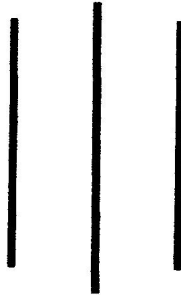
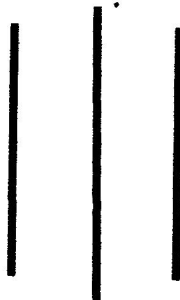


Government of Nepal
Madhyapur Thimi Municipality
Office of Municipality
Bagmati Province
Bhaktapur



Analysis of Rates of Traditional Works

USER



FY 079/080

Madhyapur Thimi Municipality

According to work norms of Department Of Archiology (DOA)

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

For User Works

S.N.	Item No.	Item name	Unit	Rate Without	Unit	Rate per Unit
A						
Earthwork						
1	20	Earth work in Exacavation---soft and silty clay	m3	648.90	ft3	18.39
2	21	Earth work in Exacavation---Hard clay with soft stone	m3	741.60	cft.	21.02
B						
Brickwork						
1	1	Traditional Brick (Small Dachi Appa) work in (1:1:2) lime,surkhi, sand mortar	m2	6,568.94	ft2	610.59
2	11	Chimney Brick work in (1:1:2) lime,surkhi, sand mortar for above ground floor	m3	18,173.10	cft	515.00
3	25	Chimney Brick work in mud mortar for above ground floor	m3	12,694.03	cft.	359.73
4	26	Chimney Brick work in mud mortar for ground floor	m3	12,230.53	cft	346.60
5	34	Ma Appa (Traditional Local Brick--large) work in yellow mud mortar for ground floor	m3	18,945.83	cft	536.90
6	35	Ma Appa (Traditional Local Brick--small) work in yellow mud mortar for ground floor	m3	19,267.63	cft	546.02
7	36	Ma Appa (Traditional Local Brick--large) work in yellow mud mortar for above ground floor	m3	19,414.73	cft	550.19
8	37	Ma Appa (Traditional Local Brick--small) work in yellow mud mortar for above ground floor	m3	19,731.13	cft	559.15
9	40	Traditional Brick (Small Dachi Appa) work in (1:4)cement sand mortar	m2	6,063.90	ft2	563.64
10	41	Traditional Brick (Dachi Appa-large size) work in (1:1:2) lime,surkhi, sand mortar	m2	7,133.34	ft2	663.05
11	82	Chimney Brick work in mud mortar for above ground floor (using existing bricks)	m3	3,518.43	cft	99.71
12	83	Chimney Brick work in mud mortar for ground floor (using existing bricks)	m3	3,054.93	cft.	86.57
13	77	Traditional Brick (small Dachi Appa) work in yellow mud mortar	m2	7,395.48	ft2	687.41
14	78	Traditional Brick (Small Dachi Appa) work using existing old bricks in yellow mud mortar	m2	1,924.02	ft2	178.84
15	79	Traditional Brick (Dachi Appa-large size) work using existing old bricks in (1:1:2) lime,surkhi,	m2	2,677.45	ft2	248.87
16	94	Traditional Kassimo Brick work in (1:1:3) lime,surkhi, sand mortar	rm	426.29	ft	129.97
17	119	Traditional Nago Brick work in (1:1:3) lime,surkhi, sand mortar	rm	574.32	ft	175.10
18	96	Chimney Brick on flat Soling using existing brick	m2	454.74	ft2	42.27

