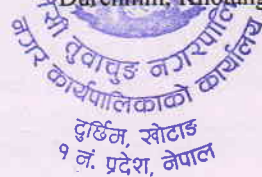


Haleshi Tuwachung Municipality

Office Of the Municipal Executive

Durchhim, Khotang



CIVIL RATE ANALYSIS [Civil Works]

DISTRICT : KHOTANG

FISCAL YEAR : 2076/077

Prepared by

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As. Sub-Engineer

Checked by

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Haleshi Tuwaching Municipality

Office of the Municipal Executive

Durghim, Khotang

SUMMARY OF RATE ANALYSIS, CIVIL

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A - SITE PREPARATION WORK				
1.01	A1 (1-1A)	Cutting of tree, branch & log etc. (12-30 cm. girth above 1.00 mtr. From G.L.) with lead upto 15 mtr.	Nos.	71.50
1.02	A1 (1-1B)	Cutting of tree, branch & log etc. (31-60 cm. girth above 1.00 mtr. From G.L.) with lead upto 15 mtr.	Nos.	214.50
1.03	A1 (1-1C)	Cutting of tree, branch & log etc. (61-120 cm. girth above 1.00 mtr. From G.L.) with lead upto 15 mtr.	Nos.	539.00
1.04	A2 (1-2A)	Removing of tree root (12-30 cm. girth above 1.00 mtr. From G.L.) with lead upto 15 mtr.	Nos.	220.00
1.05	A2 (1-2B)	Removing of tree root (31-60 cm. girth above 1.00 mtr. From G.L.) with lead upto 15 mtr.	Nos.	291.50
1.06	A2 (1-2C)	Removing of tree root (61-120 cm. girth above 1.00 mtr. From G.L.) with lead upto 15 mtr.	Nos.	1,386.00
1.07	A3	Cutting of grass, taking of root & broken of upcutting of raised soil & site leveling with all complete	Sqm.	12.65
1.08	A4	Surface dressing work with cutting of raised soil & filling the ditches.	sqm.	5.50

B - EARTH & SAND WORK

2.01	B1 (2-1)	Earth work excavation in foundation in clay & silty soft soil lead upto 10 mtr. & lift 1.5 mtr.	Cum.	396.55
2.02	B1 (2-2)	Earth work excavation in foundation in clay & soft murram stone (30 cm.) hard soil lead upto 10 mtr. & lift 1.5 mtr.	Cum.	453.20
2.03	B2 (2-25A)	Earth filling work in every 15-15 cm. layer with watering & lead upto 10.00 mtr. & proper manual compaction.	Cum.	275.00
2.04	B2 (2-25A)	Earth filling (Earth transported from 5 Km. surrounding) work in every 15-15 cm. layer with watering & proper manual compaction.	Cum.	442.00
2.05	B2 (2-25B)	Earth filling work in every 15-15 cm. layer without watering & proper manual compaction.	Cum.	137.50
2.06	B2 (2-25B)	Earth filling (Earth transported from 5 Km. surrounding) work in every 15-15 cm. layer without watering & proper manual compaction.	Cum.	280.50
2.07	B3 (2-42A)	Sand filling work with watering & proper manual compaction.	Cum.	6,209.44
2.08	B3 (2-42B)	Gravel Sand mixed (agg-50% + sand 50%) filling work with proper manual compaction.	Cum.	1,127.50
2.09	B4 (2-34)	Pumping of water from foundation or trench	Hrs	25.30
2.11	B5	Compaction of filled earth by 8-10 M.T. roller in 20/20 cm layer	Cum.	11.32
2.12	B5	Compaction of filled earth by 1.00 M.T. Hand roller in 20/20 cm layer	Cum.	5.01
2.13	B7	Earth work excavation in foundation in SOFT SOIL(USED 0.80 CUM. CAPACITY HYDROLIC EXCAVATOR)	Cum.	36.58
2.14	B7	Earth work excavation in foundation in HARD SOIL USED 0.80 CUM. CAPACITY HYDROLIC EXCAVATOR)	Cum.	43.97
2.15	B7	Earth work excavation in foundation in HARD SOIL USED 0.80 CUM. CAPACITY HYDROLIC EXCAVATOR)	Cum.	43.97
2.16	B7	Earth work excavation in foundation in SOFT SOILUsed 1.32Cum capecity hydrolic excavator	Cum.	33.73
2.17	B7	Earth work excavation in foundation in HARD SOIL Used 1.32Cum capecity Hydraulic excavator	Cum.	41.07

C - MASONRY WORK

3.01	C2(5-1-B1 & 5-2A)	First class chimney brick masonry work in (1:3) cement sand mortar in G. F.	Cum.	20,583.39
3.02	C2(5-1-B1 & 5-2B)	First class chimney brick masonry work in (1:3) cement sand mortar in F. F.	Cum.	20,866.64

