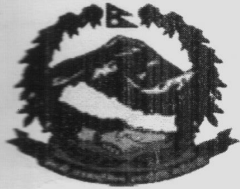
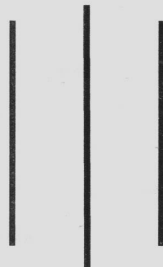


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Government of Nepal
Madhyapur Thimi Municipality
Office of Municipality
Province No.3
Bhaktapur



Analysis of Rates of Traditional Works

USER



FY 076/077

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Madhyapur Thimi Municipality
According to work norms of Department Of Archiology (DOA)
Summery Of Rate Analysis For **Traditional Works** (FY 2067-077)
FOR USER

Item No.	Item name	Unit	Rate per unit	Unit	Rate per Unit
	Earthwork				
20	Earth work in Exacavation---soft and silty clay	m3	648.90	ft3	18.39
21	Earth work in Exacavation---Hard clay with soft stone	m3	741.60	cft.	21.02
	Brickwork				
1	Traditional Brick (Small Dachhi Appa) work in (1:1:2) lime,surkhi, sand mortar	m2	6,290.32	ft2	585.07
11	Chimney Brick work in (1:1:2) lime,surkhi, sand mortar for above ground floor	m3	18,772.18	cft	531.98
25	Chimney Brick work in mud mortar for above ground floor	m3	13,483.46	cft.	382.10
26	Chimney Brick work in mud mortar for ground floor	m3	13,019.96	cft	368.97
34	Ma Appa (Traditional Local Brick--large) work in yellow mud mortar for ground floor	m3	17,503.00	cft	496.01
35	Ma Appa (Traditional Local Brick--small) work in yellow mud mortar for ground floor	m3	19,000.00	cft	538.43
36	Ma Appa (Traditional Local Brick--large) work in yellow mud mortar for above ground floor	m3	19,836.40	cft	562.14
37	Ma Appa (Traditional Local Brick--small) work in yellow mud mortar for above ground floor	m3	19,463.50	cft	551.57
40	Traditional Brick (Small Dachhi Appa) work in (1:4)cement sand mortar	m2	5,899.37	ft2	548.35
41	Traditional Brick (Dachhi Appa-large size) work in (1:1:2) lime,surkhi, sand mortar	m2	5607.26	ft2	521.20
82	Chimney Brick work in mud mortar for above ground floor (using existing bricks)	m3	3,506.09	cft	99.36
83	Chimney Brick work in mud mortar for ground floor (using existing bricks)	m3	12,519.96	cft.	354.80
77	Traditional Brick (small Dachhi Appa) work in yellow mud mortar	m2	5,255.31	ft2	488.48
78	Traditional Brick (Small Dachhi Appa) work using existing old bricks in yellow mud mortar	m2	2,086.08	ft2	193.90
79	Traditional Brick (Dachhi Appa-large size) work using existing old bricks in (1:1:2) lime,surkhi,	m2	2,763.67	ft2	256.88
	Stone Masonry				
7	Highly Dressed stone wall in lime surkhi ,sand (1:1:2) __not > 60 cm.Thick	m3	49,770.40	cft	1,410.42
8	Highly Dressed stone wall in lime surkhi ,sand (1:1:2) with old stone __not > 60 cm.Thick	m3	27,611.37	cft	782.47
46	One side Dressed (Ashlar masonry) stone wall in lime surkhi ,sand (1:1:2) __not > 45 cm.Thick	m3	32,515.40	cft	921.44
47	One side Dressed (Ashlar masonry) stone wall in cement ,sand (1:4) __not > 45 cm.Thick	m3	30,275.10	cft	857.95
51	Highly Dressed stone wall in cement sand (1:4) __both face dressed with 4"thick stone layer by layer--30 cm. thick wall	m3	97,796.14	cft	2,771.41
52	Highly Dressed stone wall in cement sand (1:4) __both face dressed with 4" to 6" thick stone layer by layer--30 cm. thick wall	m3	90,222.41	cft	2,556.78
53	Highly Dressed facing stone wall in cement sand (1:4) __with 4" to 6" thick stone	m2	12,891.51	sft	1,198.27
10	5" Peti Stone work in (1:1:1) lime, surkhi,sand mortar	r.m.	6,932.62	r.ft.	2,113.60
49	5" Peti Stone work in (1:4) cement sand mortar	r.m.	6,913.30	r.ft.	2,107.71
50	Corner Stone work (23cm.*23cm.*45cm.)	no.	9,071.04	no.	9,071.04
93	5" Nagol Stone (10" X5") work in (1:1:1) lime, surkhi,sand mortar	r.m.	5505.28	r.ft.	1,678.44

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summary sheet of user works (Traditional)

