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ROYAL GOVERNMENT OF BHUTAN

MINISTRY OF WORKS AND HUMAN SETTLEMENT

DEPARTMENT OF ENGINEERING SERVICES

“Construction Industry: Solutions through innovation and improved technology”

BHUTAN SCHEDULE OF RATES - 2018

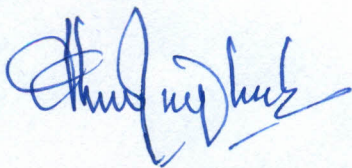
CIVIL

Foreword

The Department of Engineering Services have revised and updated the Bhutan Schedule of Rate (BSR)-2017 for civil works. Attempts have been made to include as many items as possible that are being used in construction works. However, due to complex nature of construction, covering every single item is not possible.

The basic material rates are based on market prices collected from vendors at four base towns of Thimphu, Phuentsholing, Gelephu and Samdrup Jongkhar. These rates have been applied while analyzing and developing Built-Up item rates. Labour and Material Coefficients have been used for the purpose of analysis. All items of work prescribed in BSR-2018 should be read and understood in conjunction with Specifications for Building and Road Works. Only when items are executed as per the Specifications for Building and Road Works, this schedule of rates is applicable.

The users are encouraged to send comments and suggestions to the Department for making productive reforms in the schedule. As many new developments in construction is taking place in terms of material use, construction technology and engineering practices, it is only through collective efforts of people involved construction industry that more relevant schedule of rates can be developed.



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Department of Engineering Services
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Date: 12/03/2018

Disclaimer

The BSR (both Civil and Electrical) -2018 is prepared and published primarily as a tool to assist in the estimation of project costs. Due to difficulty in obtaining comprehensive and accurate rates from base towns, and the associated complexity in their analysis, the BSR reflects only suggestive averages and not accurate current market rates. Material and labour rates also fluctuate frequently, and by the time of the publication of this book, many rates would have already changed. Hence users are advised to refrain from using the BSR for the purposes of *filling tenders, evaluating tenders, awarding works and/or making contractual payments*. The publisher is in no way accountable or answerable for any issues/disputes arising as a result of individuals or agencies using the rates in the BSR -2018 as a basis for filling their tenders, evaluating tenders, awarding works and/or making contractual payments.

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Preface

1. Bhutan Schedule of Rates - 2018 is the revised edition of Bhutan Schedule of Rates - 2017.
2. The rates shown for all the built - up items are for up to 10 Km radius and is inclusive of:
 - 5% for hand tools & equipments and machinery & material wastages
 - 1 % for water charges
 - 10% for overhead charges
3. The built up item rates are based on "Labour and Material Coefficients 2017" with the applicable percentages given above.
4. The schedule is designed primarily as a tool for estimation of construction projects only and not for payment to contractors (unless stated so in the tender document) or filling up tenders.
5. This Schedule will be read along with the " Specifications for Building and Road works " and the "Labour and Materials Coefficients - 2017"
6. Hire charges for plants and machinery are based on the basic rates provided by the Construction Development Corporation Limited, Thimphu.
7. Calculation of cost indices has been detailed and few samples are provided on calculation of cost indices.
8. List of approved brands are reviewed from time to time. For latest list available please refer to Bhutan Standard Bureau web site www.bsb.gov.bt
9. Material Rates used in BSR-2018 are collected during the period January 2018– February 2018. Users are suggested to update rates accordingly with the prevailing market rates.
10. BSR contains only the commonly used items, the new items may be workout and analyzed by the engineers as may be relevant.

CONTENTS

Section 1 – BASIC RATES

Description	Page
Labour	1
Bitumen Products, Chemicals and Blasting Materials	3
Quarry and Forest Products	3
Bricks	5
Cement and Concrete Materials	5
Steel and Other Metals	5
Roofing Materials	7
Carpentry and Joinery Materials	7
Doors, Windows and Hardware	9
Tiles and Glass Materials	12
Plastering Materials	12
Paint and Wall Paper Materials	12
Drainage Materials	13
Plumbing (Pipe Work)	15
Plumbing (Sanitary Installations, Fittings and Accessories)	22
Machinery and Plant Hire Charges	27

Section 2 – MECHANICAL TRANSPORTATION RATES

Description	Page
Hill Roads	33
Plain Roads	34

Section 3 – BUILT UP RATES

Sl. No	Description	Page
01	Dismantling and Demolition	37
02	Clearing and Grubbing	41
03	Earthwork	42
04	Drainage	46
05	Mortars	49
06	Concrete Works	50
07	Damp Proofing	52
08	Reinforced Concrete	53
09	Brick Work	58
10	Stone/Mud	62
11	Wood Work	66
12	Steel	78
13	Flooring	81
14	Tiling – Wall and Floor	85
15	Roofing	86
16	Plumbing – Indoor Work	90
17	Plumbing – Outdoor Work	96
18	Plastering	106
19	Painting and Wall Paper	109
20	Additions, Alterations and Repairs	112
21	Road Works	113
Section 4 - SAMPLE COST INDICES		126-129
Section 5 - QUICK COST GUIDE		130-133

SECTION – 1

Basic Rates of Materials, Labour and Hire Charges of Plants and Equipments

Code	Description	Category	Units	PL	GP	SJ	Th
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Chapter 1: BASIC RATES - LABOUR

Bhutanese National Labour

LB0001	Category 1	LB	day	324.00	324.00	324.00	324.00
LB0002	Category 2	LB	day	286.00	286.00	286.00	286.00
LB0003	Category 3	LB	day	254.00	254.00	254.00	254.00
LB0004	Category 4	LB	day	234.00	234.00	234.00	234.00
LB0005	Category 5 (Male)	LB	day	215.00	215.00	215.00	215.00
LB0006	Category 5 (Female)	LB	day	215.00	215.00	215.00	215.00

Statutory-On-Cost Allowances

LB0010	Workers Compensation premium	LB	year	360.00	360.00	360.00	360.00
LB0011	Temporary site accommodation	LB	year	660.00	660.00	660.00	660.00
LB0012	Transportation to-&-from site	LB	year	400.00	400.00	400.00	400.00
LB0013	Dependency allowance	LB	year	180.00	180.00	180.00	180.00
LB0014	Leading-hand allowance	LB	day	10.00	10.00	10.00	10.00
LB0015	Recruitment agency fee	LB	year	50.00	50.00	50.00	50.00
LB0016	Incentive payment	LB	year	450.00	450.00	450.00	450.00

Built-up Trade Rates

Category 1

LB0020	Auto-Mechanic Gd.1	LB	day	350.47	350.47	350.47	350.47
LB0021	Carpenter Gd.1	LB	day	350.47	350.47	350.47	350.47
LB0022	General Mechanic Gd.1	LB	day	350.47	350.47	350.47	350.47
LB0023	Lharib	LB	day	350.47	350.47	350.47	350.47
LB0024	Lineman Gd.1	LB	day	350.47	350.47	350.47	350.47
LB0025	Plant Operator Gd.1	LB	day	350.47	350.47	350.47	350.47

Category 2

LB0030	Auto-Electrician Gd.1	LB	day	309.82	309.82	309.82	309.82
LB0031	Auto-Mechanic Gd.2	LB	day	309.82	309.82	309.82	309.82
LB0032	Blacksmith (metal-worker)	LB	day	309.82	309.82	309.82	309.82
LB0033	Carpenter Gd.2	LB	day	309.82	309.82	309.82	309.82
LB0034	General Mechanic Gd.2	LB	day	309.82	309.82	309.82	309.82
LB0035	Lineman Gd.2	LB	day	309.82	309.82	309.82	309.82
LB0036	Mason Gd.1	LB	day	309.82	309.82	309.82	309.82
LB0037	Plant Operator Gd.2	LB	day	309.82	309.82	309.82	309.82
LB0038	Plumber Gd.1	LB	day	309.82	309.82	309.82	309.82
LB0039	Work Supervisor (Lajab)	LB	day	309.82	309.82	309.82	309.82

Category 3

LB0045	Auto-Electrician Gd.2	LB	day	275.64	275.64	275.64	275.64
LB0046	Auto-Mechanic Gd.3	LB	day	275.64	275.64	275.64	275.64
LB0047	Blaster	LB	day	275.64	275.64	275.64	275.64
LB0048	Carpenter Gd.3	LB	day	275.64	275.64	275.64	275.64
LB0049	General Mechanic Gd.3	LB	day	275.64	275.64	275.64	275.64
LB0050	Lineman Gd.3	LB	day	275.64	275.64	275.64	275.64
LB0051	Mason Gd.2	LB	day	275.64	275.64	275.64	275.64
LB0052	Painter Gd.1	LB	day	275.64	275.64	275.64	275.64
LB0053	Plant Operator Gd.3	LB	day	275.64	275.64	275.64	275.64
LB0054	Plumber Gd.2	LB	day	275.64	275.64	275.64	275.64
LB0055	Sawyer Gd.1	LB	day	275.64	275.64	275.64	275.64
LB0056	Wireman Gd.1	LB	day	275.64	275.64	275.64	275.64

Code	Description	Category	Units	PL	GP	SJ	Th
Category 4							
LB0065	Cleaner	LB	day	254.29	254.29	254.29	254.29
LB0066	Machine Operator	LB	day	254.29	254.29	254.29	254.29
LB0067	Painter Gd.2	LB	day	254.29	254.29	254.29	254.29
LB0068	Sawyer Gd.2	LB	day	254.29	254.29	254.29	254.29
LB0069	Wireman Gd.2	LB	day	254.29	254.29	254.29	254.29
Category 5							
LB0075	Labourer (Male)	LB	day	232.93	232.93	232.93	232.93
LB0076	Labourer (Female)	LB	day	232.93	232.93	232.93	232.93
Labour (Market Rate)							
LB0077	Labour	LB	day	232.93	232.93	232.93	232.93

Note: The above rates are calculated to comply with the Ministry of Labour and Human Resources Wage Regulations, revised from 9th September 2015

Code	Description	Units	PL	GP	S/J	TH
BASIC RATES - BITUMEN PRODUCTS, CHEMICALS & BLASTING MATERIALS						
Bitumen materials						
MT0001	Bitumen 80\100	tonne	28991.70	28991.70	28991.70	28991.70
MT0002	Bitumen Emulsion	tonne	32232.00	32232.00	32232.00	32232.00
Bitumen felt Type 3						
MT0005	Grade 1	sq.m	350.00	350.00	350.00	350.00
MT0006	Grade 2	sq.m	280.00	280.00	280.00	280.00
Sealing Compounds						
MT0010	Hot sealing compound Grade A	kg	48.33	48.33	48.33	48.33
MT0011	Bitumen Solution primer	litre	60.93	60.93	60.93	60.93
Joint-filler						
MT0015	Pre-moulded bitumen impregnated fibre board, 12mm thick (IS: 1838 or equivalent)	sq.m	677.64	677.64	677.64	677.64
Blasting materials						
MT0020	Super dyne / Gelatine	kg	80.33	80.00	80.00	80.00
MT0021	Fuse Coil	each	66.33	67.00	67.00	67.00
MT0022	Detonator	each	5.98	5.96	5.96	5.96
MT0023	Drill rod - 8' - 0"	each	6500.00	6500.00	6500.00	6500.00
MT0024	Silent Blaster	kg	337.00	341.70	370.85	348.53
MT0025	Drill rod - 5' - 0"	each	4615.00	4615.00	4615.00	4615.00
MT0026	Drill rod - 3' - 0"	each	3515.00	3515.00	3515.00	3515.00
Chemicals						
MT0030	Aldrin Emulsifiable Concentrate 30% (for anti-termite treatment)	litre	284.58	304.98	305.88	308.88
Fuels						
MT0035	Kerosene	litre	13.86	14.77	15.30	19.50
MT0036	Diesel	litre	48.57	45.23	45.61	50.57
MT0037	Petrol	litre	53.93	49.63	50.06	56.36
BASIC RATES - QUARRY & FOREST PRODUCTS						
MT0040	Firewood (stacked volume)	cu.m	524.94	653.09	700.10	879.21
MT0041	Royalty for earth, mud, boulder, sand & gravel	truck	51.00	50.33	53.55	50.00
MT0042	Mud dry	cu.m	86.39	84.70	88.98	87.72
MT0043	Sand	cu.m	337.03	337.03	593.11	733.03
MT0044	Hay/husk	kg	67.88	67.55	68.90	68.90
MT0045	Straw, girth <100mm	bundle	12.34	13.10	13.36	13.26
MT0046	Cuttings	each	0.13	0.13	0.13	0.14
MT0047	Seedlings	each	6.12	7.00	7.14	6.63
MT0048	Grass Slips	each	0.09	0.09	0.09	0.09
MT0049	Natural Grass Turf	Sq.m	33.32	33.67	34.34	34.34

Code	Description	Units	PL	GP	S/J	TH
Stone						
MT0060	Boulder	cu.m	861.81	950.00	880.00	1049.85
Crushed Rock						
MT0064	100mm	cu.m	910.86	829.21	873.63	1019.94
MT0065	75mm	cu.m	910.86	829.21	914.72	1019.94
MT0066	63mm	cu.m	910.86	829.21	928.20	1019.94
MT0067	50mm	cu.m	910.86	829.21	948.60	1019.94
MT0068	40mm	cu.m	952.56	821.24	972.55	1019.94
MT0069	25mm	cu.m	1056.42	919.70	1080.61	1101.93
MT0070	20mm	cu.m	1058.40	919.70	1170.55	1101.93
MT0071	12.5 - 6mm	cu.m	1023.12	935.50	1125.68	1060.95
Gravel\Shingles (River stone)						
MT0080	40mm to 20mm	cu.m	408.00	438.60	466.10	461.04
MT0081	20mm to 10mm	cu.m	525.30	548.76	559.74	552.84
Marble Items						
Marble Chips 6mm						
MT0085	Black or White	tonne	5980.00	7905.00	5600.00	7984.84
MT0086	Coloured	tonne	5980.00	6375.00	5600.00	8169.07
Marble Slab 20mm						
MT0090	Black	sq.m	1756.50	1320.09	1009.75	1315.60
MT0091	White	sq.m	1178.00	1320.09	1320.09	1310.58
MT0092	Black and White	sq.m	850.00	1346.89	1346.89	1379.62
MT0093	Coloured	sq.m	1448.20	1315.46	1479.00	1515.63
Marble Slab 40mm						
MT0100	Black	sq.m	1625.00	1359.28	1359.28	2526.78
MT0101	White	sq.m	1452.42	1359.28	1359.28	2526.73
MT0102	Black and White	sq.m	1452.42	1439.66	1439.66	2716.97
MT0103	Coloured	sq.m	1647.08	1482.57	1482.57	3120.98
Kota Stone Slab						
MT0110	20mm	sq.m	663.00	1456.56	1456.56	1147.46
MT0111	40mm	sq.m	1506.00	2278.48	2278.48	2116.50
Granite stone slab						
MT0114	Granite slab-18mm	sq.m	4025.00	4025.00	4025.00	4025.00
MT0115	Granite slab-20mm	sq.m	3450.00	3450.00	3450.00	3450.00
Lime						
MT0120	Slaked lime	kg	19.50	27.54	36.07	39.00
MT0121	Unslaked lime	kg	15.50	35.17	24.93	34.17
Others						
MT0122	Sealed Bag	each	99.65	101.44	101.44	102.44

Code	Description	Units	PL	GP	S/J	TH
BASIC RATES - BRICK						
Brick materials						
MT0125	Bricks 2nd class	1000#	9350.00	8696.00	8000.00	14166.67
MT0126	Brick aggregate	cu.m	2051.60	1989.00	2080.80	2305.20
MT0127	Graded brick aggregate	cu.m	2071.64	2029.80	1874.25	2417.40
MT0128	Interlocking cement earth block (300mmX150mmX100mm)	1000#	27354.60	30243.00	35224.00	22950.00
MT0129	Interlocking cement earth block (250mmX125mmX100mm)	1000#	15731.40	17289.00	19584.00	14280.00
MT0130	Concrete block bricks - Hollow Block 390 x 190 x 190mm	1000#	45000.00	40000.00	45000.00	45000.00
MT0131	Concrete block bricks - Solid Brick 240 x 115 x 80mm	1000#	12000.00	12000.00	8250.00	12000.00
MT0132	Concrete block bricks - Porous brick 230 x 110 x 70mm	1000#	11500.00	8500.00	8100.00	7500.00
MT0133	Concrete block bricks - Partition Hollow Brick 390 x 190 x 90mm	1000#	34000.00	34000.00	34000.00	35000.00
BASIC RATES - CEMENT & CONCRETE MATERIALS						
Cement						
MT0145	Cement (OPC/PSC)	tonne	5836.00	6463.35	6388.60	7323.20
MT0146	White Cement	tonne	27104.45	31183.95	30000.00	35000.00
Additives & Admixtures						
MT0150	Red Oxide Pigment/other pigments	kg	167.00	173.40	130.00	180.00
MT0151	Water proofing compound	kg	110.60	95.35	130.00	130.00
MT0152	Floor Hardener (metallic)	kg	91.98	63.04	62.42	142.80
Underlay for Slabs						
Plastic Sheet						
MT0155	50 micro-metre	sq.m	21.00	64.23	43.40	75.00
MT0156	100 micro-metre	sq.m	29.00	75.01	52.96	65.00
MT0157	200 micro-metre	sq.m	67.00	105.21	70.11	55.00
BASIC RATES - STEEL & OTHER METAL MATERIALS						
Aluminium Materials						
MT0160	Aluminium Fluted Strips 3.15mm thick 150mm wide	m	364.14	357.00	353.74	391.35
MT0161	Aluminium Strip 40x1.6mm	m	98.84	106.59	98.84	169.32
Anodised Aluminium Section for doors, windows						
MT0165	Sliding, open able and pivoted windows	kg	396.27	489.60	369.34	399.23
MT0166	Sliding and openable doors	kg	396.27	489.60	369.34	399.23
MT0167	Partitions framing	kg	396.27	489.60	369.34	399.23
MT0168	False ceiling framing	kg	396.27	489.60	369.34	399.23
Aluminium Strip Edging						
MT0175	57mmx12mmx1.6mm	m	108.07	96.23	98.32	240.72
MT0176	38mmx12mmx1.6mm	m	93.44	75.06	74.18	176.73
Steel Materials						
Rolled sections (250 MPa)						
MT0180	Angles	kg	56.50	86.70	62.52	90.00
MT0181	Channels	kg	56.50	94.35	66.06	90.00
MT0182	Flats	kg	54.00	86.70	63.56	90.00
MT0183	Joists	kg	54.00	94.35	79.35	95.00
MT0184	Plates	kg	60.00	94.35	81.72	95.00

Code	Description	Units	PL	GP	S/J	TH
Sheet (250 MPa)						
MT0190	1mm	kg	62.00	79.05	86.70	150.00
MT0191	2mm	kg	62.00	79.05	86.70	150.00
MT0192	2.8mm	kg	61.00	79.05	86.70	150.00
MT0193	3.5mm	kg	61.00	79.05	86.70	150.00
Mild steel Strips						
MT0194	1830mm X 230mm X 3mm	kg	78.00	71.44	70.75	79.83
Welded Tube (250 MPa)						
MT0200	50mm dia	m	273.00	263.22	275.71	315.00
MT0201	40mm dia	m	179.00	182.07	185.19	285.00
Reinforcing Bars & Mesh						
Thermo - Mechanically Treated (TMT) bars (yield strength 500 MPa)						
MT0208		kg	48.00	47.55	46.78	52.50
Welded Mesh						
MT0215	75mmx25mm	sq.m	218.00	209.62	319.95	327.60
MT0216	Expanded Metal (19mm x 3mm x 16 gauge)	sq.m	296.36	233.77	212.50	320.70
Fasteners						
MT0220	M.S. Rivets	kg	100.57	74.59	89.30	132.60
MT0221	M.S. Bolts & Nuts, Screws etc	kg	97.00	109.32	96.51	120.00
Fencing Wire Products						
MT0225	Barbed Wire	m	12.50	16.83	16.00	13.22
G.I double knotted mesh						
MT0230	100 x 100 x 8-gauge	sq.m	218.48	277.95	288.92	347.50
MT0231	100 x 100 x 12-gauge	sq.m	217.11	228.33	257.40	295.00
MT0232	150 x 150 x 8-gauge	sq.m	203.49	184.88	288.92	340.00
MT0233	150 x 150 x 12-gauge	sq.m	176.72	164.48	199.61	290.00
G.I chain-link mesh						
MT0240	100 x 100 x 8-gauge	sq.m	218.00	267.78	340.84	528.30
MT0241	100 x 100 x 12-gauge	sq.m	178.00	261.80	345.53	478.30
MT0242	75 x 75 x 8-gauge	sq.m	247.00	278.80	359.69	528.30
MT0243	75 x 75 x 12-gauge	sq.m	179.00	266.90	355.61	478.30
MT0244	50 x 50 x 8-gauge	sq.m	319.00	375.03	359.69	528.30
MT0245	50 x 50 x 12-gauge	sq.m	180.00	359.73	373.97	478.30
Galvanised Iron						
MT0250	Plain G.I Sheet, 24-gauge (0.63mm)	tonne	62643.67	62524.70	63562.13	76296.00
MT0252	Pre Painted Galvanised Steel sheets 25g (0.50mm)	tonne	88762.22	86714.50	89954.40	92602.30
Wires						
MT0256	GI wires (assorted diameters)	kg	75.00	108.04	83.85	120.00
Stainless steel railings						
MT0259	Stainless steel (grade 304) Hollow section round/square tubes	kg	640.00	640.00	640.00	640.00
MT0260	Stainless steel bolts/square bar and plates	kg	620.00	620.00	620.00	620.00

Code	Description	Units	PL	GP	S/J	TH
BASIC RATES - ROOFING MATERIALS						
MT0275	Corrugated Galvanised Iron Sheets 24G (0.63mm)	tonne	71746.53	71385.86	72250.00	79243.66
MT0278	Pre Painted Galvanised Steel Corrugated Roofing Sheets 24g	tonne	101061.75	103603.43	104599.20	112760.15
Fibreglass						
MT0280	Reinforced polyester transparent sheets - 1.2mm, corrugated	sq.m	1258.88	1258.88	1258.88	1591.20
Roofing Slate						
MT0285	600mm x 300mm	each	27.97	28.51	27.69	33.62
Concrete Roofing Tiles						
Plain Pantile / Roman II 500mm x 250mm concrete tiles						
MT0290	6mm	each	14.66	14.26	13.98	14.28
MT0291	8mm	each	16.85	16.85	16.52	17.34
MT0292	10mm	each	17.50	17.50	17.17	18.16
Coloured Pantile / Roman II 500mm x 250mm concrete tiles						
MT0295	6mm	each	17.80	18.15	17.80	19.80
MT0296	8mm	each	18.44	18.80	18.44	20.31
MT0297	10mm	each	19.44	19.44	19.06	20.40
Super Roman 600mm x 330mm x 10mm concrete tiles						
MT0300	Plain	each	33.05	33.69	33.05	35.19
MT0301	Coloured	each	36.86	37.58	36.86	39.27
Semi-sheet 600mm x 600mm x 8mm concrete tiles						
MT0305	Plain	each	571.50	780.00	780.00	850.00
MT0306	Coloured	each	720.00	890.00	850.00	965.00
Hip/Ridge, 600mm						
MT0310	Plain	each	478.00	550.00	550.00	650.00
MT0311	Coloured	each	1135.00	1150.00	1150.00	1250.00
Shinglep roofing						
MT0315	1500mm (approx.)	pair	53.00	53.55	52.53	52.53
Red Mud Plastic Sheet						
MT0320	Red mud plastic corrugated sheet, 1.5mm	sq.m	337.00	352.49	345.77	348.84
MT0321	Red mud plastic plain sheet, 1.3mm	m	317.00	259.18	254.25	267.24
BASIC RATES - CARPENTRY & JOINERY MATERIALS						
Timber						
MT0325	Ballies 75 to 125mm dia	m	30.43	29.80	31.68	33.66
MT0326	Ballies 250 to 300mm dia	m	42.79	42.77	42.19	46.92
MT0327	Ballies 125 to 250mm dia	m	47.92	49.25	47.92	55.85
Rough-sawn timber (urban rate)						
MT0330	Class 'B', (Mixed Conifer)	cu.m	10826.37	10121.48	10506.38	10267.13
MT0331	Class 'A', (Blue pine, Champ)	cu.m	11064.51	10359.27	10747.70	10505.15
MT0332	Class 'A', (Broad Leaf) Teak, Sal	cu.m	11481.88	10672.91	11118.49	10839.23
MT0333	Class 'B', (Broad Leaf) Hollock	cu.m	11208.81	10400.19	10845.42	10566.25

Code	Description	Units	PL	GP	S/J	TH
Plywood						
MT0340	4mm, commercial ply	sq.m	144.00	113.20	115.45	212.62
MT0341	4mm, teak ply	sq.m	210.38	195.93	198.00	284.49
MT0342	6mm, commercial ply	sq.m	258.60	166.44	177.09	314.77
MT0343	12mm, commercial ply	sq.m	322.80	406.06	445.53	617.54
Gypsum Wallboard						
MT0345	10mm	sq.m	193.44	220.83	192.11	270.94
MT0346	12mm	sq.m	257.00	260.61	211.50	320.65
MT0347	15mm	sq.m	244.73	316.20	242.34	433.61
Bison panel, Pre-laminated (both sides)						
MT0350	6mm	sq.m	768.00	321.51	321.51	942.00
MT0351	8mm	sq.m	847.00	341.61	341.61	1035.00
MT0352	10mm	sq.m	926.00	388.38	388.38	1135.00
MT0353	12mm	sq.m	1027.00	424.25	424.25	1252.00
MT0354	16mm	sq.m	1270.00	517.41	517.41	2135.00
MT0355	20mm	sq.m	631.99	642.03	642.03	776.40
MT0356	25mm	sq.m	693.20	681.05	681.05	923.45
MT0357	30mm	sq.m	865.93	874.93	874.93	1081.50
Plain Particle Board						
MT0365	6mm	sq.m	313.00	418.40	437.70	415.61
MT0366	10mm	sq.m	507.11	582.76	589.56	622.01
MT0367	12mm	sq.m	638.50	835.89	765.00	772.00
MT0368	18mm	sq.m	610.00	1017.96	1019.75	807.00
MT0369	25mm	sq.m	1105.00	1229.10	1230.38	1212.37
MT0370	35mm	sq.m	1367.14	1481.04	1484.36	1491.24
Pre-laminated Particle Board (one side)						
MT0375	8mm	sq.m	455.00	478.58	492.66	624.49
MT0376	10mm	sq.m	638.01	591.99	609.40	850.00
MT0377	12mm	sq.m	535.00	676.26	696.15	788.12
MT0378	18mm	sq.m	774.00	884.34	910.35	884.34
Skylight panel						
MT0385	Translucent diffuser panel, for skylights etc	sq.m	730.63	743.89	756.43	884.34
Cane Products						
Bamboo						
MT0390	25mm dia	m	33.00	16.42	13.92	20.00
MT0391	75mm dia	m	33.00	25.25	18.21	30.00
MT0392	Mat	sq.m	74.97	77.01	96.39	96.90
MT0393	cane basket	each	297.21	289.17	289.17	310.00
Prefab. Pannelling						
Flooring						
MT0395	25mm, Mixed conifer	sq.m	630.70	433.69	437.95	416.85
MT0396	38mm, Blue pine	sq.m	748.68	619.56	625.64	595.50