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3.03	C2(5-1-B1 & 5-2B)	First class chimney brick masonry work in (1:3) cement sand mortar in S. F.	Cum.	21,263.19
3.04	C2(5-1-B2 & 5-2A)	First class chimney brick masonry work in (1:4) cement sand mortar in G. F.	Cum.	19,933.37
3.05	C25-1-B2 & 5-2B)	First class chimney brick masonry work in (1:4) cement sand mortar in F. F.	Cum.	20,216.62
3.06	C2(5-1-B2 & 5-2B)	First class chimney brick masonry work in (1:4) cement sand mortar in S. F.	Cum.	20,613.17
3.07	C2(5-1-B3 & 5-2A)	First class chimney brick masonry work in (1:6) cement sand mortar in G. F.	Cum.	19,332.28
3.08	C2(5-1-B3 & 5-2B)	First class chimney brick masonry work in (1:6) cement sand mortar in F. F.	Cum.	19,615.53
3.09	C2(5-1-B3 & 5-2B)	First class chimney brick masonry work in (1:6) cement sand mortar in S. F.	Cum.	20,012.08
3.10	C2(5-1-B6 & 5-2A)	First class chimney brick masonry work in mud mortar in G. F.	Cum.	15,456.50
3.11	C2(5-1-B6 & 5-2B)	First class chimney brick masonry work in mud mortar in F. F.	Cum.	15,739.75
3.12	C2(5-1-B6 & 5-2B)	First class chimney brick masonry work in mud mortar in S. F.	Cum.	16,136.30
3.13	C6(6-1-1A)	R.R. stone masonry work in cement sand (1:3) mortar	Cum.	13,350.14
3.14	C6(6-1-1B)	R.R. stone masonry work in cement sand (1:4) mortar	Cum.	12,690.15
3.14a	C6(6-1-1B)	Aslar (Crused stone) stone masonry work in cement sand (1:4) mortar	Cum.	12,690.15
3.15	C6(6-1-1C)	R.R. stone masonry work in cement sand (1:6) mortar	Cum.	11,556.28
3.15a	C6(6-1-1C)	Aslar (Crused stone)stone masonry work in cement sand (1:6) mortar	Cum.	11,556.28
3.16	C6(6-2-1)	R.R. stone masonry work for dry wall	Cum.	4,497.52
3.17	C6(6-2-2)	R.R. stone masonry work in mud mortar	Cum.	4,681.22
3.18	C10(6-5)	Stone filling in trench with proper leveling	Cum.	3,576.84

D - CEMENT CONCRETE WORK

4.01	D1(7-2B)	P.C.C. (1:4:8) work in foundation, wall (River bed)	Cum.	11,530.81
4.02	D1(7-2C)	P.C.C. (1:3:6) work in foundation, wall (River bed)	Cum.	14,789.83
4.02(a)	D1(7-2CC)	P.C.C. (1:3:6) work(Ready Mix Concrete) in foundation, wall (River bed)	Cum.	12,955.50
4.03	D1(7-2D)	P.C.C. (1:2:4) work in foundation, wall (River bed)	Cum.	16,802.50
4.04	D2(7-4A)	P.C.C. (1:2:4) for R.C.C. work in slab, beam etc (River bed)	Cum.	18,277.50
4.05	D2(7-4B)	P.C.C. (1:1½:3) for R.C.C. work in slab, beam etc (River bed)	Cum.	20,090.72
4.06	D2(7-4C)	P.C.C. (1:1:2) for R.C.C. work in slab, beam etc (River bed)	Cum.	24,949.49
4.07	D3(A)	P.C.C. (1:3:6) work (USED MACHINE) in foundation, wall (River bed)	Cum.	14,600.66
4.08	D3(B)	P.C.C. (1:2:4) work (USED MACHINE) in foundation, wall (River bed)	Cum.	16,851.52
4.09	D4(A)	P.C.C. (1:1½:3) for R.C.C. work(USED MACHINE) in slab, beam etc (River bed)	Cum.	18,672.74
4.10	D4(B)	P.C.C. (1:1:2) for R.C.C. work(USED MACHINE) in slab, beam etc (River bed)	Cum.	23,531.51
4.11	D(5)	P.C.C. (1:1:2) for R.C.C. work in slab (River bed) with micro silica & super plasticiser	Cum.	34,616.36
4.12	D1(7-2B)	P.C.C. (1:4:8) work in foundation, wall (crushed or stone ballast)	Cum.	11,605.81
4.13	D1(7-2C)	P.C.C. (1:3:6) work in foundation, wall (crushed or stone ballast)	Cum.	12,772.06

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4.13(A)	D1(7-2C(a))	P.C.C. (1:3:6) work (Ready Mix Concrete) in foundation, wall (crushed or stone ballast)	Cum.	12,982.33
4.14	D1(7-2D)	P.C.C. (1:2:4) work in foundation, wall (crushed or stone ballast)	Cum.	14,892.06
4.14(A)	D1(7-2DD)	P.C.C. (1:2:4) work (Ready Mix Concrete) in foundation, wall (crushed or stone ballast)	Cum.	13,955.50
4.15	D2(7-4A)	P.C.C. (1:2:4) for R.C.C. work in slab, beam etc (crushed or stone ballast)	Cum.	16,367.06
4.15(A)	D2(7-4AA)	P.C.C. (1:2:4) work (Ready Mix Concrete) in Slab, Beam (crushed or stone ballast)	Cum.	13,982.33
4.16	D2(7-4B)	P.C.C. (1:1½:3) for R.C.C. work in slab, beam etc (crushed or stone ballast)	Cum.	19,790.77
4.16(A)	D2(7-4BB)	P.C.C. (1:1.5:3) work (Ready Mix Concrete) in Slab, Beam (crushed or stone ballast)	Cum.	14,982.33
4.17	D2(7-4C)	P.C.C. (1:1:2) for R.C.C. work in slab, beam etc (crushed or stone ballast)	Cum.	23,124.91
4.18(A)	D3(A)	P.C.C. (1:3:6) work (USED MACHINE) in foundation, wall (crushed or stone ballast)	Cum.	12,776.08
4.19	D3(B)	P.C.C. (1:2:4) work (USED MACHINE) in foundation, wall (crushed or stone ballast)	Cum.	14,941.08
4.2(A)	D4(A)	P.C.C. (1:1½:3) for R.C.C. work (USED MACHINE) in slab, beam etc (crushed or stone ballast)	Cum.	16,848.16
4.21	D4(B)	P.C.C. (1:1:2) for R.C.C. work (USED MACHINE) in slab, beam etc (crushed or stone ballast)	Cum.	21,706.93
4.21(A)	D4(BB)	P.C.C. (1:1:2) M25 work (Ready Mix Concrete) in Slab, Beam (crushed or stone ballast)	Cum.	15,486.33
4.22	D(5)	P.C.C. (1:1:2) for R.C.C. work in slab (crushed or stone ballast) with micro silica & super plasticiser	Cum.	36,147.60
4.22(A)	D5(b)	P.C.C. (M30) work (Ready Mix Concrete) in Slab, Beam (crushed or stone ballast)	Cum.	16,389.33
4.23	D9(7-5)	Torsteel reinforcement bar for R.C.C. work with cutting, bending, binding & laying with all complete.	Kg.	120.83

