

ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

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

LABOUR HOURLY OUTPUT: 0.89 m²/hr.

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

EQUIPEMENT: Tool

RESULT: 31.25 Birr/m²

TOTAL QANTITY OF WORK ITEM: 1 m²

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

A= Materials Unit Cost 0 Birr/m²

B= Manpower Unit Cost 23.9 Birr/m²

C= Equipment Unit Cost 1.12 Birr/m²

Total of (1:02) 1.44

Total of (1:03)

Hourly Output: 0.89

Hourly output: _____

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

25.00 Birr/m²

Over head cost :

10%

2.50 "

Profit Cost:

15%

3.75 "

Total Unit Cost :

31.25 Birr/m²

Remark _____

UF: UTILIZATION FACTOR

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

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

ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

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

LABOUR HOURLY OUTPUT: 0.21 m³/hr.

EQUIPEMENT: Tool

RESULT: 9.52 Birr/m³

TOTAL QANTITY OF WORK ITEM: 1 m³

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

A= Materials Unit Cost 0 Birr/m³

B= Manpower Unit Cost 107 Birr/m³

C= Equipment Unit Cost 4.76 Birr/m³

Total of (1:02)

Total of (1:03)

Hourly Output:

Hourly output: _____

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

111.90 Birr/m³

Over head cost :

10%

11.19 "

Profit Cost:

15%

16.79 "

Total Unit Cost :

139.88 Birr/m³

Remark _____

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ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT: G+1 MULTI PURPOSE EXCAVATION AND EARTH WORK. LABOUR HOURLY OUTPUT: 0.08 m³/hr.
 WORK ITEM: (1.03) Excavation foundation pits to adepth of 150-300cm. EQUIPEMENT: Tool
 RESULT: 347.66 Birr/m³

TOTAL QANTITY OF WORK ITEM: 1 m³

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

A= Materials Unit Cost 0 Birr/m³ B= Manpower Unit Cost 266 Birr/m³ C= Equipment Unit Cost 12.50 Birr/m³
Total of (1:02) Total of (1:03)
 Hourly Output: Hourly output: _____
 Direct Cost of Work Item = A+B+C = 278.13 Birr/m³
 Over head cost : 10% 27.81 "
 Profit Cost: 15% 41.72 "
 Total Unit Cost : 347.66 Birr/m³

Remark _____

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ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

PROJECT: G+1 MULTI PURPOSE EXCAVATION AND EARTH WORK. LABOUR HOURLY OUTPUT: 0.15 m³/hr.
 WORK ITEM: (1.04) Back fill excavated materials from the site. EQUIPEMENT: Tool
 RESULT: 195.73 Birr/m³

TOTAL QANTITY OF WORK ITEM: 1 m³

Material Cost (1:01)					Labour Cost (1:02)					Equipment Cost (1:03)			
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labour by Grade	No.	UF	** Indexed Hourly Cost	Hourly Cost	Type of Equipment	No.	Hourly Rental	Hourly Cost
				0	foreman	1	0.03	37.5	1.24	tool	1	1	1
				0	DL	1	1	18.75	18.75				0
				0	G.CHIEF	1	0.1	25	2.5				0
				0					0				0
				0					0				0
				0					0				0
				0					0				0
				0					0				0
				0					0				0
Total (1:-01)				0	Total (1:02)				22.49	Total (1:03)			1

A= Materials Unit Cost 0 Birr/m³ B= Manpower Unit Cost 150 Birr/m³ C= Equipment Unit Cost 6.67 Birr/m³
Total of (1:02)
 Hourly Output: _____
 Direct Cost of Work Item = A+B+C = 156.58 Birr/m³
 Over head cost : 10% 15.66 "
 Profit Cost: 15% 23.49 "
 Total Unit Cost : 195.73 Birr/m³

Remark _____

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PROJECT: G+1 MULTI PURPOSE EXCAVATION AND EARTH WORK. LABOUR HOURLY OUTPUT: **24 m³/hr.**
 WORK ITEM: (1.07) Cart away surplus excavated mats. 3km. from the site. EQUIPEMENT: Tool
 RESULT: **84.90 Birr/m³**

TOTAL QANTITY OF WORK ITEM: 1 m³

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

A= Materials Unit Cost 0 Birr/m³

B= Manpower Unit Cost 11.3 Birr/m³

C= Equipment Unit Cost 56.67 Birr/m³

Total of (1:02)

Total of (1:03)

Hourly Output:

Hourly output: _____

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

67.92 Birr/m³

Over head cost :

10%

6.79 "

Profit Cost:

15%

10.19 "

Total Unit Cost :

84.90 Birr/m³

Remark _____

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PROJECT: G+1 MULTI PURPOSE EXCAVATION AND EARTH WORK.
WORK ITEM: (1.08) 25cm. thick basaltic hard core.

LABOUR HOURLY OUTPUT: 2 m²/hr.
EQUIPEMENT: Tool
RESULT: 135.77 Birr/m²

TOTAL QANTITY OF WORK ITEM: 1 m²

Material Cost (1:01)					Labour Cost (1:02)					Equipment Cost (1:03)			
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labour by Grade	No.	UF	** Indexed Hourly Cost	Hourly Cost	Type of Equipment	No.	Hourly Rental	Hourly Cost
basaltic stone	m ²	0.28	150	42	foreman	1	0.25	37.5	9.38	tools	3	1	3
				0	mason	1	1	37.5	37.50				
				0	DL	4	1	18.75	75				0
				0					0				0
				0					0				0
				0					0				0
				0					0				0
				0					0				0
				0					0				0
				0					0				0
Total (1:-01)				42	Total (1:02)				121.875	Total (1:03)			3

A= Materials Unit Cost 42 Birr/m²

B= Manpower Unit Cost 60.9 Birr/m²

C= Equipment Unit Cost 1.50 Birr/m²

Total of (1:02)

Total of (1:03)

Hourly Output:

Hourly output: _____

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

104.44 Birr/m²

Over head cost :

15%

15.67 "

Profit Cost:

15%

15.67 "

Total Unit Cost :

135.77 Birr/m²

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