Code	Description	Units	PL	GP	S/J	TH
Wall panelling						
MT0400	19mm, blue pine	sq.m	716.73	703.09	703.09	682.60
MT0401	15mm, blue pine	sq.m	631.91	619.87	619.87	601.82
MT0402	12mm, blue pine	sq.m	582.43	571.33	571.33	554.70
MT0403	19mm, mixed conifer	sq.m	626.75	614.82	614.82	596.90
MT0404	12mm, mixed conifer	sq.m	568.09	570.23	570.23	553.63
MT0405	12mm, Champ wood	sq.m	670.62	657.84	657.84	638.68
Wire Gauze						
MT0410	Galv. mild steel wire gauze, 85G (0.85mm average width of aperture), 0.56mm dia.	sq.m	214.20	220.63	214.71	234.60
BASIC RATES - DOORS, WINDOWS & HARDWARE						
Prefab. Timber Doors & Boards						
Flush Door, block board core, commercial ply veneer, U/F bonded						
MT0415	25mm	sq.m	1089.00	1155.66	1171.42	1109.69
MT0416	30mm	sq.m	1326.00	1313.98	1329.01	1208.13
MT0417	35mm	sq.m	1487.00	1531.36	1539.13	1408.75
MT0418	40mm	sq.m	1678.00	1582.47	1607.42	1606.50
Flush Door, block board core, teak ply veneer, U/F bonded						
MT0425	25mm	sq.m	1785.49	1754.50	1770.52	1576.80
MT0426	30mm	sq.m	2498.00	2080.34	2102.25	1745.60
MT0427	35mm	sq.m	2618.00	2300.81	2327.08	1876.30
MT0428	40mm	sq.m	2766.78	2573.97	2610.74	2268.40
Flush Door, block board core, ply veneer, chemically treated						
MT0435	25mm	sq.m	1265.82	1245.80	1279.77	1241.00
MT0436	30mm	sq.m	1937.00	1461.92	1501.78	1482.00
MT0437	35mm	sq.m	2086.00	1716.16	1762.96	1605.00
MT0438	40mm	sq.m	1826.06	1970.41	2024.14	1984.45
Panelled Door, with single lock rail						
MT0445	30mm, 12mm veneered particle board panel	sq.m	1574.53	1544.54	1544.54	1573.94
MT0446	35mm, 12mm veneered particle board panel	sq.m	1593.97	1563.61	1563.61	1593.37
MT0447	40mm, 12mm veneered particle board panel	sq.m	1606.93	1576.32	1576.32	1606.33
MT0448	30mm, 12mm plywood panel	sq.m	1153.37	1131.39	1131.39	1152.93
MT0449	35mm, 12mm plywood panel	sq.m	1167.61	1145.38	1145.38	1167.18
MT0450	40mm, 12mm plywood panel	sq.m	1251.85	1228.01	1228.01	1251.38
MT0451	30mm, 9mm plywood panel	sq.m	1131.33	1109.78	1109.78	1130.91
MT0452	35mm, 9mm plywood panel	sq.m	1142.99	1121.22	1121.22	1142.57
MT0453	40mm, 9mm plywood panel	sq.m	1150.76	1128.84	1128.84	1150.34
Panelled Door, with single lock rail & stile						
MT0465	30mm, 12mm veneered particle board panel	sq.m	1644.47	1597.93	1597.93	1628.35
MT0466	35mm, 12mm veneered particle board panel	sq.m	1649.71	1603.01	1603.01	1633.53
MT0467	40mm, 12mm veneered particle board panel	sq.m	1652.32	1605.56	1605.56	1636.12
MT0468	30mm, 12mm plywood panel	sq.m	1220.60	1186.06	1186.06	1208.63
MT0469	35mm, 12mm plywood panel	sq.m	1223.21	1188.60	1188.60	1211.22
MT0470	40mm, 12mm plywood panel	sq.m	1228.45	1193.69	1193.69	1216.41
MT0471	30mm, 9mm plywood panel	sq.m	1176.12	1142.83	1142.83	1164.59
MT0472	35mm, 9mm plywood panel	sq.m	1181.35	1147.92	1147.92	1169.77
MT0473	40mm, 9mm plywood panel	sq.m	1187.89	1154.27	1154.27	1176.25

Code	Description	Units	PL	GP	S/J	TH
Panelled Door, with double lock rail & stile						
MT0485	30mm, 12mm veneered particle board panel	sq.m	1677.82	1615.10	1615.10	1645.84
MT0486	35mm, 12mm veneered particle board panel	sq.m	1714.13	1650.05	1650.05	1681.46
MT0487	40mm, 12mm veneered particle board panel	sq.m	1718.09	1653.87	1653.87	1685.35
MT0488	30mm, 12mm plywood panel	sq.m	1249.62	1202.91	1202.91	1225.80
MT0489	35mm, 12mm plywood panel	sq.m	1252.26	1205.45	1205.45	1228.40
MT0490	40mm, 12mm plywood panel	sq.m	1259.84	1212.75	1212.75	1235.84
MT0491	30mm, 9mm plywood panel	sq.m	1202.08	1157.14	1157.14	1179.17
MT0492	35mm, 9mm plywood panel	sq.m	1210.01	1164.77	1164.77	1186.94
MT0493	40mm, 9mm plywood panel	sq.m	1220.56	1174.94	1174.94	1197.31
Prefab. fully glazed window shutters, incl. 75mm rail with preservative & one primer coat, excluding glass						
MT0505	30mm	sq.m	620.74	608.92	608.92	744.60
MT0506	35mm	sq.m	744.60	619.09	619.09	619.09
MT0507	40mm	sq.m	636.30	624.17	624.17	624.17
Steel Doors and Windows						
MT0510	Steel door with necessary hinges, lugs, glazing clips	sq.m	1224.63	1201.31	1201.31	1201.31
MT0511	Steel windows (fixed) with lugs and glazing clips	sq.m	388.77	381.37	381.37	381.37
MT0512	Steel windows (side hung) with hinges, lugs and glazing clips	sq.m	673.87	661.04	661.04	661.04
MT0513	Steel ventilators (top hung) with hinges, lugs and glazing clips.	sq.m	673.87	661.04	661.04	661.04
MT0514	Steel ventilators (centre hung) with pivots, lugs and glazing clips	sq.m	842.35	826.30	826.30	826.30
MT0515	Rolling shutters with all accessories, excluding top cover	sq.m	1145.58	1123.76	1123.76	1123.76
MT0516	Top cover for Rolling shutter	m	479.86	457.64	457.64	457.64
Aluminium						
Anodised Aluminium Fittings: Butt Hinges						
MT0530	100mm	each	35.00	46.18	49.82	45.00
MT0531	75mm	each	32.00	39.18	32.69	35.00
MT0532	50mm	each	30.00	29.59	22.23	20.00
Anodised Aluminium Fittings: Handles						
MT0540	150mm	each	26.60	57.90	34.00	54.00
MT0541	125mm	each	25.25	42.85	26.50	40.00
MT0542	100mm	each	21.55	37.80	21.00	34.00
MT0543	75mm	each	20.88	28.89	17.00	28.25
Anodised Aluminium Fittings: Hooks and Eyes						
MT0550	300mm	each	49.50	65.29	73.10	82.50
MT0551	200mm	each	35.20	52.35	54.83	45.00
MT0552	150mm	each	23.73	40.89	39.53	33.40
MT0553	100mm	each	18.90	30.06	25.50	23.00
Anodised Aluminium Fittings: Kicking Plate						
MT0560	4mm thick	sq.m	392.70	423.30	512.55	515.00
Anodised Aluminium Fittings: Sliding Door Bolts						
MT0565	300mm	each	193.00	177.00	225.48	265.00
MT0566	250mm	each	178.50	151.80	180.88	222.00
MT0567	200mm	each	175.00	126.40	158.96	180.00

Code	Description	Units	PL	GP	S/J	TH
Anodised Aluminium Fittings: Tower Bolts (Barrel Type)						
MT0570	200mm	each	55.00	88.50	64.80	92.50
MT0571	150mm	each	42.00	72.79	39.22	68.00
MT0572	100mm	each	30.00	58.20	24.10	46.40
B r a s s						
Bright finished brass: Butt Hinges						
MT0575	100mm	each	137.70	110.04	83.08	126.25
MT0576	75mm	each	96.90	84.28	56.22	97.50
MT0577	50mm	each	53.55	56.93	37.58	51.25
Bright finished brass: Handles						
MT0580	150mm	each	110.00	131.58	117.28	121.00
MT0581	125mm	each	81.07	105.06	104.37	97.00
MT0582	100mm	each	85.00	96.90	78.15	77.00
MT0583	75mm	each	55.51	84.66	61.14	61.00
Bright finished brass: Hooks and Eyes						
MT0590	150mm	each	36.00	95.63	63.15	69.00
MT0591	100mm	each	35.50	84.15	48.00	42.00
Bright finished brass: Sliding Door Bolts						
MT0595	300mm	each	400.60	627.30	571.33	865.00
MT0596	250mm	each	372.55	542.30	456.80	748.75
MT0597	200mm	each	337.05	339.15	404.67	673.75
Bright finished brass: Tower Bolts (Barrel Type)						
MT0600	250mm	each	212.50	212.50	195.80	375.00
MT0601	150mm	each	236.67	154.28	155.60	336.25
MT0602	100mm	each	139.17	123.68	111.20	228.75
Door Closers/Stoppers						
MT0605	Bright finished brass: Door Stopper	each	185.00	150.00	155.25	121.67
MT0606	Bright finished brass: Mortise Latch 100mm	each	805.80	899.95	746.21	1250.00
MT0607	brass, hinged, spring-loaded type	each	765.00	735.56	742.77	650.00
MT0608	brass, over-head, hydraulic type	each	714.00	749.19	754.04	1150.00
M i l d S t e e l						
Mild Steel: Butt Hinges						
MT0615	100mm	each	21.33	27.68	33.47	58.75
MT0616	75mm	each	12.63	19.61	26.42	36.25
MT0617	50mm	each	10.00	12.65	19.89	25.00
Mild Steel: Handles						
MT0620	150mm	each	33.00	39.76	48.48	72.50
MT0621	125mm	each	26.50	33.44	36.00	51.25
MT0622	100mm	each	25.00	30.30	24.80	36.25
MT0623	75mm	each	20.00	20.40	18.56	30.00
Mild Steel: Hooks and Eyes						
MT0630	300mm	each	36.47	29.13	34.13	91.67
MT0631	200mm	each	36.77	28.56	25.90	66.67
MT0632	150mm	each	27.41	33.41	19.68	55.00
MT0633	100mm	each	20.63	28.05	15.83	42.50

Code	Description	Units	PL	GP	S/J	TH
Mild Steel: Sliding Door Bolts						
MT0640	300mm	each	238.50	202.20	137.60	286.00
MT0641	250mm	each	221.50	195.76	114.47	227.00
MT0642	200mm	each	203.00	128.18	110.00	187.00
Mild Steel: Tower Bolts (Barrel Type)						
MT0645	250mm	each	76.00	81.60	52.43	171.00
MT0646	150mm	each	57.00	47.60	33.57	124.17
MT0647	100mm	each	38.00	35.70	20.73	95.00
MS Door Stopper						
MT0650	Mild Steel: Door Stopper	each	87.47	107.10	70.34	186.67
BASIC RATES - TILES & GLASS MATERIALS						
G l a s s						
Plain Glass						
MT0655	3mm thick	sq.m	410.28	416.16	420.75	376.60
MT0656	4mm thick	sq.m	451.44	425.55	497.25	484.20
MT0657	5.5mm thick	sq.m	597.55	619.04	698.10	645.60
Frosted Glass						
MT0660	3mm thick	sq.m	436.00	396.87	482.75	699.40
MT0661	5.5mm thick	sq.m	693.40	598.23	738.68	807.00
T i l e s						
Glazed tiles						
MT0665	white, 150 x 150mm	each	24.63	23.93	27.74	23.69
MT0666	extra, for regular colours	each	2.00	1.95	1.95	1.93
MT0667	extra, for special colours	each	2.59	2.52	2.50	2.49
MT0668	White, 300 x 300 mm	each	34.27	39.54	44.12	32.97
MT0669	White, 200 x 200 mm	each	29.63	29.75	28.90	28.50
MT0670	White, 200 x 100 mm	each	26.78	24.97	30.60	25.76
MT0671	White, 100 x 100 mm	each	24.63	22.89	27.54	23.69
MT0672	Linoleum sheet, 2mm	sq.m	385.56	364.14	384.95	370.87
BASIC RATES - PLASTERING MATERIALS						
MT0685	Plaster of Paris	kg	22.03	26.01	26.27	45.00
BASIC RATES - PAINT & WALL PAPER MATERIALS						
Distemper & Distemper Primers						
MT0690	Dry Distemper	kg	40.00	75.31	60.70	55.00
MT0691	Acrylic washable distemper	kg	50.50	83.54	60.50	87.00
MT0692	Water proofing Cement paint	kg	54.00	45.14	65.55	90.00
Bhutanese Painting Materials						
MT0695	Mud Paint for Bhutanese traditional painting	kg	33.50	47.95	69.23	81.00
MT0696	Animal glue	kg	88.50	95.20	102.00	191.67
MT0697	Cloth for Bhutanese painting	sq.m	35.00	34.05	40.80	131.25
MT0698	Paper for Bhutanese painting	sq.m	20.00	34.30	42.02	45.00
MT0699	Colour powder(excluding gold powder)	kg	210.00	357.00	312.12	323.53
MT0700	Gold powder	kg	1675.00	1250.00	1350.00	2200.00

Code	Description	Units	PL	GP	S/J	TH
Primers						
MT0710	Cement primer	litre	106.33	150.21	109.40	140.42
MT0711	Synthetic red lead primer	litre	132.00	151.30	156.99	197.50
MT0712	Red oxide primer, for metals	litre	100.00	173.64	132.55	161.25
MT0713	White primer, for wood	litre	130.00	179.56	160.25	183.67
MT0714	Pink primer, for wood	litre	151.00	173.40	164.07	155.17
Finishing coat						
MT0720	Aluminium paint	litre	222.00	281.90	259.39	324.17
MT0721	Red Corrugal paint	litre	172.00	220.55	194.23	206.67
MT0722	Synthetic enamel paint	litre	172.50	254.51	212.26	230.00
MT0723	High gloss synthetic enamel	litre	255.00	291.38	242.90	310.83
MT0724	Acrylic emulsion	litre	223.13	219.75	243.79	380.00
MT0725	Vinyl plastic emulsion paint (for cement plaster)	litre	285.60	282.54	288.41	555.00
MT0726	Black\White bitumen enamel	litre	230.27	217.60	284.24	442.50
Stains - Varnish - Polish						
MT0730	Wood Stain (various colours)	litre	336.60	293.00	400.71	488.75
MT0731	Clear synthetic varnish	litre	265.00	277.70	231.54	310.00
MT0732	French Polish	litre	289.17	270.50	255.00	380.00
Wood Preservative						
MT0735	Wood preservative -Brown	litre	248.12	223.76	154.33	380.00
MT0736	Crude Coal Tar	litre	128.52	94.55	93.64	119.00
Accessories						
MT0740	Putty	kg	30.00	52.25	50.40	87.00
Wall Paper						
Wall paper:						
MT0745	Standard	sq.m	322.52	325.69	317.32	319.30
MT0746	High Quality	sq.m	442.17	446.51	431.77	433.50
BASIC RATES - DRAINAGE MATERIALS						
C.I. Manhole Covers						
MT0750	Watertight C.I. Manhole Cover with frame, 300 x 300mm inside size Wt. of cover not less than 4.53 kg wt. of frame not less than 2.72 kg	each	735.42	819.47	972.19	796.75
MT0751	C.I. manhole cover with frame (light duty) internal dimension 455 x 610mm Total weight of Cover and frame not less than 38 kg. (Cover 23 kg. and frame 15 kg.)	each	2390.12	2222.07	2872.15	3029.64
MT0752	C.I. manhole cover and frame (medium duty) 500mm internal dia. Total weight of cover and frame not less than 116 kg. (cover 58 kg. and frame 58 kg)	each	7511.79	7511.79	8616.45	8588.50
MT0753	C.I.manhole cover 400mm dia. inside, mosquito proof with locking arrangement (Wt of cover not less than 7kg).	each	1680.96	1786.02	1920.15	1900.81

Code	Description	Units	PL	GP	S/J	TH
Rain-water Pipes & Fittings						
Cast Iron						
MT0760	Pipe, 100mm dia.	m	1133.00	1271.23	1071.00	1133.22
MT0761	Bend 100mm	each	293.55	316.23	214.20	293.61
MT0762	Head 100mm	each	267.80	279.46	229.50	267.85
MT0763	Offset 100mm, 75mm projection	each	389.34	353.00	357.00	389.42
MT0764	Offset 100mm, 150mm projection	each	581.95	608.30	591.60	582.06
MT0765	Shoe, 100mm	each	453.20	479.02	497.40	453.29
MT0766	Grating	each	150.38	162.84	165.99	150.41
R.C Non-Pressure pipe						
NP2 class						
MT0768	100 mm dia	m	361.21	372.05	372.05	395.35
MT0769	150 mm dia	m	393.20	404.99	404.99	406.67
MT0770	225mm dia	m	490.98	505.71	505.71	787.22
MT0771	300mm dia	m	614.03	632.45	632.45	988.30
MT0772	450mm dia	m	922.22	949.89	949.89	1280.61
MT0773	600mm dia	m	1307.46	1346.68	1346.68	1911.48
MT0774	750mm dia	m	1885.31	1941.88	1941.88	2754.33
MT0775	900mm dia	m	2381.53	2452.98	2452.98	2975.68
MT0776	1050mm dia	m	5118.26	5271.80	5271.80	5244.64
MT0777	1200mm dia	m	7311.88	7531.23	7531.23	7468.44
NP2 Class Collar						
MT0783	100 mm dia	each	57.84	60.18	60.48	59.89
MT0784	150 mm dia	each	62.86	65.38	65.71	65.08
MT0785	225mm dia	each	78.56	81.72	82.13	81.33
MT0786	300mm dia	each	120.19	125.03	125.65	124.44
MT0787	450mm dia	each	180.51	187.78	188.71	186.88
MT0788	600mm dia	each	255.90	266.22	267.55	264.94
MT0789	750mm dia	each	369.00	383.88	385.77	382.03
MT0790	900mm dia	each	417.05	429.56	429.56	425.39
MT0791	1050mm dia	each	584.34	601.87	601.87	596.02
MT0792	1200mm dia	each	771.89	795.05	795.05	787.33
Stoneware Pipe Specials						
Stoneware pipes 60 cm long						
MT0795	100mm dia	each	132.18	134.81	135.49	134.17
MT0796	150mm dia	each	294.40	300.27	301.75	298.82
MT0797	200mm dia	each	516.71	526.99	529.61	524.47
MT0778	230mm dia	each	632.07	644.66	647.84	641.56
MT0779	250mm dia	each	708.98	723.09	726.68	719.62
MT0780	300mm dia	each	877.21	894.67	899.11	890.38
MT0781	350mm dia	each	1051.46	1072.39	1077.69	1067.23
MT0782	400mm dia	each	1231.70	1256.22	1262.43	1250.18
MT0793	500mm dia	each	1616.23	1648.41	1656.56	1640.48
MT0794	600mm dia	each	1940.68	1979.31	1989.11	1969.80
S\W trap - P Type						
MT0800	100 x 100mm	each	108.15	110.30	110.85	109.78
MT0801	150 x 100mm	each	122.57	125.01	125.62	124.40
MT0802	180 x 150mm	each	156.21	159.32	160.12	158.56

Code	Description	Units	PL	GP	S/J	TH
BASIC RATES - PLUMBING (PIPEWORK)						
Water Supply Pipes						
G.I pipe						
MT0805	15mm	m	99.44	110.32	112.43	162.50
MT0806	20mm	m	111.00	145.64	144.92	208.33
MT0807	25mm	m	151.17	193.80	200.96	260.83
MT0808	32mm	m	199.50	249.47	265.71	330.00
MT0809	40mm	m	226.00	308.55	353.59	391.67
MT0810	50mm	m	297.50	376.13	427.50	518.00
MT0811	65mm	m	387.00	562.36	566.14	662.17
MT0812	80mm	m	497.00	793.69	739.49	858.33
MT0813	100mm	m	722.00	1049.75	1034.38	1246.67
MT0814	150mm	m	1185.00	1578.45	1620.78	1983.33
H.D.P.E pressure class PN 12.5						
MT1685	20mm	m	28.34	28.34	28.34	28.34
MT1686	25mm	m	43.60	43.60	43.60	43.60
MT1687	32mm	m	71.94	71.94	71.94	71.94
MT1688	40mm	m	111.18	111.18	111.18	111.18
MT1689	50mm	m	174.40	174.40	174.40	174.40
MT1690	63mm	m	272.50	272.50	272.50	272.50
MT1691	75mm	m	388.50	388.50	388.50	388.50
MT1692	90mm	m	553.72	553.72	553.72	553.72
MT1693	110mm	m	832.76	832.76	832.76	832.76
MT1694	125mm	m	1066.02	1066.02	1066.02	1066.02
MT1695	140mm	m	1340.70	1340.70	1340.70	1340.70
MT1696	160mm	m	1746.18	1746.18	1746.18	1746.18
MT1697	180mm	m	2206.16	2206.16	2206.16	2206.16
MT1698	200mm	m	2731.54	2731.54	2731.54	2731.54
MT1699	225mm	m	3442.22	3442.22	3442.22	3442.22
MT1700	250mm	m	3737.50	3737.50	3737.50	3737.50
MT1701	280mm	m	4687.40	4687.40	4687.40	4687.40
MT1702	315mm	m	5934.00	5934.00	5934.00	5934.00
MT1703	355mm	m	7534.80	7534.80	7534.80	7534.80
MT1704	400mm	m	9765.80	9765.80	9765.80	9765.80
H.D.P.E pressure class PN 10						
MT0817	20mm	m	26.00	26.00	26.00	26.00
MT0818	25mm	m	37.06	37.06	37.06	37.06
MT0819	32mm	m	61.04	61.04	61.04	61.04
MT0820	40mm	m	95.92	95.92	95.92	95.92
MT0821	50mm	m	146.06	146.06	146.06	146.06
MT0822	63mm	m	231.08	231.08	231.08	231.08
MT0823	75mm	m	327.00	327.00	327.00	327.00
MT0824	90mm	m	468.70	468.70	468.70	468.70
MT0825	110mm	m	693.24	693.24	693.24	693.24
MT0826	140mm	m	898.16	898.16	898.16	898.16
MT0827	160mm	m	1127.06	1127.06	1127.06	1127.06
MT0828	225mm	m	2895.04	2895.04	2895.04	2895.04
MT1710	250mm	m	3107.30	3107.30	3107.30	3107.30
MT1711	280mm	m	3891.60	3891.60	3891.60	3891.60
MT1712	315mm	m	4931.20	4931.20	4931.20	4931.20
MT1713	355mm	m	6272.10	6272.10	6272.10	6272.10
MT1714	400mm	m	8123.60	8123.60	8123.60	8123.60

Code	Description	Units	PL	GP	S/J	TH
H.D.P.E Pipes of pressure class PN 6						
MT0830	32mm	m	50.14	50.14	50.14	50.14
MT0831	40mm	m	63.22	63.22	63.22	63.22
MT0832	50mm	m	98.10	98.10	98.10	98.10
MT0833	63mm	m	152.60	152.60	152.60	152.60
MT0834	75mm	m	215.82	215.82	215.82	215.82
MT0835	90mm	m	305.20	305.20	305.20	305.20
MT0836	110mm	m	457.80	457.80	457.80	457.80
MT0837	140mm	m	734.66	734.66	734.66	734.66
MT0838	160mm	m	959.20	959.20	959.20	959.20
MT0839	225mm	m	1883.52	1883.52	1883.52	1883.52
MT1718	250mm	m	1994.10	1994.10	1994.10	1994.10
MT1719	280mm	m	2502.40	2502.40	2502.40	2502.40
MT1720	315mm	m	3167.10	3167.10	3167.10	3167.10
MT1721	355mm	m	4013.50	4013.50	4013.50	4013.50
MT1722	400mm	m	5191.10	5191.10	5191.10	5191.10
H.D.P.E Pipes of pressure class PN 4						
MT0841	40mm	m	47.15	57.78	47.15	47.15
MT0842	50mm	m	80.66	80.66	80.66	80.66
MT0843	63mm	m	109.00	109.00	109.00	109.00
MT0844	75mm	m	148.24	148.24	148.24	148.24
MT0845	90mm	m	215.82	215.82	215.82	215.82
MT0846	110mm	m	322.64	322.64	322.64	322.64
MT0847	140mm	m	512.30	512.30	512.30	512.30
MT0848	160mm	m	671.44	671.44	671.44	671.44
MT0849	225mm	m	1312.36	1312.36	1312.36	1312.36
MT1726	250mm	m	1380.00	1380.00	1380.00	1380.00
MT1727	280mm	m	1748.00	1748.00	1748.00	1748.00
MT1728	315mm	m	2185.00	2185.00	2185.00	2185.00
MT1729	355mm	m	2783.00	2783.00	2783.00	2783.00
MT1730	400mm	m	4434.40	4434.40	4434.40	4434.40
H.D.P.E Pipes of pressure class PN 2.5						
MT0852	110mm	m	207.10	207.10	207.10	207.10
MT0853	140mm	m	340.08	340.08	340.08	340.08
MT0854	160mm	m	440.36	440.36	440.36	440.36
MT0855	225mm	m	850.20	850.20	850.20	850.20
PP-R Pipes (Pressure Normal 16)						
MT1760	PN-16 pipe,16mm OD	m	90.00	90.00	90.00	90.00
MT1761	PN-16 pipe,20mm OD	m	101.00	101.00	101.00	101.00
MT1762	PN-16 pipe,25mm OD	m	155.00	155.00	155.00	155.00
MT1763	PN-16 pipe,32mm OD	m	252.00	252.00	252.00	252.00
MT1764	PN-16 pipe,40mm OD	m	404.00	404.00	404.00	404.00
MT1765	PN-16 pipe,50mm OD	m	637.00	637.00	637.00	637.00
MT1766	PN-16 pipe,63mm OD	m	1014.00	1014.00	1014.00	1014.00
MT1767	PN-16 pipe,75mm OD	m	1442.00	1442.00	1442.00	1442.00
PP-R Pipes (Pressure Normal 10)						
MT1768	PN-10 pipe,90mm OD	m	2125.00	2125.00	2125.00	2125.00
MT1769	PN-10 pipe,110mm OD	m	3108.00	3108.00	3108.00	3108.00
MT1770	PN-10 pipe,160mm OD	m	6524.00	6524.00	6524.00	6524.00

Code		Description	Units	PL	GP	S/J	TH
Ductile Iron Pipes - Class K9							
MT0856	80 mm		m	956.72	956.72	947.43	956.17
MT0857	100 mm		m	1113.30	1113.30	1102.49	1112.66
MT0858	150 mm		m	1621.68	1621.68	1605.94	1620.75
MT0859	200 mm		m	2232.97	2232.97	2211.29	2231.31
MT0860	250 mm		m	2967.61	2967.61	2938.79	2965.51
MT0861	300 mm		m	3750.67	3750.67	3714.26	3748.53
MT0862	350 mm		m	4703.62	4703.62	4657.95	4700.93
MT0863	400 mm		m	5596.21	5596.21	5541.87	5593.01
MT0864	450 mm		m	6603.25	6603.25	6539.14	6599.48
MT0865	500 mm		m	7738.92	7738.92	7663.78	7734.50
MT0866	600 mm		m	10614.44	10614.44	10511.38	10608.37
Ductile Iron Pipes - Class K7							
MT0871	100 mm		m	932.30	941.44	932.30	940.91
MT0872	150 mm		m	1445.53	1459.70	1445.53	1458.87
MT0873	200 mm		m	1900.94	1919.58	1900.94	1918.48
MT0874	250 mm		m	2504.01	2528.56	2504.01	2527.11
MT0875	300 mm		m	3136.44	3167.19	3136.44	3165.38
MT0876	350 mm		m	3950.27	3989.00	3950.27	3968.33
MT0877	400 mm		m	4689.03	4735.00	4689.03	4732.30
MT0878	450 mm		m	5483.38	5537.14	5483.38	5533.98
MT0879	500 mm		m	6469.21	6532.63	6469.21	6528.90
MT0880	600 mm		m	8770.94	8856.94	8770.94	8851.87
Ductile Iron Pipes K -9 Double Flanged							
MT0882	100 mm		m	1878.96	1897.38	1878.96	1896.00
MT0883	150 mm		m	2709.20	2735.76	2709.20	2734.00
MT0884	200 mm		m	3812.55	3849.93	3812.55	3847.00
MT0885	250 mm		m	5014.21	5063.37	5014.21	5067.00
MT0886	300 mm		m	6215.87	6276.81	6215.87	6273.00
MT0887	350 mm		m	7701.56	7777.07	7701.56	7772.00
MT0888	400 mm		m	9230.95	9321.45	9230.95	9316.00
MT0889	450 mm		m	12453.59	12575.68	12453.59	12568.00
MT0890	500 mm		m	14638.43	14781.94	14638.43	14773.00
MT0891	600 mm		m	19062.73	19249.62	19062.73	19238.00
Pipe Fittings							
H.D.P.E welded-type fittings							
MT0895	TEE, 20mm		each	42.00	49.64	33.52	70.00
MT0896	TEE, 25mm		each	56.95	71.71	46.57	96.00
MT0897	TEE, 32mm		each	91.36	104.79	72.30	164.00
MT0898	TEE, 50mm		each	175.00	170.98	199.90	347.00
MT0899	TEE, 63mm		each	200.00	297.85	268.52	600.00
MT0900	TEE, 90mm		each	300.00	424.71	378.41	772.00
MT0901	TEE, 110mm		each	325.00	694.98	658.46	913.00
MT0902	TEE, 160mm		each	700.00	2173.17	2572.32	2770.00
MT0903	Elbow, 32mm		each	62.38	93.77	53.48	116.00
MT0904	Elbow, 50mm		each	131.13	157.16	112.22	274.00
MT0905	Elbow, 63mm		each	231.75	224.75	208.24	432.00
MT0906	Elbow, 90mm		each	175.00	332.25	324.50	583.00
MT0907	Elbow, 110mm		each	325.00	413.60	530.09	1134.00
MT0908	Reducer, 90 x 50mm		each	260.10	248.85	251.26	250.00
MT0909	Reducer, 90 x 63mm		each	260.10	251.88	257.54	250.00

