OK

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

Analysis of Rates of Traditional Works

CONTRACT

FY 076/077

Madhyapur Thimi Municipality

According to work norms of Department Of Archiology (DOA)

Summery Of Rate Analysis For **Traditional Works** (FY 2067-077)

FOR CONTRACTOR

Item No.	Item name	Unit	Rate per unit	Unit	Rate per Unit
	Earthwork				
20	Earth work in Exacavation---soft and silty clay	m3	746.24	ft3	21.15
21	Earth work in Exacavation---Hard clay with soft stone	m3	852.84	cft.	24.17
	Brickwork				
1	Traditional Brick (Small Dachi Appa) work in (1:1:2) lime,surkhi, sand mortar	m2	6,294.37	ft2	585.07
11	Chimney Brick work in (1:1:2) lime,surkhi, sand mortar for above ground floor	m3	19,787.10	cft	560.74
25	Chimney Brick work in mud mortar for above ground floor	m3	14,250.18	cft.	403.83
26	Chimney Brick work in mud mortar for ground floor	m3	13,717.15	cft	388.72
34	Ma Appa (Traditional Local Brick--large) work in yellow mud mortar for ground floor	m3	18,319.50	cft	519.15
35	Ma Appa (Traditional Local Brick--small) work in yellow mud mortar for ground floor	m3	19,843.71	cft	562.34
36	Ma Appa (Traditional Local Brick--large) work in yellow mud mortar for above ground floor	m3	20,756.24	cft	588.20
37	Ma Appa (Traditional Local Brick--small) work in yellow mud mortar for above ground floor	m3	20,376.74	cft	577.45
40	Traditional Brick (Small Dachi Appa) work in (1:4)cement sand mortar	m2	6,271.69	ft2	582.96
41	Traditional Brick (Dachi Appa-large size) work in (1:1:2) lime,surkhi, sand mortar	m2	5,900.43	ft2	548.45
82	Chimney Brick work in mud mortar for above ground floor (using existing bricks)	m3	55,863.36	cft	1,583.09
83	Chimney Brick work in mud mortar for ground floor (using existing bricks)	m3	13,142.15	cft.	372.43
77	Traditional Brick (small Dachi Appa) work in yellow mud mortar	m2	5,616.23	ft2	522.03
78	Traditional Brick (Small Dachi Appa) work using existing old bricks in yellow mud mortar	m2	2,398.99	ft2	222.99
79	Traditional Brick (Dachi Appa-large size) work using existing old bricks in (1:1:2) lime,surkhi,	m2	3,080.49	ft2	286.33

Item No.	Item name	Unit	Rate per unit	Unit	Rate per Unit
	Stone Masonry				
7	Highly Dressed stone wall in lime surkhi ,sand (1:1:2)__not > 60 cm.Thick	m3	55,861.04	cft	1,583.02
8	Highly Dressed stone wall in lime surkhi ,sand (1:1:2) with old stone__not > 60 cm.Thick	m3	31,052.23	cft	879.98
46	One side Dressed (Ashlar masonry) stone wall in lime surkhi ,sand (1:1:2)__not > 45 cm.Thick	m3	36,166.90	cft	1,024.92
47	One side Dressed (Ashlar masonry) stone wall in cement ,sand (1:4)__not > 45 cm.Thick	m3	33,886.95	cft	960.31
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	111,632.57	cft	3,163.51
52	Highly Dressed stone wall in cement sand (1:4)__both face dressed with 4" to to 6" thick				
	stone layer by layer--30 cm. thick wall	m3	102,892.85	cft	2,915.84
53	Highly Dressed facing stone wall in cement sand (1:4)__with 4" to to 6" thick stone	m2	14,701.62	sft	1,366.52
10	5" Peti Stone work in (1:1:1) lime, surkhi,sand mortar	r.m.	7,416.43	r.ft.	2,261.11
49	5" Peti Stone work in (1:4) cement sand mortar	r.m.	7,396.78	r.ft.	2,255.12
50	Corner Stone work (23cm.*23cm.*45cm.)	no.	10,144.47	no.	10,144.47
93	5" Nagol Stone (10" X5") work in (1:1:1) lime, surkhi,sand mortar	r.m.	5,783.33	r.ft.	1,763.21
	Flooringwork				
6	Old Brick soling on edge in lime, surkhi and sand (1:1:3)	m2	933.18	ft2	86.74
2	Telia Brick in Machin made 8"X8"(1:1:1) lime, surkhi,sand mortar with (1:1) lime surkhi pointing	m2	3,057.92	ft2	284.24
5	Brick soling on edge in lime, surkhi and sand (1:1:3)	m2	2,226.57	ft2	206.96
23	Chimney Brick on edge Soling	m2	2,086.72	ft2	193.96
24	Chimney Brick on flat Soling	m2	1,186.85	ft2	110.32
84	50 mm thick Flag Stone laying in (1:1:3) lime, surkhi, sand mortar.	m2	2,381.29	ft2	221.34
85	37.5 mm thick Flag Stone laying in (1:1:3) lime, surkhi, sand mortar.	m2	2,153.92	ft2	200.21
86	25 mm thick Flag Stone laying in (1:1:3) lime, surkhi, sand mortar.	m2	15,479.32	ft2	1,438.81

