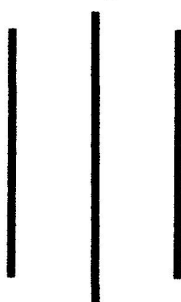


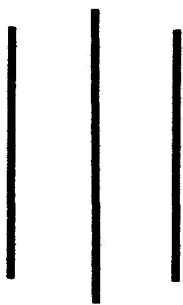


**Government of Nepal
Madhyapur Thimi Municipality
Office of Municipality
Bagmati Province
Bhaktapur**



Analysis of Rates of Traditional Works

CONTRACT



FY 079/080

Madhyapur Thami Municipality

According to work norms of Department Of Archiology (DOA)
Summary of Rate Analysis For Traditional Works FY: 079/80

For Contract Works

S.N.	Item No.	Item name	Unit	Rate with Overhead	Unit	Rate per Unit
A		Earthwork				
1	20	Earth work in Exacavation---soft and silty clay	m3	746.23	ft3	21.15
2	21	Earth work in Exacavation---Hard clay with soft stone	m3	852.84	cft.	24.17
B		Brickwork				
1	1	Traditional Brick (Small Dachi Appa) work in (1:1:2) lime,surkhi, sand mortar	m2	6,930.63	ft2	644.21
2	11	Chimney Brick work in (1:1:2) lime,surkhi, sand mortar for above ground floor	m3	19,078.18	cft	540.65
3	25	Chimney Brick work in mud mortar for above ground floor	m3	13,365.73	cft.	378.77
4	26	Chimney Brick work in mud mortar for ground floor	m3	12,832.71	cft	363.66
5	34	Ma Appa (Traditional Local Brick--large) work in yellow mud mortar for ground floor	m3	19,666.15	cft	557.31
6	35	Ma Appa (Traditional Local Brick--small) work in yellow mud mortar for ground floor	m3	19,994.36	cft	566.61
7	36	Ma Appa (Traditional Local Brick--large) work in yellow mud mortar for above ground floor	m3	20,205.38	cft	572.59
8	37	Ma Appa (Traditional Local Brick--small) work in yellow mud mortar for above ground floor	m3	20,527.38	cft	581.72
9	40	Traditional Brick (Small Dachi Appa) work in (1:4)cement sand mortar	m2	6,416.64	ft2	596.43
10	41	Traditional Brick (Dachi Appa-large size) work in (1:1:2) lime,surkhi, sand mortar	m2	7,505.02	ft2	697.60
11	82	Chimney Brick work in mud mortar for above ground floor (using existing bricks)	m3	4,027.73	cft	114.14
12	83	Chimney Brick work in mud mortar for ground floor (using existing bricks)	m3	3,494.71	cft.	99.04
13	77	Traditional Brick (small Dachi Appa) work in yellow mud mortar	m2	7,771.79	ft2	722.39
14	78	Traditional Brick (Small Dachi Appa) work using existing old bricks in yellow mud mortar	m2	2,203.49	ft2	204.82
15	79	Traditional Brick (Dachi Appa-large size) work using existing old bricks in (1:1:2) lime,surkhi,	m2	2,970.26	ft2	276.09
16	94	Traditional Kassimo Brick work in (1:1:3) lime,surkhi, sand mortar	rm	456.52	ft	139.18
17	119	Traditional Nago Brick work in (1:1:3) lime,surkhi, sand mortar	rm	607.17	ft	185.11
18	96	Chimney Brick on flat Soling using existing brick	m2	454.74	ft2	42.27

Signature

सत्य नारायण साहू
निदेशक, महाशाखा प्रमुख
शहरी विकास तथा योजना महाशाखा

Signature
विजयराज सुवेदी
प्रमुख प्रशासकीय अधिकृत

Madhyapur Thari Municipality

According to work norms of Department Of Archiology (DOA)
Summary of Rate Analysis For Traditional Works FY: 079/80