Code	Description	Units	PL	GP	S/J	TH
MT0910	Reducer, 110 x 63mm	each	300.00	277.38	257.54	300.00
MT0911	Reducer, 160 x 90mm	each	676.26	663.97	741.20	650.00
MT0912	Blank end, 50mm	each	156.06	117.71	121.86	150.00
MT0913	Blank end, 63mm	each	185.44	151.68	157.04	180.00
MT0914	Blank end, 90mm	each	281.47	294.86	305.28	345.00
MT0915	Blank end, 110mm	each	394.89	339.76	351.76	465.00
MT0916	Blank end, 160mm	each	671.16	582.45	603.01	800.00
M.I. Fittings Union						
MT0921	32mm	each	196.00	155.49	183.60	237.00
MT0922	40mm	each	265.00	165.00	214.20	321.00
Brass Fittings Bibcock						
MT0925	15mm	each	300.00	450.00	278.00	360.00
Stopcock						
MT0930	15mm nom-bore	each	300.00	402.90	357.50	491.00
MT0931	20mm nom-bore	each	415.00	484.50	408.00	498.00
MT0932	25mm nom-bore	each	475.00	499.80	586.50	708.00
Wheel valve						
MT0940	32mm nom-bore	each	620.00	1352.91	1352.91	1295.00
MT0941	40mm nom-bore	each	950.00	1739.27	1739.27	1782.00
MT0942	50mm nom-bore	each	1085.00	2224.91	2224.91	2578.00
MT0943	65mm nom-bore	each	2139.00	3964.44	3964.44	4305.00
MT0944	80mm nom-bore	each	2848.00	5684.01	5684.01	5913.00
Non return valve						
MT0951	50mm nom-bore	each	1182.00	2047.83	1983.90	2170.00
MT0952	65mm nom-bore	each	2756.50	3392.92	3427.20	3845.00
MT0953	80mm nom-bore	each	3753.00	5137.85	5406.00	5612.00
Rubber Gasket of S.B.R Quality						
MT0960	80 mm	each	64.26	58.83	58.83	56.00
MT0961	100 mm	each	73.44	67.24	67.24	64.00
MT0962	150 mm	each	104.04	94.55	94.55	90.00
MT0963	200 mm	each	167.28	157.59	157.59	150.00
MT0964	250 mm	each	182.07	194.36	194.36	185.00
MT0965	300 mm	each	303.96	278.41	278.41	265.00
MT0966	350 mm	each	344.76	315.18	315.18	300.00
MT0967	400 mm	each	400.86	453.86	453.86	432.00
MT0968	450 mm	each	471.75	478.02	478.02	455.00
MT0969	500 mm	each	668.61	663.98	663.98	632.00
MT0970	600 mm	each	888.93	882.50	882.50	840.00
Waste-water Pipework						
Cast Iron Pipes, Single Socketted, 1.83m long						
MT0975	50mm	each	543.57	561.86	636.71	895.00
MT0976	75mm	each	747.57	815.57	718.13	1395.00
MT0977	100mm	each	926.07	967.26	1155.66	1950.00
MT0978	150mm	each	1232.07	1245.80	1309.10	1520.00
Plain bend						
MT0985	50mm	each	166.46	134.30	173.40	215.00
MT0986	75mm	each	177.58	154.70	183.60	395.00
MT0987	100mm	each	182.68	205.70	226.95	750.00

Code	Description	Units	PL	GP	S/J	TH
Door bend						
MT0990	50mm	each	218.48	225.88	230.15	195.00
MT0991	75mm	each	218.48	246.69	269.55	295.00
MT0992	100mm	each	218.48	289.37	338.98	548.00
Collar						
MT1000	50mm	each	129.01	165.47	174.79	124.00
MT1001	75mm	each	174.79	209.60	207.56	168.00
MT1002	100mm	each	236.17	336.46	355.04	227.00
Heel rest bend						
MT1010	50mm	each	133.17	135.53	159.69	128.00
MT1011	75mm	each	231.39	231.01	252.14	262.00
MT1012	100mm	each	219.59	283.47	357.20	333.00
Single equal junction - plain						
MT1020	50mm	each	229.41	225.88	293.74	220.00
MT1021	75mm	each	344.12	320.43	360.35	330.00
MT1022	100mm	each	469.74	409.73	507.14	451.00
Single equal junction, door						
MT1030	50mm	each	185.71	194.70	199.61	178.00
MT1031	75mm	each	235.97	233.87	252.14	226.00
MT1032	100mm	each	322.27	336.46	357.87	309.00
MT1033	150mm	each	344.12	382.50	374.00	330.00
Double equal junction, plain						
MT1040	50mm	each	316.80	226.14	242.69	304.00
MT1041	75mm	each	396.55	270.27	286.81	381.00
MT1042	100mm	each	594.27	540.54	612.23	571.00
Double equal junction, door						
MT1050	50mm	each	274.20	248.21	242.69	263.00
MT1051	75mm	each	351.22	297.85	286.81	337.00
MT1052	100mm	each	461.00	430.23	510.19	443.00
Single unequal junction, plain						
MT1060	75 x 50mm	each	229.41	241.59	241.64	220.00
MT1061	100 x 50mm	each	300.42	314.39	319.38	288.00
MT1062	100 x 75mm	each	349.57	359.62	359.31	336.00
Single unequal junction, door						
MT1070	75 x 50mm	each	246.34	254.28	264.75	236.00
MT1071	100 x 50mm	each	376.89	380.58	397.13	262.00
MT1072	100 x 75mm	each	400.92	414.77	421.94	385.00
Double unequal junction, plain						
MT1080	100 x 50	each	338.65	341.45	358.52	325.00
MT1081	100 x 75	each	393.27	382.42	408.16	378.00
Double unequal junction, door						
MT1085	100 x 50	each	355.04	344.60	375.06	341.00
MT1086	100 x 75	each	404.20	393.98	430.23	388.00

Code	Description	Units	PL	GP	S/J	TH
Single equal Y-Junction						
MT1090	50mm	each	207.56	173.35	231.66	199.00
MT1091	75mm	each	400.92	377.17	264.75	385.00
MT1092	100mm	each	557.13	526.35	496.41	535.00
Double equal Y-Junction						
MT1100	50mm	each	316.80	286.81	213.98	304.00
MT1101	75mm	each	443.53	353.00	305.51	426.00
MT1102	100mm	each	594.27	535.02	382.79	571.00
Single unequal invert branch						
MT1110	75 x 50mm	each	297.55	308.88	323.22	286.00
MT1111	100 x 50mm	each	405.76	423.61	437.95	396.00
Offsets 50mm dia offset						
MT1115	with 75mm projection	each	298.59	262.65	242.69	287.00
MT1116	with 150mm projection	each	413.04	421.29	435.73	397.00
75mm dia offset						
MT1120	with 75mm projection	each	275.71	283.66	280.50	265.00
MT1121	with 150mm projection	each	390.15	390.82	346.80	375.00
100mm dia offset						
MT1125	with 75mm projection	each	332.93	329.89	346.80	320.00
MT1126	with 150mm projection	each	405.76	408.68	433.50	390.00
Terminal Guard						
MT1130	50mm	each	131.09	137.89	192.68	126.00
MT1131	75mm	each	218.48	233.87	268.10	210.00
MT1132	100mm	each	333.19	330.94	330.31	320.00
MT1133	150mm	each	589.91	595.69	531.25	567.00
P-type Nahani Trap						
MT1140	100mm inlet & 50mm outlet	each	213.23	199.64	207.30	155.00
MT1141	100mm inlet & 75mm outlet	each	368.30	345.65	253.20	354.00
MT1142	C.I. P-trap 100mm	each	499.39	478.02	325.79	480.00
Jointing Materials						
MT1145	Pig lead	kg	99.41	108.11	114.71	95.00
P.V.C Pipes & fittings (Soil Waste and Vent)						
Pipes, Single Socketed 1.83 m long						
MT1150	75mm	each	243.00	261.38	167.85	326.67
MT1151	90mm	each	357.00	390.15	203.45	464.00
MT1152	110mm	each	441.00	393.98	251.85	552.33
Pipes, Single Socketed 3.00 m long						
MT1160	75mm	each	287.00	374.10	314.03	366.00
MT1161	90mm	each	434.00	597.21	407.35	611.67
MT1162	110mm	each	490.00	566.30	507.20	596.67
Pipes, Doubled Socketed 1.83 m long						
MT1170	75mm	each	259.00	335.79	323.20	342.33
MT1171	90mm	each	378.00	567.02	424.20	475.00
MT1172	110mm	each	462.00	632.31	505.20	568.33

Code	Description	Units	PL	GP	S/J	TH
Pipes, Doubled Socketed 1.20 m long						
MT1180	75mm	each	179.00	199.76	191.93	310.00
MT1181	90mm	each	266.00	317.32	267.59	460.67
MT1182	110mm	each	315.00	374.02	343.86	545.33
Pipe Connector						
MT1190	110mm	each	163.20	80.00	105.40	100.00
Reducer						
MT1195	90x75mm	each	103.69	132.60	82.38	101.67
MT1196	110x75mm	each	112.20	120.00	115.23	114.33
MT1197	110x90mm	each	135.25	163.20	120.33	138.33
Coupler						
MT1205	75mm	each	49.00	60.00	66.41	66.33
MT1206	90mm	each	62.00	87.52	82.33	88.00
MT1207	110mm	each	73.00	80.00	90.64	99.00
Plain bend						
MT1215	75mm	each	57.00	80.00	75.49	75.00
MT1216	90mm	each	84.00	122.40	96.10	108.33
MT1217	110mm	each	90.00	120.00	117.04	116.00
Door bend						
MT1225	75mm	each	83.00	90.00	81.10	108.67
MT1226	90mm	each	113.00	132.60	102.42	144.33
MT1227	110mm	each	122.00	140.00	124.78	154.67
Long Arm Bend						
MT1235	75mm	each	176.87	187.27	193.57	100.00
MT1236	90mm	each	260.10	270.50	283.56	150.00
MT1237	110mm	each	353.74	353.74	363.17	170.00
Plain Shoe						
MT1239	75mm	each	114.44	120.17	119.65	110.00
MT1240	90mm	each	135.25	147.48	145.66	130.00
MT1241	110mm	each	166.46	174.79	176.87	160.00
Single Tee, Plain						
MT1245	75mm	each	73.00	104.55	78.45	94.00
MT1246	90mm	each	116.00	137.70	109.70	130.00
MT1247	110mm	each	129.00	151.73	145.00	164.33
Single Tee, With Door						
MT1255	75mm	each	88.00	118.58	91.00	113.67
MT1256	90mm	each	127.00	158.10	131.40	162.67
MT1257	110mm	each	147.00	176.80	154.05	189.33
Double Tee, Plain						
MT1265	75mm	each	147.00	177.76	154.35	189.33
MT1266	90mm	each	209.00	218.48	212.60	267.33
MT1267	110mm	each	294.00	282.95	275.75	371.67
Double Tee, With Door						
MT1275	75mm	each	217.00	301.16	164.96	262.67
MT1276	90mm	each	279.00	379.75	199.13	350.33
MT1277	110mm	each	325.00	394.38	289.73	412.67

Code	Description	Units	PL	GP	S/J	TH
Single Y, Plain						
MT1285	75mm	each	94.00	150.45	106.20	121.33
MT1286	90mm	each	139.00	300.90	151.80	175.33
MT1287	110mm	each	179.00	315.18	207.30	231.33
Single Y, With Door						
MT1295	75mm	each	112.00	173.40	142.62	143.33
MT1296	90mm	each	176.00	275.40	208.32	227.00
MT1297	110mm	each	229.00	239.70	263.89	291.33
Double Y, Plain						
MT1305	75mm	each	147.00	207.83	131.87	192.67
MT1306	90mm	each	202.00	255.00	187.98	264.67
MT1307	110mm	each	245.00	255.00	226.85	321.00
Double Y, With Door						
MT1315	75mm	each	210.00	253.98	160.02	275.00
MT1316	90mm	each	272.00	342.72	195.83	313.67
MT1317	110mm	each	294.00	372.30	255.05	390.00
Seal Ring						
MT1320	75 mm	each	30.60	32.30	32.80	36.67
MT1321	90 mm	each	45.90	42.50	41.68	50.00
MT1322	110 mm	each	53.55	51.00	55.50	60.00
75mm dia. offset						
MT1325	With 75mm projection	each	255.00	208.08	234.60	289.00
MT1326	With 150mm projection	each	295.00	301.72	290.70	295.00
90mm dia. offset						
MT1330	With 75mm projection	each	375.00	343.33	306.00	375.00
MT1331	With 150mm projection	each	462.00	426.56	459.00	462.00
110mm dia. offset						
MT1335	With 75mm projection	each	465.00	384.95	357.00	465.00
MT1336	With 150mm projection	each	535.00	431.77	448.80	535.00
Terminal Guard						
MT1340	75mm	each	83.23	93.64	94.55	80.00
MT1341	90mm	each	93.64	109.24	105.06	90.00
MT1342	110mm	each	98.84	114.44	115.57	95.00
Nahani Trap						
MT1345	100mm inlet & 75mm outlet	each	190.40	219.30	257.08	211.67
P-Trap without air vent						
MT1350	Big	each	290.00	431.77	430.75	286.67
MT1351	Small	each	306.00	384.95	367.71	244.00
BASIC RATES - PLUMBING (Sanitary Installation, Fittings & accessories)						
B a t h s						
MT1355	Porcelain bath tub, white enamelled, 1700x740x440mm	each	13719.00	14276.94	21476.70	12000.00
MT1356	Fibreglass bath tub	each	16700.00	13525.20	24280.05	12500.00

Code	Description	Units	PL	GP	S/J	TH
Basins, Sinks						
Flat-back wash basin, white vitreous						
MT1360	630 x 450mm	each	1547.00	1581.00	2067.17	2075.00
MT1361	550 x 400mm	each	1052.30	928.20	1605.67	1500.00
Angle back wash basin						
MT1365	400mm x 400mm, white vitreous china	each	867.00	884.34	969.00	4125.00
Pedestal for wash basin						
MT1370	white vitreous china	each	1527.45	1428.00	1592.67	1308.33
Sinks White glazed vitreous China						
MT1375	600 x 450 x 250	each	3085.50	3485.34	3677.10	4850.00
Stainless Steel Kitchen Sinks						
MT1380	single bowl, 450 x 400 x 150mm	each	1055.70	1096.50	916.30	1350.00
MT1381	single bowl, 580 x 480 x 175mm	each	1267.35	1173.00	1074.25	1450.00
MT1382	single bowl & drain-board, 940 x 460 x 160mm	each	1703.40	1581.00	1640.48	1950.00
MT1383	single bowl & drain-board, 1080 x 520 x 175mm	each	1968.60	1643.83	1804.97	2150.00
MT1384	single bowl & drain-board, 1150 x 515 x 175mm	each	2703.00	2164.03	2317.62	2450.00
MT1385	single bowl & double drain-board, 1740 x 520 x 200mm	each	3723.00	3032.46	2947.10	4950.00
MT1386	double bowl, 940 x 460 x 160mm	each	3805.88	3381.30	3414.45	4950.00
MT1387	double bowl, 1150 x 520 x 150mm	each	4791.45	4681.80	4727.70	6200.00
MT1388	double bowl & single drain-board, 1740 x 520 x 200mm	each	7803.00	7803.00	7879.50	6250.00
MT1389	double bowl & double drain-board, 1740 x 520 x 165mm	each	9883.80	9883.80	9980.70	6250.00
MT1390	single drain-board, 610 x 460mm	each	1115.96	989.15	992.85	2450.00
W.C. Pans						
MT1400	Vitreous China European - white	each	1100.00	1326.00	762.04	1200.00
MT1401	Vitreous China European - colour	each	1150.00	1989.00	892.79	2575.00
MT1402	Vitreous China Indian type - 500mm, white	each	650.00	1228.08	769.67	662.50
MT1403	Vitreous China Indian type - 580mm Orissa, white	each	600.00	1275.00	908.67	662.50
MT1404	Vitreous China Indian type - 580mm Orissa, colour	each	1606.50	1976.76	1049.00	2112.50
MT1405	Plastic seat & lid for European pan	each	753.53	527.00	948.38	631.67
MT1406	Vitreous China Footrests (250 x 130 x 30), for Indian pan	pair	170.00	153.00	136.50	135.00
Cisterns						
C.I. Automatic flushing Cistern with fittings						
MT1420	5 litres	each	1508.58	1224.00	1621.08	1450.00
MT1421	10 litres	each	650.00	1872.72	2009.80	1162.50
MT1422	12.5 litres	each	2028.78	2080.80	2111.71	1950.00
Vitreous China cistern - low level, incl. fittings & flush-bend						
MT1430	10 litres, white	each	1586.10	1479.00	1479.00	1816.67
MT1431	10 litres, colour	each	2419.95	2308.77	2227.00	3525.00
Float Valve						
MT1440	15mm ball valve with plastic float	each	344.25	394.40	410.40	591.67
Urinals						
MT1445	White vitreous China flat-back lipped-front type urinals, 430 x 260 x 350mm	each	1305.60	1260.72	937.00	1925.00

Code	Description	Units	PL	GP	S/J	TH
Flush fittings						
MT1450	c.p flush valve, 32mm	each	3958.00	3329.28	1789.64	4800.00
MT1451	c.p flush valve, 32mm, concealed	each	3298.00	3329.28	1824.64	4200.00
MT1452	c.p flush bend, long	each	459.00	468.18	294.09	755.00
MT1453	c.p flush valve elbow	each	382.35	382.35	251.17	367.50
C.p Cocks & Spouts						
MT1460	15mm pillar cock	each	510.00	479.48	425.30	608.67
MT1461	15mm pillar cock, swan neck, c.p knob	each	833.85	830.18	769.00	1499.00
MT1462	15mm pillar cock, aerator, c.p knob	each	397.80	540.60	603.80	1380.00
MT1463	20mm pillar cock (for bath)	each	581.40	612.00	540.90	530.00
MT1464	15mm bib cock, vert, c.p knob	each	445.40	459.00	344.75	750.00
MT1465	15mm bib cock, inclined, c.p knob	each	408.00	459.00	506.53	1075.00
MT1466	15mm bib cock, long nose, c.p knob	each	459.00	668.10	507.75	740.00
MT1467	15mm bib cock, long body, c.p knob	each	456.45	608.60	453.67	758.67
MT1468	15mm stop cock, c.p knob	each	470.00	572.35	399.85	645.00
MT1469	20mm stop cock, c.p knob	each	459.00	469.20	561.00	750.00
MT1470	15mm stop cock, concealed, c.p knob	each	702.00	617.10	471.50	946.00
MT1471	15mm stop cock, H/D concealed, c.p knob	each	765.00	707.47	522.50	845.00
MT1472	20mm stop cock, H/D concealed, c.p knob	each	867.00	802.67	867.00	1250.00
MT1473	15mm angle stop cock, c.p knob	each	673.20	533.05	376.33	606.33
MT1474	Wall spout, std, 15mm	each	468.18	468.18	468.18	561.00
MT1475	Wall spout, w/o diverter, used with single-lever mixers	each	676.26	676.26	676.26	642.60
MT1476	Wall spout, with diverter, used with single-lever mixers	each	925.96	925.96	1562.98	960.84
C.p Brass Shower fittings for 15 to 20mm inlet						
MT1510	rose, 100mm dia	each	988.38	676.26	725.68	719.40
MT1511	rose, 150mm dia	each	903.21	780.30	962.37	925.40
MT1512	shower, with flex tube	each	842.72	911.39	794.19	1050.00
MT1513	shower, revolving joint	each	572.22	525.40	494.19	563.30
MT1514	shower, adjustable with locking key	each	697.07	780.30	905.77	3045.00
MT1515	shower arm, 15mm	each	520.20	364.14	275.00	433.33
MT1516	shower arm, 15mm, heavy duty	each	322.52	477.87	330.75	500.00
C.p Mixers						
MT1530	basin, single-hole, casted spout, 15mm	each	1976.76	1976.76	1623.07	1831.67
MT1531	basin, close-hole, 15mm	each	1685.45	1490.02	1475.99	2800.00
MT1532	sink, with spout J pipe, 15mm	each	1404.54	1404.54	1809.16	2688.33
MT1533	sink, with casted spout swinging, 15mm	each	1300.50	1300.50	2056.63	3250.00
MT1534	wall, non-telephonic type, 15mm	each	2225.07	2285.53	2748.96	3108.33
MT1535	wall, telephonic type with crutch and tel. shower, 15mm	each	2750.82	2652.00	3059.26	4040.00
MT1536	wall, telephonic type without crutch and tel. shower, 15mm	each	2809.08	2809.08	2765.41	3950.00
MT1537	wall, telephonic type with crutch and without tel. shower, 15mm	each	2288.88	2288.88	2255.66	3625.00
MT1538	wall, telephonic type with C.P bend & flanges, 15mm	each	1612.62	1612.62	1914.22	4302.50
MT1539	Three hole mixer without pop-up, 15mm	each	3641.40	3641.40	3677.10	4950.00
MT1540	Three hole mixer with pop-up, 15mm	each	4681.80	4681.80	4352.85	5425.00
MT1541	basin, elbow action, surgical, 15mm	each	2184.84	2184.84	3117.63	4925.00
MT1542	basin, elbow action, surgical with shower, 15mm	each	2496.96	2496.96	2966.16	4925.00
MT1543	bath, with exposed adjustable legs with telephone shower arrangement with crutch, 15mm	each	5097.96	5097.96	5147.94	4925.00
MT1544	wall, with telephonic shower arrangement with 115mm long bend pipe for over head shower connection, 15mm	each	3641.40	3641.40	4133.55	4835.00
	shower, three in one, with bend flexible tube, and shower & hook, 15mm	each	4941.90	4941.90	4990.35	4880.00
MT1545	15mm	each	4941.90	4941.90	4990.35	4880.00
MT1546	sink, with swivel spout, 15mm	each	728.28	728.28	1467.71	3228.33

Code	Description	Units	PL	GP	S/J	TH
Traps, c.p						
MT1580	32mm	each	1108.03	1108.03	1118.89	725.00
MT1581	for bath	each	884.34	884.34	893.01	880.00
Bathroom Accessories						
Brackets						
MT1585	R.S. or C.I.Brackets	pair	114.44	135.25	155.27	242.50
C.p. brass waste						
MT1590	32mm	each	198.90	267.90	175.27	320.00
MT1591	40mm	each	336.60	351.14	312.29	490.00
PVC waste						
MT1595	32mm	each	65.96	66.30	79.73	120.00
C.p. brass chain with plug						
MT1600	32mm	each	188.70	210.12	179.04	196.00
MT1601	40mm	each	198.90	210.12	279.04	246.00
Soap Containers						
MT1605	c.p brass with bracket	each	371.59	304.98	240.86	290.00
MT1606	c.p Liquid Soap Container	each	525.30	416.16	433.08	650.00
MT1607	Recessed ceramic, 200 x 100mm	each	525.30	510.00	520.20	500.00
MT1608	Recessed ceramic, 150 x 150mm	each	520.20	520.20	520.20	500.00
C.p Towel Rails						
MT1615	20mm x 450mm	each	456.45	448.80	414.82	645.00
MT1616	20mm x 600mm	each	571.20	499.80	616.28	686.67
MT1617	20mm x 750mm	each	663.00	489.60	791.17	785.00
MT1618	C.p Towel Ring	each	462.40	540.60	473.80	528.33
C.p Coat Hooks						
MT1625	single	each	398.44	331.50	407.07	271.50
MT1626	double	each	357.00	331.50	455.05	354.00
Glass self/Mirror						
MT1630	Glass Shelf	each	670.00	649.80	669.00	1158.33
MT1631	Mirror (Bevelled edge) 600mm x 450mm	each	475.00	634.95	589.65	825.00
Toilet paper holders						
MT1635	C.P. brass	each	423.02	420.55	263.65	399.00
MT1636	recessed ceramic (white), 200 x 100mm	each	717.57	697.07	697.07	670.00
MT1637	recessed ceramic (coloured), 200 x 100mm	each	781.83	759.49	759.49	730.00
MT1638	recessed ceramic (roll-type), 150 x 150mm	each	696.15	676.26	676.26	650.00
Electric Water Heater						
Electric Water Heaters						
MT1645	10 litres, vertical	each	6500.00	7024.13	5605.86	6800.00
MT1646	15 litres, vertical	each	7535.59	7676.52	6150.15	11150.00
MT1647	25 litres, vertical	each	8450.00	8797.50	7048.42	13450.00
MT1648	35 litres, vertical	each	10165.00	10072.50	7851.07	14775.00
MT1649	50 litres, vertical	each	12780.00	12842.06	12030.63	17200.00
MT1650	75 litres, vertical	each	18283.50	18283.50	17698.70	19625.00
MT1651	100 litres, vertical	each	22073.97	21297.58	21663.78	22675.00

Code	Description	Units	PL	GP	S/J	TH
Water Storage Tanks						
H.D.P.E water storage tank						
MT1665	270 litres	each	2482.17	2160.00	2245.48	2700.00
MT1666	500 litres	each	3100.00	8500.00	3773.75	4500.00
MT1667	1000 litres	each	6200.00	8000.00	7432.75	9000.00
MT1668	2000 litres	each	12400.00	15500.00	15079.75	18000.00
MT1669	3000 litres	each	18600.00	25666.67	22828.75	27000.00
Steel Formwork						
MT1670	Plates, angles and channels	kg	114.24	90.78	90.78	90.78
MT1671	Single Clip	each	93.53	93.53	93.53	93.53
MT1672	Double clip	each	114.24	114.24	114.24	114.24
MT1673	Adjustable span ESO+SI	each	2213.40	2213.40	2213.40	2213.40
MT1674	Adjustable telescopic prop(3m)	each	1356.60	1356.60	1356.60	1356.60
MT1675	Beam clamp	each	499.80	499.80	499.80	499.80
MT1676	Column clamp	each	1448.40	1448.40	1448.40	1448.40
MT1677	Prop 2 m	each	985.32	985.32	985.32	985.32
Road works (new items)						
MT1678	Painting Brush	each	51.41	52.33	51.41	53.40
MT1679	Thermoplastic road marking paint	litre	175.44	176.46	175.44	176.00
uPVC Windows Accessories						
MT1740	Window Frame Sash (Plain White)	kg	630.00	630.00	630.00	630.00
MT1741	Window Glass Sash	kg	275.00	275.00	275.00	275.00
MT1742	Wire mesh sash	kg	260.00	260.00	260.00	260.00
MT1743	Wire mesh	sqm	350.00	350.00	350.00	350.00
MT1744	EPDM Gasket	m	15.58	15.58	15.58	15.58
MT1745	Wool pile	m	18.04	18.04	18.04	18.04
MT1746	Glass Bead	m	27.55	27.55	27.55	27.55
MT1747	Interlock	each	152.00	152.00	152.00	152.00
MT1748	U-groove roller	each	28.00	28.00	28.00	28.00
MT1749	Touch lock	each	112.00	112.00	112.00	112.00
MT1750	Fastener Nut	each	18.00	18.00	18.00	18.00
MT1751	Aluminium Track	each	86.00	86.00	86.00	86.00
MT1752	Aluminium Reinforcement	m	91.84	91.84	91.84	91.84
MT1753	Window Frame Sash (Polished)	kg	1020.60	1020.60	1020.60	1020.60
MT1754	Window Frame Sash (Texture)	kg	1732.50	1732.50	1732.50	1732.50

