ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

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

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

LABOUR HOURLY OUTPUT: 6.25 m^2/hr.

EQUIPEMENT:

RESULT: 15.60 Birr/m^2

TOTAL QUANTITY OF WORK ITEM 1 m^2

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

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

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

Total of (1:02) 5.65

Hourly Output 6.25

C=Equipment Unit Cos 0 Br./m^2

Total of (1:03)

Hourly output: _____

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

Overhead Cost: 15% 1.80 " 16.8

Profit Cost: 15% 1.80 "

Total Unit Cost : 15.60 Birr/m^2

Remark _____

UF: UTILIZATION FACTOR

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

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

ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

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

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

TOTAL QUANTITY OF WORK ITEM: 1 m^3

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

EQUIPEMENT: Mixer & Vibrator

RESULT: 3112.12 Birr/m^3

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

A= Materi 2145.25 Birr/m^3

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

Total of (1:02) 43.75

Hourly Output 0.75

C= Equipment Unit Co 77.78 Br./m^3

Total of (1:03) 46.85

Hourly output: 0.75

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

Overhead Cost: 15% 373.45 "

Profit Cost: 10% 248.97 "

Total Unit Cost : 3112.12 Birr/m^3

Remark _____

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ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

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

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

TOTAL QUANTITY OF WORK ITEM: 1 m^3

LABOUR HOURLY OUTPUT: 0.625 m^3/hr.

EQUIPEMENT:

RESULT : 3237.04 Birr/m^3

Material Cost (1:01)					Labour (1:02)					Equipment Cost (1:03)			
Type of Material	Unit	Qty *	Rate	Cost per Unit	Labour byTrade	No.	UF	** Indexed Hourly Cost	Hourly Cost	Type of Equipment	No.	Hourly Rental	Hourly Cost
Cement	Qnt.	4.1	385	1578.5	Foreman	1	0.167	37.5	6.2625				0
Sand	m3	0.53	464.00	245.92	Mason II	1	1	37.5	37.5				0
Gravel (02	m^3	0.79	500.00	395	D/L	10	1	18.75	187.5				0
Water	m^3	0.26	0.75	0.195					0				0
				0					0				0
				0					0				0
				0					0				0
Total (1:-01)				2219.615	**Total (1:02)**				231.26	**Total (1:03)**			0

A= Materia 2219.62 Birr/m^3

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

Total of (1:02) 12.08

Hourly Output 0.625

C= Equipment Unit Co 0.00 Br./m^3

Total of (1:03)

Hourly output:

Direct Cost of work item = A+B+C = 2589.64 Birr/m^3

Overhead Cost: 10% 258.96 "

Profit Cost: 15% 388.45 "

Total Unit Cost : 3237.04 Birr/m^3

Remark _____

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ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT COSTS

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

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

TOTAL QUANTITY OF WORK ITEM: 1 m^3

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

EQUIPEMENT: Mixer & Vibrator

RESULT: 3251.01 Birr/m^3

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

A= Materia 2145.25 Birr/m^3

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

Total of (1:02) 43.75

Hourly Output 0.75

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

Total of (1:03) 46.85

Hourly output: 0.75

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

Overhead Cost: 15% 390.12 "

Profit Cost: 10% 260.08 "

Total Unit Cost : 3251.01 Birr/m^3

Remark _____

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