For Contract Works

S.N.	Item No.	Item name	Unit	Rate with Overhead	Unit	Rate per Unit
19	99	Ma appa Brick(large) work in (1:1:2) lime,surkhi, sand mortar for ground floor	m3	23,620.68	ft3	669.38
20	100	Ma appa Brick(large) work in (1:1:2) lime,surkhi, sand mortar for above ground floor	m3	25,035.18	ft3	709.46
21	101	Ma appa Brick(small) work in (1:1:2) lime,surkhi, sand mortar for ground floor	m3	23,942.68	ft3	678.50
22	102	Ma appa Brick(small) work in (1:1:2) lime,surkhi, sand mortar for above ground floor	m3	25,357.18	ft3	718.59
23	103	Snake Carnesh Brick Work	m	747.27	ft	227.83
24	106	Existing Ma appa Brick(large) work in (1:1:2) lime,surkhi, sand mortar for above ground floor	m3	9,222.68	ft3	261.36
25	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
26	110	Chimney Brick work in (1:1:2) lime,surkhi, sand mortar for ground floor	m3	18,560.68	ft3	525.98
27	111	Telia Brick (Machin made) 6"x6" in (1:1:1) lime, surkhi,sand mortar with (1:1) lime surkhi pointing	m2	3,807.89	ft2	353.95
C Stone Masonry						
1	7	Highly Dressed stone wall in lime surkhi ,sand (1:1:2) __not > 60 cm.Thick	m3	53,515.23	cft	1,516.55
2	8	Highly Dressed stone wall in lime surkhi ,sand (1:1:2) with old stone __not > 60 cm.Thick	m3	30,801.19	cft	872.86
3	46	One side Dressed (Ashlar masonry) stone wall in lime surkhi ,sand (1:1:2) __not > 45 cm.Thick	m3	36,054.46	cft	1,021.73
4	47	One side Dressed (Ashlar masonry) stone wall in cement ,sand (1:4) __not > 45 cm.Thick	m3	32,356.98	cft	916.95
5	51	Highly Dressed stone wall in cement sand (1:4) __both face dressed with 4"thick stone				
6		layer by layer--30 cm. thick wall	m3	111,306.83	cft	3,154.28
7	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	102,567.09	cft	2,906.61
8	53	Highly Dressed facing stone wall in cement sand (1:4) __with 4" to to 6" thick stone	m2	14,654.74	sft	1,362.17
9	10	5" Peti Stone work in (1:1:1) lime, surkhi,sand mortar	r.m.	8,229.37	r.ft.	2,508.95
10	49	5" Peti Stone work in (1:4) cement sand mortar	r.m.	8,183.82	r.ft.	2,495.07

Signature

सत्य नारायण सिंह
निर्देशक, महाशाखा प्रमुख
शहरी विकास तथा योजना महाशाखा

Signature
विजयराम सुवेदी
प्रमुख प्रशासकीय अधिकृत

Madhyapur Thimi Municipality

According to work norms of Department Of Archiology (DOA)