Code	Description	Unit	PL	GP	SJ	TH
CHAPTER 3: MACHINERY AND PLANT HIRE CHARGES						
Machinery and Plant Hire Charges (CDCL - 2017)						
MP0100	Air Compressor(KG)	day	4855.20	4856.20	4857.20	4858.20
MP0101	Air Compressor(P - 300)	day	6064.00	6064.00	6064.00	6064.00
MP0102	Air Compressor(XAM140)	day	5488.00	5488.00	5488.00	5488.00
MP0103	Air Compressor(VT/6)	day	4552.80	4552.80	4552.80	4552.80
MP0104	Air Compressor(VT/250)	day	5488.00	5488.00	5488.00	5488.00
MP0105	Bull Dozer(CAT D4H)	day	12528.00	12528.00	12528.00	12528.00
MP0106	Bull Dozer(CAT D6D)	day	14582.40	14582.40	14582.40	14582.40
MP0107	Bull Dozer(D7G)	day	14952.00	14952.00	14952.00	14952.00
MP0108	Bull Dozer(TD12E)	day	13893.60	13893.60	13893.60	13893.60
MP0109	Bull Dozer(CAT - D5M XL)	day	17544.00	17544.00	17544.00	17544.00
MP0110	Bull Dozer(CAT D4G)	day	12824.00	12825.00	12826.00	12827.00
MP0111	Asphalt Pave, Hanta	day	9712.00	9712.00	9712.00	9712.00
MP0112	Bitumen Heating/Storage Tank - 12000 litres	day	4136.00	4136.00	4136.00	4136.00
MP0113	Bitumen Heating/Storage Tank - 4000 litres	day	3832.00	3832.00	3832.00	3832.00
MP0114	Compactor, Plate Type	day	1592.00	1592.00	1592.00	1592.00
MP0115	Crane (Kato, KR - 250)	day	21048.00	21049.00	21050.00	21051.00
MP0116	Chips spreader	day	1160.00	1160.00	1160.00	1160.00
MP0117	Motor Grader(MG -330)	day	13896.00	13896.00	13896.00	13896.00
MP0118	Spot Mix Plant, 10/16 TPH	day	19168.00	19168.00	19168.00	19168.00
MP0119	Spot Mix Plant, 6/10 TPH	day	9298.80	9299.80	9300.80	9301.80
MP0120	Excavator(PC - 200)	day	16224.00	16224.00	16224.00	16224.00
MP0121	Excavator(PC - 120)	day	11680.00	11680.00	11680.00	11680.00
MP0122	Excavator (PC60)	day	7467.60	7467.60	7467.60	7467.60
MP0123	Excavator CAT 312B	day	13472.00	13472.00	13472.00	13472.00
MP0124	Excavator CAT 320	day	16144.00	16144.00	16144.00	16144.00
MP0125	Water Pump - KUBOTA	day	1472.00	1472.00	1472.00	1472.00
MP0126	Backhoe Loader (CASE 580 Super M)	day	9536.00	9536.00	9536.00	9536.00
MP0127	Backhoe Loader (CAT 416)	day	7840.00	7840.00	7840.00	7840.00
MP0128	Pay Loader (IH 510B)	day	9727.20	9727.20	9727.20	9727.20
MP0129	Pay Loader (IH 515B)	day	10164.00	10164.00	10164.00	10164.00
MP0130	Pay Loader (CAT 916)	day	11240.00	11240.00	11240.00	11240.00
MP0131	Pay Loader (CAT 926E)	day	11856.00	11856.00	11856.00	11856.00
MP0132	Pay Loader (CAT 930)	day	13032.00	13033.00	13034.00	13035.00
MP0133	Pay Loader (CAT 928F)	day	14848.00	14848.00	14848.00	14848.00
MP0134	Road Broom (Mechanical), 2595 x 1220 x 965	day	984.00	984.00	984.00	984.00
MP0135	Road Roller (10 tonnes, BRITANIA)	day	4048.00	4048.00	4048.00	4048.00
MP0136	RoadRoller (10 tonnes, JAYPEE)	day	2184.00	2184.00	2184.00	2184.00
MP0137	Road Roller (8 tonnes, JESSOP)	day	3049.20	3049.20	3049.20	3049.20
MP0138	Road Roller (8 tonnes, Speed Craft)	day	4160.00	4160.00	4160.00	4160.00
MP0139	Road Roller (Pneumatic Tyre) TS -300	day	11240.00	11240.00	11240.00	11240.00
MP0140	Road Roller (SV91 Sakai)	day	11408.00	11408.00	11408.00	11408.00
MP0141	Concrete Pump	day	14440.00	14440.00	14440.00	14440.00
MP0142	Concrete /Grout Pump, P -88	day	11048.00	11048.00	11048.00	11048.00

Code	Description	Unit	PL	GP	SJ	TH
MP0143	Core Drill Machine, TS190R -S	day	19051.20	19052.20	19053.20	19054.20
MP0144	Fork Lift - Toyota	day	3768.00	3768.00	3768.00	3768.00
MP0145	Tanker (NISSAN)	day	5584.00	5584.00	5584.00	5584.00
MP0146	Tanker (TATA)	day	5360.00	5360.00	5360.00	5360.00
MP0147	Canter Tipper, Mitsubishi	day	3928.00	3928.00	3928.00	3928.00
MP0148	Tata LB (1210SE)	day	4792.00	4793.00	4794.00	4795.00
MP0149	Tata LB (1612SE)	day	5096.00	5096.00	5096.00	5096.00
MP0150	Canter Tipper, Long Body, FE444E(Nissan)	day	4192.00	4192.00	4192.00	4192.00
MP0151	Tripper(Hino), 172 KD	day	4520.00	4521.00	4522.00	4523.00
MP0152	ISUZU Tipper	day	6256.00	6256.00	6256.00	6256.00
MP0153	Tractor with Trailor, Toyota	day	3784.00	3784.00	3784.00	3784.00
MP0154	Trailor(HINO 25 MT)	day	24376.00	24376.00	24376.00	24376.00
MP0155	Road Brush Head, Sweetper	day	680.40	681.40	682.40	683.40
MP0156	Rock Breaker(Top 200) Kobelco	day	4648.00	4648.00	4648.00	4648.00
MP0157	Asphalt/Bitumen heating Kettle, India Make	day	3208.80	3209.80	3210.80	3211.80
MP0158	Jack Hammer	day	768.00	768.00	768.00	768.00
MP0159	Asphalt/Bitumen heating Kettle, Japan Make	day	8040.00	8040.00	8040.00	8040.00
MP0160	Explosive Van, FE1210	day	5233.20	5233.20	5233.20	5233.20
MP0161	Daewoo Dumper/Tipper	day	5408.00	5408.00	5408.00	5408.00
MP0162	Lubricating/Service Van, ISUZU	day	4616.00	4616.00	4616.00	4616.00
MP0163	Lubricating/Service Van, TATA	day	4584.00	4584.00	4584.00	4584.00
MP0164	Mini-Dumper, TATA	day	2752.00	2752.00	2752.00	2752.00
MP0165	Nissan Dumper/Tipper CKA12HHT (10 MT)	day	6024.00	6024.00	6024.00	6024.00
MP0166	Nissan Dumper/Tipper CKA12HHT (8 MT)	day	5520.00	5520.00	5520.00	5520.00
MP0167	Side Dump Truck	day	2646.00	2647.00	2648.00	2649.00
MP0168	TATA Tipper, 1612 SE	day	5096.00	5096.00	5096.00	5096.00
MP0169	TATA Mini Truck, 407	day	2848.00	2849.00	2850.00	2851.00
MP0170	Trailer CPB12E16772, NISSAN 10MT	day	10296.00	10296.00	10296.00	10296.00
MP0171	Trailer Short Body NISSAN 20MT	day	17456.00	17456.00	17456.00	17456.00
MP0172	Truck Mounted Concrete Mixer, 1612 SE	day	7928.00	7928.00	7928.00	7928.00
MP0173	Truck with Crane, HINO/ISUZU	day	7664.00	7664.00	7664.00	7664.00
MP0174	Vibromax	day	907.20	908.20	909.20	910.20
MP0175	Workshop Van	day	5416.00	5416.00	5416.00	5416.00
MP0200	Roller, CAT - CS551	day	12280.00	12280.00	12280.00	12280.00
MP0201	Water pump AVI Type	day	1072.00	1072.00	1072.00	1072.00
MP0202	Welder - Electric arc	day	183.75	183.75	183.75	183.75
MP0203	Pay Loader (CAT -910)	day	8568.00	8568.00	8568.00	8568.00
MP0204	Crusher (Kurimoto FJ-2010 R)	day	7480.00	7480.00	7480.00	7480.00
MP0205	Concrete Mixer(7/10Cft)	day	1680.00	1680.00	1680.00	1680.00
MP0206	Concrete Vibrator(M/C5)	day	1152.00	1152.00	1152.00	1152.00
MP0207	Stone Crusher(Sisco)	day	4920.00	4920.00	4920.00	4920.00
MP0208	Bull Dozer (IH TD20E)	day	18261.60	18261.60	18261.60	18261.60
MP0209	Hyd. Excavator (IH640)	day	13918.80	13918.80	13918.80	13918.80
MP0210	Motor Grader (CAT 130G)	day	14544.00	14544.00	14544.00	14544.00
MP0211	Truck/Tipper (Tata,1210SK32)	day	4480.00	4481.00	4482.00	4483.00
MP0212	Compressor (CPS300)	day	6120.00	6120.00	6120.00	6120.00
MP0213	Road Broom (TD96)	day	624.00	625.00	626.00	627.00

Code	Description	Unit	PL	GP	SJ	TH
MP0214	Asphalt/Bitumen Sprayer (Hino)	day	6240.00	6240.00	6240.00	6240.00
MP0215	Drill (Pinjor Machine)	day	1153.28	1154.28	1155.28	1156.28
MP0216	Air Compressor CPS-300	day	6120.00	6120.00	6120.00	6120.00
MP0217	Air Compressor CPS-325	day	6456.00	6456.00	6456.00	6456.00
MP0218	Air Compressor P-310	day	6072.00	6072.00	6072.00	6072.00
MP0219	Excavator SK 115	day	12688.00	12688.00	12688.00	12688.00
MP0220	Excavator SK 200-6	day	15856.00	15856.00	15856.00	15856.00
MP0221	Motor Grader CASE 845	day	15088.00	15088.00	15088.00	15088.00
MP0222	Motor Grader CAT 130 G	day	14544.00	14544.00	14544.00	14544.00
MP0223	Road marking machine	day	2000.00	2001.00	2002.00	2003.00
MP0224	Rock Breaker(900N) Konan	day	3800.00	3800.00	3800.00	3800.00
MP0225	Transit Mixer (Tata LPK 2518C)	day	11976.00	11976.00	11976.00	11976.00
MP0226	Hydraulic Jumbo DT820	day	56360.00	56360.00	56360.00	56360.00
MP0227	Concrete Sprayer	day	52360.00	52360.00	52360.00	52360.00
MP0228	Asphalt Distributor (Isuzu)	day	9496.00	9496.00	9496.00	9496.00
MP0229	Asphalt Paver (Appollo/WM6-HES)	day	8264.00	8264.00	8264.00	8264.00
MP0230	Asphalt Plant,Mobile (Nikko,Japan/NP200PT)	day	53712.00	53712.00	53712.00	53712.00
MP0231	Asphalt Drum Mix Plant (DM-20 (Speed Craft))	day	67256.00	67256.00	67256.00	67256.00
MP0232	Back Hoe Loader (Komatsu WB93R-5)	day	8664.00	8664.00	8664.00	8664.00
MP0233	Concrete Mixer Truck Mounted (isuzu)	day	7928.00	7928.00	7928.00	7928.00
MP0234	Concrete/ Grout Pump (P-88 short Crete)	day	11048.00	11048.00	11048.00	11048.00
MP0235	Excavator (SK 200-8)	day	15200.00	15200.00	15200.00	15200.00
MP0236	Excavator(PC - 200-8)	day	16272.00	16272.00	16272.00	16272.00
MP0237	Excavator (SK 200-8) Super-X	day	16600.00	16600.00	16600.00	16600.00
MP0238	Fork Lift - TCM Japan	day	2800.00	2800.00	2800.00	2800.00
MP0239	Fork Lift - Doosan	day	3104.00	3104.00	3104.00	3104.00
MP0240	Fuel Tanker (Isuzu)	day	5208.00	5208.00	5208.00	5208.00
MP0241	Generator (Japan, SDG60S/15)	day	2224.00	2224.00	2224.00	2224.00
MP0242	Generator (TLW-450SSW1)	day	2872.00	2872.00	2872.00	2872.00
MP0243	Generator ESSDO(Kriloskar)	day	2616.00	2616.00	2616.00	2616.00
MP0244	Hydra Crane (Escort Hydra-14)	day	10504.00	10504.00	10504.00	10504.00
MP0245	JCB Robot (170KF Loader)	day	7104.00	7104.00	7104.00	7104.00
MP0246	Kato Crane (KR250)	day	20400.00	20400.00	20400.00	20400.00
MP0247	Motor Grader(MG-330)	day	12416.00	12416.00	12416.00	12416.00
MP0248	MB Crusher (Kobelco)	day	5248.00	5248.00	5248.00	5248.00
MP0249	Mini Mobile Batching Plant (Cosmos/CRM-1000)	day	3792.00	3792.00	3792.00	3792.00
MP0250	Nissan Dumper/Tipper (PKB214E 2004 Model)	day	5024.00	5024.00	5024.00	5024.00
MP0251	Plate Compator Vibratory(Taccom)	day	904.00	904.00	904.00	904.00
MP0252	Road Roller(Tamdem)JCB/VMT860	day	9440.00	9440.00	9440.00	9440.00
MP0253	Road Roller(Static)Speed Craft	day	3672.00	3672.00	3672.00	3672.00
MP0254	Road Roller (Vibratory)SV91 SAKAI	day	10320.00	10320.00	10320.00	10320.00
MP0255	Road Roller Hand Guide (Taccom)	day	1352.00	1352.00	1352.00	1352.00
MP0256	Road Roller Vibratory Sakai, SW651	day	10040.00	10040.00	10040.00	10040.00
MP0257	Rock Drilling Rig/Machine Sandvik DC 120	day	18976.00	18976.00	18976.00	18976.00
MP0258	Rock Drilling Rig/Machine Atlascopco ROC T-15	day	19000.00	19000.00	19000.00	19000.00
MP0259	Rock Drilling Rig/Machine Sandvik DC 121R	day	19264.00	19264.00	19264.00	19264.00
MP0260	Service Crane/truck (Hino)	day	6520.00	6520.00	6520.00	6520.00

Code	Description	Unit	PL	GP	SJ	TH
MP0261	Service Crane 3.4 ton (Isuzu)	day	7328.00	7328.00	7328.00	7328.00
MP0262	Service Crane 5ton (Isuzu)	day	9120.00	9120.00	9120.00	9120.00
MP0263	Stone Crusher,Mobile PFJ-4(KYC)	day	16864.00	16864.00	16864.00	16864.00
MP0264	Sand Wahsing Machine CHM	day	1480.00	1480.00	1480.00	1480.00
MP0265	Terra 16 Tripper (Eitcher)	day	5152.00	5152.00	5152.00	5152.00
MP0266	TATA Tripper 1613LPK	day	4936.00	4936.00	4936.00	4936.00
MP0267	TATA Tripper 1613 C (Turbo)	day	5536.00	5536.00	5536.00	5536.00
MP0268	Tripper (Isuzu)	day	5184.00	5184.00	5184.00	5184.00
MP0269	Tractor with Trailor, John Deree	day	3120.00	3120.00	3120.00	3120.00
MP0270	Tractor with Trailor,Escorts/New Holland (50-55HP)	day	3440.00	3440.00	3440.00	3440.00
MP0271	Water Pump Kubota	day	1080.00	1080.00	1080.00	1080.00
MP0272	wheel Loader	day	11648.00	11648.00	11648.00	11648.00
MP0273	Fuel Tanker LPT 1109 TATA	day	4688.00	4688.00	4688.00	4688.00
MP0274	Mobile Batching plant (CP-18) SCHWING Stetter	day	8200.00	8200.00	8200.00	8200.00

Note: Built-up rates are inclusive of HSD, M.Oil, Operators/drivers, etc complete.

SECTION 2

Mechanical Transportation Costs

CARRIAGE OF MATERIALS - MECHANICAL TRANSPORT INCLUDING LOADING, UNLOADING AND STACKING**1 HILL ROADS**

Sl.no	Materials	Unit	Quantity payable	Rate Per Km/unit							
				1 km	2km	3km	4 km	5 km	beyond 5 upto 10 km for every km	beyond 10 upto 20 km for every km	beyond 20 for every km
		1	2	3	4	5	6	7	8	9	10
1	Lime, moorum, building rubbish	cu.m	6	146.47	157.83	168.96	179.58	189.72	10.59	9.58	8.16
2	Dry earth	cu.m	4.8	183.09	197.29	211.19	224.47	237.15	13.24	11.97	10.20
3	Manure or Sludge	cu.m	5.7	154.18	166.14	177.85	189.03	199.71	11.15	10.08	8.59
4	Excavated Rock	cu.m	3	292.94	315.66	337.91	359.15	379.45	21.18	19.16	16.33
5	Sand, stone aggregates of less than 40 mm size	cu.m	5	175.76	189.40	202.75	215.49	227.67	12.71	11.49	9.80
6	Stone aggregates of more than 40 mm size	cu.m	4.6	191.05	205.87	220.38	234.23	247.46	13.82	12.49	10.65
7	stone boulders	cu.m	4.25	206.78	222.82	238.53	253.52	267.84	14.95	13.52	11.52
8	bricks	1000 nos	2000	439.41	473.49	506.87	538.73	569.17	31.78	28.74	24.49
9	tiles	1000 nos	3000	292.94	315.66	337.91	359.15	379.45	21.18	19.16	16.33
10	cement	tonne	8	109.85	118.37	126.72	134.68	142.29	7.94	7.18	6.12
11	GI, CI Pipes	tonne	7	125.54	135.28	144.82	153.92	162.62	9.08	8.21	7.00
12	Concrete	tonne	7	125.54	135.28	144.82	153.92	162.62	9.08	8.21	7.00
13	steel	tonne	8	109.85	118.37	126.72	134.68	142.29	7.94	7.18	6.12
14	bitumen	tonne	4.5	195.29	210.44	225.27	239.43	252.96	14.12	12.77	10.88
15	timber	cu.m	7.5	117.17	126.26	135.16	143.66	151.78	8.47	7.66	6.53

CARRIAGE OF MATERIALS - MECHANICAL TRANSPORT INCLUDING LOADING, UNLOADING AND STACKING**2. PLAIN ROADS**

sl.no	Materials	Unit	quantity payable	Rate Per Km/unit							
				1 km	2km	3km	4 km	5 km	beyond 5 upto 10 km for every km	beyond 10 upto 20 km for every km	beyond 20km for every km
		1	2	3	4	5	6	7	8	9	10
1	Lime, moorum, building rubbish	cu.m	6	143.96	153.61	162.89	171.82	180.42	7.51	6.78	6.02
2	Dry earth	cu.m	4.8	179.95	192.01	203.61	214.78	225.53	9.39	9.39	7.53
3	Manure or Sludge	cu.m	5.7	151.53	161.69	171.46	180.86	189.92	7.90	7.13	6.34
4	Excavated Rock	cu.m	3	287.91	307.22	325.78	343.64	360.84	15.02	13.56	12.05
5	Sand, stone aggregates of less than 40 mm size	cu.m	5	172.75	184.33	195.47	206.19	216.51	9.01	8.13	7.23
6	Stone aggregates of more than 40 mm size	cu.m	4.6	187.77	200.36	212.47	224.11	235.33	9.79	8.84	7.86
7	stone boulders	cu.m	4.25	203.23	216.86	229.96	242.57	254.71	10.60	9.57	8.50
8	bricks	1000 nos	2000	431.87	460.83	488.67	515.46	541.26	22.53	20.33	18.07
9	tiles	1000 nos	3000	287.91	307.22	325.78	343.64	360.84	15.02	13.56	12.05
10	cement	tonne	8	107.97	115.21	122.17	128.87	135.32	5.63	5.08	4.52
11	GI, CI Pipes	tonne	7	123.39	131.67	139.62	147.28	154.65	6.44	5.81	5.16
12	Concrete	tonne	7	123.39	131.67	139.62	147.28	154.65	6.44	5.81	5.16
13	steel	tonne	8	107.97	115.21	122.17	128.87	135.32	5.63	5.08	4.52
14	bitumen	tonne	4.5	191.94	204.81	217.19	229.09	11.11	10.01	9.04	8.03
15	timber	cu.m	7.5	115.17	122.89	130.31	137.46	144.34	6.01	5.42	4.82

NOTE : For manual transportation, refer the LMC (CIVIL) - 2017 and SBRW

SECTION 3 - Built Up Rates

Code	Description	Units	PL	GP	SJ	TH
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Chapter 1: DISMANTLING & DEMOLITION WORK**Concrete**

DD0001	Demolishing cement concrete 1:3:6 & richer, including disposal of materials within 50m lead	cu.m	785.28	785.28	785.28	785.28
DD0002	Demolishing cement concrete 1:4:8 & leaner, including disposal of materials within 50m lead	cu.m	486.39	486.39	486.39	486.39
DD0003	Demolishing reinforced concrete, including stacking steel bars and disposal of rubbish within 50m lead	cu.m	1144.78	1144.78	1144.78	1144.78

Lime concrete

DD0004	Demolishing lime concrete and disposal of rubbish within 50m lead	cu.m	206.51	206.51	206.51	206.51
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Stone Masonry**Demolishing stone rubble masonry including stacking useful materials & disposal of rubbish within 50m lead**

DD0005	In lime mortar	cu.m	298.90	298.90	298.90	298.90
DD0006	In cement mortar	cu.m	611.38	611.38	611.38	611.38

Dismantling dressed ashlar face stone work including stacking useful materials & disposal of rubbish within 50m lead

DD0007	In lime mortar	cu.m	380.41	380.41	380.41	380.41
DD0008	In cement mortar	cu.m	733.66	733.66	733.66	733.66

Removing mortar from stones, cleaning stones and concrete articles, and arranging in stacks

DD0009	In lime mortar	cu.m	311.03	311.03	311.03	311.03
DD0010	In cement mortar	cu.m	344.64	344.64	344.64	344.64

Brick & Hollow Block Masonry

DD0011	Demolishing hollow block masonry including stacking useful materials & disposal of rubbish within 50m lead	cu.m	1109.99	1109.99	1109.99	1109.99
DD0012	Demolishing reinforced brickwork, including stacking steel bars and disposal of rubbish within 50m lead	cu.m	1025.76	1025.76	1025.76	1025.76
DD0013	Extra for scraping, cleaning, straightening reinforcement from R.C & reinforced brick work	kg	2.99	2.99	2.99	2.99
DD0014	Extra for cutting reinforcement bars in reinforced cement concrete and reinforced brickwork(payment to be made the cross sectional area of RCC or RB work)	sq.m	326.07	326.07	326.07	326.07

Code	Description	Units	PL	GP	SJ	TH
Demolishing brick work including stacking useful materials & disposal of rubbish within 50m lead						
DD0015	In mud mortar	cu.m	176.62	176.62	176.62	176.62
DD0016	In lime mortar	cu.m	209.23	209.23	209.23	209.23
DD0017	In cement mortar	cu.m	516.28	516.28	516.28	516.28
Removing Mortar from bricks and cleaning bricks including stacking useful materials within 50m lead						
DD0018	From BW in mud mortar	1000#	1172.27	1172.27	1172.27	1172.27
DD0019	From BW in lime mortar	1000#	1339.15	1339.15	1339.15	1339.15
DD0020	From BW in cement mortar	1000#	1671.57	1671.57	1671.57	1671.57
Steel Work						
Dismantling steelwork in single sections including dismembering and stacking within 50m lead						
DD0021	In RS joists	kg	0.92	0.92	0.92	0.92
DD0022	In channels, angles, tees and flats	kg	0.82	0.82	0.82	0.82
DD0023	Dismantling steelwork in built up sections in channels, angles, tees and flats in all gusset plates, bolts, nuts, cutting rivets, welding etc. including dismembering and stacking within 50 m lead	kg	1.90	1.90	1.90	1.90
DD0024	Dismantling steelwork in built up sections without dismembering and stacking within 50 m lead	kg	1.63	1.63	1.63	1.63
Wood work						
DD0025	Dismantling wood work of sectional area 40 sq.cm and above in frames, trusses (<10m span) including stacking within 50m lead	cu.m	796.18	796.18	796.18	796.18
DD0026	Dismantling wood work of sectional area <40 sq.cm in frames, trusses including stacking within 50m lead	m	72.42	72.42	72.42	72.42
DD0027	Extra for dismantling trusses, rafters, purlins etc. of every additional span of 1 metre or part thereof for span >10m (sectional area > 40sq.cm)	cu.m	158.42	158.42	158.42	158.42
DD0028	Extra for dismantling trusses, rafters, purlins etc. every additional span of 1metre or part thereof >10m (sectional area < 40sq.cm)	cu.m	0.72	0.72	0.72	0.72
DD0029	Dismantling doors, windows, and clerestory windows <3sq.m (steel, wood) including architrave, hold fasts, stacking within 50m lead	each	123.92	123.92	123.92	123.92
DD0030	Dismantling doors, windows and clerestory windows >3sq.m (steel\wood) including architrave, hold fasts, and stacking within 50m lead	each	169.13	169.13	169.13	169.13
DD0031	Taking out doors, windows and clerestory windows shutters <3sq.m (steel, wood) including stacking within 50m lead	each	47.27	47.27	47.27	47.27

Code	Description	Units	PL	GP	SJ	TH
DD0032	Taking out doors, windows and clerestory window shutters >3sq.m (steel or wood) including stacking within 50m lead	each	113.35	113.35	113.35	113.35
Flooring						
DD0040	Dismantling wooden flooring including stacking useful materials & disposal of rubbish within 50m lead	sq.m	50.67	50.67	50.67	50.67
DD0041	Dismantling dry brick patching in floors, drains etc including stacking useful materials & disposal of rubbish within 50m lead	cu.m	339.66	339.66	339.66	339.66
DD0042	Dismantling stone slab flooring laid in cement mortar including stacking useful materials & disposal of rubbish within 50m lead	sq.m	69.18	69.18	69.18	69.18
DD0043	Dismantling jack arch roofing and floors including stacking useful materials & disposal of rubbish within 50m lead	sq.m	67.93	67.93	67.93	67.93
Roofing						
DD0045	Dismantling G.I sheets including ridges, hips, valleys, gutters & stacking materials within 50m lead	sq.m	56.55	56.55	56.55	56.55
DD0046	Dismantling tiled roofing with batten boarding etc. complete including stacking useful materials & disposal of rubbish within 50m lead	sq.m	60.21	60.21	60.21	60.21
Metal work						
DD0050	Dismantling expanded metal, fabrics & battens, beading including stacking useful within 50m lead	sq.m	24.90	24.90	24.90	24.90
Fencing						
DD0055	Dismantling barbed wire, flexible wire including making rolls & stacking within 50m lead	kg	11.96	11.96	11.96	11.96
DD0056	Dismantling fence posts, struts\T & L iron\pipes & earth work\demolishing of concrete and stacking within 50m lead	each	113.44	113.44	113.44	113.44
DD0057	Dismantling fence posts, struts R.C including earth work\demolishing concrete footings, stacking, 50m lead	each	135.02	135.02	135.02	135.02
DD0058	Cutting ballies\wooden posts at ground or projection above concrete & stacking within 50m lead	each	33.97	33.97	33.97	33.97
Ceiling & Cladding						
DD0065	Dismantling cement A.C, celotex, hardboard ceiling, partition, including stacking useful materials & disposal rubbish within 50m	sq.m	19.36	19.36	19.36	19.36

Code	Description	Units	PL	GP	SJ	TH
DD0066	Dismantling of ekra wall in cement mortar 1:6 or richer including stacking useful materials & disposal of rubbish within 50m lead	sq.m		34.31	34.31	34.31
DD0067	Dismantling old plaster or skirting, raking out joints and cleaning the surface for plaster including disposal of rubbish within 50m lead	sq.m		13.59	13.59	13.59

Pipes

Demolishing of old S.W pipes including breaking joints, bed concrete, stacking of useful materials & disposal of rubbish within 50m lead

DD0075	100mm dia	m		29.07	29.07	29.07
DD0076	150mm dia	m		32.06	32.06	32.06
DD0077	200mm dia	m		34.24	34.24	34.24

Dismantling CI pipes including excavation and refilling trenches after taking out the pipes, breaking lead caulked joints, melting of lead and making into blocks, stacking of pipes at site and disposal of rubbish within 50m lead