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सत्य नारायण साह

वरिष्ठ इन्जिनियर, महासंस्था प्रमुख

सहरी विकास तथा योजना विभाग

विजयराज सुवेदी
प्रमुख प्रशासकीय अधिकृत

Madhyapur Thimi Municipality

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

For User Works

S.N.	Item No.	Item name	Unit	Rate Without	Unit	Rate per Unit
19	99	Ma appa Brick(large) work in (1:1:2) lime,surkhi, sand mortar for ground floor	m3	22,855.00	ft3	647.68
20	100	Ma appa Brick(large) work in (1:1:2) lime,surkhi, sand mortar for above ground floor	m3	24,085.00	ft3	682.54
21	101	Ma appa Brick(small) work in (1:1:2) lime,surkhi, sand mortar for ground floor	m3	23,171.40	ft3	656.65
22	102	Ma appa Brick(small) work in (1:1:2) lime,surkhi, sand mortar for above ground floor	m3	24,401.40	ft3	691.50
23	103	Snake Carnesh Brick Work	m	697.22	ft	212.57
24	106	Existing Ma appa Brick(large) work in (1:1:2) lime,surkhi, sand mortar for above ground floor	m3	8,547.50	ft3	242.22
25	107	Existing Ma appa Brick(small) work in (1:1:2) lime,surkhi, sand mortar for ground floor	m3	6,859.87	ft3	194.40
26	110	Chimney Brick work in (1:1:2) lime,surkhi, sand mortar for ground floor	m3	17,723.10	ft3	502.25
27	111	Telia Brick (Machin made) 6"x6" in (1:1:1) lime, surkhi,sand mortar with (1:1) lime surkhi pointing	m2	3,618.82	ft2	336.37
C Stone Masonry						
1	7	Highly Dressed stone wall in lime surkhi ,sand (1:1:2) __not > 60 cm.Thick	m3	47,562.90	cft	1,347.87
2	8	Highly Dressed stone wall in lime surkhi ,sand (1:1:2) with old stone not > 60 cm.Thick	m3	27,462.21	cft	778.24
3	46	One side Dressed (Ashlar masonry) stone wall in lime surkhi ,sand (1:1:2) not > 45 cm.Thick	m3	32,502.43	cft	921.07
4	47	One side Dressed (Ashlar masonry) stone wall in cement ,sand (1:4) not > 45 cm.Thick	m3	28,869.25	cft	818.11
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	97,476.06	cft	2,762.34
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	89,902.32	cft	2,547.71
8	53	Highly Dressed facing stone wall in cement sand (1:4) __with 4" to to 6" thick stone	m2	12,845.45	sft	1,193.99
9	10	5" Peti Stone work in (1:1:1) lime, surkhi,sand mortar	r.m.	7,828.92	r.ft.	2,386.87
10	49	5" Peti Stone work in (1:4) cement sand mortar	r.m.	7,784.16	r.ft.	2,373.22

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विजयराज 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 User Works

S.N.	Item No.	Item name	Unit	Rate Without	Unit	Rate per Unit
11	95	5" Peti Stone work in (1:1:1) lime, surkhi,sand mortar using existing stone	rm	2,452.61	ft	747.75
12	120	4" Peti Stone work in (1:1:1) lime, surkhi,sand mortar	rm	3,599.86	ft	1,097.52
13	50	Corner Stone work (23cm.*23cm.*45cm.)	no.	9,076.38	no.	9,076.38
14	93	5" Nagol Stone (10" X5") work in (1:1:1) lime, surkhi,sand mortar	r.m.	3,131.82	r.ft.	954.82
15	104	Black saddle Base stone (30"x30"x14" size) for wooden column.	no.	13,199.00	no.	13,199.00
16	116	Stone work in foundation in lime surkhi sand 1:1:2 ratio	m3	16,666.09	ft3	472.29
17	117	Stone work in foundation in lime stone dust 1:4 ratio	m3	13,815.70	ft3	391.52
18	118	Highly Dressed facing stone wall in lime stone dust (1:4) with 4" to 6" thick stone	m3	13,114.34	ft3	371.64
D Flooring Work						
1	6	Old Brick soling on edge in lime, surkhi and sand (1:1:3)	m2	871.60	ft2	81.02
2	2	Telia Brick in Machin made 8"X8"(1:1:1) lime,	m2	2,698.66	ft2	250.84
3	5	Brick soling on edge in lime, surkhi and sand (1:1:3)	m2	2,100.12	ft2	195.21
4	23	Chimney Brick on edge Soling	m2	1,897.99	ft2	176.42
5	24	Chimney Brick on flat Soling	m2	1,094.78	ft2	101.76
6	84	50 mm thick Flag Stone laying in (1:1:3) lime, surkhi, sand mortar.	m2	2,453.40	ft2	228.04
7	85	37.5 mm thick Flag Stone laying in (1:1:3) lime, surkhi, sand mortar.	m2	2,215.54	ft2	205.94
8	86	25 mm thick Flag Stone laying in (1:1:3) lime, surkhi, sand mortar.	m2	1,937.75	ft2	180.11
E Woodwork						
1	9	Nepali Sal wood work for beam,joist,column etc.(8'-0" to 12'-0")	m3	296,828.52	cft	8,411.71
2	19	1"thick Nepali Sal wood planking works	m2	6,886.41	ft2	640.10
3	76	1.5" thick Eaves Board of Sal wood with three side plaining	m2	10,204.83	ft2	948.55
4	92	2"plain shutter with Gand and khur.	m2	13,165.94	ft2	1,223.78
5	98	Sal Wood shoring using existing wood	m3	17,765.60	ft3	503.45
6	105	Sal Wood shoring work	m3	8,800.43	ft3	249.39
7	108	Sal Timber work for beam,joist,column etc.(12'-0" above)	m3	312,915.14	ft3	8,867.58
8	109	Sal Timber work for beam,joist,column etc.(up to 8'-0")	m3	277,752.97	ft3	7,871.13