Summary of Rate Analysis For Traditional Works FY: 079/80

For Contract Works

S.N.	Item No.	Item name	Unit	Rate with Overhead	Unit	Rate per Unit
11	95	5" Peti Stone work in (1:1:1) lime, surkhi,sand mortar using existing stone	rm	2,633.22	ft	802.81
12	120	4" Peti Stone work in (1:1:1) lime, surkhi,sand mortar	rm	3,227.08	ft	983.86
13	50	Corner Stone work (23cm.*23cm.*45cm.)	no.	10,149.90	no.	10,149.90
14	93	5" Nagol Stone (10" X5") work in (1:1:1) lime, surkhi,sand mortar	r.m.	3,318.25	r.ft.	1,011.66
15	104	Black saddle Base stone (30"x30"x14" size) for wooden column.	no.	13,683.85	no.	13,683.85
16	116	Stone work in foundation in lime surkhi sand 1:1:2 ratio	m3	18,201.84	ft3	515.81
17	117	Stone work in foundation in lime stone dust 1:4 ratio	m3	14,893.71	ft3	422.07
18	118	Highly Dressed facing stone wall in lime stone dust (1:4) with 4" to 6" thick stone	m3	14,952.02	ft3	423.72
D Flooring Work						
1	6	Old Brick soling on edge in lime, surkhi and sand (1:1:3)	m2	925.92	ft2	86.07
2	2	Telia Brick in Machin made 8"X8"(1:1:1) lime,	m2	2,871.45	ft2	266.90
3	5	Brick soling on edge in lime, surkhi and sand (1:1:3)	m2	2,176.18	ft2	202.28
4	23	Chimney Brick on edge Soling	m2	1,986.15	ft2	184.61
5	24	Chimney Brick on flat Soling	m2	1,134.00	ft2	105.41
6	84	50 mm thick Flag Stone laying in (1:1:3) lime, surkhi, sand mortar.	m2	2,582.15	ft2	240.01
7	85	37.5 mm thick Flag Stone laying in (1:1:3) lime, surkhi, sand mortar.	m2	2,340.09	ft2	217.51
8	86	25 mm thick Flag Stone laying in (1:1:3) lime, surkhi, sand mortar.	m2	2,049.44	ft2	190.50
E Woodwork						
1	9	Nepali Sal wood work for beam,joist,column etc.(8'-0" to 12'-0")	m3	305,003.56	cft	8,643.38
2	19	1"thick Nepali Sal wood planking works	m2	7,032.70	ft2	653.69
3	76	1.5" thick Eaves Board of Sal wood with three side plaining	m2	10,409.82	ft2	967.60
4	92	2"plain shutter with Gand and khur.	m2	13,453.21	ft2	1,250.48
5	98	Sal Wood shoring using existing wood	m3	20,263.00	ft3	574.23
6	105	Sal Wood shoring work	m3	9,551.54	ft3	270.68
7	108	Sal Timber work for beam,joist,column etc.(12'-0" above)	m3	321,465.15	ft3	9,109.87
8	109	Sal Timber work for beam,joist,column etc.(up to 8'-0")	m3	285,680.65	ft3	8,095.79

Signature

Signature
सत्य नारायण साह
निर्देशक, महासभा प्रमुख
शहरी विकास तथा योजना महासभा

Signature

विजयराज सुवेदी
प्रमुख प्रशासकीय अधिकृत

Madhyapur Thana Municipality

According to work norms of Department Of Archiology (DOA)
Summary of Rate Analysis For Traditional Works FY: 079/80