E - FORM & PROPS WORK

5.01	E1(8-3A)	Form work shuttering & centering (COLUMN) with (USED LOCAL WOOD) all complete.	Sqm.	965.99
5.02	E2(51B)	Form work shuttering & centering (COLUMN) with (USED PLY WOOD) all complete.	Sqm.	579.75
5.03	E3(8-4A)	Form work shuttering & centering (BEAM-0.30 Mtr) with (USED LOCAL WOOD) all complete.	Sqm.	1,008.83
5.04	E4(8-4B)	Form work shuttering & centering (BEAM-0.30-0.80 Mtr) with (USED LOCAL WOOD) all complete.	Sqm.	782.46
5.05	E5(51A)	Form work shuttering & centering (COLUMN) with (USED PLY WOOD) all complete.	Sqm.	1,250.67
5.06	E6(8-4A)	Form work shuttering & centering with MS pipe (prop), plyboard for slab etc	Sqm.	761.51
5.06(A)	E6(8-4A)	Form work shuttering & centering with Bamboo, plyboard for slab etc	Sqm.	554.31
5.07	E12(8-13A)	Trench work open type form work (up to 1.50 Mtr.)	Sqm.	155.44
5.08	E12(8-13B)	Trench work open type form work (1.50 to 3.00 Mtr.)	Sqm.	161.75
5.09	E13(8-13C)	Trench work open type form work (above 3.00 Mtr.)	Sqm.	170.25

F - ROOFING WORK

6.01	F1(9-1)	26 (H) 0.41 mm thick colored C.G.I. sheet roofing work (65kg/bandal)	Sqm.	1,114.58
6.02	F1(9-1)	26 (H) 0.41mm thick plane C.G.I. sheet roofing work (62kg/bandal)	Sqm.	1,064.49
6.03	F1(9-1)	26 (L) 0.35mm thick plane C.G.I. sheet roofing work (55kg/bandal)	Sqm.	830.64

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6.04	F3(9-1)	26 (H) 0.41 mm thick colour C.G.I. sheet roofing work (65kg/bandal)	Sqm.	979.27
6.05	F3(9-1)	26 (M) 0.39 mm thick colour C.G.I. sheet roofing work (62kg/bandal)	Sqm.	1,105.95
6.08	F2(9-2)	28 (H) G.I. plane ridge cover	Rmtr.	669.68
6.09	F4(9-2)	26 (L) C.G.I. colour ridge cover	Rmtr.	1,145.58
6.11	F5	26 (M) 0.41 mm thick plane G.I. sheet roofing work	Rmtr.	732.83
6.12	F5	26 (L) 0.35 mm thick plane G.I. sheet roofing work	Rmtr.	1,065.98
6.13	F6	26 (H) 0.50 mm thick Colour G.I. sheet roofing work	Rmtr.	36,022.19
6.14	F6	26 (M) 0.41 mm thick Colour G.I. sheet roofing work	Rmtr.	732.83
6.16	F7	150 mm breadth upto 450 mm G. I. plane sheet Gutter fixing work with 3x40 mm M.S. bracke,t nut bolt & washer .	Rmtr.	692.87
6.17	F7	150 mm breadth upto 450 mm G. I. colour sheet Gutter fixing work with 3x40 mm M.S. bracke,t nut bolt & washer .	Rmtr.	692.87
6.18	F10(9-6)	Clay tile roofing work	Rmtr.	555.25
6.19	F11(9-7)	Clay tile ridge cover	Rmtr.	354.13
6.20	F12(9-8)	100 mm lime concrete (1:1:3) work	Sqm.	891.89
6.21	F13(9-9A)	80 mm thick khar roof with bamboo frame	Sqm.	1,073.50
6.22	F13(9-9B)	150 mm thick khar roof with bamboo frame	Sqm.	1,560.25
6.23	F14	1.20 mm thick fiber glass corgated sheet roofing work	Sqm.	1,339.23
6.24	F15	1.20 mm thick fiber glass ridge cover	Rmtr.	1,083.79
6.25	F18	Readymade colour concrete tile laying work on cement sand (1:4) screeding	Sqm.	1,312.09
6.26	F19(10-17)	Making and fixing of Sal wood beam, lintel, etc	Cum.	220,253.75
6.27	F20(10-19)	Making and fixing of 25 mm sal wood eaves board	Sqm.	5,479.09
6.28	F22	2 mm thick UPVC roofing sheet roofing work	Sqm.	-
6.29	F23	3 mm thick UPVC roofing sheet roofing work	Sqm.	2,350.45

G - DOOR & WINDOW WORK

7.01	G1(10-1)	Sal wood works for chaukhats with all complete.	Cum.	248,182.80
7.02	G1(10-1)	Local wood works for chaukhats with all complete.	Cum.	81,308.40
7.03	G2(10-2)	38 mm thick sal wood fully paneled shutter fixing work with all complete. Size of shutter 1.07 x 1.982 =2.114 Sqm.	Sqm.	13,489.64
7.04	G3(10-4)	38 x 75 mm thick sal wood frame with 4 mm thick fully glazed shutter fixing work with all complete. Size of shutter 1.829 x 1.22 =2.23 Sqm.	Sqm.	8,946.65
7.04a	G3(10-4)	38 x 75 mm thick sal wood frame with 3 mm thick fully glazed shutter fixing work with all complete. Size of shutter 1.829 x 1.22 =2.23 Sqm.	Sqm.	8,668.63
7.05	G3(10-4)	38 x 75 mm thick Gamhair wood frame with 4 mm thick fully glazed shutter fixing work with all complete. Size of shutter 1.829 x 1.22 =2.23 Sqm.	Sqm.	6,056.47
7.06	G4(10-7)	38 mm thick sal wood frame with 4 mm thick commercial plywood (bothside) flush shutter fixing with all comolete. Size of shutter 1.092 x 2.058 =2.245 Sqm.	Sqm.	7,269.32
7.07	G4(10-8)	38 mm thick sal wood frame with 3 mm thick TEAK plywood (Both side) flush shutter fixing with all comolete. Size of shutter 1.092 x 2.058 =2.245 Sqm.	Sqm.	7,000.16
7.08	G4(10-9)	38 mm thick sal wood frame with 26 Bwg G.I. plane sheet (bothside) shutter fixing with all comolete. Size of shutter 1.092 x 2.058 =2.245 Sqm.	Sqm.	8,435.07
7.09	G4(10-10)	38 mm thick sal wood frame with 24 Bwg G.I. mosquito proof & Expanded metal net net shutter fixing with all comolete. Size of shutter 1.092 x 2.058 =2.245 Sqm.	Sqm.	5,030.10