Flooringwork				
8	Old Brick soling on edge in lime, surkhi and sand (1:1:3)	m2	871.58	ft2 81.01
2	Telia Brick in Machin made 8"X8"(1:1:1) lime, surkhi, sand mortar with (1:1) lime surkhi pointing	m2	2,852.64	ft2 265.15
5	Brick soling on edge in lime, surkhi and sand (1:1:3)	m2	2,142.47	ft2 199.14
23	Chimney Brick on edge Soling	m2	1,990.31	ft2 185.00
24	Chimney Brick on flat Soling	m2	1,143.46	ft2 106.29
84	50 mm thick Flag Stone laying in (1:1:3) lime, surkhi, sand mortar.	m2	2,297.54	ft2 213.56
85	37.5 mm thick Flag Stone laying in (1:1:3) lime, surkhi, sand mortar.	m2	2,032.61	ft2 188.93
86	25 mm thick Flag Stone laying in (1:1:3) lime, surkhi, sand mortar.	m2	1,796.55	ft2 166.99
Woodwork				
9	Nepali Sal wood work for beam,joist,column etc.(8'-0" to 12'-0")	m3	357,355.02	cft 10,126.94
19	1"thick Nepali Sal wood planking works	m2	6,426.80	ft2 597.38
76	1.5" thick Eaves Board of Sal wood with three side planing	m2	10,484.40	ft2 974.53
92	2"plain shutter with Gand and khur.	m2	16,252.65	ft2 1,510.69
Carving work				
63	Window carving (except lattice jali) excluding wood	m2	46,949.15	ft2 4,363.95
64	Carved salwood Lattice (jali) of Carved Window highly carving including wood	m2	68,727.72	ft2 6,388.28
65	Carved salwood Lattice (jali) of Carved Window (second type) including wood	m2	37,084.24	ft2 3,447.00
66	Wooden Column highly carving works excluding wood	m2	50,943.40	4,735.22
67	Wooden Column carving work excluding wood	m2	38,000.00	ft2 3,532.12
68	Salwood Carved Mirap works including wood	m2	66,227.89	ft2 6,155.92
69	Beam carving works above Column excluding wood	m2	40,666.67	ft2 3,779.99
70	Carnesh carving works excluding wood	m2	41,168.83	ft2 3,826.67
71	Carved Tudal(6'x4"x6") works excluding wood	no	44,000.00	no 44,000.00
72	Carved Kunsal(6'6"x5"x8") works excluding wood	no	30,400.00	no 30,400.00
73	Carved Three Bay Window(except jali) works excluding wood	m2	45,200.75	ft2 4,201.44
74	Carved Door (except khapa) works excluding wood	m2	43,446.81	ft2 4,038.41
75	Carved Nas 3"thick works excluding wood	r.m.	3,400.00	r.ft. 1,036.59
Roofing				
3	New Jhingati (8-3/4"x4") laying on roof with 3" clay	m2	3,730.45	ft2 346.75
4	Old Jhingati (8-3/4"x4") laying on roof with 3" clay	m2	2,860.71	ft2 265.90
80	Old Jhingati (8-3/4"x4") laying (using existing jhingati) on roof with 3" clay	m2	1,104.15	ft2 102.63
15	Jhingati Nailing	r.m.	104.79	r.ft. 31.95
16	Dhuri Chang (horizontal and vertical)works	r.m.	2,065.20	r.ft. 629.63
17	Dhuri Chang (horizontal and vertical) large sized works	r.m.	5,106.08	r.ft. 1,556.73
81	Dhuri Chang (horizontal and vertical) small sized using existing	r.m.	185.32	r.ft. 56.50
14	Middle class Gongacha (Corner bird) fixing works	no.	311.88	no. 311.88
54	20 gauge Brass plate making and fixing on roof.	m2	22,081.67	ft2 2,052.51
56	20 gauge Copper plate making and fixing on roof.	m2	24,536.60	ft2 2,280.69
58	22 gauge Copper plate making and fixing on roof.(Indian)	m2	21,812.05	ft2 2,027.44
59	26 gauge Copper plate making and fixing on roof.(Indian)	m2	19,804.49	ft2 1,840.84
60	22 gauge Brass plate making and fixing on roof.	m2	19,861.67	ft2 1,846.15
61	26 gauge Brass plate making and fixing on roof.	m2	182,258.84	ft2 16,941.07
55	Making and fixing of Bhairab of 20 gauge Brass plate	no	2,261.87	no 2,261.87
57	Making and fixing of Bhairab of 20 gauge Copper plate	no	2,287.30	no 2,287.30
62	Gold gilding work (new coat) 1/4 tola per sq.ft	m2	246,871.15	ft2 22,946.83

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summary sheet of user works (Traditional)