For Contract Works

S.N.	Item No.	Item name	Unit	Rate with Overhead	Unit	Rate per Unit
F						
		Carving work				
1	63	Window carving (except lattice jali) excluding wood	m2	53,471.75	ft2	4,970.23
2	64	Carved salwood Lattice (jali) of Carved Window highly carving including wood	m2	72,704.61	ft2	6,757.94
3	65	Carved salwood Lattice (jali) of Carved Window (second type) including wood	m2	38,019.13	ft2	3,533.90
4	66	Wooden Column highly carving works excluding wood	m2	58,150.94	ft2	5,405.17
5	67	Wooden Column carving work excluding wood	m2	41,991.43	ft2	3,903.13
6	68	Salwood Carved Mirap works including wood	m2	72,752.07	ft2	6,762.35
7	69	Beam carving works above Column excluding wood	m2	46,000.00	ft2	4,275.73
8	70	Carnesh carving works excluding wood	m2	46,448.05	ft2	4,317.38
9	71	Carved Tudal(6'x4"x6") works excluding wood	no	50,370.00	no	50,370.00
10	72	Carved Kunsal(6'6"x5"x8") works excluding wood	no	34,730.00	no	34,730.00
11	73	Carved Three Bay Window(except jali) works excluding wood	m2	51,443.98	ft2	4,781.75
12	74	Carved Door (except khapa) works excluding wood	m2	49,376.60	ft2	4,589.59
13	75	Carved Nas 3"thick works excluding wood	r.m.	3,910.00	r.ft.	1,192.07
14	122	Window carving (except lattice jali) including wood	m2	68,063.49	ft2	6,326.54
15	123	Carved salwood Lattice (jali) shutter of Carved door including wood	m2	36,886.52	ft2	3,428.62
16	124	Carved Tudal works excluding wood	m2	16,790.00	ft2	1,560.64
17	125	Carved Kunsal works excluding wood	m2	72,144.44	ft2	6,705.87
G						
		Roofing				
1	3	New Jhingati (8-3/4"*4") laying on roof with 3" clay	m2	6,395.97	ft2	594.51
2	4	Old Jhingati (8-3/4"*4") laying on roof with 3" clay	m2	3,945.92	ft2	366.78
3	80	Old Jhingati (8-3/4"*4") laying (using existing jhingati)on roof with 3" clay	m2	1,273.14	ft2	118.34
4	15	Jhingati Nailing	r.m.	104.79	r.ft.	31.95
5	16	Dhuri Chang (horizontal and vertical)works	r.m.	2,808.76	r.ft.	856.33
6	17	Dhuri Chang (horizontal and vertical) large sized works	r.m.	5,224.50	r.ft.	1,592.83
7	81	Dhuri Chang (horizontal and vertical) small sized using existing	r.m.	188.60	r.ft.	57.50
8	14	Middle class Gongacha (Corner bird) fixing works	no.	345.00	no.	345.00
9	54	20 gauge Brass plate making and fixing on roof.	m2	23,964.85	ft2	2,227.55
10	55	Making and fixing of Bhairab of 20 gauge Brass plate	no	2,586.35	no	2,586.35
11	56	20 gauge Copper plate making and fixing on roof.	m2	24,464.53	ft2	2,273.99
12	57	Making and fixing of Bhairab of 20 gauge Copper plate	no	2,591.52	no	2,591.52
13	58	22 gauge Copper plate making and fixing on roof.(Indian)	m2	22,102.54	ft2	2,054.44
14	59	26 gauge Copper plate making and fixing on roof.(Indian)	m2	20,362.13	ft2	1,892.67
15	60	22 gauge Brass plate making and fixing on roof.	m2	21,705.56	ft2	2,017.55
16	61	26 gauge Brass plate making and fixing on roof.	m2	20,362.13	ft2	1,892.67
17	128	20/22 /26 gauge copper sheet gajur making and fixing on roof.	Kg	4,444.75	Kg	4,444.75

Signature

सह नगरपालिका सह
नगरपालिका प्रमुख
शहरी विकास तथा योजना महाशाखा

Signature
विजयराम सुवेदी

Madhyapur Thana Municipality

According to work norms of Department Of Archaeology (DOA)
Summary of Rate Analysis For Traditional Works FY: 079/80

