE pipes	ml
	Diameter 32mm HDPE pipes	ml
	Diameter 40mm HDPE pipes	ml
	Diameter 50mm HDPE pipes	ml
	Diameter 63mm HDPE pipes	ml
	Diameter 75mm HDPE pipes	ml
	Diameter 90mm HDPE pipes	ml
	Diameter 25mm HDPE connecting piece	pcs
	Diameter 32mm HDPE connecting piece	pcs
23.9	PP-R pipe	
	Diameter 25mm	pcs
	Diameter 32mm	pcs
	Diameter 40mm	pcs
	Diameter 50mm	pcs
	Diameter 63mm	pcs
	Diameter 75mm	pcs
	Diameter 90mm	pcs
	Diameter 25mm PP-R connecting piece	pcs
	Diameter 32mm PP-R connecting piece	pcs

Telegram @etconp

DIS ABABA

As of October , 2022

Selling price before VAT	Source of Material
375	
857.142857142857	
400	
1250.00	
12.50	
1806.45	
1250.00	
920	
1120.00	
1910.00	
785.71	
892.86	
428.57	
35.00	
1000	
375	
4.76190476190476	
8.33333333333333	
7.5	
8.89	
246.085011185682	
15.22	
35.5072463768116	
60.8695652173913	
86.9565217391304	
65.00	

50.00	
250.00	
205.00	
205.00	
126.50	
107.00	
107.00	
107.00	
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107.00	
107.00	
107.00	
107.00	
107.00	
158.50	
92.00	
1500.00	
26	
26	
28.696	
29.565	
27.826	
1000	
	112/pcs
	160/pcs
	215/pc
797.10	250/pcs
840.00	
280.00	
5.00	
136.35	

15.00	
2019.17	
30	
	75
	185/pcs
	275
289.130434782609	345/pcs
289.130434782609	
289.130434782609	
289.130434782609	310/pcs
289.130434782609	
289.130434782609	
84.875	185
80	
90	
400	
80	
0	850/pkt
3	
66.6666666666667	400/pcs
1130.4347826087	2300/pcs
1304.34782608696	3000/pcs
1739.13043478261	4000/pc
5400	
6428.57142857143	
140	
413.04347826087	
1391.30434782609	
11800	
12400	
13700	
7980	
25	
276.086956521739	
276.086956521739	
	122.15
224.64	261.44
	191.35
	247.20
	298.82
	260.55

0.84

	339.98
	415.185
	481.27
	625.67
	335.75
	431.21
	629.90
	764.07
	523.99
	764.07
	1045.08
	1201.05
	709.55
	877.32
452.347826086957	
650	
750	
750	
700	
650	
570	
1820	
150	
2000	
6555	
6050	
80	
5300	
6050	
150	
2950	
500	
20	
500	
440	
1700	
60	
150	
0.5	
5.5	
930	

8.33	
250	
90	
60	
12	
275	
215	
190	
17.5	
0.50	
0.40	
11.00	
25.00	
975.05	
275	
477	
841	
520	
445.28	
2213	
187	
932	
170	
10	
70	

1500	
1800	
35	
188.57	
5500.00	
276.086956521739	
10	
150	
103.5	
1879	
1879	
345	
402.5	
289.74	150/pcs
213.04347826087	
16000	
1600	
54.7826086956522	
45.6521739130435	
106.521739130435	
33.3333333333333	
53.3333333333333	
292.173913043478	
608.695652173913	
695.652173913044	
250	
750.00	
3913.04	
2650	
38500.00	

65000.00	
1200.00	
450.00	
466.67	
927.00	
35.00	
280	
44647.827	
73,454.35	
108.695652173913	
246.376811594203	
565.217391304348	
75	
121.159420289855	
133.913043478261	
121.159420289855	
153.04347826087	
12500	
8500	
28500	
750	
650	
19000	
850	
65	
180	
24	
85	
2000	
2500	
1200	
1550	
17000	
22000	
39000	
45000	

10500	
450	
250	
2550	
2750	
3000	
120	
65	
150	
80	
130	
290	
466	
520	
1100	
5925	
935	
950	
489.6	
595.2	
1440	
2172	
470	
540	
540	
660	
530	
650	

1500	
2000	
550	
700	
45	
2200	
1300	
3000	
350	
2500	
750	
20	
35	
70	
105	
15	
410	
410	
10	
75000	
58000	
22000	
20000	
3500	
2100	
1950	
320	
28	
35	
110	
410	
40	
91	
399	
26	
30	
45	

84	
188	
253	
110	
145	
250	
330	
85	
300	
270	
640	
690	
16	
31	
42	
550	
660	
4215	
12760	
3210	
900	
350	
450	
850	
800	
138	
245	
68	
55	
30	
60	
15	
40	

60	
42	
70	
105	
6270	
2985	
12	
15	
78	
90	
102	
120	
135	
150	
155	
19	
12	
14.5	
18.00	
11.00	
13.00	
16.00	
110	
51.75	
2.44	
474.32	
200.00	
33.33	200/pc
50.00	300/pc
60.00	360/pc
116.67	700/pc
150.00	900/pc
258.33	1550/pc
55	
80	
100	
120	

194	
294	
314	
65	
80	
105	
2210	
3250	
5590	
6500	
9	
2800	
3250	
7250	
8450	
33	
85	
330	
80	
90	
160	
310	
450	
35	
33	
42	
16	
62	
37.23	
69.67	
112.91	
22.59	
9.30	
15.93	
46.50	
57.18	
5.77	
11.29	
9.30	
17.85	
39.10	