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शहरी विकास तथा योजना विभाग

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 Use Works

S.N.	Item No.	Item name	Unit	Rate Without	Unit	Rate per Unit
F						
		Carving work				
1	63	Window carving (except lattice jali) excluding wood	m2	46,497.18	ft2	4,321.94
2	64	Carved salwood Lattice (jali) of Carved Window highly carving including wood	m2	64,615.18	ft2	6,006.02
3	65	Carved salwood Lattice (jali) of Carved Window (second type) including wood	m2	34,178.58	ft2	3,176.92
4	66	Wooden Column highly carving works excluding wood	m2	50,566.04	ft2	4,700.14
5	67	Wooden Column carving work excluding wood	m2	36,514.29	ft2	3,394.03
6	68	Salwood Carved Mirap works including wood	m2	65,358.26	ft2	6,075.09
7	69	Beam carving works above Column excluding wood	m2	40,000.00	ft2	3,718.02
8	70	Carnesh carving works excluding wood	m2	40,389.61	ft2	3,754.24
9	71	Carved Tudal(6'x4"x6") works excluding wood	no	43,800.00	no	43,800.00
10	72	Carved Kunsal(6'6"x5"x8") works excluding wood	no	30,200.00	no	30,200.00
11	73	Carved Three Bay Window(except jali) works excluding wood	m2	44,733.89	ft2	4,158.04
12	74	Carved Door (except khapa) works excluding wood	m2	42,936.17	ft2	3,990.94
13	75	Carved Nas 3"thick works excluding wood	r.m.	3,400.00	r.ft.	1,036.59
14	122	Window carving (except lattice jali) including wood	m2	71,138.04	ft2	6,612.33
15	123	Carved salwood Lattice (jali) shutter of Carved door including wood	m2	33,192.84	ft2	3,085.30
16	124	Carved Tudal works excluding wood	m2	14,600.00	ft2	1,357.08
17	125	Carved Kunsal works excluding wood	m2	62,734.30	ft2	5,831.19
G						
		Roofing				
1	3	New Jhingati (8-3/4"*4") laying on roof with 3" clay	m2	6,145.12	ft2	571.19
2	4	Old Jhingati (8-3/4"*4") laying on roof with 3" clay	m2	3,737.68	ft2	347.42
3	80	Old Jhingati (8-3/4"*4") laying (using existing jhingati) on roof with 3" clay	m2	1,111.37	ft2	103.30
4	15	Jhingati Nailing	r.m.	104.79	r.ft.	31.95
5	16	Dhuri Chang (horizontal and vertical)works	r.m.	2,732.35	r.ft.	833.03
6	17	Dhuri Chang (horizontal and vertical) large sized works	r.m.	5,106.08	r.ft.	1,556.73
7	81	Dhuri Chang (horizontal and vertical) small sized using existing	r.m.	185.32	r.ft.	56.50
8	14	Middle class Gongacha (Corner bird) fixing works	no.	339.00	no.	339.00
9	54	20 gauge Brass plate making and fixing on roof.	m2	22,081.67	ft2	2,052.51
10	55	Making and fixing of Bhairab of 20 gauge Brass plate	no	2,261.87	no	2,261.87
11	56	20 gauge Copper plate making and fixing on roof.	m2	22,572.66	ft2	2,098.14
12	57	Making and fixing of Bhairab of 20 gauge Copper plate	no	2,266.96	no	2,266.96
13	58	22 gauge Copper plate making and fixing on roof.(Indian)	m2	20,251.75	ft2	1,882.41
14	59	26 gauge Copper plate making and fixing on roof.(Indian)	m2	18,541.61	ft2	1,723.45
15	60	22 gauge Brass plate making and fixing on roof.	m2	19,861.67	ft2	1,846.15
16	61	26 gauge Brass plate making and fixing on roof.	m2	18,541.61	ft2	1,723.45
17	128	20/22 /26 gauge copper sheet gajur making and fixing on roof.	Kg	4,029.45	Kg	4,029.45