DD0078	Up to 150 mm dia	m		90.74	90.86	90.96
DD0079	From 150 mm up to 300 mm	m		135.20	135.42	135.84
DD0080	Above 300 mm dia	m		217.61	218.26	219.66

Dismantling of G.I or HDPE pipes of diameter 100mm to 250mm including breaking bed concrete, clamps, etc. and stacking of useful materials & disposal of rubbish within 50 m lead

DD0085	G.I Pipes	m		26.36	26.36	26.36
DD0086	H.D.P.E Pipes	m		34.78	34.78	34.78

Precast Walls

Dismantling of precast concrete or stone slabs in walls, partition walls etc. including stacking of useful materials & disposal of rubbish within 50 m lead

DD0090	Up to 40 mm thickness	sq.m		78.57	78.57	78.57
DD0091	Above 40 mm thickness and up to 74mm thickness	sq.m		115.64	115.64	115.64

Roads

DD0095	Dismantling water bound macadam road including stacking of useful materials & disposal of rubbish within 50 m lead	sq.m		60.87	60.87	60.87
DD0096	Dismantling bituminous road including cutting, stacking of useful materials & disposal of rubbish within 50 m lead	sq.m		9.37	9.37	9.37

Cisterns

DD0100	Dismantling of flushing cistern of any size including stacking of useful materials & disposal of rubbish within 50 m lead	no		234.82	234.82	234.82
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Code	Description	Units	PL	GP	SJ	TH
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Chapter 2: CLEARING AND GRUBBING

Clearing Grass

CG0001	Clearing grass including removal of rubbish within 50m of site	sq.m	2.88	2.88	2.88	2.88
CG0002	Clearing jungle including uprooting of vegetation & trees of girth < 300mm & disposal within 50m of the site	sq.m	9.10	9.10	9.10	9.10

Felling Trees (Manually)

Felling trees including cutting of trunks and branches, removal of roots, stacking of serviceable materials and disposal of rubbish within 50m lead

CG0010	Girth 300 to 600mm	each	84.94	84.94	84.94	84.94
CG0011	Girth 600 to 1200m	each	383.13	383.13	383.13	383.13
CG0012	Girth 1200 to 2400	each	1783.19	1783.19	1783.19	1783.19
CG0013	Girth > 2400mm	each	3566.38	3566.38	3566.38	3566.38

Felling Trees (Dozer)

Felling of trees including removal of roots and disposal of rubbish using bull dozer (excluding cutting of trunks, branches & stacking)

CG0020	Girth 300 to 600mm	Each	76.69	76.69	76.69	76.69
CG0021	Girth 600 to 1200m	Each	289.43	289.40	289.40	289.40
CG0022	Girth 1200 to 2400	Each	578.85	578.81	578.81	578.80
CG0023	Girth > 2400m	Each	1051.18	1051.10	1051.10	1051.09

Landslide Debris

CG0030	Clearing grass removal of landslide debris & surface material including excavation & disposal within 50m lead	cu.m	61.41	61.41	61.41	61.41
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Code	Description	Units	PL	GP	SJ	TH
Chapter 3: EARTH WORK						
Excavation (Manually)						
Surface dressing of ground, including removal of vegetations and inequalities < 150mm deep, disposal of rubbish within 50m lead and 1.5m lifts						
EW0001	Ordinary Soil	sq.m	9.21	9.21	9.21	9.21
EW0002	Hard Soil	sq.m	12.93	12.93	12.93	12.93
Ploughing the existing ground to a depth 150mm to 250mm, and watering the same						
EW0010	Ordinary Soil	sq.m	3.40	3.40	3.40	3.40
EW0011	Hard Soil	sq.m	8.15	8.15	8.15	8.15
Earth work in surface excavation, depth <300mm, width >1.5m, area >10 Sq.m in plan, including disposal of excavated earth within 50m lead & 1.5m lift and disposed soil to be neatly dressed						
EW0020	Ordinary Soil	sq.m	17.01	17.01	17.01	17.01
EW0021	Hard Soil	sq.m	23.78	23.78	23.78	23.78
Earth work in excavation over areas, depth >300mm, width >1.5m, area >10 Sq.m on plan, including disposal of excavated earth within 50m lead and 1.5m lift & disposed soil to be neatly dressed						
EW0030	Ordinary Soil	cu.m	116.87	116.87	116.87	116.87
EW0031	Hard Soil	cu.m	151.16	151.16	151.16	151.16
EW0032	Ordinary rock with or without blasting	cu.m	469.01	469.08	469.08	469.08
EW0033	Hard rock requiring blasting	cu.m	646.08	646.23	646.23	646.23
EW0034	Hard rock requiring chiselling (where blasting is prohibited)	cu.m	987.83	987.83	987.83	987.83
Extra for every additional lead of 25m beyond 50m up to 250m and deposit to a level up to 1.5m						
EW0035	All Kinds of Soil	cu.m	35.32	35.32	35.32	35.32
Extra for every additional lead of 250m beyond 50m up to 1000m and deposit to a level up to 1.5m						
EW0040	All Kinds of Soil	cu.m	58.45	58.45	58.45	58.47
Dozer Excavation						
Earth work in excavation over areas by Dozer including levelling and dressing						
EW0046	All kinds of Soil	cu.m	80.01	80.01	80.01	80.01
EW0047	All kinds of rocks (blasted)	cu.m	107.71	107.71	107.71	107.71
Blasting Operation						
Blasting of rocks complete excluding the cost of collection and stacking of blasted rock						
EW0055	Ordinary rock	cu.m	81.83	81.92	81.92	81.92
EW0056	Hard rock	cu.m	163.66	163.84	163.84	163.84

Code	Description	Units	PL	GP	SJ	TH
Silent Blaster						
Breaking of rocks using non-explosive blaster (silent blaster) in over areas, depth >300mm, width >1.5m, area >10sq.m on plan including stacking of boulders or useful materials and disposal of rubbish etc. complete						
EW0065	Ordinary rock	cu.m	4545.66	4600.49	4940.54	4680.17
EW0066	Hard rock	cu.m	4713.19	4768.02	5108.07	4847.70
Breaking of rocks using non-explosive blaster (silent blaster) in foundation trenches width <1.5m, area <10sq.m on plan including stacking of boulders or useful materials and disposal of rubbish etc. complete						
EW0075	Ordinary rock	cu.m	4595.66	4650.49	4990.54	4730.16
EW0076	Hard rock	cu.m	4794.71	4849.54	5189.59	4929.22
Excavation & Banking						
Earth work in rough excavation & banking of excavated earth in layers < 200 mm in depth for road, flood/guide banks & depressions, including watering, power rolling, dressing, lead upto 50m & 1.5m lift						
EW0085	All Kinds of Soil	cu.m	182.28	182.28	182.28	182.28
Banking excavated earth for road, flood banks, guide banks & depressions, in layers <200mm depth, including watering, rolling & dressing up within 50m lead & 1.5m lift						
EW0096	All Kinds of Soil	cu.m	122.96	122.96	122.96	122.96
EW0097	Deduction - for not rolling with power roller in layered banking works	cu.m	28.92	28.92	28.92	28.92
EW0098	Deduction - for not watering in layered, banking works	cu.m	5.79	5.79	5.79	5.79
Excavation in foundation trenches or drains not exceeding 1.5m in width or area 10 sq.m on plan, including dressing & ramming, disposal of surplus soil within 50m lead & 1.5m lift						
EW0105	Ordinary Soil	cu.m	124.67	124.67	124.67	124.67
EW0106	Hard Soil	cu.m	159.77	159.77	159.77	159.77
EW0107	Ordinary rock with or without blasting	cu.m	503.92	504.06	504.06	504.06
EW0108	Hard rock requiring blasting	cu.m	732.99	733.26	733.26	733.26
EW0109	Hard rock requiring chiselling (where blasting is prohibited)	cu.m	1002.23	1002.23	1002.23	1002.23
Extra for every additional lift of 1.5m or part thereof						
EW0115	All kinds of soils	cu.m	13.59	13.59	13.59	13.59
EW0116	All kinds of rocks	cu.m	24.18	24.18	24.18	24.18
Extra for trench, pit works per cu.m per m depth						
EW0125	Under water	cu.m	44.46	44.46	44.46	44.46
EW0126	In foul conditions	cu.m	39.94	39.94	39.94	39.94

Code	Description	Units	PL	GP	SJ	TH
Excavation/Refilling for Pipes/Cables						
Hand excavation and refilling in layers < 200mm, of trenches for pipes & sockets, cables, including dressing of sides/ ramming of bottom, depth upto 1.5m, disposal of surplus material within lead of 50m: All kinds of soil						
EW0135	Pipes, cables etc. 80mm < dia < 300mm	m	174.49	174.49	174.49	174.49
EW0136	Pipes, cables etc. dia.>300 mm	m	272.36	272.36	272.36	272.36
Hand excavation and refilling in layers < 200mm, of trenches for pipes & sockets, cables, including dressing of sides/ ramming of bottom, depth upto 1.5m, disposal of surplus material within lead of 50m: Ordinary rock with or without blasting						
EW0155	Pipes, cables etc. 80mm < dia < 300mm	m	695.22	695.38	695.38	695.38
EW0156	Pipes, cables etc. dia.> 300mm	m	799.97	800.16	800.16	800.16
Hand excavation and refilling in layers < 200mm, of trenches for pipes & sockets, cables, including dressing of sides/ ramming of bottom, depth upto 1.5m, disposal of surplus material within lead of 50m: Hard rock requiring blasting						
EW0165	Pipes, cables etc. 80mm < dia < 300mm	m	963.22	963.55	963.55	963.55
EW0166	Pipes, cables etc. dia.> 300mm	m	1108.42	1108.80	1108.80	1108.80
Hand excavation and refilling in layers < 200mm, of trenches for pipes & sockets, cables, including dressing of sides/ ramming of bottom, depth upto 1.5m, disposal of surplus material within lead of 50m: Hard rock requiring chiselling (where blasting is prohibited)						
EW0175	Pipes, cables etc. 80mm < dia < 300mm	m	1278.24	1278.24	1278.24	1278.24
EW0176	Pipes, cables etc. dia.> 300mm	m	1470.99	1470.99	1470.99	1470.99
Extra for excavating trenches for pipes, cables etc., 1.5 < depth < 3m						
EW0185	All kinds of Soils	m	361.60	361.60	361.60	361.60
EW0186	All kinds of Rocks	m	1838.74	1838.74	1838.74	1838.74
Filling or bedding						
EW0195	Filling of trenches, sides of foundations etc. in layers <200mm using selected excavated earth, ramming etc. within lead 50 m & lift 1.5m	cu.m	80.29	80.29	80.29	80.29
EW0196	Providing & laying sand bedding, including watering, ramming, dressing	cu.m	471.64	471.64	770.37	933.59
EW0197	Providing & laying dry earth bedding, including consolidating each deposited layer by watering, ramming and dressing	cu.m	183.11	181.14	186.14	184.66
Timbering for Trenches & cuts						
Open timbering over areas including lagging & strutting of trenches, cuts (per sq.m face area timbered)						
EW0205	Depth not exceeding 1.5m	sq.m	123.00	115.64	120.17	118.39
EW0206	1.5m < depth < 3 m	sq.m	126.12	118.76	123.29	121.51
EW0207	Depth > 3 m	sq.m	131.59	124.23	128.75	126.98

Code	Description	Units	PL	GP	SJ	TH
Close timbering over areas including lagging & strutting of trenches, cuts (per sq.m face area timbered)						
EW0215	Depth not exceeding 1.5m	sq.m	340.90	319.57	331.73	325.21
EW0216	1.5m < depth < 3m	sq.m	349.15	327.81	339.97	333.45
EW0217	3m < depth < 4.5m	sq.m	357.37	336.03	348.19	341.67
Close timbering including lagging & strutting of shafts, wells, cess pits, manholes (per sq.m face area timbered)						
EW0225	Depth not exceeding 1.5m	sq.m	310.92	292.13	303.28	298.19
EW0226	1.5m < Depth < 3m	sq.m	321.68	302.90	314.05	308.95
EW0227	3m < Depth < 4.5m	sq.m	333.20	314.42	325.57	320.47
D e - W a t e r i n g						
EW0235	Pumping out water caused by springs, river, seepage, broken water mains, drains, and alike	cu.m	105.27	105.27	105.27	105.27
Anti - Termite Treatment						
EW0240	Providing and injecting chemical emulsion for Pre-construction anti-termite treatment using aldrin emulsifiable 0.5% concentration	sq.m	120.61	124.18	124.33	124.86
Providing and injecting chemical emulsion for Post-construction, using aldrin emulsifiable 0.5% concentration						
EW0245	Along outside of foundation	m	282.32	285.89	286.05	286.57
EW0246	Along external walls below concrete \ masonry apron	m	206.10	206.70	206.73	206.81
EW0247	Under existing floors including drilling & plugging 12mm holes with mortar 1:2	sq.m	365.00	365.79	365.82	365.94
EW0248	Voids in masonry including drilling holes at 45 degree & plugging with cement mortar 1:2)	m	229.34	229.72	229.74	229.80
EW0249	Woodwork (using chemical in oil or kerosene based solution) including drilling & plugging 6mm holes	m	220.25	220.37	220.37	220.39

Code	Description	Units	PL	GP	SJ	TH
Chapter 4: DRAINAGE						
Plinth Protection						
Providing and laying 50mm thick Plinth Protection and grouted with fine sand mix including well rammed, finishing the top smooth						
DR0001	With cement concrete 1:3:6, 20mm aggregates, laid over 75mm thick layer of compacted gravel (40mm)	sq.m	319.44	322.57	346.58	359.18
DR0002	With cement concrete 1:3:6, 20mm gravel or shingles laid over 75mm thick layer of compacted gravel (40mm)	sq.m	278.60	288.15	312.93	338.14
DR0003	With cement concrete 1:3:6, 20mm aggregate, laid over 75mm thick layer of compacted dry brick aggregate(40mm)	sq.m	467.07	462.05	492.08	525.00
DR0004	With cement concrete 1:3:6, 20mm gravel or shingles laid on 75mm thick layer of compacted dry brick aggregate(40mm)	sq.m	437.26	441.30	457.92	494.29
Open Surface Drains						
Constructing second class brick masonry open surface drain in cement mortar 1:4 including earth work in excavation 100 mm thick concrete bed 1:5:10, 40mm aggregate and 25mm thick cement concrete 1:2:4, 12 mm aggregate for filling haunches including 12mm cement plastering 1:4 with a floating coat of neat cement and disposal of surplus earth etc. complete						
DR0010	100mm x 200mm depth	m	506.31	499.02	504.83	648.14
DR0011	150mm x 200mm depth	m	531.26	524.07	531.76	677.05
DR0012	250mm x 300mm depth	m	735.46	724.61	731.36	943.97
DR0013	300mm x 450mm depth	m	1105.91	1081.85	1074.44	1452.98
Extra for additional depth of brick masonry drain						
DR0020	100mm wideper metre additional depth	m	1568.73	1531.76	1487.87	2124.64
DR0021	150mm wideper metre additional depth	m	1575.14	1538.17	1494.27	2131.04
DR0022	250mm wideper metre additional depth	m	1587.43	1550.46	1506.57	2143.34
Constructing random rubble masonry open surface drain in cement mortar 1:6 including earth work in excavation, 100mm thick concrete base 1:5:10, 40 mm aggregate 25mm thick cement concrete 1:2:4, 12mm aggregate for filling haunches, including 20mm cement plaster with a floating coat of neat cement, disposal of surplus earth						
DR0030	100 x 200mm depth	m	803.82	828.95	857.97	935.02
DR0031	150 x 200mm depth	m	827.91	853.11	883.94	962.92
DR0032	250 x 300mm depth	m	1100.64	1137.32	1173.99	1280.65
DR0033	300mm x 450mm depth	m	2136.67	2240.01	2274.13	2510.19
Extra for additional depth of random rubble masonry drain						
DR0040	100mm wideper metre additional depth	m	2355.18	2473.51	2499.68	2747.65
DR0041	150mm wideper metre additional depth	m	2361.41	2479.75	2505.91	2753.88
DR0042	250mm wideper metre additional depth	m	2373.88	2492.21	2518.38	2766.35

Code	Description	Units	PL	GP	SJ	TH
Stoneware Pipe Drains & Fittings						
Providing, laying and jointing glazed Stone Ware pipes with stiff mixture of cement mortar 1: including testing of joints complete						
DR0047	100mm dia.	m	357.19	362.87	364.61	362.10
DR0048	150mm dia.	m	729.64	742.25	745.86	740.06
DR0049	200mm dia.	m	1220.16	1242.22	1248.43	1238.04
Providing, laying and jointing glazed Stone Ware pipes with stiff mixture of cement mortar 1:1 including testing of joints complete						
DR0050	100mm dia.	m	358.34	364.13	365.81	363.54
DR0051	150mm dia.	m	731.32	744.09	747.57	742.10
DR0052	200mm dia.	m	1222.37	1244.66	1250.68	1240.74
DR0053	230mm dia.	m	1238.61	1260.94	1267.03	1257.23
DR0054	250mm dia.	m	1658.43	1688.98	1697.17	1683.41
DR0055	300mm dia.	m	2037.54	2075.37	2085.54	2068.60
DR0056	350mm dia.	m	2431.26	2476.71	2489.01	2469.04
DR0057	400mm dia.	m	2835.81	2889.10	2903.50	2880.20
DR0058	500mm dia.	m	3680.93	3750.66	3769.33	3738.13
DR0059	600mm dia.	m	4395.71	4479.34	4501.73	4464.05
Providing and laying cement concrete 1:5:10, 40mm aggregates encasing Stone Ware pipes including 150mm concrete bed						
DR0060	100mm dia S.W pipe	m	542.58	535.22	587.28	636.19
DR0061	150mm dia S.W pipe	m	581.33	573.43	629.22	681.61
DR0062	200mm dia S.W pipe	m	667.79	658.72	722.80	782.99
Providing & laying cement concrete 1:5:10, 40mm aggregates upto haunches of S.W pipes including 150mm concrete bed						
DR0070	100mm dia. S\W pipe	m	363.71	358.77	393.67	426.46
DR0071	150mm dia. S\W pipe	m	399.47	394.05	432.38	468.39
DR0072	200mm dia. S\W pipe	m	465.11	458.80	503.43	545.36
Providing & fixing square mouth S.W gully-trap A-grade including C.I grating, C.I. cover with frame of 300 x 300 mm, brick masonry chamber						
DR0080	100 x 100mm P Type	each	2112.44	2198.95	2379.30	2518.72
DR0081	150 x 100mm P or S Type	each	2153.47	2169.35	2118.45	3177.28
DR0082	180 x 150mm P or S Type	each	1772.95	1778.36	1793.09	2206.47

Code	Description	Units	PL	GP	SJ	TH
R.C Pipes & Fittings						

Providing & laying NP2 class R.C pipes, including collars, jointing in cement mortar 1:2 including testing of joints etc. complete

DR0088	100mm dia	m	492.47	506.66	507.83	533.89
DR0089	150mm dia	m	539.26	554.76	556.19	556.80
DR0090	225mm dia.	m	724.69	743.80	744.56	1072.51
DR0091	300mm dia.	m	870.65	894.50	895.44	1310.01
DR0092	450mm dia.	m	1289.77	1325.67	1327.52	1712.52
DR0093	600mm dia.	m	1800.97	1851.84	1854.32	2512.02
DR0094	750mm dia.	m	2539.90	2613.09	2615.51	3561.59
DR0095	900mm dia.	m	3205.08	3294.76	3297.62	3905.49
DR0096	1050mm dia.	m	6366.15	6555.53	6555.80	6520.70
DR0097	1200mm dia.	m	9150.05	9419.51	9419.85	9342.11

Manholes

Constructing Brick masonry manhole in cement mortar 1:5, R.C.C top slab with 1:2:4 20mm aggregates, foundation concrete 1:4:8 40mm aggregates, 12mm plaster in CM 1:3 finished with floating coat of neat cement and making channels in cement concrete 1:2:4 20mm aggregates, neatly finished complete

DR0105	Inside dimension 900 x 800mm & 450mm deep including C.I. cover & frame (weight >38 kg)	each	8337.04	8084.63	9004.07	10385.82
DR0106	Inside dimension 900 x 800mm & 600mm deep including C.I. cover & frame (weight >38 kg)	each	8980.94	8703.35	9591.60	11345.37
DR0107	Inside dimension 1200 x 900mm & 900mm deep including C.I. cover & frame weight >116 kg)	each	19727.55	19562.05	20978.12	23889.63

Extra for additional depth of manholes

DR0115	900 x 800mm	m	5455.15	5265.72	5062.41	7673.38
DR0116	1200 x 900mm	m	6519.89	6295.43	6053.96	9164.23

Code	Description	Units	PL	GP	SJ	TH
Chapter 5: MORTARS						
Cement Mortar						
MR0001	Cement mortar 1:1 (1 cement : 1 sand)	cu.m	7529.96	8276.44	8400.34	9628.70
MR0002	Cement mortar 1:2 (1 cement : 2 sand)	cu.m	5308.62	5806.27	6030.77	6927.21
MR0003	Cement mortar 1:3 (1 cement : 3 sand)	cu.m	4198.45	4571.68	4846.85	5577.53
MR0004	Cement mortar 1:4 (1 cement : 4 sand)	cu.m	3313.41	3591.51	3878.01	4466.96
MR0005	Cement mortar 1:5 (1 cement : 5 sand)	cu.m	2836.85	3063.72	3356.33	3868.96
MR0006	Cement mortar 1:6 (1 cement : 6 sand)	cu.m	2428.37	2611.33	2909.17	3356.38
Lime Mortar						
MR0010	Lime mortar 1:2 (1 lime putty : 2 Brick Powder)	cu.m	8896.25	11382.24	13896.74	15421.32
MR0011	Lime Mortar 1:1 :1 (1 Lime putty : 1 Brick Powder : 1 Sand)	cu.m	7171.21	14054.64	10514.02	14136.68
Mud Mortar						
MR0015	Mud mortar	cu.m	430.02	427.65	433.65	431.88
White Cement Mortar						
MR0020	White Cement mortar 1:2 (1 white cement : 2 sand)	cu.m	2268.65	2218.71	2575.75	2909.86
MR0021	White Cement mortar 1:3 (1 white cement : 3 sand)	cu.m	1899.40	1862.16	2236.41	2544.57
MR0022	White Cement mortar 1:5 (1 white cement : 5 sand)	cu.m	1420.74	1398.11	1750.94	2006.74
Cement Lime Mortar						
MR0025	Cement lime mortar 1:1:3 (1 cement : 1 lime putty : 3 sand)	cu.m	6782.56	11235.77	9294.35	11832.53
MR0026	Cement lime mortar 1:1:6 (1 cement : 1 lime putty : 6 sand)	cu.m	4546.31	7322.12	6269.84	7934.96

Code	Description	Units	PL	GP	SJ	TH
Chapter 6: CONCRETE WORK						
Plain Cement Concrete						
Providing and laying in position plain cement concrete excluding the cost of centering and shuttering - All work upto plinth level.						
CW0001	1:1:2 (1 cement : 1 sand : 2 graded crushed rock 20 mm nominal size)	cu.m	6174.23	6488.44	6817.12	7484.60
CW0002	1:1.5:3 (1 cement : 1.5 sand : 3 graded crushed rock 20 mm nominal size)	cu.m	4739.40	4904.76	5243.85	5685.60
CW0003	1:2:4 (1 cement : 2 sand : 4 graded crushed rock 20 mm nominal size)	cu.m	4265.60	4362.65	4733.48	5086.31
CW0004	1:2:4 (1 cement : 2 sand : 4 graded crushed rock 40 mm nominal size)	cu.m	4229.61	4329.54	4636.43	5064.71
CW0005	1:3:6 (1 cement : 3 sand : 6 graded crushed rock 20 mm nominal size)	cu.m	3679.87	3698.51	4090.64	4333.18
CW0006	1:3:6 (1 cement : 3 sand : 6 graded crushed rock 40 mm nominal size)	cu.m	3563.64	3579.31	3900.29	4235.49
CW0007	1:3:6 (1 cement : 3 sand : 6 graded gravel/shingles 40 mm nominal size)	cu.m	2973.82	3165.98	3316.59	3629.54
CW0008	1:4:8 (1 cement : 4 sand : 8 graded crushed stone 40 mm nominal size)	cu.m	3160.05	3134.52	3471.03	3754.02
CW0009	1:4:8 (1 cement : 4 sand : 8 graded crushed stone 50 mm nominal size)	cu.m	3160.05	3134.52	3471.03	3754.02
CW0010	1:4:8 (1 cement : 4 sand : 8 graded gravel/shingles 40 mm nominal size)	cu.m	2551.78	2708.29	2868.43	3129.11
CW0011	1:5:10 (1 cement : 5 sand : 10 graded crushed stone 40 mm nominal size)	cu.m	2835.20	2787.82	3110.78	3347.07
CW0012	1:5:10 (1 cement : 5 sand : 10 graded crushed stone 50 mm nominal size)	cu.m	2789.39	2780.39	3078.69	3333.48
CW0013	1:5:10 (1 cement : 5 sand : 10 graded gravel/shingles 40 mm nominal size)	cu.m	2240.25	2366.83	2521.86	2736.22
Providing and laying in position plain cement concrete in retaining walls, return walls, walls (any thickness) including attached pilasters, columns, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window sills, fillets etc. upto floor five level, excluding the cost of centering and shuttering						
CW0020	1:1:2 (1 cement : 1 sand : 2 graded crushed rock 20 mm nominal size)	cu.m	6500.06	6814.27	7142.95	7810.43
CW0021	1:1.5:3 (1 cement : 1.5 sand : 3 graded crushed rock 20 mm nominal size)	cu.m	5066.44	5231.67	5571.02	6012.69
CW0022	1:2:4 (1 cement : 2 sand : 4 graded crushed rock 20 mm nominal size)	cu.m	4591.43	4688.48	5059.31	5412.14
CW0023	1:2:4 (1 cement : 2 sand : 4 graded crushed rock 40 mm nominal size)	cu.m	4491.76	4591.79	4898.45	5326.81
CW0024	1:3:6 (1 cement : 3 sand : 6 graded crushed rock 20 mm nominal size)	cu.m	3943.20	3961.84	4353.97	4596.52
CW0025	1:3:6 (1 cement : 3 sand : 6 graded crushed rock 40 mm nominal size)	cu.m	3826.98	3842.64	4163.63	4498.82
CW0026	1:3:6 (1 cement : 3 sand : 6 graded gravel/shingles 40 mm nominal size)	cu.m	3237.15	3429.31	3579.92	3892.87

Code	Description	Units	PL	GP	SJ	TH
Pre-cast Cement Concrete						
Providing and fixing upto floor five level pre-cast cement concrete lacing courses, copings, bed plates, anchor blocks, plain window sills, shelves, louvers, steps, staircases etc. including hoisting and setting in position with cement mortar 1:3 (1 cement : 3 sand) cost of required formwork and finishing smooth with 6 mm thick cement plaster on exposed surface complete						
CW0050	1:2:4 (1 cement : 2 sand : 4 graded crushed rock 20 mm nominal size)	cu.m	3937.17	4077.18	4453.85	4876.67
CW0051	1:3:6 (1 cement : 3 sand : 6 graded crushed rock 20 mm nominal size)	cu.m	3333.18	3395.72	3820.47	4149.12
CW0060	Providing and fixing at or near ground level pre-cast cement concrete in kerbs, edgings etc. as per approval pattern and setting in position with cement mortar 1:3 (1 cement : 3 sand) cost of required formwork and finishing smooth with	cu.m	3834.88	3961.71	4355.34	4766.94
Providing and fixing upto floor five level pre-cast cement concrete solid block including hoisting and setting in position with cement mortar 1:3 (1 cement : 3 sand) including the cost of required formwork and finishing smooth with 6 mm thick cement plaster on exposed surface complete						
CW0070	1:2:4 (1 cement : 2 sand : 4 graded crushed rock 20 mm nominal size)	cu.m	4224.19	4388.35	4809.52	5294.21
CW0071	1:3:6 (1 cement : 3 sand : 6 graded crushed rock 20 mm nominal size)	cu.m	3584.81	3671.51	4113.87	4489.69
Providing and fixing upto floor five level pre-cast cement concrete hollow block including hoisting and setting in position with cement mortar 1:3 (1 cement : 3 sand) including the cost of required formwork and finishing smooth with 6 mm thick cement plaster on exposed surface complete						
CW0080	1:2:4 (1 cement : 2 sand : 4 graded crushed rock 20 mm nominal size)	cu.m	2449.04	2539.33	2786.00	3060.77
CW0081	1:3:6 (1 cement : 3 sand : 6 graded crushed rock 20 mm nominal size)	cu.m	2061.87	2105.69	2362.38	2570.36
Lime Concrete						
Providing and laying lime concrete, with 40 % mortar comprising of 1:1:1 lime mortar, in footings and bases for columns excluding cost of formwork						
CW0090	With graded stone aggregate of 40 mm	cu.m	4574.52	7183.89	5933.56	7434.59
CW0091	with graded brick aggregate of 40 mm	cu.m	4574.52	7183.89	5933.56	7434.59

Code	Description	Units	PL	GP	SJ	TH
Extra						
Extra for laying cement concrete work						
CW0135	Cement concrete work in super-structure above floor five level for each four floors or part thereof	cu.m	8% of the rates worked out for respective items			
CW0136	In or under water, mud, including the cost of pumping or bailing out water and removing slush etc. complete....per metre depth (concrete not leaner than 1:2:4)	cu.m	584.94	601.04	599.12	623.10
CW0137	Cement concrete work under foul conditions	cu.m	570.36	570.36	570.36	570.36
CW0140	Providing and mixing water-proofing materials in in the proportion 12 kg/cu.m or as prescribed by the manufacturer	cu.m	785.45	678.71	921.24	921.24

Chapter 7: DAMP-PROOFING**Concrete Course****Providing and laying damp-proof course with cement concrete 1:2:4, 12.5mm aggregate**

DP0001	25mm thick	sq.m	142.64	146.24	153.80	162.69
DP0002	40mm thick	sq.m	207.75	213.51	225.61	239.83

Providing and laying damp-proof course with cement concrete 1:2:4, 20mm aggregate

DP0010	50mm thick	sq.m	252.96	257.52	275.78	293.36
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Bituminous Coatings

DP0015	Applying a coat of hot bitumen (maxphalt) 80\100 or equivalent using 1.7 kg per sq.m including the surface cleaning	sq.m	100.24	100.37	100.45	101.05
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Moisture Barriers**Providing and laying moisture barrier using plastic sheeting underlay**

DP0020	50 micro-metre	sq.m	34.91	87.86	62.35	101.05
DP0021	100 micro-metre	sq.m	44.71	101.06	74.05	88.80
DP0022	200 micro-metre	sq.m	91.25	138.06	95.05	76.55

Providing and laying Bitumen felt Type 3 in wall bases etc.