Item No.	Item name	Unit	Rate per unit	Unit	Rate per Unit
	Woodwork				
9	Nepali Sal wood work for beam,joist,column etc.(8'-0" to 12'-0")	m3	366,601.32	cft	10,388.97
19	1"thick Nepali Sal wood planking works	m2	6,574.41	ft2	611.10
76	1.5" thick Eaves Board of Sal wood with three side plaining	m2	10,694.33	ft2	994.04
92	2"plain shutter with Gand and khur.	m2	16,611.75	ft2	1,544.07
	Carving work				
63	Window carving (except lattice jali) excluding wood	m2	53,991.53	ft2	5,018.55
64	Carved salwood Lattice (jali) of Carved Window highly carving including wood	m2	77,062.50	ft2	7,163.01
65	Carved salwood Lattice (jali) of Carved Window (second type) including wood	m2	41,062.50	ft2	3,816.79
66	Wooden Column highly carving works excluding wood	m2	58,584.91	ft2	5,445.50
67	Wooden Column carving work excluding wood	m2	43,700.00	ft2	4,061.94
68	Salwood Carved Mirap works including wood	m2	73,684.36	ft2	6,849.01
69	Beam carving works above Column excluding wood	m2	46,766.67	ft2	4,346.99
70	Carnesh carving works excluding wood	m2	47,344.16	ft2	4,400.67
71	Carved Tudal(6'x4"x6") works excluding wood	no	51,735.20	no	51,735.20
72	Carved Kunsal(6'6"x5"x8") works excluding wood	no	34,960.00	no	34,960.00
73	Carved Three Bay Window(except jali) works excluding wood	m2	51,980.86	ft2	4,831.65
74	Carved Door (except khapa) works excluding wood	m2	49,963.83	ft2	4,644.17
75	Carved Nas 3"thick works excluding wood	r.m.	3,910.00	r.ft.	1,192.07
	Roofing				
3	New Jhingati (8-3/4"*4") laying on roof with 3" clay	m2	3,942.56	ft2	366.46
4	Old Jhingati (8-3/4"*4") laying on roof with 3" clay	m2	3,058.17	ft2	284.26
80	Old Jhingati (8-3/4"*4") laying (using existing jhingati)on roof with 3" clay	m2	1,269.77	ft2	118.03
15	Jhingati Nailing	r.m.	104.79	r.ft.	31.95
16	Dhuri Chang (horizontal and vertical)works	r.m.	2,129.80	r.ft.	649.33
17	Dhuri Chang (horizontal and vertical)__large sized works	r.m.	5,224.50	r.ft.	1,592.84
81	Dhuri Chang (horizontal and vertical)__small sized using existing	r.m.	188.60	r.ft.	57.50
14	Middle class Gongacha (Corner bird) fixing works	no.	317.40	no.	317.40
54	20 gauge Brass plate making and fixing on roof.	m2	23,964.85	ft2	2,227.55
56	20 gauge Copper plate making and fixing on roof.	m2	26,463.23	ft2	2,459.77
58	22 gauge Copper plate making and fixing on roof.(Indian)	m2	23,690.46	ft2	2,202.04
59	26 gauge Copper plate making and fixing on roof.(Indian)	m2	21,647.37	ft2	2,012.14
60	22 gauge Brass plate making and fixing on roof.	m2	21,705.56	ft2	2,017.55
61	26 gauge Brass plate making and fixing on roof.	m2	200,408.20	ft2	18,628.07
55	Making and fixing of Bhairab of 20 gauge Brass plate	no	2,586.35	no	2,586.35
57	Making and fixing of Bhairab of 20 gauge Copper plate	no	2,612.23	no	2,612.23
62	Gold gilding work (new coat) 1/4 tola per sq.ft	m2	256,089.38	ft2	23,803.67
	Scaffolding				