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शहरी विकास तथा योजना

विजयराज 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 User Works

S.N.	Item No.	Item name	Unit	Rate Without	Unit	Rate per Unit
18	129	20/22 /26 gauge brass sheet gajur making and fixing on roof.	kg.	3,467.30	kg.	3,467.30
19	130	20/22 /26 gauge 6"/8" copper/brass sheet Eaves/ jhallar butta making (labour cost only).	Rm	780.00	Rft	237.80
20	131	20/22 /26 gauge 15" brass sheet Kunpa making and fixing on roof (avg wt 2 kg).	Nos	6,386.00	Nos	6,386.00
21	132	20/22 /26 gauge 12" brass sheet Kunpa making and fixing on roof (avg wt 1.8 kg).	Nos	4,187.40	Nos	4,187.40
22	133	20/22 /26 gauge 15" copper sheet Kunpa making and fixing on roof (avg wt 2 kg)	Nos	5,849.00	Nos	5,849.00
23	134	20/22 /26 gauge 12" copper sheet Kunpa making and fixing on roof (avg wt 1.8 kg).	Nos	4,159.15	Nos	4,159.15
H Scaffolding						
1	12	Double bamboo Scaffolding works	m2	809.09	ft2	75.21
2	13	Single bamboo Scaffolding works	m2	419.34	ft2	38.98
3	97	Single Scaffolding using existing Bamboo	m2	348.74	ft2	32.42
4	126	Double MS black pipe Scaffolding works	m2	2,923.64	ft2	271.75
5	127	Single MS black pipe Scaffolding works	m2	1,608.37	ft2	149.50
I Concrete						
1	22	Lime Concrete in Foundation and wall in (1:2:4) lime, sand and brick ballast.	m3	15,751.22	cft.	446.37
2	87	Lime Concrete in Foundation and wall in (1:2:4) lime, sand and aggregate.	m3	15,838.49	cft.	448.84
J Dismantling						
1	27	Dismantling Chimney Brick work in mud mortar and throwing 10 metre away.	m3	954.00	cft	27.04
2	28	Dismantling Chimney Brick work in cement mortar and throwing 10 metre away.	m3	1,908.00	cft	54.07
3	29	Dismantling R.C.C. or R.B.C work and throwing 10 metre away.	m3	9,900.00	cft	280.55
4	30	Dismantling Plain cement or lime concrete and throwing 10 metre away.	m3	3,600.00	cft	102.02
5	31	Dismantling Cement or Lime Plaster and throwing 10 metre away.	m2	99.00	ft2	9.20
6	32	Dismantling Jhingati roofing and throwing 10 metre away.	m2	137.70	ft2	12.80
7	33	Dismantling Tile roofing and throwing 10 metre away.	m2	137.70	ft2	12.80
8	42	Disposing waste materials by Tractor (small) including labour	no	1,000.00	no	1,000.00
K Water proofing						
1	38	Two layers of plastic felt laying on roofing with bitumen.	m2	1,591.40	ft2	147.92
2	39	Single layers of plastic felt laying on roofing with bitumen	m2	1,029.15	ft2	95.66

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सत्य नारायण सिंह
अध्यक्ष, मन्त्रालय
गौरीगंगा नगरपालिका

विजयराज सुवेदी
प्रमुख प्रशासकीय अधिकृत

Madhyapur Thimi Municipality

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For Use Works

S.N.	Item No.	Item name	Unit	Rate Without	Unit	Rate per Unit
L						
Miscellaneous						
1	43	Iron belt for Eaves Board	no	189.91	no	189.91
2	44	Wind Bell 4"	no	537.88	no	537.88
3	45	Terracota Carnesh of Two layers over wooden carnesh	r.m.	1,402.00	r.ft.	427.44
4	48	Lhakayan works	set	6,311.65	set	6,311.65
M						
Pointing						
1	88	Flush pointing in (1:1:3) lime, surkhi, sand on Brick wall.	m2	257.64	ft2	23.95
2	89	Flush pointing in (1:1:3) lime, surkhi, sand on dressed stone/Boulder stone wall.	m2	305.27	ft2	28.38
3	90	Rulled pointing in (1:1:3) lime, surkhi, sand on Brick wall.	m2	302.64	ft2	28.13
4	91	Rulled pointing in (1:1:3) lime, surkhi, sand on dressed stone/Boulder stone wall.	m2	350.27	ft2	32.56
N						
Extra works						
1	112	12.5 mm thick lime, surkhi plaster in 1:2 ratio	m2	660.22	ft2	61.37
2	113	20 mm thick lime, surkhi plaster in 1:2 ratio	m2	898.80	ft2	83.54
3	114	0.50 mm 24 gauge(midium) colour plain sheet roofing works	m2	2,905.63	ft2	270.08
4	115	0.50 mm 24 gauge(midium) colour plain sheet ridge roofing works	rm	1,336.55	ft	407.49
5	135	Traditional 2.5"singhakhwa ful jhode ko Brick work in (1:1:3) lime,surkhi, sand mortar	rm	426.29	ft	129.97

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