60.55	
71.60	
15.5	93/pc
28.78	172.67/pc
47.5	285/pc
52	312/pc
91.3	551/pc
120.18	721.05/pc
14.00	
28.00	
28.00	
49.00	
85.00	
115.00	
40.00	
65.00	
14.15	85/pc
20.00	120/pc
33.33	200/pc
58.33	350/pc
91.66	550/pc
125.00	750/pc
141.67	850/pc

Item No.	Description of Labour
1	FORMAN (Mason or Carpenter)
2	MASON
3	CARPENTER
	CARPENTER
4	PLASTERER
5	TILER
6	CHISELER
7	BAR BENDER II
8	ASS BAR BEN
9	GLAZER
10	PAINTER
11	GANG CHIEF
12	DAILY LOUBARER I
13	DAILY LOUBARER II (conc.)
14	TIME KEEPER
15	ELECTRICIAN
16	ELEC.HEL
17	PLUMBER
18	GREASE BOY
19	VIBRATOR OPERATOR
20	MIXER OPERATOR
21	WELDER
22	TRUCK DRIVER
23	EQUPMENT OPERATER III
24	LOADER OPERATER II
25	NON -rental Tools(shovel,sledge hammer..)
26	Bar cutting machine

Equipment

No	Type
1	**Mixer**
2	**Vibrator**
3	**Welding machine**

4	**Grinder**
5	**Drill**
6	**Excavator wheel type**
7	**Loader**
8	**Plate Compactor**
9	**Roller Compactor**
10	**Sledge Hammer**
11	**Dump truck with fuel 7m³**
12	**Dump truck with fuel 9m³**
13	**Dump truck with fuel 16m³**
14	**Scaffolding**
15	**burner**

Daily Rate	Hourly Rate	Index Factor	Indexed Rate
680.77	85.10	100%	85.10
600.00	75.00	100%	75.00
550.00	68.75	100%	68.75
650.00	81.25	100%	81.25
600.00	75.00	100%	75.00
600.00	75.00	100%	75.00
400.00	50.00	100%	50.00
500.00	62.50	100%	62.50
400.00	50.00	100%	
500.00	62.50	100%	62.50
500.00	62.50	100%	62.50
403.85	50.48	100%	50.48
250.00	31.25	100%	31.25
300.00	37.50	100%	37.50
173.08	21.63	100%	21.63
480.77	60.10	100%	60.10
288.46	36.06	100%	36.06
500.00	62.50	100%	62.50
300.00	37.50	100%	37.50
300.00	37.50	100%	37.50
300.00	37.50	100%	37.50
500.00	62.50	100%	62.50
300.00	37.50	100%	37.50
576.92	72.12	100%	72.12
511.54	63.94	100%	63.94
4.17	0.52	100%	0.52
18.835616438		100%	-

Cost/hr
200.00
56.25
156.25

14	
62.50	
3000	
2500	
112.5	
750	6000

87.5

Remarks

Name	IN M	qty	kg
l	1032	172	784.53
t	162	27	142.88
z	492	82	468.04
90	678	113	180.82
oval	582	97	148.5
slide frame	1074	179	1084.85
slide shatter	1704	284	1499.35
slide cup	696	116	236.05
s.centeral joint	24	4	6.15

L angle
L angle connector
slidng connector
T connector
hinge
arm
crekto
sliding handle
sliding roller
sliding brusdh
5mm glass rubber
6 mm glass rubber
self screrew(4.8*280
screw(4.8*60)
fisher 6

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for 6m price	price for 1m
3665.00	611
4316.00	719
4575.00	763
864.11	144
826.69	138
3272.72	545
2850.88	475
1098.85	183
830.09	138

ANALYSIS SHEET FOR

PROJECT: HILL SIDE

WORK ITEM (3.2) ***C-25 concrete***

TOTAL QUANTITY OF WORK 1.00 m^3

Material Cost (1:01)						
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labour byTrade	No.
Cement	Qnt.	3.65	1250.00	4562.50	Forman	1.00
Sand	m3	0.52	1806.45	939.35	G.chief	1.00
Gravel (02)	m^3	0.78	1120.00	873.60	Carpenter	1.00
Water	m^3	1.00	60.00	60.00	Bar bender	1.00
					Daily labour	15.00
					vibrator ope	1.00
					mixure opera	1.00
					Plasterer	1.00
Total (1:-01)				6435.45		**Total**

A= Materials Unit Cost **6435.45** Birr/m3

B=Manpower Unit Cost

Total of (1:02)

Hourly Output

Direct Cost of work item = A+B+C =

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DIRECT & INDIRECT UNIT COSTS

LABOUR HOURLY OUTPUT: 1.00 m^3 / hr.

EQUIPEMENT: Mixer & Vibrator 1.00 m^3 / hr.

RESULT: **#REF!** Birr/m^3

Labour (1:02)			Equipment Cost (1:03)			
UF	** Indexed Hourly Cost	Hourly Cost	Type of Equipment	No.	Hourly Rental	Hourly Cost
0.50	#REF!	#REF!	Mixer	1.00	#REF!	#REF!
0.50	#REF!	#REF!	Vibrator	1.00	#REF!	#REF!
1.00	#REF!	#REF!	tools	17.00	#REF!	#REF!
1.00	#REF!	#REF!				
1.00	#REF!	#REF!				
1.00	#REF!	#REF!				
1.00	#REF!	#REF!				
1.00	#REF!	#REF!				0.00
(1:02)		#REF!	**Total (1:03)**			#REF!

#REF! Br./m3

#REF! Br./m3

C= Equipment Unit Cost

Total of (1:03)

Hourly output: _____

#REF! Birr/m^2

#REF! Br./m^2

PROJECT: HILL SIDE