For Contract Works

S.N.	Item No.	Item name	Unit	Rate with Overhead	Unit	Rate per Unit
18	129	20/22 /26 gauge brass sheet gajur making and fixing on roof.	kg.	3,806.50	kg.	3,806.50
19	130	20/22 /26 gauge 6"/8" copper/brass sheet Eaves/ jhallar butta making (labour cost only).	Rm	897.00	Rft	273.48
20	131	20/22 /26 gauge 15" brass sheet Kunpa making and fixing on roof (avg wt 2 kg).	Nos	7,015.00	Nos	7,015.00
21	132	20/22 /26 gauge 12" brass sheet Kunpa making and fixing on roof (avg wt 1.8 kg).	Nos	4,519.50	Nos	4,519.50
22	133	20/22 /26 gauge 15" copper sheet Kunpa making and fixing on roof (avg wt 2 kg)	Nos	6,382.50	Nos	6,382.50
23	134	20/22 /26 gauge 12" copper sheet Kunpa making and fixing on roof (avg wt 1.8 kg).	Nos	4,490.75	Nos	4,490.75
H Scaffolding						
1	12	Double bamboo Scaffolding works	m2	897.30	ft2	83.40
2	13	Single bamboo Scaffolding works	m2	463.71	ft2	43.10
3	97	Single Scaffolding using existing Bamboo	m2	392.57	ft2	36.49
4	126	Double MS black pipe Scaffolding works	m2	3,049.27	ft2	283.43
5	127	Single MS black pipe Scaffolding works	m2	1,674.49	ft2	155.64
I Concrete						
1	22	Lime Concrete in Foundation and wall in (1:2:4) lime, sand and brick ballast.	m3	16,585.66	cft.	470.01
2	87	Lime Concrete in Foundation and wall in (1:2:4) lime, sand and aggregate.	m3	16,674.48	cft.	472.53
J Dismantling						
1	27	Dismantling Chimney Brick work in mud mortar and throwing 10 metre away.	m3	1,097.10	cft	31.09
2	28	Dismantling Chimney Brick work in cemnt mortar and throwing 10 metre away.	m3	2,194.20	cft	62.18
3	29	Dismantling R.C.C. or R.B.C work and throwing 10 metre away.	m3	11,385.00	cft	322.64
4	30	Dismantling Plain cement or lime concrete and throwing 10 metre away.	m3	4,140.00	cft	117.32
5	31	Dismantling Cement or Lime Plaster and throwing 10 metre away.	m2	113.85	ft2	10.58
6	32	Dismantling Jhingati roofing and throwing 10 metre away.	m2	158.35	ft2	14.72
7	33	Dismantling Tile roofing and throwing 10 metre away.	m2	158.35	ft2	14.72
8	42	Disposing waste materials by Tractor (small) including labour	no	1,150.00	no	1,150.00
K Water proofing						
1	38	Two layers of plastic felt laying on roofing with bitumen.	m2	10.86	ft2	159.03
2	39	Single layers of plastic felt laying on roofing with bitumen	m2	106.50	ft2	102.85



Madhyapur Thimi Municipality

According to work norms of Department Of Archiology (DOA)
Summary of Rate Analysis For Traditional Works FY: 079/80

For Contract Works

S.N.	Item No.	Item name	Unit	Rate with Overhead	Unit	Rate per Unit
L						
Miscellaneous						
1	43	Iron belt for Eaves Board	no	198.03	no	198.03
2	44	Wind Bell 4"	no	547.40	no	547.40
3	45	Terracota Carnesh of Two layers over wooden carnesh	r.m.	1,477.75	r.ft.	450.53
4	48	Lhakayan works	set	6,427.93	set	6,427.93
M						
Pointing						
1	88	Flush pointing in (1:1:3) lime, surkhi, sand on Brick wall.	m2	289.98	ft2	26.95
2	89	Flush pointing in (1:1:3) lime, surkhi, sand on dressed stone/Boulder stone wall.	m2	338.46	ft2	31.46
3	90	Rulled pointing in (1:1:3) lime, surkhi, sand on Brick wall.	m2	341.73	ft2	31.76
4	91	Rulled pointing in (1:1:3) lime, surkhi, sand on dressed stone/Boulder stone wall.	m2	390.21	ft2	36.27
N						
Extra works						
1	112	12.5 mm thick lime, surkhi plaster in 1:2 ratio	m2	710.01	ft2	66.00
2	113	20 mm thick lime, surkhi plaster in 1:2 ratio	m2	959.56	ft2	89.19
3	114	0.50 mm 24 gauge(midium) colour plain sheet roofing works	m2	3,043.05	ft2	282.85
4	115	0.50 mm 24 gauge(midium) colour plain sheet ridge roofing works	rm	1,427.68	ft	435.27
5	135	Traditional 2.5" singhakhwa ful jhode ko Brick work in (1:1:3) lime,surkhi, sand mortar	rm	456.52	ft	139.18

Signature

राज्य नगरपालिका साह
प्रमुख, महाराजा प्रमुख
शहरी विकास तथा योजना महाराजा

Signature

विजयरज सुवेदी
प्रमुख प्रशासकीय अधिकृत