DP0030	Grade 2	sq.m	353.83	353.83	353.83	353.83
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Code	Description	Units	PL	GP	SJ	TH
Chapter 8: REINFORCED CONCRETE						
Concreting Items						
Providing & laying in position reinforced cement concrete excluding the cost of centering, shuttering and reinforcement - all work upto plinth level						
RC0001	1:1:2 (1 cement : 1 sand : 2 graded crushed rock 20 mm nominal size)	cu.m	6190.00	6504.20	6832.88	7500.36
RC0002	1:1.5:3 (1 cement : 1.5 sand : 3 graded crushed rock 20 mm nominal size)	cu.m	4755.17	4920.53	5259.62	5701.37
RC0003	1:2:4 (1 cement : 2 sand : 4 graded crushed rock 20 mm nominal size)	cu.m	4281.37	4378.42	4749.25	5102.08
Providing & laying in position reinforced cement concrete work in walls (any thickness) including attached pilasters buttresses, piers, abutments etc. upto floor five level excluding the cost of centering, shuttering and reinforcement						
RC0005	1:1:2 (1 cement : 1 sand : 2 graded crushed rock 20 mm nominal size)	cu.m	6192.87	6507.07	6835.75	7503.23
RC0006	1:1.5:3 (1 cement : 1.5 sand : 3 graded crushed rock 20 mm nominal size)	cu.m	4758.04	4923.40	5262.49	5704.24
RC0007	1:2:4 (1 cement : 2 sand : 4 graded crushed rock 20 mm nominal size)	cu.m	4257.07	4354.12	4724.94	5077.77
Providing & laying in position reinforced cement concrete work in plinth and skirting courses, fillets, columns , pillars, posts and struts upto floor five level excluding the cost of centering, shuttering and reinforcement.						
RC0009	1:1:2 (1 cement : 1 sand : 2 graded crushed rock 20 mm nominal size)	cu.m	6252.65	6566.85	6895.53	7563.01
RC0010	1:1.5:3 (1 cement : 1.5 sand : 3 graded crushed rock 20 mm nominal size)	cu.m	4817.82	4983.18	5322.27	5764.02
RC0011	1:2:4 (1 cement : 2 sand : 4 graded crushed rock 20 mm nominal size)	cu.m	4344.02	4441.07	4811.90	5164.73
Providing & laying in position reinforced cement concrete work in suspended floor, roofs having slope upto 15o, landings, balconies, shelves and chajjas upto floor five level excluding the cost of centering, shuttering and reinforcement						
RC0013	1:1:2 (1 cement : 1 sand : 2 graded crushed rock 20 mm nominal size)	cu.m	6336.88	6651.09	6979.77	7647.25
RC0014	1:1.5:3 (1 cement : 1.5 sand : 3 graded crushed rock 20 mm nominal size)	cu.m	4902.05	5067.41	5406.51	5848.26
RC0015	1:2:4 (1 cement : 2 sand : 4 graded crushed rock 20 mm nominal size)	cu.m	4428.26	4525.31	4896.13	5248.96
Providing & laying in position reinforced cement concrete work in beams, lintels, bands, plain window sills, staircases, spiral staircases upto floor five level excluding the cost of centering, shuttering and reinforcement						
RC0017	1:1:2 (1 cement : 1 sand : 2 graded crushed rock 20 mm nominal size)	cu.m	6240.93	6555.13	6883.81	7551.29

Code	Description	Units	PL	GP	SJ	TH
RC0018	1:1.5:3 (1 cement : 1.5 sand : 3 graded crushed rock 20 mm nominal size)	cu.m	4806.10	4971.46	5310.55	5752.30
RC0019	1:2:4 (1 cement : 2 sand : 4 graded crushed rock 20 mm nominal size)	cu.m	4332.30	4429.35	4800.18	5153.01

Providing & laying in position reinforced cement concrete work in kerbs, steps and the like upto floor five level excluding the cost of centering, shuttering and reinforcement

RC0020	1:1:2 (1 cement : 1 sand : 2 graded crushed rock 20 mm nominal size)	cu.m	6240.93	6555.13	6883.81	7551.29
RC0021	1:1.5:3 (1 cement : 1.5 sand : 3 graded crushed rock 20 mm nominal size)	cu.m	4806.10	4971.46	5310.55	5752.30
RC0022	1:2:4 (1 cement : 2 sand : 4 graded crushed rock 20 mm nominal size)	cu.m	4332.30	4429.35	4800.18	5153.01

Providing & laying in position reinforced cement concrete work in arches and arch ribs upto floor five level excluding the cost of centering, shuttering and reinforcement

RC0023	1:1:2 (1 cement : 1 sand : 2 graded crushed rock 20 mm nominal size)	cu.m	7367.41	7681.62	8010.30	8677.78
RC0024	1:1.5:3 (1 cement : 1.5 sand : 3 graded crushed rock 20 mm nominal size)	cu.m	5932.58	6097.94	6437.04	6878.78
RC0025	1:2:4 (1 cement : 2 sand : 4 graded crushed rock 20 mm nominal size)	cu.m	5458.79	5555.83	5926.66	6279.49

Providing & laying in position reinforced cement concrete work in domes, vaults, shells folded plates and roofs having more than 15° upto floor five level excluding the cost of centering, shuttering and reinforcement

RC0026	1:1:2 (1 cement : 1 sand : 2 graded crushed rock 20 mm nominal size)	cu.m	7412.90	7730.32	8072.23	8750.79
RC0027	1:1.5:3 (1 cement : 1.5 sand : 3 graded crushed rock 20 mm nominal size)	cu.m	5911.95	6080.92	6426.36	6877.16
RC0028	1:2:4 (1 cement : 2 sand : 4 graded crushed rock 20 mm nominal size)	cu.m	5430.11	5529.08	5907.33	6267.19

Providing & laying in position reinforced cement concrete work in vertical and horizontal fins individually or forming box louvers, fascias and eaves boards - upto floor five level excluding the cost of centering, shuttering and reinforcement

RC0029	1:1.5:3 (1 cement : 1.5 sand : 3 graded crushed rock 20 mm nominal size)	cu.m	5303.73	5444.63	5830.26	6271.12
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Traditional Cornices

Bhutan type Traditional Cornices in R.C.C 1:1.5:3, 20 mm aggregate including cost of formwork including finishing with 6mm thick plaster on the exposed surface with cement mortar 1:3, excluding reinforcement & decorative painting cost as per standard design (Measurement to be taken along the cornice and wall junction)

RC0030	Single Storied building, including Phana	m	1652.68	1653.64	1671.49	1689.67
RC0031	Multi-Storied building..at floor 2 level including the cost of lhanglag and at other floors where Lhanglag is provided	m	1668.36	1669.45	1686.96	1704.90

Code	Description	Units	PL	GP	SJ	TH
RC0032	Multi-Storied building.. at all middle floor levels (excluding the cost of phana)	m	2161.21	2166.47	2203.75	2243.97
RC0033	Phana	m	957.08	957.73	961.77	966.57
RC0034	Lintel Cornice (only cornice portion at external face)	m	957.25	956.93	964.35	971.27

Bhutan type Traditional Cornices in R.C.C 1:2:4, 20 mm aggregate including cost of formwork including finishing with 6mm thick plaster on the exposed surface with cement mortar 1:3, excluding reinforcement & decorative painting cost as per standard design (Measurement to be taken along the cornice and wall junction)

RC0040	Single Storied building, including Phana	m	1634.60	1633.17	1651.91	1666.88
RC0041	Multi-Storied building..at floor 2 level and at other floors where Lhanglag is provided including the cost of lhanglag	m	1650.53	1649.25	1667.65	1682.40
RC0042	Multi-Storied building.. at all middle floor levels (excluding the cost of phana)	m	2300.75	2300.55	2339.88	2372.75
RC0043	Phana	m	953.72	953.92	958.13	962.33
RC0044	Lintel cornice (only cornice portion at external face)	m	950.05	948.77	956.55	962.18

Extra for R.C Works

RC0050	Applying cement slurry on R.C.C slabs using 2.75 kg per sq.m for receiving C.C. floor including roughening, cleaning & dampen the surface	sq.m	27.15	29.16	28.92	31.92
RC0051	Extra for R.C.C work above floor 5 level for every four floors or part thereof, excluding cost of reinforcement	cu.m	8% of respective item rates			
RC0052	Extra for rendering in cement mortar 1:2, the top of suspended floors\landings\staircase treads and risers	sq.m	41.51	43.00	43.67	46.36
RC0053	Rendering smooth finishing of the exposed surface with 6mm thick C.M 1:3	sq.m	94.90	97.58	99.56	104.82
RC0054	Providing throating, plastering drip and moulding to R.C.C chajjas	m	25.75	25.75	25.75	25.75

Precast Items

Providing & fixing, below & including floor 2 level, Precast R.C.C jali 1:2:4, 12.5mm aggregate, reinforced with mild steel wire 1.6mm dia., including roughening, cleaning, fixing, finishing in cement mortar 1:3, excluding plastering of the jambs, sills, soffits

RC0060	50 mm thick	sq.m	886.59	884.01	1027.84	1054.54
RC0061	40 mm thick	sq.m	790.93	786.92	927.72	950.87
RC0062	25 mm thick	sq.m	725.74	719.57	855.83	873.65

Code	Description	Units	PL	GP	SJ	TH
Providing & fixing, below & including floor 2 level, Precast R.C.C 1:2:4, 20mm aggregate including finishing, plastering with 6mm cement plaster 1:3 and formwork, but excluding reinforcement cost						
RC0070	String courses, copings, bed plates, anchor blocks, plain window sills	cu.m	20697.90	20637.84	21096.46	21375.87
RC0071	Small lintels & joists < 1.5m clear span, shelves	cu.m	18496.72	18438.32	18883.44	19148.80
RC0072	Joists, span > 1.5m, shelves	cu.m	16608.77	16669.91	17064.51	17385.43
Steel Reinforcement						
RC0083	Providing & fixing Thermo-Mechanically Treated reinforcement bar (Yield Strength 500 MPa) for R.C.C work including cutting, bending, binding and placing in position complete	kg	67.51	66.96	66.01	73.02
Form work						
Providing & fixing centering and shuttering (formwork), including strutting, propping etc. and removal of formwork						
RC0090	Foundation and plinth etc.	sq.m	284.18	272.77	279.75	276.95
RC0091	Walls, pilasters, buttresses, string course etc.	sq.m	607.37	594.87	603.33	601.41
RC0092	Lintels, beams, girders, bresummers, cantilevers etc.	sq.m	385.06	370.47	380.97	379.62
RC0093	Columns, pillars, post, struts etc.	sq.m	496.21	481.11	491.52	489.47
RC0094	Staircase (except spiral staircase) excluding landing	sq.m	404.13	391.12	398.88	395.40
RC0095	Suspended floor, roof, landing, shelves and their supports, balconies, chajjas, etc.	sq.m	640.39	625.07	637.15	637.25
RC0096	Spiral stair case excluding landing	sq.m	504.16	491.05	499.78	497.58
RC0097	Arches, curved surfaces	sq.m	1792.71	1744.85	1782.24	1861.74
RC0098	Domes, vaults, shell roof	sq.m	1928.74	1830.88	1891.12	1947.32
Expansion Joints						
Providing & filling or fixing in position in expansion joints						
RC0105	Blown bitumen	cu.m	41241.76	41630.47	41773.04	42316.27
RC0106	Bitumen mix filler of proportion 80 kg of hot bitumen, 1 kg of cement and 0.25 cum of sand for expansion joints	cu.m	13546.94	13650.92	13928.05	14203.94
RC0107	12 mm bitumen impregnated fibre board	sq.m	1086.33	1086.33	1086.33	1086.33
Providing and fixing sheet-covering over expansion joints with iron screws as per design to match the colour shade of the distemper or wall treatment						
RC0116	Aluminium fluted strip 3.15x150mm	m	498.58	489.83	485.83	531.91

Code	Description	Units	PL	GP	SJ	TH
Design Mix Concrete						

Providing & laying in position machine batched, machine mixed and machine vibrated M-20 design mix cement concrete for reinforced cement concrete structural elements, excluding the cost of centering, shuttering and reinforcement, Including admixtures in recommended proportions (as per IS 9103) to accelerate, retard setting of concrete, improve workability without impairing strength and durability as per the direction of the engineer

Note: Mix design should be done by a qualified engineer

RC0130	All work upto plinth level	cu.m	4428.65	4527.62	4903.06	5261.38
RC0131	All work from plinth level to floor five level	cu.m	4607.02	4706.00	5081.43	5439.76
RC0132	Walls, Columns, Pillars, posts and struts	cu.m	4674.96	4773.93	5149.37	5507.69
RC0133	Beams, Plinth beams, girders, bresummers, cantilevers, suspended floors, lintels, roofs and staircases including spiral staircases, shelves etc.	cu.m	4773.55	4872.52	5247.96	5606.28

Add or deduct for providing richer or leaner mixes respectively at all floors providing

RC0135	Providing M-25 grade RCC instead of M-20 grade RCC	cu.m	increase/decrease rate by 3% as applicable			
RC0136	Providing M-30 grade RCC instead of M-20 grade RCC	cu.m	136.16	150.80	149.05	170.86
RC0137	Providing M-35 grade RCC instead of M-20 grade RCC	cu.m	272.32	301.59	298.10	341.72

Code	Description	Units	PL	GP	SJ	TH
Chapter 9: BRICK WORK						
One - Brick Masonry (250mm)						
Providing & laying Second-Class Brick work in Foundation & Plinth						
BW0001	In cement mortar 1:3	cu.m	6152.16	5934.95	5673.30	8783.81
BW0002	In cement mortar 1:4	cu.m	5930.90	5689.91	5431.09	8506.17
BW0003	In cement mortar 1:5	cu.m	5811.76	5557.96	5300.67	8356.67
BW0004	In cement mortar 1:6	cu.m	5709.64	5444.87	5188.88	8228.53
BW0005	In mud mortar	cu.m	5141.85	4830.75	4501.80	7429.20
Extras						
BW0010	Extra for brick work in square or rectangular pillars	cu.m	323.64	323.64	323.64	323.64
BW0011	Extra for brick in circular pillars	cu.m	2272.95	2164.62	2049.33	3070.84
BW0012	Extra for brick work in superstructure above plinth level, up to floor two level	cu.m	179.84	179.84	179.84	179.84
BW0013	Extra for brick work in superstructure above floor two level...per floor	cu.m	78.80	78.80	78.80	78.80
BW0014	Extra for providing hoop iron 25x1.6mm or equivalent reinforcement in masonry at every third course, embedded in cement mortar	sq.m	64.88	104.17	76.36	108.14
BW0015	Extra for mixing water-proofing compound in cement mortar	cu.m	262.04	226.45	307.30	307.30
Half - Brick Masonry (125mm)						
Providing & laying Second-Class Half-brick Masonry (125 mm) in superstructure below floor 2 level						
BW0020	In cement mortar 1:3	sq.m	818.14	787.80	752.46	1144.80
BW0021	In cement mortar 1:4	sq.m	796.02	763.30	728.24	1117.04
Extras for Half - Brick						
BW0030	Extra for half-brick masonry in superstructure above floor 2 level...per floor	sq.m	9.24	9.24	9.24	9.24
BW0031	Extra for mixing water-proofing compound in cement mortar	sq.m	29.80	26.24	34.32	34.32
BW0032	75mm thick brick masonry (second class bricks) in cement mortar 1:3 in partitions etc. in superstructure below floor 2 level	sq.m	450.08	433.18	413.00	649.23
BW0033	Extra for 75mm brick masonry in cement mortar 1:3 in partitions etc. in superstructure above floor 2 level...Per floor	sq.m	9.24	9.24	9.24	9.24
Traditional Cornices						
Providing & laying second class brick work in Bhutan type Traditional Cornices in cement mortar 1:3, including 12mm plaster in cement mortar 1:5, but excluding decorative painting. (Measurement to be taken along the cornice and wall junction)						
BW0040	Floor one level including lhanglag	m	974.22	968.84	961.44	1077.59

Code	Description	Units	PL	GP	SJ	TH
BW0041	Middle Floor levels excluding phana	m	1534.90	1517.89	1497.62	1786.92

Pointing**Pointing on brickwork with cement mortar 1:3**

BW0050	Flush pointing	sq.m	76.49	77.61	78.43	80.63
BW0051	Ruled pointing	sq.m	83.75	84.87	85.69	87.89
BW0052	Cut, weather struck pointing	sq.m	114.43	115.55	116.38	118.57
BW0053	Raised & cut pointing	sq.m	151.09	152.81	154.07	157.44

Interlocking Cement Earth Block (300mmX150mmX100mm)**Providing & laying ICEB (300mmX150mmX100mm) in Foundation & Plinth**

BW0060	In cement mortar 1:3	cu.m	8086.79	8892.98	10231.62	7170.03
BW0061	In cement mortar 1:4	cu.m	7882.90	8667.74	10004.95	6909.38
BW0062	In cement mortar 1:5	cu.m	7826.48	8604.69	9946.66	6843.39
BW0063	In cement mortar 1:6	cu.m	7768.24	8540.19	9882.91	6770.31
BW0064	In mud mortar	cu.m	7486.02	8233.77	9524.40	6345.55

Extras

BW0070	Extra for ICEB work in square or rectangular pillars	cu.m	169.52	169.52	169.52	169.52
BW0071	Extra for ICEB work in superstructure above plinth level, up to floor two level	cu.m	95.14	95.14	95.14	95.14
BW0072	Extra for ICEB work in superstructure above floor two level...per floor	cu.m	41.08	41.08	41.08	41.08

Interlocking Cement Earth Block (300mmX150mmX100mm)**Providing & laying ICEB(300mmX150mmX100mm) in superstructure below floor 2 level**

BW0080	In cement mortar 1:3	sq.m	1196.31	1312.20	1508.72	1038.62
BW0081	In cement mortar 1:4	sq.m	1189.64	1304.81	1501.41	1030.25

Extras

BW0090	Extra for ICEB work in superstructure above floor 2 level...per floor	sq.m	9.66	9.66	9.66	9.66
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Interlocking Cement Earth Block (250mmX125mmX100mm)**Providing & laying ICEB (250mmX125mmX100mm) in Foundation & Plinth**

BW0100	In cement mortar 1:3	cu.m	6832.55	7451.95	8343.87	6442.16
BW0101	In cement mortar 1:4	cu.m	6742.96	7352.73	8245.80	6329.74
BW0102	In cement mortar 1:5	cu.m	6656.63	7257.12	8151.30	6221.41
BW0103	In cement mortar 1:6	cu.m	6650.78	7250.64	8144.89	6214.07
BW0104	In mud mortar	cu.m	6445.34	7026.43	7884.05	5903.82

Code	Description	Units	PL	GP	SJ	TH
Extras						
BW0110	Extra for ICEB work in square or rectangular pillars	cu.m	242.22	242.22	242.22	242.22
BW0111	Extra for ICEB work in superstructure above plinth level, up to floor two level	cu.m	135.93	135.93	135.93	135.93
BW0112	Extra for ICEB work in superstructure above floor two level...per floor	cu.m	58.69	58.69	58.69	58.69
Interlocking Cement Earth Block (250mmX125mmX100mm)						
Providing & laying ICEB(250mmX125mmX100mm) in superstructure below floor 2 level						
BW0120	In cement mortar 1:3	sq.m	894.95	971.98	1082.52	843.67
BW0121	In cement mortar 1:4	sq.m	886.85	963.00	1073.65	833.51
Extras						
BW0130	Extra for ICEB work in superstructure above floor 2 level...per floor	sq.m	11.70	11.70	11.70	11.70
Concrete Hollow Block Brick (390mm x 190mm x 190mm)						
Providing & laying concrete block brick in Foundation & Plinth						
BW0140	In cement mortar 1:3	cu.m	5441.61	5120.62	5603.71	5786.38
BW0141	In cement mortar 1:4	cu.m	5220.35	4875.57	5361.50	5508.74
BW0142	In cement mortar 1:5	cu.m	5101.21	4743.63	5231.08	5359.24
BW0143	In cement mortar 1:6	cu.m	4999.09	4630.53	5119.29	5231.09
Concrete Solid Brick (240mm x 115mm x 80mm)						
Providing & laying concrete block brick in Foundation & Plinth						
BW0145	In cement mortar 1:3	cu.m	8052.85	8146.16	6233.72	8397.63
BW0146	In cement mortar 1:4	cu.m	7831.59	7901.12	5991.51	8119.98
BW0147	In cement mortar 1:5	cu.m	7712.45	7769.17	5861.09	7970.48
BW0148	In cement mortar 1:6	cu.m	7610.33	7656.07	5749.30	7842.34
Concrete Porous Brick (230mm x 110mm x 70mm)						
Providing & laying concrete block brick in Foundation & Plinth						
BW0150	In cement mortar 1:3	cu.m	9287.91	7405.13	7210.44	6997.90
BW0151	In cement mortar 1:4	cu.m	9066.65	7160.09	6968.23	6720.25
BW0152	In cement mortar 1:5	cu.m	8947.51	7028.14	6837.81	6570.75
BW0153	In cement mortar 1:6	cu.m	8845.39	6915.04	6726.02	6442.61
Extras						
BW0170	Extra for concrete block brick in square or rectangular pillars	cu.m	323.64	323.64	323.64	323.64
BW0171	Extra for concrete block brick in circular pillars	cu.m	2029.17	1884.17	2029.17	2029.17
BW0172	Extra for concrete block brick work in superstructure above plinth level, up to floor two level	cu.m	179.84	179.84	179.84	179.84

Code	Description	Units	PL	GP	SJ	TH
BW0173	Extra for concrete block brick work in superstructure above floor two level...per floor	cu.m	78.80	78.80	78.80	78.80
BW0174	Extra, for providing hoop iron 25x1.6mm or equivalent reinforcement in masonry at every third course, embedded in cement mortar	sq.m	64.88	104.17	76.36	108.14
BW0175	Extra, for mixing water-proofing compound in cement mortar	cu.m	262.04	226.45	307.30	307.30

Concrete Hollow Block Brick (390mm x 190mm x 190mm)

Providing & laying concrete Hollow block brick Masonry (190 mm) in superstructure below floor 2 level

BW0190	In cement mortar 1:3	sq.m	959.40	890.01	975.61	993.87
BW0191	In cement mortar 1:4	sq.m	937.27	865.51	951.39	966.11

Concrete Partition Hollow Block (390mm x 190mm x 90mm)

Providing & laying Concrete Partition Hollow Block Masonry (90 mm) in superstructure below floor 2 level

BW0194	In cement mortar 1:3	sq.m	786.22	795.56	802.43	836.44
BW0195	In cement mortar 1:4	sq.m	764.10	771.05	778.21	808.68

Concrete Solid Brick (240mm x 115mm x 80mm)

Providing & laying Concrete Solid Block Masonry (115 mm) in superstructure below floor 2 level

BW0198	In cement mortar 1:3	sq.m	980.06	989.39	768.43	1014.54
BW0199	In cement mortar 1:4	sq.m	957.93	964.89	744.21	986.77

Concrete Porous Brick (230mm x 110mm x 70mm)

Providing & laying Concrete Porous Brick Masonry (110 mm) in superstructure below floor 2 level

BW0202	In cement mortar 1:3	sq.m	1084.22	876.18	854.07	828.87
BW0203	In cement mortar 1:4	sq.m	1062.09	851.67	829.85	801.10

Extras

BW0220	Extra, for concrete block half-brick masonry in superstructure above floor 2 level...per floor	sq.m	9.24	9.24	9.24	9.24
BW0221	Extra, for mixing water-proofing compound in cement mortar	sq.m	29.80	26.24	34.32	34.32

Pointing

Pointing on concrete block brick work with cement mortar 1:3

BW0230	Flush pointing	sq.m	76.49	77.61	78.43	80.63
BW0231	Ruled pointing	sq.m	83.75	84.87	85.69	87.89
BW0232	Cut, weather struck pointing	sq.m	114.43	115.55	116.38	118.57
BW0233	Raised & cut pointing	sq.m	151.09	152.81	154.07	157.44

Code	Description	Units	PL	GP	SJ	TH
Chapter 10: STONE/MUD						
Rammed Mud Work						
SM0001	Constructing rammed mud walls in superstructure including the cost of form work	cu.m	572.91	566.81	574.60	572.50
Random Rubble Masonry						
Providing & laying Random Rubble Masonry with hard stone in foundation & plinth						
SM0005	In cement mortar 1:4	cu.m	3164.02	3358.67	3371.56	3764.06
SM0006	In cement mortar 1:5	cu.m	3006.76	3184.50	3199.40	3566.71
SM0007	In cement mortar 1:6	cu.m	2871.96	3035.21	3051.84	3397.57
SM0008	Hammer dressed, in mud mortar	cu.m	2277.72	2379.82	2300.14	2497.70
Extras						
SM0015	Extra for random rubble masonry with hard stone in superstructure above plinth, below & including floor 2 level	cu.m	239.43	239.43	239.43	239.43
SM0016	Extra for random rubble masonry with hard stone in superstructure above floor 2 level	cu.m	78.80	78.80	78.80	78.80
SM0017	Extra for random rubble masonry work with hard stone in square or rectangular pillars	cu.m	348.12	348.12	348.12	348.12
SM0018	Extra for random rubble masonry work with hard stone in circular pillars	cu.m	690.08	690.08	690.08	690.08
SM0019	Extra for random rubble masonry work with hard stone for mixing water-proofing materials in cement mortar	cu.m	249.13	215.33	292.13	292.13
Coursed Rubble Masonry						
Providing & laying Coursed Rubble Masonry with hard stone hammer-dressed in foundation & plinth						
SM0025	In cement mortar 1:3	cu.m	3765.44	3990.58	3983.31	4420.47
SM0026	In cement mortar 1:4	cu.m	3499.93	3696.53	3692.65	4087.30
SM0027	In cement mortar 1:5	cu.m	3356.96	3538.19	3536.15	3907.90
SM0028	In cement mortar 1:6	cu.m	3234.42	3402.47	3402.00	3754.12
Extras						
SM0035	Extra for C.R. masonry with hard stone in superstructure above plinth, below & including floor 2 level	cu.m	225.67	225.67	225.67	225.67
SM0036	Extra for C.R. masonry with hard stone in superstructure above floor 2 level	cu.m	78.80	78.80	78.80	78.80
SM0037	Extra for C.R masonry with hard stone in square or rectangular pillars	cu.m	362.49	362.49	362.49	362.49
SM0038	Extra for C.R masonry with hard stone in circular pillars	cu.m	1113.30	1146.22	1120.09	1183.50
SM0039	Extra for C.R masonry with hard stone chisel dressed in foundations and plinth	cu.m	76.90	76.90	76.90	76.90