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7.10	G4(10-10)	38 mm thick sal wood frame with 24 Bwg G.I. mosquito proof net shutter fixing with all complete. Size of shutter 1.092 x 2.058 = 2.245 Sqm.	Sqm.	4,868.81
7.11	G5(10-11B)	4 mm thick plane glass fixing work with wooden listies.	Sqm.	1,114.75
7.12	G5(10-11B)	26 Bwg plane sheet fixing work with wooden listies.	Sqm.	809.90
7.13	G6(10-12)	4 mm thick ply wood fixing work with wooden listies.	Sqm.	533.64
7.14	G5(10-11B)	Mosquito proof net fixing work with wooden listies.	Sqm.	287.94
7.15	G5(10-11B)	Mosquito proof & Expanded metal net fixing work with wooden listies.	Sqm.	457.94
7.16	10-16-A	False ceiling of 6 mm thick commerical plywood with 50 mm x 75 mm size local wood frame of box size 0.600 x 0.900 m and fixing of wooden listy in joints	Sqm.	1,683.28
7.17	G7(10-21)	Torsteel reinforcement bar fixing work in window frame with all complete.	Kg.	28.65
7.18	G8(10-3 & 10-7)	38 x 100mm thick sal wood frame with 12 mm thick commercial plywood paneled & one side 4 mm thick Teak plywood paneled shutter fixing with all complete. Size of shutter 1.092 x 2.058 = 2.245 Sqm.	Sqm.	7,602.52
7.19	G9(10-3 & 10-7)	38 x 100mm thick sal wood frame with 12 mm thick commercial plywood paneled & both side 4 mm thick Teak plywood paneled shutter fixing with all complete. Size of shutter 1.092 x 2.058 = 2.245 Sqm.	Sqm.	8,057.91
7.20	G10(10-3 & 10-7)	38 x 100mm thick sal wood frame with 12 mm thick water proof plywood paneled & one side 4 mm thick Teak plywood paneled shutter fixing with all complete. Size of shutter 1.092 x 2.058 = 2.245 Sqm.	Sqm.	7,602.52

H - FLOORING WORK

8.01	H1(11-1A)	25 mm or 1" thick P.C.C. (1:2:4) work in floor with all complete.	Sqm.	504.74
8.02	H1(11-1B)	38 mm or 1½" thick P.C.C. (1:2:4) work in floor with all complete.	Sqm.	703.66
8.03	H1(11-1C)	50 mm or 2" thick P.C.C. (1:2:4) work in floor with all complete.	Sqm.	874.69
8.04	H1(11-1D)	75 mm or 3" thick P.C.C. (1:2:4) work in floor with all complete.	Sqm.	1,222.60
8.05	H2(11-2)	25 mm thick mosaic flooring with 20 mm thick P.C.C. (1:2:4) & 5 mm thick white cement marble chips 1:1 rubbing & polishing work with all complete.	Sqm.	1,808.19
8.06	H3(11-3)	25 mm thick mosaic flooring with 19 mm thick cement sand plaster 1:2 & 6 mm thick white cement marble chips 1:1 rubbing & polishing work with all complete.	Sqm.	3,142.90
8.07	H4(11-4)	20 mm thick mosaic flooring with 12.5mm thick cement sand plaster 1:2 & 6 mm thick white cement marble chips 1:1 rubbing & polishing work with all complete.	Sqm.	3,181.59
8.08	H5(11-5)	20 mm thick Terrazo tile paving with 20 mm thick cement sand mortar 1:4 rubbing & polishing work with all complete.	Sqm.	8,139.62
8.09	11-6	16 mm thick marble tile 600x600 mm paving with 20 mm thick cement sand mortar 1:2 rubbing & polishing work with all complete.	Sqm.	5,532.57
8.10	H6(11-7)	Porcelain glazed /non glazed tile paving work in cement sand (1:4) mortar	Sqm.	3,283.32
8.11	H6(11-7)	Spartik Non-glazed tile paving work in cement sand (1:4) mortar	Sqm.	3,179.23
8.12	H12(11-12)	Flat Brick paving in 1:6 & cement sand pointing in 1:2 in joints	Sqm.	1,638.02
8.13	H13(11-13)	Edge Brick paving in 1:6 & cement sand pointing in 1:2 in joints	Sqm.	2,257.42
8.14	H15(11-15A)	Dry flat Brick paving work	Sqm.	1,435.06

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8.15	H15(11-15A)	Dry flat Brick (Brick Bat) paving work	Sqm.	720.38
8.16	H15(11-15B)	Dry edge Brickpaving work	Sqm.	2,195.81
8.17	H15(11-15B)	Dry edge Brick (Brick Bat) paving work	Sqm.	1,088.88
8.18	H16(11-16)	Stone filling in floor with sand lead up to 30 mtr.	Cum.	8,851.32
8.19	H17(11-17)	Edge brick paving with sand packing in voids & cement sand (1:3) flush pointing in top surface.	Sqm.	2,048.01
8.20	H19(11-19A)	Sand filling work	Cum.	6,391.19
8.21	H19(11-19B)	15-15 cm. Brick bat filling work.	Cum.	882.95
8.22	H20(11-20)	3 mm thick neat cement punning work.	Sqm.	265.73
8.23	H21(11-21)	25 mm thick Sal wood planking work with 50x75 mm sal wood frame in 600x600 mm	Sqm.	8,793.58
8.24	H24(11-20)	3 mm thick neat Plaster of Paris punning work.	Sqm.	358.91
8.25	H25(11-7)	Clay tile(Machine Made) paving work in cement sand (1:4) mortar	Sqm.	1,632.93
8.26	H26(11-6)	Granite 16mm thick paving with 20 mm thick cement sand mortar 1:2 rubbing & polishing work with all complete.	Sqm.	6,275.07
8.27		50 mm thick interlocking block over 50 mm thick Crusser dust laying work with all complete.	Sqm.	1,727.65
8.28		60 mm thick interlocking block over 50 mm thick Crusser dust laying work with all complete.	Sqm.	2,328.05
8.29		80 mm thick interlocking block over 50 mm thick Crusser dust laying work with all complete.	Sqm.	711.25
8.30		Parking Tile(25mm) thick over 50 mm thick Crusser dust laying work with all complete.	Sqm.	755.25