Scaffolding					
12	Double bamboo Scaffolding works	m2	819.89	ft2	76.21
13	Single bamboo Scaffolding works	m2	422.58	ft2	39.28
Concrete					
22	Lime Concrete in Foundation and wall in (1:2:4) lime, sand and brick ballast.	m3	14,804.88	cft.	419.55
87	Lime Concrete in Foundation and wall in (1:2:4) lime, sand and aggregate.	m3	14631.62	cft.	414.64
Dismantling					
27	Dismantling Chimney Brick work in mud mortar and throwing 10 metre away.	m3	954.00	cft	27.04
28	Dismantling Chimney Brick work in cement mortar and throwing 10 metre away.	m3	1,908.00	cft	54.07
29	Dismantling R.C.C. or R.B.C work and throwing 10 metre away.	m3	9,900.00	cft	280.55
30	Dismantling Plain cement or lime concrete and throwing 10 metre away.	m3	3,600.00	cft	102.02
31	Dismantling Cement or Lime Plaster and throwing 10 metre away.	m2	99.00	ft2	9.20
32	Dismantling Jhingati roofing and throwing 10 metre away.	m2	164.70	ft2	15.31
33	Dismantling Tile roofing and throwing 10 metre away.	m2	137.70	ft2	12.80
42	Disposing waste materials by Tractor (small) including labour	no	5607.26	no	0.00
Water proofing					
38	Two layers of plastic felt laying on roofing with bitumen.	m2	1,566.86	ft2	145.64
39	Single layers of plastic felt laying on roofing with bitumen	m2	1,013.06	ft2	94.16
Miscellaneous					
43	Iron belt for Eaves Board	no	200.39	no	200.39
44	Wind Bell 4"	no	547.40	no	547.40
45	Terracota Carnesh of Two layers over wooden carnesh	r.m.	944.35	r.ft.	295.11
48	Lhakayan works	set	6,316.65	set	6,316.65

summary sheet of user works (Traditional)

Pointing					
88	Flush pointing in (1:1:3) lime, surkhi, sand on Brick wall.	m2	253.10	ft2	23.53
89	Flush pointing in (1:1:3) lime, surkhi, sand on dressed stone/Boulder stone wall	m2	296.19	ft2	27.53
90	Ruled pointing in (1:1:3) lime, surkhi, sand on Brick wall.	m2	298.10	ft2	27.71
91	Ruled pointing in (1:1:3) lime, surkhi, sand on dressed stone/Boulder stone wa	m2	341.1921	ft2	31.71
94	Traditional Kassimo Brick work in (1:1:3) lime,surkhi, sand mortar	rm	456.38	ft	139.14
95	5" Peti Stone work in (1:1:1) lime, surkhi,sand mortar using existing stone	rm	2,672.75	ft	814.86
96	Chimney Brick on flat Soling using existing brick	m2	454.74	ft2	42.27
97	Single Scaffolding using existing Bamboo	m2	348.74	ft2	32.42
98	Sal Wood shoring using existing wood	m3	17,765.60	ft3	503.45
99	Ma appa Brick(large) work in (1:1:2) lime,surkhi, sand mortar for ground floor	m3	54,278.02	ft3	1,538.16
100	Ma appa Brick(large) work in (1:1:2) lime,surkhi, sand mortar for above ground	m3	55,758.02	ft3	1,580.10
101	Ma appa Brick(small) work in (1:1:2) lime,surkhi, sand mortar for ground floor	m3	22,514.78	ft3	638.04
102	Ma appa Brick(small) work in (1:1:2) lime,surkhi, sand mortar for above ground	m3	22,616.18	ft3	640.91
103	Snake Carnesh Brick Work	m	667.05	ft	203.37
104	Black saddle Base stone (30"x30"x14" size) for wooden column.	no.	30,899.00	no.	30,899.00
105	Sal Wood shoring work	m3	45,671.55	ft3	1,294.27
106	Existing Ma appa Brick(large) work in (1:1:2) lime,surkhi, sand mortar for above	m3	8,830.18	ft3	250.23
107	Existing Ma appa Brick(small) work in (1:1:2) lime,surkhi, sand mortar for grou	m3	6,859.87	ft3	194.40
108	Sal Timber work for beam,joist,column etc.(12'-0" above)	m3	399,938.51	ft3	11,333.70
109	Sal Timber work for beam,joist,column etc.(up to 8'-0")	m3	337,086.64	ft3	9,552.57
110	Chimney Brick work in (1:1:2) lime,surkhi, sand mortar for ground floor	m3	18,322.18	ft3	519.23
111	Telia Brick (Machin made) 6"x6" in (1:1:1) lime, surkhi,sand mortar with (1:1) lime	m2	3,051.86	ft2	283.67
Extra works					
112	12.5 mm thick lime, surkhi plaster in 1:2 ratio	m2	687.65	ft2	63.92
113	20 mm thick lime, surkhi plaster in 1:2 ratio	m2	919.68	ft2	85.48
114	0.50 mm 24 gauge(midium) colour plain sheet roofing works	m2	3,157.24	ft2	293.47
115	0.50 mm 24 gauge(midium) colour plain sheet ridge roofing works	rm	610.00	ft	185.98
116	Stone work in foundation in lime surkhi sand 1:1:2 ratio	m3	13,592.51	ft3	385.19
117	Stone work in foundation in lime stone dust 1:4 ratio	m3	13,016.17	ft3	368.86
118	Highly Dressed facing stone wall in lime stone dust (1:4) with 4" to 6" thick s	m3	13,022.44	ft3	369.04
119	Traditional Nago Brick work in (1:1:3) lime,surkhi, sand mortar	rm	541.59	ft	165.12

Sumit Singh Jantani