Code	Description	Units	PL	GP	SJ	TH
SM0040	Extra for C.R masonry with hard stone chisel dressed in superstructure above plinth, below & including floor 2 level	cu.m	249.40	249.40	249.40	249.40
SM0041	Extra for C.R masonry with hard stone for mixing water-proofing materials	cu.m	300.74	259.82	352.79	352.79
Dry Hand Packed Rubble Masonry						
SM0050	Dry hand packed rubble masonry with stone boulders >0.01 Cu.m	cu.m	1827.14	1930.02	1848.36	2046.50
SM0051	Dry hand packed rubble masonry hammer dressed (facing), with stone-boulder > 0.01 cu.m	cu.m	2020.92	2134.09	2044.26	2262.22
SM0052	Dry hand packed rubble masonry chisel dressed (facing) with stone-boulder > 0.01 cu.m	cu.m	2164.08	2277.24	2187.42	2405.38
Stone Masonry in Concrete Mortar						
SM0060	Providing and laying with hard stone (average volume 0.008 Cu.m) hand packed stone masonry in cement concrete mortar 1:2:4, 20mm aggregates	cu.m	3295.99	3428.94	3467.85	3782.05
SM0061	Providing & laying with hard stone (average volume 0.008 Cu.m) hand packed stone masonry in cement concrete mortar 1:3:6, 20mm aggregates	cu.m	3067.56	3173.38	3222.49	3500.27
SM0062	Providing and laying hammer dressed stone masonry with hard stone (average volume 0.008 Cu.m) in cement concrete mortar 1:2:4 20mm aggregates	cu.m	3485.57	3628.81	3659.56	3993.57
SM0063	Providing and laying hammer dressed stone masonry with hard stone (average volume 0.008 Cu.m) in concrete mortar 1:3:6 20mm aggregates	cu.m	3281.60	3397.70	3438.66	3736.25
SM0064	Providing and laying rubble masonry chisel dressed (facing) with hard stone (average volume 0.008 cu.m) in concrete mortar 1:2:4 20mm aggregates	cu.m	4056.87	4200.12	4230.86	4564.88
SM0065	Providing and laying rubble masonry chisel dressed (facing) with hard stone (average volume 0.008 cu.m) in concrete mortar 1:3:6 20mm aggregates	cu.m	3852.90	3969.01	4009.96	4307.55
Stone Soling Filling & Edging						
SM0070	Providing and laying Hammer dressed dry stone soling	cu.m	1598.29	1711.46	1621.64	1839.59
SM0071	Providing and laying Chisel dressed dry stone soling	cu.m	1672.32	1785.48	1695.66	1913.62
SM0072	Providing and laying Hand packed stone filling or soling with stones	cu.m	1319.78	1422.66	1341.00	1539.14
SM0073	Providing and laying Hammer dressed stone edging 150 x 250 mm with stones including excavation, refilling and disposal of surplus earth within 30 m lead	m	90.54	95.27	91.52	100.63

Code	Description	Units	PL	GP	SJ	TH
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Stone Pavement Hammer Dressed

Providing and laying hammer dressed 150mm thick flat stone pavement with hammer dressed stone edging 150mm wide & 250mm deep on both sides, including grouting joints

SM0080	With cement concrete mortar 1:3:6, 12mm aggregate	sq.m	455.29	477.54	473.27	520.32
SM0081	With cement mortar 1:3	sq.m	385.03	405.80	390.63	430.66
SM0082	With sand or earth etc.	sq.m	434.92	460.05	440.70	489.42

Flat Stone (Dolep) Paving

Providing & laying hammer dressed flat stone paving in cement mortar 1:6 on prepared bedding (excluding the cost of bedding)

SM0090	20mm	sq.m	405.17	407.72	406.14	411.15
SM0091	30mm	sq.m	525.16	528.89	526.37	533.66
SM0092	40mm	sq.m	645.15	650.06	646.61	656.17

Providing and laying hammer dressed dry dolep paving including preparation of bed

SM0093	30mm	sq.m	522.73	526.28	523.47	530.30
SM0094	40mm	sq.m	642.72	647.45	643.70	652.81

Providing & laying all sides chisel dressed flat stone paving in cement mortar 1:6 on prepared bedding (excluding the cost of bedding)

SM0100	20mm	sq.m	513.60	516.15	514.57	519.57
SM0101	30mm	sq.m	633.59	637.32	634.80	642.08
SM0102	40mm	sq.m	789.72	794.63	791.17	800.74

Providing and laying chisel dressed dry dolep paving including preparation of bed

SM0103	30mm	sq.m	631.16	634.71	631.89	638.73
SM0104	40mm	sq.m	787.29	792.02	788.27	797.38

Pointing

Providing & laying pointing on stone work with cement mortar 1:3

SM0110	Flush pointing	sq.m	77.66	78.51	79.15	80.82
SM0111	Ruled pointing	sq.m	82.82	83.68	84.31	85.99
SM0112	Raised and cut pointing	sq.m	153.42	154.84	155.89	158.67

Gabion Work

Providing & filling hand-packed stone in G.I mesh 4mm (8swg) including supplying and weaving of mesh

SM0120	Double-knotted mesh....100mm	cu.m	2627.30	3007.66	2977.16	3448.67
SM0121	Double-knotted mesh....150mm	cu.m	2557.33	2573.35	2977.16	3413.68
SM0122	Chain-link mesh....100mm	cu.m	2625.04	2960.20	3219.47	4292.32

Code	Description	Units	PL	GP	SJ	TH
Providing & filling hand-packed stone in G.I mesh of wire 3.25mm (10swg) including supplying of machine woven mesh complete.						
SM0125	Triple twisted hexagonal mesh 90mm x 100mm opening.	cu.m	2934.17	3621.36	3111.96	3949.36
SM0126	Triple twisted hexagonal mesh 100mm x 120mm opening.	cu.m	2819.56	3456.26	2983.81	3765.98
Providing & filling hand-packed stone in G.I mesh of wire 2.64mm (12swg) including supplying of machine woven mesh complete.						
SM0127	Triple twisted hexagonal mesh 90mm x 100mm opening.	cu.m	2671.70	3243.26	2818.50	3529.40
SM0128	Triple twisted hexagonal mesh 100mm x 120mm opening.	cu.m	2570.21	3097.06	2705.03	3367.02
Precast Stone Masonry						
Providing & laying Precast Stone Masonry blocks (1:5:8) in cement mortar 1:6 in foundation and plinth						
SM0130	30 cms thick	sq.m	1082.55	1088.48	1162.87	1206.19
SM0131	20 cms thick	sq.m	727.98	731.33	781.97	810.27
Providing & laying Precast Stone Masonry blocks (1:5:8) in cement mortar 1:6 in superstructure up to floor two level						
SM0140	20 cms thick	sq.m	731.37	734.72	785.35	813.66
SM0141	15 cms thick	sq.m	549.06	551.57	589.60	610.84
SM0142	10 cms thick	sq.m	371.51	373.11	398.58	412.65
Extra for Precast Stone Masonry blocks						
SM0150	Extra for Precast Stone Masonry blocks in superstructure above floor two level...per floor	sq.m	78.80	78.80	78.80	78.80

Code	Description	Units	PL	GP	SJ	TH
Chapter 11: WOOD WORK						
Dressed Timber Framing						
Providing & fixing in position dressed wood work in frames of doors, windows, clerestory windows and other frames, wrought and framed						
WW0001	Blue pine	cu.m	20451.66	19587.82	20063.60	19766.51
WW0002	Champ wood	cu.m	20451.66	19587.82	20063.60	19766.51
WW0003	Mixed Conifer	cu.m	20159.97	19296.56	19768.02	19474.96
WW0004	Teak/Sal wood	cu.m	20962.88	19971.99	20517.78	20175.72
WW0005	Hollock Wood	cu.m	20628.41	19637.95	20183.30	19841.35
Providing & fixing blue pine moulded beading to door, window frames with iron screws including plugs, priming coat on unexposed surfaces						
WW0010	50 x 12 mm	m	65.22	64.83	65.07	64.82
WW0011	50 x 20 mm	m	71.21	70.49	70.91	70.53
Providing & fixing joists, including hoisting, applying wood preservative on unexposed surfaces						
WW0020	Blue pine	cu.m	18069.14	17199.33	17658.11	17416.30
WW0021	Mixed Conifer	cu.m	17777.45	16908.07	17362.53	17124.75
WW0022	Teak/Sal wood	cu.m	18580.36	17583.50	18112.28	17825.51
WW0023	Hollock Wood	cu.m	18245.89	17249.46	17777.81	17491.14
Providing & fixing Eaves board (225x25mm) with moulding fitted and fixed with necessary screws						
WW0030	Mixed Conifer	m	132.93	127.91	130.65	128.95
Traditional Cornices						
Providing, making & fixing woodwork dressed in traditional cornices complete as per standard design in Mixed Conifer, including applying wood preservative on unexposed surfaces, excluding decorative painting (Measurement to be taken along the cornice and wall junction line)						
WW0035	At floor one level including lhanglag	m	1962.37	1901.27	1915.33	1949.17
WW0036	At all other floor levels (excluding phana)	m	2726.19	2636.58	2656.56	2708.02
WW0037	For single-storied structure including phana	m	2397.42	2307.54	2324.77	2384.32
WW0038	Phana	m	1160.35	1127.22	1126.01	1169.34
WW0039	Lintel level	m	1661.12	1598.63	1632.75	1611.54
Providing & fixing traditional wooden Tshegay for windows\railing etc. as per standard design						
WW0045	In mixed conifer	sq.m	2754.92	2728.60	2742.97	2734.04
WW0046	In blue pine	sq.m	2763.81	2737.48	2751.98	2742.92

Code	Description	Units	PL	GP	SJ	TH
Undressed Timber Framing						
WW0055	Providing & fixing Mixed Conifer (undressed) in wall-frames etc.	cu.m	18030.46	17167.05	17638.51	17345.46
WW0056	Providing & fixing Hollock Wood (undressed) in wall-frames etc.	cu.m	18198.54	17208.08	17753.44	17411.48
Providing & fixing roof framing, in trusses, purlins, rafters, posts, post plates including hoisting, etc. (excluding steel items)						
WW0060	Mixed Conifer	cu.m	21909.46	21046.05	21517.52	21224.46
WW0061	Blue Pine	cu.m	22201.16	21337.31	21813.10	21516.01
WW0062	Teak/Sal wood	cu.m	22712.37	21721.48	22267.27	21925.21
WW0063	Hollock Wood	cu.m	22377.90	21387.44	21932.80	21590.84
Providing & fixing gussets for timber trusses including wood preservative (coal tar)						
WW0070	12mm phenolic plywood	sq.m	462.67	349.79	362.83	531.46
Wall and ceiling Linings						
Providing and fixing to frames (wall or ceiling) Gypsum plaster board including finishing of joints smooth complete (excluding cost of frame)						
WW0080	10 mm thick	sq.m	399.74	433.29	398.10	494.67
WW0081	12 mm thick	sq.m	477.59	482.01	421.86	555.55
WW0082	15 mm thick	sq.m	462.56	550.10	459.64	693.92
Providing & fixing to frames (wall or ceiling) blue pine plain lining, tongued and grooved, including necessary fixtures, wooden plugs and priming coat on unexposed surfaces (excluding cost of frames)						
WW0090	12 mm thick	sq.m	311.94	303.04	308.21	303.69
WW0091	20 mm thick	sq.m	384.32	366.22	376.19	369.97
Providing & fixing to frames (wall or ceiling) Plain Particle Board Lining with necessary nails etc. complete (excluding cost of frames)						
WW0100	6 mm	sq.m	527.10	650.06	672.58	646.81
WW0101	10 mm	sq.m	753.55	841.79	849.73	887.58
WW0102	12 mm	sq.m	906.82	1137.08	1054.39	1062.55
WW0103	18 mm	sq.m	873.57	1349.48	1351.56	1103.38
Providing & fixing Pre-laminated Particle Board Lining with necessary nails etc. complete (excluding cost of frame)						
WW0110	8 mm	sq.m	692.75	720.27	736.69	890.47
WW0111	10 mm	sq.m	906.25	852.56	872.87	1153.54
WW0112	12 mm	sq.m	906.25	852.56	872.87	1153.54
WW0113	18 mm	sq.m	1064.88	1193.60	1223.94	1193.60

Code	Description	Units	PL	GP	SJ	TH
Bison Panel						
Providing & fixing bison panel (pre-laminated both sides for wall/ceiling) lining with necessary nails/screws etc. complete, excluding the cost of frame						
WW0120	6 mm	sq.m	1057.88	537.04	537.04	1260.86
WW0121	8 mm	sq.m	1150.04	560.48	560.48	1369.35
WW0122	10 mm	sq.m	1242.20	615.03	615.03	1486.01
WW0123	12 mm	sq.m	1360.02	656.88	656.88	1622.50
WW0124	16 mm	sq.m	1643.49	765.55	765.55	2652.56
WW0125	20 mm	sq.m	899.22	910.93	910.93	1067.68
Providing & fixing Plywood lining with necessary nails etc. including beading complete (excluding cost of frame)						
WW0130	4 mm, commercial	sq.m	490.35	449.17	453.80	571.66
WW0131	4 mm, teak	sq.m	571.65	550.50	554.92	659.69
WW0132	6 mm, commercial	sq.m	630.72	514.38	529.31	696.77
Providing & fixing Pre-fabricated wall panelling profiles with necessary nails etc. complete but excluding the cost of frame)						
WW0140	19 mm, blue pine	sq.m	998.08	982.16	982.16	958.27
WW0141	19 mm, mixed conifer	sq.m	893.11	879.19	879.19	858.29
WW0142	15 mm, blue pine	sq.m	1700.96	1672.87	1672.87	1630.75
Providing & fixing wooden skirting in mixed conifer with necessary nails or screws complete						
WW0150	20 mm	sq.m	1350.44	1335.13	1343.74	1337.10
WW0151	25 mm	sq.m	1417.37	1397.71	1408.70	1400.58
Bamboo Walling						
WW0160	Providing & fixing 75mm thick split bamboo wall including grooving frames, 20mm plaster cement mortar 1:4 both sides (excluding cost of frame)	sq.m	927.72	819.85	723.49	932.84
WW0161	Providing & fixing 75mm thick split bamboo wall including grooving frames, 20mm plaster cement mortar 1:5 both sides (excluding cost of frame)	sq.m	906.41	796.25	700.17	906.10
WW0162	Providing & fixing 75mm thick split bamboo wall including grooving frames, 20mm plaster cement mortar 1:6 both sides (excluding cost of frame)	sq.m	888.09	775.97	680.12	883.12
WW0163	Providing & fixing 75mm thick split bamboo wall including grooving frames, 20mm mud plaster both sides (excluding cost of frame)	sq.m	613.49	493.06	384.13	567.02
WW0164	Providing & fixing 150mm thick split bamboo wall including grooving frames, 60mm mud plaster both sides (excluding cost of frame)	sq.m	675.80	555.19	446.72	629.47
WW0165	Providing & fixing split Bamboo matting (excluding the cost of framing and beading)	sq.m	103.32	105.82	129.56	130.18

Code	Description	Units	PL	GP	SJ	TH
Partitions						
Providing & fixing Panelled or Panelled-&-Glazed partition, single-central-panelling including frame etc. complete						
WW0170	100mm framing, 38mm thick Mixed Conifer panelling	sq.m	1954.91	1913.35	1938.20	1911.35
WW0171	75mm framing, 38mm thick Mixed Conifer panelling	sq.m	1840.06	1803.42	1825.58	1800.40
WW0172	100mm framing, 38mm thick Champ or Blue Pine panelling	sq.m	1969.50	1927.92	1952.98	1925.93
WW0173	75mm framing, 38mm thick Champ or Blue Pine panelling	sq.m	1852.99	1816.33	1838.68	1813.32
Providing & fixing Panelled or Panelled-&-Glazed, Plywood panelling from both sides including frame						
WW0180	100mm framing, 4mm Commercial Ply	sq.m	1096.49	1004.60	1018.22	1258.41
WW0181	75mm framing, 4mm Commercial Ply	sq.m	993.78	906.80	917.74	1159.60
WW0182	100mm framing, 4mm Teak Ply	sq.m	1266.83	1216.90	1230.09	1442.86
WW0183	75mm framing, 4mm Teak Ply	sq.m	1156.85	1111.39	1122.08	1336.70
Providing & fixing Panelled with Pre-fabricated profiles from both sides including the frame and prime coat on concealed face						
WW0190	100mm, 12mm blue pine	sq.m	2092.60	2053.85	2061.72	2013.70
WW0191	75mm, 12mm blue pine	sq.m	1982.62	1948.34	1953.71	1907.54
WW0192	100mm, 12mm mixed conifer	sq.m	2059.14	2051.28	2059.15	2011.21
WW0193	75mm, 12mm mixed conifer	sq.m	1949.16	1945.77	1951.14	1905.04
WW0194	100mm, 12mm champ wood	sq.m	2298.35	2255.68	2263.55	2209.65
WW0195	75mm, 12mm champ wood	sq.m	2188.37	2150.16	2155.54	2103.49
Door & Window Shutters						
Providing & fixing 25mm thick Panelled or glazed Shutters for cup-boards etc. complete including hinges						
WW0200	Champ wood	sq.m	1492.15	1500.67	1491.32	1468.91
WW0201	Mixed Conifer	sq.m	1232.00	1240.53	1231.08	1208.76
Providing & fixing 35mm thick Panelled or glazed doors and windows Shutters etc. complete including hinges						
WW0210	Champ wood	sq.m	1662.40	1677.88	1699.00	1646.77
WW0211	Mixed Conifer	sq.m	1413.24	1428.72	1449.84	1397.62
Providing & fixing 38mm thick Panelled or glazed doors and windows Shutters etc. complete including hinges						
WW0220	Champ wood	sq.m	1250.63	1702.05	1724.07	1671.28
WW0221	Mixed Conifer	sq.m	1439.06	1452.89	1474.91	1422.13
Providing & fixing 44mm thick Panelled or glazed doors and windows Shutters etc. complete including hinges						
WW0230	Champ wood	sq.m	1729.31	1740.59	1764.02	1710.36
WW0231	Mixed Conifer	sq.m	1478.71	1489.99	1513.42	1459.75

Code	Description	Units	PL	GP	SJ	TH
Providing & fixing 50mm thick Panelled or glazed doors and windows Shutters etc. complete including hinges						
WW0240	Champ wood	sq.m	1792.56	1799.81	1825.46	1770.40
WW0241	Mixed Conifer	sq.m	1546.70	1567.48	1605.96	1547.88
Providing & fixing Wire-gauze Shutters 25mm for doors & windows using galvanised M.S wire gauze 0.56mm dia wire including the cost of hinges						
WW0250	Champ wood	sq.m	1260.63	1289.91	1306.25	1299.59
WW0251	Mixed Conifer	sq.m	939.29	968.56	984.90	978.24
Providing & fixing Wire-gauze Shutters 35mm for doors & windows using galvanised M.S wire gauze 0.56mm dia wire including the cost of hinges						
WW0260	Champ wood	sq.m	1339.37	1363.63	1382.73	1374.35
WW0261	Mixed Conifer	sq.m	1018.02	1042.28	1061.38	1053.00
Providing & fixing Wire-gauze Shutters 38mm for doors & windows using galvanised M.S wire gauze 0.56mm dia wire including the cost of hinges						
WW0270	Champ wood	sq.m	1363.89	1386.59	1406.55	1397.63
WW0271	Mixed Conifer	sq.m	1042.54	1065.24	1085.20	1076.28
Providing & fixing Battened door & window shutters 20mm, with ledges and braces (25 mm), including the cost of hinges						
WW0280	Champ wood	sq.m	1117.32	1102.52	1132.34	1181.13
WW0281	Blue pine	sq.m	1117.32	1102.52	1132.34	1181.13
WW0282	Mixed Conifer	sq.m	1117.32	1102.52	1132.34	1181.13
Providing & fixing battened garage door with ledges and braces (38mm) in Mixed Conifer, including mountings etc. complete						
WW0290	22 mm	sq.m	1159.20	1190.34	1162.23	1205.38
Providing & fixing battened and framed door shutters, Mixed Conifer excluding the cost of hinges						
WW0295	38mm	sq.m	1015.67	1007.18	1038.57	1089.35
Venetian Works						
WW0300	Providing & fixing 38mm thick louvered shutters for windows, doors with fixed 12mm venetians, in Mixed Conifer excluding the cost of hinges	sq.m	1087.86	1104.84	1170.77	1224.38
WW0301	Providing & fixing Mixed Conifer venetians 50mm wide, 10mm thick at 45mm apart in ventilators above doors (excluding frame)	sq.m	423.87	419.68	421.99	420.54

Code	Description	Units	PL	GP	SJ	TH
Trellis						
WW0310	Providing & fixing plain trellis of 38x12mm laths with 38mm gap (excluding frames) including fixing beading 50x12mm with Mixed Conifer	sq.m	697.00	683.02	690.65	685.91
WW0311	Providing & fixing Door & window shutters of plain trellis of 38x12mm laths with 38mm gap (excluding frame) including fixing beading 50x12mm with Mixed conifer	sq.m	1197.49	1201.44	1248.47	1345.58
Compound Gates						
WW0320	Providing & fixing Compound Gate including hinge-supports complete as per	sq.m	1361.73	1642.78	1438.54	1681.26
Window Accessories						
WW0325	Providing & fixing M.S. round or square bars in window frames	kg	82.20	81.63	80.63	87.98
WW0326	Providing & fixing M.S. round or square bars with M.S. flats in window frames	kg	75.40	82.55	76.33	88.58
WW0327	Providing & fixing ornamental steel grills in frames with M.S. flats & bars including round headed bolts and nuts etc.	kg	144.94	186.90	157.20	191.14
WW0328	Providing & fixing expanded metal 20x60mm strands 3.25x1.6mm including 60x20mm beading of Mixed Conifer	sq.m	589.05	505.04	479.76	617.35
Pre-fabricated shutters						
Providing & fixing Flush Door shutters with pre-laminated bison panel						
WW0335	25mm	sq.m	824.10	809.93	809.93	1092.70
WW0336	30mm	sq.m	1025.60	1036.09	1036.09	1277.07
Providing & fixing Flush Door shutters (pre-fabricated), block-board core with commercial ply veneer						
WW0345	25mm	sq.m	1285.82	1363.58	1381.97	1309.96
WW0346	30mm	sq.m	1562.29	1548.28	1565.80	1424.79
WW0347	35mm	sq.m	1750.11	1801.85	1810.92	1658.83
WW0348	40mm	sq.m	1972.92	1861.48	1890.58	1889.51
Providing & fixing flush door shutters (pre-fabricated), block-board core with teak ply veneer						
WW0355	25mm	sq.m	2098.31	2062.16	2080.84	1854.86
WW0356	30mm	sq.m	2929.49	2442.27	2467.83	2051.78
WW0357	35mm	sq.m	3069.48	2699.46	2730.10	2204.25
WW0358	40mm	sq.m	3243.04	3018.11	3061.01	2661.65
Providing & fixing flush door shutters (pre-fabricated), block-board core with ply veneer, chemically treated						
WW0365	25mm	sq.m	1492.09	1468.73	1508.37	1463.14
WW0366	30mm	sq.m	2275.06	1720.85	1767.35	1744.28

Code	Description	Units	PL	GP	SJ	TH
WW0367	35mm	sq.m	2448.87	2017.44	2072.03	1887.76
WW0368	40mm	sq.m	2145.63	2314.03	2376.71	2330.41
Providing & fixing panelled doors, with 12mm particle board panels with horizontal middle rail including prime coat						
WW0375	30mm	sq.m	1852.22	1817.23	1817.23	1851.53
WW0376	35mm	sq.m	1874.90	1839.48	1839.48	1874.19
WW0377	40mm	sq.m	1890.01	1854.30	1854.30	1889.31
Providing & fixing panelled doors, with 12mm plywood panels with horizontal middle rail including prime coat						
WW0385	30mm	sq.m	1360.91	1335.28	1335.28	1360.40
WW0386	35mm	sq.m	1377.53	1351.59	1351.59	1377.02
WW0387	40mm	sq.m	1475.79	1447.98	1447.98	1475.25
Providing & fixing panelled doors, with 9mm plywood panels with horizontal middle rail including prime coat						
WW0395	30mm	sq.m	1335.21	1310.06	1310.06	1334.71
WW0396	35mm	sq.m	1348.81	1323.41	1323.41	1348.31
WW0397	40mm	sq.m	1357.87	1332.30	1332.30	1357.38
Providing & fixing panelled doors, with 12mm particle board panels with horizontal single lock rail & stile including prime coat						
WW0400	30mm	sq.m	1933.81	1879.52	1879.52	1915.00
WW0401	35mm	sq.m	1939.91	1885.44	1885.44	1921.04
WW0402	40mm	sq.m	1942.96	1888.42	1888.42	1924.06
Providing & fixing panelled doors, with 12mm plywood panels with horizontal single lock rail & stile including prime coat						
WW0410	30mm	sq.m	1942.96	1888.42	1888.42	1924.06
WW0411	35mm	sq.m	1442.39	1402.01	1402.01	1428.40
WW0412	40mm	sq.m	1448.49	1407.94	1407.94	1434.45
Providing & fixing panelled doors, with 9mm plywood panels with horizontal single lock rail & stile including prime coat						
WW0420	30mm	sq.m	1387.45	1348.62	1348.62	1374.00
WW0421	35mm	sq.m	1393.56	1354.55	1354.55	1380.04
WW0422	40mm	sq.m	1401.18	1361.97	1361.97	1387.60
Providing & fixing panelled doors, with 12mm particle board panels with horizontal double lock rail & stile including prime coat						
WW0430	30mm	sq.m	1972.71	1899.54	1899.54	1935.40
WW0431	35mm	sq.m	2015.07	1940.32	1940.32	1976.96
WW0432	40mm	sq.m	2019.68	1944.77	1944.77	1981.49

Code	Description	Units	PL	GP	SJ	TH
Providing & fixing panelled doors, with 12mm plywood panels with horizontal double lock rail & stile including prime coat						
WW0440	30mm	sq.m	2019.68	1944.77	1944.77	1981.49
WW0441	35mm	sq.m	1476.28	1421.66	1421.66	1448.44
WW0442	40mm	sq.m	1485.12	1430.18	1430.18	1457.12
Providing & fixing panelled doors, with 9mm plywood panels with horizontal double lock rail & stile including prime coat						
WW0450	30mm	sq.m	1417.74	1365.31	1365.31	1391.01
WW0451	35mm	sq.m	1426.98	1374.21	1374.21	1400.07
WW0452	40mm	sq.m	1439.30	1386.07	1386.07	1412.17
Providing & fixing panelled doors, with 9mm plywood panels with horizontal double lock rail & stile including prime coat						
WW0460	30mm	sq.m	739.57	725.78	725.78	884.06
WW0461	35mm	sq.m	884.06	737.65	737.65	737.65
WW0462	40mm	sq.m	757.72	743.57	743.57	743.57
Shelving & Cupboards						
Providing & fixing 38mm thick wooden shelves supported on 40x40x6mm 'T' or 'L' iron brackets fixed at suitable distance but not exceeding 75 cm apart in 7.5x7.5x15cm blocks of cement concrete 1:3:6, 20 mm aggregates						
WW0470	Mixed Conifer	sq.m	905.60	871.93	892.20	881.89
Providing & fixing 25mm thick Cupboard (900x2000x450 mm...LxHxD) with glazed or panelled shutters, 25mm thick partitions and shelves supported on 25x25mm wooden runners, 50x20mm architraves and 25mm dia curtain rod mounted on wooden brackets, including with Anodised Aluminium Hinges and frame in mixed conifer						
WW0475	Mixed Conifer	each	5546.93	5509.06	5460.91	5523.34
WW0476	Champ wood	each	5963.17	5925.28	5877.29	5939.57
Extras for Cupboards including frame of mixed conifer						
WW0485	For additional depth of 50mm or part thereof	50mm	286.84	282.50	281.21	286.65
WW0486	For additional width of 100mm or part thereof including shutters of Mixed conifer	100mm	524.55	512.27	508.21	522.37
WW0487	For additional width of 100mm or part thereof, including shutters of Champ wood	100mm	522.80	510.58	506.52	520.64
WW0488	For additional height of 100mm or part thereof, including shutters of Mixed conifer	100mm	404.60	395.23	392.90	402.56
WW0489	For additional height of 100mm or part thereof, including shutters of Champ wood	100mm	403.52	394.20	391.87	401.50