I - PLASTER & POINTING WORK

9.01	I1(12-1B)	12.5 mm. thick cement sand plaster work 1:3 on wall.	Sqm.	405.53
9.02	I1(12-1C)	12.5 mm. thick cement sand plaster work 1:4 on wall.	Sqm.	394.90
9.03	I1(12-1D)	12.5 mm. thick cement sand plaster work 1:6 on wall.	Sqm.	364.59
9.04	I4(12-4A)	20 mm. thick cement sand plaster work 1:3 on wall etc.	Sqm.	552.60
9.05	I4(12-4B)	20 mm. thick cement sand plaster work 1:4 on wall etc.	Sqm.	531.08
9.06	I4(12-4C)	20 mm. thick cement sand plaster work 1:6 on wall etc.	Sqm.	483.42
9.07	I5(12-5)	25 mm. thick mud plaster on wall etc.	Sqm.	320.40
9.08	I5(12-6)	12.5 mm. thick mud plaster on wall etc.	Sqm.	249.70
9.09	I7(12-1B)	12.5 mm. thick cement sand plaster work (1:3) on ceiling	Sqm.	453.78
9.10	I7(12-1C)	12.5 mm. thick cement sand plaster work 1:4 on ceiling	Sqm.	443.15
9.11	I8(14-1A)	Flush pointing works in 1:1 Cement sand mortar on Brick masonry wall	Sqm.	242.72
9.12	I8(14-1B)	Flush pointing works in 1:2 Cement sand mortar on Brick masonry work	Sqm.	221.87
9.13	I8(14-1C)	Flush pointing works in 1:3 Cement sand mortar on Brick masonry wall	Sqm.	210.71
9.14	I8(14-1A)	Ruled pointing works in 1:1 Cement sand mortar on Brick masonry wall	Sqm.	321.65
9.15	I8(14-1B)	Ruled pointing works in 1:2 Cement sand mortar on Brick masonry work	Sqm.	300.80
9.16	I8(14-1C)	Ruled pointing works in 1:3 Cement sand mortar on Brick masonry wall	Sqm.	289.65
9.17	I9(14-2A)	Flush/Ruled pointing works in 1:1 Cement sand mortar on Stone masonry wall	Sqm.	329.03
9.18	I9(14-2B)	Flush/Ruled pointing works in 1:2 Cement sand mortar on Stone masonry work	Sqm.	289.18

Prepared by

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SUMMARY OF RATE ANALYSIS, CIVIL

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9.19	(14-2C)	Flush/Rulled pointing works in 1:3 Cement sand mortar on Stone masonry work	Sqm.	268.73
9.20	I10(14-3)	Flush/Rulled pointing works in 1:3 Cement sand mortar on Aslar Stone masonry work	Sqm.	161.06
9.21	I11(14-4)	1:3 Cement sand pointing on 450 mm x 450 mm flat stone paving joints.	Sqm.	82.56
9.22	I12(14-5)	1:1 Cement sand pointing on Teliya brick paving joints.	Sqm.	182.54
9.23	(14-6)	3 mm thick Cement sand 1:1 flushing plaster	Sqm.	232.50
9.24	I13(14-7)	3 mm thick lime flushing plaster	Sqm.	142.55
9.25	I14(14-8)	3 mm thick Cement flushing plaster	Sqm.	262.49
9.26	I15	20 mm thick Jhalar/pani patti making over cement plaster	Sqm.	242.69
9.27	I16	25 mm thick roofing tile butta plaster in cement sand (1:4) work	Sqm.	623.00
9.28	I17	2 mm thick plane white putting plaster work in wall & ceiling	Sqm.	587.35