Item No.	Item name	Unit	Rate per unit	Unit	Rate per Unit
12	Double bamboo Scaffolding works	m2	909.72	ft2	84.56
13	Single bamboo Scaffolding works	m2	467.72	ft2	43.47
	Concrete				
22	Lime Concrete in Foundation and wall in (1:2:4) lime, sand and brick ballast.	m3	15,655.65	cft.	443.66
87	Lime Concrete in Foundation and wall in (1:2:4) lime, sand and aggregate.	m3	15,479.32	cft.	438.66
	Dismantling				
27	Dismantling Chimney Brick work in mud mortar and throwing 10 metre away.	m3	1,097.10	cft	31.09
28	Dismantling Chimney Brick work in cemnt mortar and throwing 10 metre away.	m3	2,194.20	cft	62.18
29	Dismantling R.C.C. or R.B.C work and throwing 10 metre away.	m3	11,385.00	cft	322.64
30	Dismantling Plain cement or lime concrete and throwing 10 metre away.	m3	4,140.00	cft	117.32
31	Dismantling Cement or Lime Plaster and throwing 10 metre away.	m2	113.85	ft2	10.58
32	Dismantling Jhingati roofing and throwing 10 metre away.	m2	189.41	ft2	17.61
33	Dismantling Tile roofing and throwing 10 metre away.	m2	158.36	ft2	14.72
42	Disposing waste materials by Tractor (small) including labour	no	5,900.43	no	0.00
	Water proofing				
38	Two layers of plastic felt laying on roofing with bitumen.	m2	1,685.88	ft2	156.70
39	Single layers of plastic felt laying on roofing with bitumen	m2	1,090.13	ft2	101.33
	Miscellaneous				
43	Iron belt for Eaves Board	no	210.68	no	210.68
44	Wind Bell 4"	no	547.40	no	547.40
45	Terracota Carnesh of Two layers over wooden carnesh	r.m.	1,012.00	r.ft.	316.25
48	Lhakayan works	set	6,433.68	set	6,433.68

Item No.	Item name	Unit	Rate per unit	Unit	Rate per Unit
	Pointing				
88	Flush pointing in (1:1:3) lime, surkhi, sand on Brick wall.	m2	285.36	ft2	26.52
89	Flush pointing in (1:1:3) lime, surkhi, sand on dressed stone/Boulder stone wall.	m2	329.22	ft2	30.60
90	Rulled pointing in (1:1:3) lime, surkhi, sand on Brick wall.	m2	337.11	ft2	31.33
91	Rulled pointing in (1:1:3) lime, surkhi, sand on dressed stone/Boulder stone wall.	m2	380.97	ft2	35.41
94	Traditional Kassimo Brick work in (1:1:3) lime,surkhi, sand mortar	rm	493.77	ft	150.54
95	5" Peti Stone work in (1:1:1) lime, surkhi,sand mortar using existing stone	rm	2,906.87	ft	886.24
96	Chimney Brick on flat Soling using existing brick	m2	454.74	ft2	42.27
97	Single Scaffolding using existing Bamboo	m2	392.57	ft2	36.49
98	Sal Wood shoring using existing wood	m3	20,263.00	ft3	574.23
99	Ma appa Brick(large) work in (1:1:2) lime,surkhi, sand mortar for ground floor	m3	55,666.03	ft3	1,577.50
100	Ma appa Brick(large) work in (1:1:2) lime,surkhi, sand mortar for above ground floor	m3	57,368.03	ft3	1,625.73
101	Ma appa Brick(small) work in (1:1:2) lime,surkhi, sand mortar for ground floor	m3	23,340.60	ft3	661.44
102	Ma appa Brick(small) work in (1:1:2) lime,surkhi, sand mortar for above ground floor	m3	23,639.60	ft3	669.91
103	Snake Carnesh Brick Work	m	729.79	ft	222.50
104	Black saddle Base stone (30"x30"x14" size) for wooden column.	no.	31,796.35	no.	31,796.35
105	Sal Wood shoring work	m3	47,075.25	ft3	1,334.05
106	Existing Ma appa Brick(large) work in (1:1:2) lime,surkhi, sand mortar for above ground floor	m3	9,609.60	ft3	272.32
107	Existing Ma appa Brick(small) work in (1:1:2) lime,surkhi, sand mortar for ground floor	m3	7,888.85	ft3	223.56
108	Sal Timber work for beam,joist,column etc.(12'-0" above)	m3	410,028.76	ft3	11,619.64
109	Sal Timber work for beam,joist,column etc.(up to 8'-0")	m3	346,064.47	ft3	9,806.98
110	Chimney Brick work in (1:1:2) lime,surkhi, sand mortar for ground floor	m3	19,269.60	ft3	546.07
111	Telia Brick (Machin made) 6"x6"in (1:1:1) lime, surkhi,sand mortar with (1:1) lime surkhi pointing	m2	3,260.66	ft2	303.08
	Extra works				
112	12.5 mm thick lime, surkhi plaster in 1:2 ratio	m2	972.87	ft2	90.43
113	20 mm thick lime, surkhi plaster in 1:2 ratio	m2	990.07	ft2	92.03
114	0.50 mm 24 gauge(midium) colour plain sheet roofing works	m2	3,318.41	ft2	308.45
115	0.50 mm 24 gauge(midium) colour plain sheet ridge roofing works	rm	701.50	ft	213.87
116	Stone work in foundation in lime surkhi sand 1:1:2 ratio	m3	14,666.58	ft3	415.63
117	Stone work in foundation in lime stone dust 1:4 ratio	m3	14,080.04	ft3	399.01
118	Highly Dressed facing stone wall in lime stone dust (1:4)__with 4" to to 6" thick stone	m3	14,858.49	ft3	421.07
119	Traditional Nago Brick work in (1:1:3) lime,surkhi, sand mortar	rm	580.48	ft	176.98