J- PAINTING WORK

10.01	J1(13-1B)	Two coat white washing work on wall.	Sqm.	29.21
10.02	J1(13-1B)	Two coat white washing work on ceiling.	Sqm.	34.01
10.03	J1(13-1C)	Three coat white washing work on wall.	Sqm.	55.70
10.04	J1(13-1C)	Three coat white washing work on ceiling.	Sqm.	65.98
10.05	J2(13-2)	white washing work in old surface.	Sqm.	15.41
10.06	J3(13-3AB)	One coat distemper painting work over primer coat.	Sqm.	117.59
10.07	J3(13-3ABC)	Two coat distemper painting work over primer coat.	Sqm.	158.21
10.08	J3(13-3B)	One coat distemper painting work without primer coat.	Sqm.	47.96
10.09	J3(13-3BC)	Two coat distemper painting work without primer coat.	Sqm.	88.58
10.10	J3(13-3AB)	One coat weather proof painting work over primer coat.	Sqm.	165.57
10.11	J3(13-3ABC)	Two coat weather proof painting work over primer coat.	Sqm.	238.68
10.12	J3(13-3B)	One coat weather proof painting work without primer coat.	Sqm.	90.19
10.13	J3(13-3BC)	Two coat weather proof painting work without primer coat.	Sqm.	163.30
10.14	J4(13-4A)	One coat water proof cement paint painting work in old surface	Sqm.	43.20
10.15	J4(13-4B)	Two coat water proof cement paint painting work in old surface	Sqm.	101.94
10.16	J4(13-4A)	One coat white cement paint painting work .	Sqm.	40.83
10.17	J4(13-4B)	Two coat white cement paint painting work .	Sqm.	98.10
10.18	J5(13-5AB)	One coat enamel painting work over primer coat in wooden surface.	Sqm.	180.68
10.19	J5(13-5ABC)	Two coat enamel painting work over primer coat in wooden surface.	Sqm.	270.54
10.20	J5(13-5AB)	One coat plastic emulsion painting work over primer coat.	Sqm.	202.54
10.21	J5(13-5AB)	Two coat plastic emulsion painting work over primer coat.	Sqm.	309.41
10.22	J6(13-6)	Two coat aluminium painting work over primer coat in metal surface.	Sqm.	237.61
10.23	J7(13-8AB)	Two coat double boiled Linseed oil painting work .	Sqm.	90.00
10.24	J6(13-6)	Two coat aluminium painting work over primer coat in metal surface.	Sqm.	237.61
10.25	J7(13-8A)	One coat double boiled Linseed oil painting work .	Sqm.	46.50
10.25(A)	J8(13-9AB)	Two coat varnish painting work .	Sqm.	125.46
10.26	J9(13-10A)	One coat Bitumen painting work .	Sqm.	39.98
10.27	J9(13-10B)	Two coat Bitumen painting work .	Sqm.	69.48
10.28	J10(13-11)	Three coat chapra painting work .	Sqm.	187.88
10.29	J11(13-4C)	One coat RED OXIDE painting work .	Sqm.	151.35
10.30	J11(13-4C)	Two coat RED OXIDE painting work .	Sqm.	255.39
10.31	J12(13-12A)	One coat water proof cement paint painting work in plastered surface	Sqm.	68.85

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SUMMARY OF RATE ANALYSIS, CIVIL

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DISTRICT :- KHOTANG

2076/2077

10.32	J12(13-12AB)	Two coat water proof cement paint painting work in plastered surface	Sqm.	124.26
10.33	J15(5-5)	ENAMEL paint painting work over linseed oil in face brick wall	Sqm.	181.26
10.34	J16(13-5B)	One coat enamel painting work without primer coat in wooden surface.	Sqm.	104.07
10.35	J17(13-5BC)	Two coat enamel painting work without primer coat in wooden surface.	Sqm.	193.93
10.36	J18(13-5B)	One coat plastic emulsion painting work without primer coat.	Sqm.	125.94
10.37	J19(13-5BC)	Two coat plastic emulsion painting work without primer coat.	Sqm.	232.81
10.38	J20(13-6)	One coat aluminium painting work without primer coat in metal surface.	Sqm.	82.75
10.39	J21(13-6)	Two coat aluminium painting work without primer coat in metal surface.	Sqm.	168.77
10.40	J22(13-7)	One coat RED OXIDE painting work without primer coat	Sqm.	91.66
10.41	J23(13-7)	Two coat RED OXIDE painting work without primer coat	Sqm.	183.42
10.44	J26	Two coat washable distemper painting work over primer coat.	Sqm.	171.69

K-DAMP PROOFING WORK

11.01	K1(18-7)	20 mm thick D.P.C. work in cement sand mortar in 1:2 with W.P.Compound.	Sqm.	604.02
11.02	K2(18-8)	25 mm thick D.P.C. work in cement concrete in 1:1½:3 with W.P.Compound.	Sqm.	663.35
11.03	18-9	38 mm thick D.P.C. work in cement concrete in 1:2:4 with W.P.Compound.	Sqm.	813.59
11.05	K4(18-11)	500 gauge polythine sheet laying work	Sqm.	142.70
11.06	K5(18-12A)	One layer tarfelt laying work.	Sqm.	885.92
11.07	K5(18-12B)	Two layer tarfelt laying work.	Sqm.	1,367.53
11.08	K6(18-13A)	One layer damp proof grade tarfelt laying work.	Sqm.	1,081.78
11.09	K6(18-13B)	Two layer damp proof grade tarfelt laying work.	Sqm.	1,889.02
11.10	K7	Two coat elastocret cementious elastomeric water proofing work	Sqm.	850.00
11.11	K8(18-14)	One coat rain Crystallization seal paint or equivalent paint work.	Sqm.	135.10
11.12	0	Expansion Joint Works: - Chipping and laying thermocol in the hole, masking tape on the thermocol and plaster with mixing Perma Bond SBR or eqv. modified mortar up to 40 mm wide and levelling all complete.	Sqm.	6,931.60

L - MAINTAINANCE & DISMANTLING WORK

12.01	L1(19-1)	Dismantling work of mud masonry wall & removing of material upto 10 mtr lead.	Cum.	583.00
12.02	L2(19-2)	Dismantling work of cement masonry wall & removing of material upto 10 mtr lead.	Cum.	1,166.00
12.03	L3(19-3)	Dismantling work of R.C.C. / R.B.C. & removing of material upto 10 mtr lead.	Cum.	6,050.00
12.04	L4(19-4)	Dismantling work of P.C.C. / L.C.C. & removing of material upto 10 mtr lead.	Cum.	2,200.00
12.05	L5(19-5)	Dismantling work of cement sand / lime surkhee plaster & removing of material upto 10 mtr lead.	Sqm.	59.40
12.06	L6(19-6)	Dismantling work of tile roof & removing of all material wood, tile upto 10 mtr lead.	Sqm.	91.80
12.07	L7	Wood preservative paint painting work	Sqm.	319.48
12.08	L11	Clearance work of old existing marble floor with Oxalic acid & carborendum stone	Sqm..	212.48
12.09	L12	Clearance work of old existing parket & polishing work	Sqm..	185.62
12.10	L13	Clearance work of old existing mosaic floor with Oxalic acid , main polish , terpantain oil & carborendum stone	Sqm..	236.01
12.11	L14(A)	Clearance work of brick from mud masonry wall & stacking of brick for re-used	Nos.	2.39

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SUMMARY OF RATE ANALYSIS, CIVIL

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2076/2077

12.12	L14(C)	Clearance work of brick from cement masonry wall & stacking of brick for re-used	Nos.	4.08
12.13	L15(B)	Clearance work of stone from cement masonry wall & stacking of stone for re-used	Cum.	866.25
12.13a		Clearance work of stone from mud masonry wall & stacking of stone for re-used	Cum.	704.01
12.14	L19(A)	Dismantling work of R. C. C. barbed wire fencing work with earthwork excavation filling & leveling	Sqm.	247.50
12.15	L19(B)	Dismantling work of IRON. barbed wire fencing work with earthwork excavation filling & leveling	Sqm.	231.00
12.16	L19(C)	Dismantling work of WOODEN. barbed wire fencing work with earthwork excavation filling & leveling	Sqm.	220.00
12.17	L19(C)	Dismantling work of M.S. bar from R.C.C./R.B.C. & stacking upto 10 mtr.	Sqm.	747.50
12.18	L21	Dismantling work of Gavian work	Sqm.	880.50
12.19	L22	Dismantling work of cgi sheet roof & removing of all material wood, cgi sheet upto 10 mtr lead.	Sqm.	45.62

M- IRON WORK

13.01	M1(24-1A)	3 x 20mm Metal Grill including manufacturing, fitting, painting with Aluminium paint, sand papering all complete	Sqm.	2,322.15
13.02	M2(24-1B)	4 x 20mm Metal Grill including manufacturing, fitting, painting with Aluminium paint, sand papering all complete	Sqm.	3,328.41
13.03	M3	12x12 mm solid core square rod M. S. grill with 4 x 20mm Metal frame	Sqm.	2,583.95
13.04	M4	Fabricating, supplying & fixing of different size M.S. angle	Kg.	161.39
13.05	M5	Spiral stair case with 4" medium post, 3*20 mm sheet, 32 mm handrail all complete	kg	160.00
13.06	M6(24-2)	Providing & fixing MS folded sheet rolling shutters with iron clamps, spring and axle of good quality finish with one coat red-oxide paint on shutter and oiling on spring and axle.	Sqm.	3,947.93
13.07	M7(24-4)	Collapsible shutter including manufacturing, welding, supply of material, painting and fixing	Sqm.	5,600.00
13.08	M8(24-3)	Providing and fixing MS gate as per drawing with 50 mm X 50 mm X 3 mm MS angle, 25 mm X 25 mm MS square pipe, 16 gauge MS flat sheet, 12 mm X 3 mm MS flat, ready made pivot hing welded to 175 mm long angle hold fast embedded in concrete and iron locking arrangement over one coat primer.	Sqm.	5,918.35
13.09	M8(24-3)	Providing and fixing MS gate as per drawing with 50 mm X 50 mm X 3 mm MS angle, 25 mm X 25 mm MS square pipe, ready made pivot hing welded to 175 mm long angle hold fast embedded in concrete and iron locking arrangement over one coat primer.	Sqm.	4,794.00
13.10	M9(24-6)	Supplying and fixing of Barbed wire 14 gauge including hooks, nails etc	Rmtr.	138.50
13.11	M10(24-7)	Supplying and fixing of Barbed wire 12 gauge including hooks, nails etc 5 H+2D with 75x100 mm sal wood 2100 mm long.	Rmtr.	2,049.33
13.12	M11	Fabricating, supplying & fixing of different size M.S. black pipe Truss with metal primer	Kg.	194.69
13.13	M12	Supplying & fixing work of 50 mm Ø MS black pipe @ 2.0 mtr with 10 S.W.G. I. Chain Link 2"x2" mesh size fixing in 4x20x20 mm & 4x25x25 mm ms angle frame & top 3x20 mm MS grill 15 cm height with primer coat..	Sqm.	5,613.84
13.14	M13	Supplying & fixing work of 50 mm Ø MS black pipe @ 2.0 mtr with 7 mm Ø TMT bar mesh 62x62 mm size 4x25x25 mm ms angle frame & top 3x20 mm MS grill 15 cm height with primer coat..	Sqm.	2,686.48
13.15	M14	900 mm height stainless steel staircase railing work	Rmtr.	6,888.00

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13.16	M15	Supplying & fixing work of 38 mm Ø stainless steel pipe post @ 2.0 mtr , 8 mm Ø stainless steel pipe hand rail with two rows 25 mm Ø stainless steel pipe in between ground & hand rail.	Sqm.	3,093.90
13.17	M16	Supplying & fixing work of 150x150 mm size sisham wood ornamental post , 75x75 mm size bluster with 75x100 mm hand rail.	Sqm.	-
13.18	M17	Hand rail 2.5"x5" size sisham wood supplying & fixing work	Rmtr.	10,376.10
13.19	M18	Supplying & fixing work of 20x20 mm square pipe railing two nos. every trade 900 to 1000 mm height with 3"x4" sisham wood hand rail	Rmtr.	2,490.49
13.20	M19	Supplying & fixing work of 20x20 mm square pipe railing two nos. every trade 900 to 1000 mm height with 40 mm MS black pipe hand rail	Rmtr.	1,716.04
N- HEAVY EQUIPMENT RATE				
14.01		(1) Difficult excavating (hard rock)	Cum	246.64
14.02		(2) Rather Difficult excavating (medium/Soft rock)	Cum	120.36
14.03		(3) Average excavating (Hard soil)	Cum	67.78
14.04		(4) Average excavating (Soft soil)	Cum	45.91
O- HOE RATE				
15.01		(3) Average excavating (Hard soil)	Cum	68.78
15.02		(4) Average excavating (Soft soil)	Cum	46.31
P-CEILLING WORK				
16.01		False ceiling by Gypsum ,Gypsum Board : 12mm	Sqm.	942.65
16.02		ASO Joint Tape laying Work.	Rm	-
Q-GRAVELLING WORK				
17.01		Laying sub - base course of sand mixed gravel including loading & transporting materials sprinkling water levelling surface & hauling up to 10 m distance.	Cum	1,319.11
R-GABION R.R. FILLING WORK				
18.01		Filling Stone in gabion boxes or packing work	Cum	2,960.02
S-GABION WIRE CUTTING & NETTING				
		Making gabion incl cutting wire netting etc complete Hexagonal mesh size=80 mm x100 mm mesh wire-10 swg,salvege wire 8 swg	Cum	
19.01		box size 2mx1mx1m	Nos.	547.50
19.02		box size 3mx1mx1m	Nos.	766.50
19.03		box size 2mx1mx.50m	Nos.	383.25
19.04		box size 3mx1mx.50m	Nos.	547.50
T-GABION PROCUREMENT WORK				
20.01		box size 2 mx1mx1m	Nos.	3,770.01
20.02		box size 3 mx1mx1m	Nos.	5,414.34
20.03		box size 2 mx1mx.50m	Nos.	2,623.66
20.04		box size 3 mx1mx.50m	Nos.	3,788.18

Haleshi Tuwachung Municipality
Office of the Municipal Executive
Durchhim, Khotang

Survey Norms Of Rural Road For Hilly Area

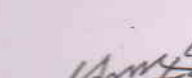
Project Name:-Haleshi Tuwachung Municipality Area

FY :2076/077

For Survey

Unit : Per Km

S.no.	Description	Labour required (Person days)	Rate (NRs)	Amount (NRs)	Remarks
1	Engineer	2.50	1071	2677.5	
	* Provides leader ship to the team				
	* Visualise the task				
	* Identify the steps of survey work and organise.				
	* Carries out the survey work by using the required survey equipments.				
	*Overall management of the survey task.				
	* Environment survey.				
2	Sub Engineer/Surveyor	4	824.00	3296.00	
	* Supervisor the preparatory work such as clearing the area of survey.				
	* Assists the Engineer in every matter that is necessary				
	*Environment survey.				
3	Assistant Sub-Engineer/Survey Assistant	4	775.00	3100.00	
	* Carries out the survey work by taking bearings and levels.				
	Maintains proper recordings of the survey details.				
	* Establishment of benchmarks.				
4	Staff man	6	550.00	3300.00	
	* Hold level staff.				
	*erect ranging rods.				
5	Tape/Chain man	6	550.00	3300.00	
	*Measures distances by tape/chain.				
6	Pegging work	12	550.00	6600.00	
	* Clearing off the bushes and obstacles as.				
7	Porters/Camp workers.	8	550.00	4400.00	
	* Carry and shift the survey equipment.				
	Sub -Total Of (I)			26673.50	
II					
8	Pegs, hammers, nails, tools and ropes etc. (10% of Sub Total)			2667.35	
9	Stationary, caps, shoes, umbrellas, camping and survey equipment etc.(25% of Sub Total)			6668.38	
10	Sundries (lumpsum at the rate of 5%of the sub total			1333.68	
	Sub Total Of II			10669.41	
	Grand Total (I+II) Per Km.Rs-			37342.91	

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Approved by:  प्रशासकिय अधिकारी

नगर प्रमुख

Haleshi Tuwaching Municipality

Office of the Municipal Executive
Durbhim, Khotang

Price List Of HDPE Pipe

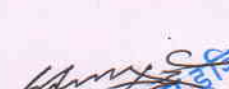
F.Y. : 076/77

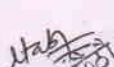


S.No.	Pipe size (Outer side Ø mm)	Series II 2.5Kg/sqcm		Series III 4Kg/sqcm		Series IV 6Kg/sqcm		Series V 10Kg/sqcm	
		Ave.Wt. kg/m	Price Rs./m	Ave.Wt. kg/m	Price Rs./m	Ave.Wt. kg/m	Price Rs./m	Ave.Wt. kg/m	Price Rs./m
1	16mm	-	-	-	-	-	-	0.092	32.44
2	20mm	-	-	-	-	-	-	0.134	47.24
3	25mm	-	-	-	-	-	-	0.202	71.22
4	32mm	-	-	-	-	0.226	79.68	0.334	117.76
5	40mm	-	-	0.251	88.49	0.350	123.40	0.514	181.22
6	50mm	-	-	0.378	133.27	0.542	191.09	0.796	280.64
7	63mm	0.403	142.08	0.585	206.25	0.850	299.68	1.269	447.40
8	75mm	0.557	196.38	0.846	298.27	1.191	419.90	1.782	628.26
9	90mm	0.799	281.70	1.220	430.12	1.715	604.64	2.568	905.37
10	110mm	1.185	417.78	1.703	600.41	2.545	897.27	3.801	1340.08
11	125mm	1.530	539.42	2.289	807.01	3.293	1160.98	4.962	1749.40
12	140mm	1.897	668.81	2.901	1022.78	4.150	1463.12	6.209	2189.05
13	160mm	2.453	864.83	3.773	1330.21	5.355	1887.96	8.079	2848.33
14	180mm	3.148	1109.86	4.762	1678.89	6.800	2397.41	10.256	3615.86
15	200mm	3.876	1366.52	5.890	2076.58	8.391	2958.33	12.620	4449.31
16	225mm	4.822	1700.04	7.445	2624.81	10.544	3717.39	16.014	5645.90
17	250mm	6.012	2119.59	9.187	3238.97	13.041	4597.73	19.757	6965.53
18	280mm	7.417	2614.94	11.455	4038.57	16.327	5756.25	24.708	8711.05
19	315mm	9.417	3320.06	14.508	5114.94	20.694	7295.88	31.160	10985.77
20	355mm	11.957	4215.56	18.382	6480.76	26.243	9252.23	39.635	13973.72
21	400mm	15.221	5366.32	23.343	8229.81	33.309	11743.42	50.344	17749.28

Notes :

- Prices are based on ex-factory.
- The above value include all GOV. Taxes except VAT which will be charged extra 13 %
- All pipes are manufactured as NS-40
- Rate of HDPE Pipes Based on Rs. 300.00 Per Kg.
- Add 3% Transportation Charge.

Prepared by: 
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प्रमुख प्रशासकिय अधिकारी