Code	Description	Units	PL	GP	SJ	TH
Railing						
Providing & fixing railing with 90x60mm top & bottom rails, trellis 60x45mm including 2 coats of paint etc. all complete						
WW0495	900 mm high, Champ wood	m	513.79	515.14	515.23	512.06
WW0496	900 mm high, Mixed Conifer	m	498.08	499.43	499.45	496.35
WW0497	1000 mm high, Champ wood	m	591.85	593.94	593.77	590.22
WW0498	1000 mm high, Mixed Conifer	m	585.82	587.92	587.67	584.20
WW0499	1200 mm high, Champ wood	m	699.70	702.25	702.02	697.84
WW0500	1200 mm high, Mixed Conifer	m	699.70	702.25	702.02	697.84
Pellets						
Providing & fixing 100x12mm, with 25mm dia. wooden curtain rod and brackets including M.S flats 25x3x100mm and plugs etc. complete						
WW0505	Champ wood	m	164.62	163.92	163.94	164.77
WW0506	Mixed Conifer	m	157.68	156.99	157.00	157.83
Providing & fixing 150x12mm, with 25mm dia. wooden curtain rod and brackets including M.S flats 25x3x100mm and plugs etc. complete						
WW0515	Champ wood	m	171.97	170.81	171.09	171.75
WW0516	Mixed Conifer	m	162.99	160.68	161.76	161.51
Shutters Fittings						
Providing & fixing M.S. pressed butt hinges with necessary screws etc. complete						
WW0525	100mm	each	34.38	41.79	48.54	78.03
WW0526	75mm	each	24.23	32.37	40.32	51.78
WW0527	50mm	each	21.16	24.25	32.70	38.66
Providing & fixing M.S tower bolt (barrel type) with necessary screws etc. complete						
WW0535	250mm	each	93.36	99.89	65.85	204.18
WW0536	150mm	each	72.28	61.32	44.95	150.63
WW0537	100mm	each	50.12	47.43	29.98	116.61
Providing & fixing M.S. sliding door bolt, bright finished, enamelled with necessary screws etc. complete						
WW0545	300mm	each	300.74	259.83	182.98	358.84
WW0546	250mm	each	280.91	252.32	156.00	290.01
WW0547	200mm	each	259.33	173.49	150.78	243.35
Providing & fixing M.S. handle with necessary screws etc. complete						
WW0555	150mm	each	41.39	49.28	59.44	87.47
WW0556	125mm	each	33.80	41.90	44.89	62.68
WW0557	100mm	each	32.06	38.24	31.82	45.18
WW0558	75mm	each	26.22	26.69	24.54	37.89

Code	Description	Units	PL	GP	SJ	TH
Providing & fixing M.S. hook-and-eye with necessary screws etc. complete						
WW0565	300mm	each	45.43	36.87	42.70	109.83
WW0566	200mm	each	45.79	36.21	33.11	80.66
WW0567	150mm	each	34.86	41.86	25.85	67.05
WW0568	100mm	each	26.96	35.61	21.36	49.58
M.S door stopper						
WW0575	Providing & fixing M.S. door stopper with nuts and necessary screws complete	each	130.65	153.56	110.67	246.37
Providing & fixing anodised aluminium butt hinges with necessary aluminium screws etc. complete						
WW0580	100mm	each	48.19	61.23	65.48	59.85
WW0581	75mm	each	44.69	53.06	45.50	48.19
Providing & fixing anodised aluminium tower bolt (barrel type) with aluminium screws etc. complete						
WW0590	200mm	each	69.48	108.55	80.91	113.22
WW0591	150mm	each	53.08	89.00	49.84	83.41
WW0592	100mm	each	39.08	71.98	32.21	58.22
Providing & fixing anodised aluminium sliding door bolts with nuts and aluminium screws etc. complete						
WW0600	300mm	each	250.90	232.24	288.79	334.89
WW0601	250mm	each	233.99	202.84	236.76	284.73
WW0602	200mm	each	229.90	173.21	211.19	235.74
Providing & fixing anodised aluminium handle with necessary aluminium screws etc. complete						
WW0610	150mm	each	34.30	70.81	42.93	66.26
WW0611	125mm	each	32.73	53.26	34.18	49.93
WW0612	100mm	each	28.41	47.37	27.77	42.93
WW0613	75mm	each	27.62	36.97	23.10	36.23
Providing & fixing anodised aluminium hook-and-eye with necessary screws etc. complete						
WW0620	300mm	each	61.01	79.43	88.55	99.51
WW0621	200mm	each	44.33	64.34	67.23	55.77
WW0622	150mm	each	30.95	50.97	49.38	42.23
WW0623	100mm	each	25.32	38.34	33.02	30.10
Kicking plate						
WW0630	Providing & fixing anodised aluminium kicking plate, 4mm thick with necessary aluminium screws etc. complete	sq.m	564.03	599.72	703.84	706.69
Providing & fixing brass pressed butt hinges with necessary screws etc. complete						
WW0635	100mm	each	170.98	138.71	107.27	157.63
WW0636	75mm	each	123.39	108.67	75.93	124.09
WW0637	50mm	each	72.82	76.76	54.19	70.13

Code	Description	Units	PL	GP	SJ	TH
Providing & fixing brass tower bolt (barrel type) with necessary screws etc. complete						
WW0645	250mm	each	253.21	253.20	233.72	442.77
WW0646	150mm	each	280.17	184.06	185.60	396.34
WW0647	100mm	each	166.43	148.36	133.81	270.94
Providing & fixing brass sliding door bolt with nuts necessary screws etc. complete						
WW0655	300mm	each	487.76	752.22	686.93	1029.51
WW0656	250mm	each	455.04	653.07	553.32	893.90
WW0657	200mm	each	413.63	416.08	492.50	806.41
Providing & fixing brass handle with necessary screws etc. complete						
WW0665	150mm	each	131.59	156.77	140.08	144.42
WW0666	125mm	each	97.84	125.83	125.02	116.43
WW0667	100mm	each	102.43	116.31	94.44	93.10
WW0668	75mm	each	68.02	102.03	74.59	74.43
Other fittings						
WW0675	Providing & fixing bright finish brass 100 mm mortise latch & pair of levers, handles with necessary screws etc. complete	each	948.59	1058.42	879.07	1466.77
WW0676	Providing & fixing bright finish brass spring-loaded, hinged door-closer with necessary screws etc. complete	each	912.85	878.51	886.93	778.70
WW0677	Providing & fixing bright finish brass hydraulic door-closer	each	860.15	901.20	906.85	1368.77
WW0678	Providing & fixing bright finished brass door stopper with nuts and necessary screws etc. complete	each	219.41	178.58	184.70	145.53
Providing & fixing bright finished brass hook-and-eye with necessary screws etc. complete						
WW0685	150mm	each	45.27	114.82	76.94	83.76
WW0686	100mm	each	44.68	101.44	59.27	52.27
Fixing Accessories						
WW0695	P&f 40x3mm M.S. hold fast 400mm long, fixing to frame with 10mm bolts & nuts, plugs, concrete blocks 300x100x150mm with 1:3:6, 20mm aggregate	each	81.61	97.03	88.09	101.71
Ceiling Insulation						
WW0700	Providing & laying dry earth in ceilings in proportion 1:5 (1 straw: 5 dry earth) including plastic underlay	cu.m	444.38	946.31	709.37	1076.18

Code	Description	Units	PL	GP	SJ	TH
S k y l i g h t						
WW0705	Providing & fixing skylight translucent diffuser panel including 50x12 beading etc. complete	sq.m	1208.89	1221.68	1238.93	1394.43
T i m b e r C a r v i n g						
WW0710	Providing & fixing Decorative Traditional Timber Carving	sq.m	1226.52	1226.52	1226.52	1226.52
uPVC Window (with wire mesh)						
Providing, fixing and installation of 2-track, UPVC sliding windows including wire mesh, 88mm wide, 5mm clear glass with hardware fittings - EPDM gaskets, U- groove roller, Aluminium track, Fastner nut, interlock, touch lock and wool pile, complete.						
WW0715	Plain white window	sq.m	6695.52	6720.58	6812.79	6751.56
WW0716	Polished window	sq.m	8764.60	8789.67	8881.87	8820.65
WW0717	Textured Window	sq.m	12074.33	12099.40	12191.60	12130.38
uPVC Window (without wire mesh)						
Providing, fixing and installation of 2-track, UPVC sliding windows including 5mm clear glass with hardware fittings - EPDM gaskets, U- groove roller, Aluminium track, Fastner nut, interlock, touch lock and wool pile, complete.						
WW0718	Plain white window	sq.m	6227.64	6720.58	6812.79	6751.56
WW0719	Polished window	sq.m	8296.72	8321.79	8414.00	8352.77
WW0720	Textured Window	sq.m	11606.46	11631.52	11723.73	11662.50

Code	Description	Units	PL	GP	SJ	TH
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Chapter 12: STEEL

Single Sections

Steel work in single section including cutting, hoisting, fixing and applying priming coat of red lead paint

SW0001	In R.S. joists	kg	74.29	123.75	105.38	124.62
SW0002	In Flats	kg	74.84	114.93	86.59	119.06
SW0003	In Tees, angles and channels	kg	78.45	124.84	90.20	119.60

Fabricated & Built-up Sections

Steel work riveted or bolted, in built up sections, trusses, frame-works, including cutting, hoisting, fixing and appl. priming coat of red lead paint

SW0010	In R.S. joists	kg	78.26	122.73	106.42	125.12
SW0011	In Tees, angles, flats and channels	kg	153.58	192.03	169.91	195.93

Steel work welded, in built up sections, trusses, frame-works including cutting, hoisting, fixing and appl. priming coat of red

SW0020	In R.S. joists	kg	77.79	123.97	106.89	124.82
SW0021	In Tees, angles, flats and channels	kg	82.96	122.51	99.78	125.22
SW0022	In Tubular sections	kg	73.91	72.57	75.01	91.55

Doors/Windows & Accessories

Providing & fixing in position with vertical channels 20x10x2mm and braced with flat iron, diagonals 20x5mm with top and bottom rails of T-iron 40x40x6mm with 38mm dia steel pulleys complete with bolts, nuts, locking arrangement, stoppers handles including applying a priming coat of red lead paint

SW0030	Collapsible steel shutters	sq.m	4386.90	5806.17	4767.41	5817.73
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Providing & fixing in position including applying a priming coat of red lead paint

SW0035	Rolling shutters, including all accessories complete but excluding top cover	sq.m	1608.70	1583.25	1583.25	1583.25
SW0036	Top cover for rolling shutters	m	713.71	687.80	687.80	687.79

Providing & fixing anodised Aluminium section for doors, windows, ventilators, partitions framing, false ceiling framing of specified sections including all accessories such as U-rubber gasket for fixing glass panes, weather strips or weather seals, roller, springs, etc complete (excluding the cost of glass panes or boards in case of partitions/doors/windows and ceiling boards in case of ceiling)

SW0045	Sliding, open able and pivoted windows	kg	496.92	605.79	465.50	500.37
SW0046	Sliding and open able doors	kg	498.72	607.60	467.31	502.18
SW0047	Partition framing	kg	493.30	602.18	461.89	496.76
SW0048	False ceiling framing	kg	491.86	600.73	460.44	495.31

Code	Description	Units	PL	GP	SJ	TH
Extra for providing and fixing plain glass panes on aluminium section complete (excluding the cost of aluminium frame & accessories)						
SW0055	4mm thick plain glass	sq.m	631.56	601.36	684.99	669.77
SW0056	5.5mm thick, plain glass	sq.m	802.00	827.07	919.29	858.05
SW0057	5.5mm thick frosted glass	sq.m	913.81	802.79	966.64	1046.33
Providing & fixing steel glazed doors, windows, ventilators of standard rolled steel sections joints mitred and welded with 15x3mm lugs embedded as required including p&f glass panes and a coat of primer						
SW0065	Doors	sq.m	2102.08	2081.87	2086.60	2048.60
SW0066	Windows fixed	sq.m	1122.02	1120.30	1124.98	1087.46
SW0067	Windows side hung	sq.m	1460.68	1452.72	1457.46	1419.29
SW0068	Ventilators top hung	sq.m	1454.60	1446.56	1451.23	1413.71
SW0069	Ventilators centre hung	sq.m	1651.13	1639.34	1644.02	1606.50
Extra for Bhutan type Architraves						
SW0075	Extra for Providing & fixing Bhutan type architraves with 24G steel sheet....per sq.m. of window area	sq.m	256.27	293.44	310.07	447.59
Steel Fasteners						
SW0080	Providing & fixing M.S. round hold-down bolts with nuts and washer plates	kg	64.58	72.51	68.72	77.24
SW0081	Providing & fixing bolts of various sizes including nuts & washers	kg	143.55	157.92	142.97	170.38
SW0082	Providing & fixing M.S. rivets of various sizes	kg	183.17	152.86	170.02	220.53
Plates						
SW0090	Providing, making and fixing M.S. straps, flats, sole plates etc.	kg	73.53	112.04	92.14	114.89
Fan Clamps						
SW0095	Providing & fixing M.S. fan clamps of 16 mm dia. in R.C. slabs, including painting with red lead paint	each	126.85	125.96	124.42	135.77
Steel Form Work						
SW0100	Providing and fixing steel form work in foundations, footings, bases of columns etc for mass concrete	sq.m	415.84	431.51	398.71	461.72
SW0101	Providing and fixing steel form work in suspended floors, roofs, landings, shelves and their support, balconies, chajjas etc	sq.m	686.95	681.04	648.67	708.02
SW0102	Providing and fixing steel form work in lintels, beams, girders, bressumers, cantilevers, etc.	sq.m	654.72	675.74	629.37	714.37
SW0103	Providing and fixing steel form work in columns, pillars, posts, struts etc.	sq.m	1077.99	1166.84	1066.25	1250.66

Code	Description	Units	PL	GP	SJ	TH
Stainless Steel (Grade 304) Railing						
SW0110	Providing and fixing stainless steel (Grade 304) railing made of Hollow tubes, channels, plates etc... including welding, grinding, buffing, polishing and making curvature (wherever required) and fittings the same with necessary stainless steel nuts and bolts complete, i/e fixing railing with necessary accessories and stainless steel dash fasteners, stainless steel bolts etc, of required size on the top of the floor or the side of waist slab with suitable arrangement as per approval of engineers in charge.	Kg	1594.21	1594.21	1594.21	1594.21

Code	Description	Units	PL	GP	SJ	TH
Chapter 13: FLOORING						
Brick Flooring						
Providing & laying 2nd class Brick-on-edge flooring						
FL0001	In cement mortar 1:4	sq.m	766.09	734.79	701.20	1089.48
FL0002	In cement mortar 1:6	sq.m	741.07	706.97	673.68	1058.20
FL0003	In dry brick , including filling joints with sand on bedding of 12.5mm mud mortar	sq.m	681.33	641.89	604.53	978.50
Providing & laying 2nd class Flat brick flooring						
FL0010	In cement mortar 1:4	sq.m	537.85	520.12	501.02	746.24
FL0011	In cement mortar 1:6	sq.m	515.25	495.28	476.53	717.59
FL0012	In dry brick, filling joints with sand, on a base of 12.5mm mud mortar	sq.m	430.66	406.22	383.92	616.08
Providing & laying pointing on brick flooring with cement mortar 1:2						
FL0020	Flush pointing	sq.m	58.60	59.16	59.73	60.91
FL0021	Ruled pointing	sq.m	63.53	64.09	64.66	65.84
Providing & laying pointing on brick flooring with cement mortar 1:4						
FL0030	Flush pointing	sq.m	58.60	59.16	59.73	60.91
FL0031	Ruled pointing	sq.m	63.53	64.09	64.66	65.84
Providing & laying Pointing on brick flooring with cement mortar 1:6						
FL0040	Flush pointing	sq.m	56.83	57.20	57.79	58.69
FL0041	Ruled pointing	sq.m	61.76	62.13	62.72	63.62
Concrete Flooring						
Pal cement concrete flooring 1:2:4, finished with floating coat of neat cement						
FL0050	12mm aggregates, 25mm thick	sq.m	207.32	212.53	219.81	231.07
FL0051	20mm aggregates, 40mm thick	sq.m	280.91	286.17	300.59	317.07
FL0052	20mm aggregates, 50mm thick	sq.m	324.86	331.05	349.12	369.13
FL0053	20mm aggregates, 75mm thick	sq.m	429.74	437.82	465.09	493.32
FL0054	20mm river gravel, 40mm thick	sq.m	517.69	538.41	594.83	637.37
FL0055	20mm river gravel, 50mm thick	sq.m	620.55	646.05	716.47	768.97
Providing & laying cement concrete flooring 1:3:6, finished with a floating coat of neat cement						
FL0060	20mm aggregates, 50mm	sq.m	294.82	297.04	317.34	332.46
FL0061	20mm river gravel, 50mm	sq.m	264.53	275.96	282.64	301.26

Code	Description	Units	PL	GP	SJ	TH
Red Oxide Flooring						
Providing & laying 40mm red oxide flooring, finished with a floating coat of neat cement (red oxide mixed) including cement slurry etc. complete						
FL0070	Under layer of 30mm thick cement concrete 1:2:4, 12.5mm aggregates and top layer of 10mm thick plaster of cement red oxide mixed	sq.m	701.36	716.09	698.87	754.56
Surface Hardening						
Providing & laying 62mm thick flooring with sub-layer cement concrete 1:2:4 20mm aggregates, top layer with metallic cement hardener consisting of mix 1:2 (1 cement hardener: 2 6mm stone aggregate), the metallic hardening compound is mixed by volume in the ratio 4 parts of cement & 1 part of metallic hardening compound including cement slurry						
FL0075	50mm thick sub-layer and 12mm topping	sq.m	692.64	634.27	651.92	873.92
Extra for Concrete flooring						
FL0080	Extra for making chequers on concrete floors, steps, landings, pavements etc.	sq.m	26.10	26.10	26.10	26.10
Terrazzo - Marble Chip Flooring						
Providing & laying 40mm thick marble chips flooring top layer 6mm thick with white, black or black and white marble chips of nominal size 1.5-3mm in proportion 1:2 (cement: chips), on 34mm thick concrete base in cement concrete 1:2:4, 12.5mm aggregate (cement and marble powder mix shall be of the ratio 3 part of cement to 1 part of marble powder)						
FL0085	In grey cement	sq.m	768.87	796.28	782.81	823.55
FL0086	In white cement	sq.m	883.04	928.58	909.45	971.78
Extra for coloured chips						
FL0095	Extra for coloured chips instead of black, white or black and white chips in top 6mm layer of marble chips flooring	sq.m	60.69	64.70	56.83	82.91
FL0096	Extra for coloured chips instead of black, white or black and white chips in top 10mm layer marble chips flooring	sq.m	97.66	104.11	91.46	133.41
Providing & laying 40mm thick marble chips flooring top layer 10mm thick with white, black or black and white marble chips of size 6mm in proportion 1:2 (cement : chips), on 30mm cement concrete 1:2:4 base, 12.5mm aggregate						
FL0105	In grey cement	sq.m	700.42	728.96	701.75	740.81
FL0106	In white cement	sq.m	958.34	1022.79	986.38	1071.40

Code	Description	Units	PL	GP	SJ	TH
Extra for Terrazzo Flooring						
FL0115	Extra for Providing & fixing glass strips in joints of terrazzo floors	m	19.66	19.66	19.66	19.66
FL0116	Extra for terrazzo flooring laid as floor borders, margins, bands, 75 < width > 300mm	sq.m	21.62	21.62	21.62	21.62
FL0117	Extra for laying terrazzo flooring on stair case treads, width < 300mm including forming nosing	sq.m	32.44	32.44	32.44	32.44
FL0118	Extra for laying terrazzo in narrow bands width <75mm	m	2.29	2.29	2.29	2.29
FL0119	Extra for making moulded nosing in terrazzo, including moulded returns, ends, angles	m	87.57	87.57	87.57	87.57
FL0120	Providing & fixing aluminium strip 40x1.6mm in joints of terrazzo floor	m	133.87	142.91	133.87	216.09

Skirting

Providing & laying Cement plaster skirting < 300mm height with cement mortar 1:3 with a floating coat of neat cement including rounding off junctions with floor

FL0130	20mm	sq.m	263.15	272.72	279.09	297.45
FL0131	22mm	sq.m	275.75	286.44	293.64	314.19

Providing & fixing Terrazzo or Marble chips skirting < 300mm height top layer 6mm thick with white or black, black and white marble chips size 4mm in proportion 1:2, laid on 12.5mm thick cement plaster 1:3 base

FL0140	In grey cement	sq.m	757.20	786.37	767.39	809.00
FL0141	In white cement	sq.m	863.88	910.38	885.83	947.83

Marble Stone Flooring

Providing & laying marble stone flooring over 20mm thick base of cement mortar 1:4, jointed with grey cement slurry mixed with pigment where necessary, rubbing & polishing complete

FL0150	20mm thick black marble	sq.m	3872.09	3296.53	2886.17	3315.12
FL0151	20mm thick white marble	sq.m	3096.02	3296.53	3302.51	3308.39
FL0152	20mm thick black and white marble	sq.m	2655.99	3332.47	3338.46	3401.01
FL0153	20mm thick coloured marble	sq.m	3725.30	3514.49	3520.48	5737.09
FL0154	40mm thick black marble	sq.m	3698.41	3352.12	3358.06	4943.37
FL0155	40mm thick white marble	sq.m	3197.33	3082.57	3088.51	4673.76
FL0156	40mm thick black and white marble	sq.m	3466.88	3459.94	3465.89	5198.52
FL0157	40mm thick coloured marble	sq.m	3458.49	3290.32	3515.69	3583.46

Providing & laying Kota stone flooring over 20mm thick base of cement mortar 1:4, jointed with grey cement slurry mixed with pigment where necessary, rubbing & polishing complete

FL0160	20mm	sq.m	2094.73	3122.92	3128.90	2750.90
FL0161	40mm	sq.m	3176.47	4177.61	4183.59	3994.38

Code	Description	Units	PL	GP	SJ	TH
Extras for Marble stone flooring						
FL0170	Extra for marble stone flooring for laying in step-treads, width < 300 mm	m	269.16	269.16	269.16	269.16
FL0171	Extra for marble stone flooring for nosing in step-treads	m	226.22	226.22	226.22	226.22
Providing and laying Pre-Polished/ Polished Granite of approved quality and source in flooring using necessary cement bedding in C.M. 1:4 upto 20 mm thick average cement slurry for fixing the tiles with required slopes, curing, cleaning, filling the joints with pigments of similar colour and at all levels with all leads and lifts etc. complete as per directions of site in-charge and as per pattern required						
FL0175	18mm Thick granite stone flooring over 18mm thick base of cement mortar 1:4.	sq.m	6472.67	6482.55	6488.54	6507.18
FL0176	20mm Thick granite stone flooring over 20mm thick base of cement mortar 1:4.	sq.m	5701.29	5711.17	5717.16	5735.80
FL0177	Extra, for granite stone flooring for laying in step-tread, width <300 mm	m	253.37	253.37	253.37	253.37
FL0178	Extra, for granite stone flooring for nosing in step-treads	m	210.02	210.02	210.02	210.02
Timber Flooring						
Providing & fixing bison panel flooring including nails/screws etc. complete excluding the cost of frame						
FL0180	25mm	sq.m	1011.06	996.18	996.18	1293.09
FL0181	30mm	sq.m	1222.63	1233.65	1233.65	1486.68
Providing & fixing Plain Particle-Board Flooring fixing with necessary screws etc. complete, excluding cost of frame						
FL0190	25mm	sq.m	1451.01	1595.78	1597.27	1576.26
FL0191	35mm	sq.m	1756.81	1889.68	1893.55	1901.58
Providing & fixing Mixed Conifer Flooring including fixing with iron screws etc. complete, excluding the cost of frame						
FL0200	25mm thick, T&G	sq.m	523.56	499.04	512.43	504.11
FL0201	25mm thick, half-lapped	sq.m	492.23	467.72	481.10	472.78
FL0202	40mm thick, T&G	sq.m	738.38	700.55	721.21	708.37
FL0203	40mm thick, half-lapped	sq.m	729.64	691.82	712.47	699.64
FL0204	45mm thick, T&G	sq.m	795.38	754.68	776.90	763.09
FL0205	45mm thick, half-lapped	sq.m	781.74	741.04	763.27	749.45
Parquet flooring						
Providing & fixing Parquet (wood block) flooring including blown bitumen underlay and iron screws etc. complete, excluding cost of frame						
FL0210	38mm thick, champ wood	sq.m	2904.06	2869.67	2888.61	2876.78

Code	Description	Units	PL	GP	SJ	TH
Providing & fixing Pre-Fabricated Flooring Profiles in mixed conifer including necessary screws etc. complete						
FL0215	25mm thick	sq.m	897.71	667.90	672.86	648.25
FL0216	38mm thick	sq.m	1035.35	884.72	891.81	856.66

Vinyl & Linoleum Flooring

Providing & fixing 2mm thick Vinyl or Linoleum sheet 1.3mm laid with special adhesive, including 2 coat of bitumen applied over subfloor on prepared surface @ 1.5 kg/sq.m each coat including the cost of base concrete

FL0225	Over base of 25mm thick cement concrete 1:2:4 , 12.5mm aggregate	sq.m	854.86	835.36	867.07	863.17
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Mud flooring

FL0230	Providing & laying rammed mud flooring complete	sq.m	84.79	84.29	86.05	85.90
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Chapter 14: TILING - WALL & FLOOR

GL0001	Providing & fixing white/ coloured Glazed tiles, 150 x 150 mm in skirting, step risers, dado, finished with flush-pointing in white cement	sq.m	1982.17	1952.86	2156.68	1957.70
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Providing & fixing white/ coloured glazed tiles in flooring, treads of steps and landings laid on bed of 12mm thick cement mortar 1:3 finished with flush pointing in white cement:

GL0005	for 150 x 150 mm	sq.m	1743.47	1714.17	1917.99	1719.00
GL0006	for 100 x 100 mm	sq.m	3508.81	3312.98	3859.13	3423.84
GL0007	for 200 x 100 mm	sq.m	2176.59	2078.92	2410.89	2142.42
GL0008	for 200 x 200 mm	sq.m	1407.59	1418.80	1397.38	1399.64
GL0009	for 300 x 300 mm	sq.m	978.88	1060.20	1127.87	985.69

Extra for laying glazed tiles

GL0015	In treads of steps, width <300mm	sq.m	120.30	120.30	120.30	120.30
GL0016	In skirting, risers of steps, dado where tiles are required to be cut (only area of portion of cut tiles to be measured)	sq.m	693.29	693.29	693.29	693.29

Code	Description	Units	PL	GP	SJ	TH
Chapter 15: ROOFING						
C.G.I Sheet ing						
Providing & fixing Corrugated Galvanised Iron (CGI) sheeting, including bolts, hooks and nuts 8mm dia. with bitumen and G.I limpet washers filled with white lead for connection, excluding the cost of purlins, rafter and trusses						
RF0001	24g	sq.m	663.97	660.99	668.14	726.07
Providing & fixing Pre Painted Steel Corrugated Roofing sheets, including bolts, hooks and nuts 8mm dia. with bitumen and G.I limpet washers filled with white lead for connection, excluding the cost of purlins, rafter and trusses.						
RF0003	25g (0.50mm)	sq.m	906.78	927.83	936.08	1003.67
Providing & fixing 600mm ridges or hips in plain G.I. including bolts, hooks and nuts 8mm dia G.I limpet and bitumen washers for connection						
RF0005	24g.	m	515.02	514.39	519.88	587.32
Providing & fixing 600mm ridges or hips in Pre Painted Steel sheets, including bolts, hooks and nuts 8mm dia G.I limpet and bitumen washers for connection.						
RF0007	25g. (0.50mm)	m	653.35	642.50	659.66	673.69
Providing & fixing 450mm over all semi-circular plain G.I gutter, including brackets, bolts, nuts, washers & rain water pipes connections, excluding the cost of pipes						
RF0010	24g sheet	m	406.67	437.94	418.95	486.60
Extra for Galvanised Iron						
RF0015	Extra for Providing & fixing curved C.G.I. sheet in roofing	sq.m	9.17	9.17	9.17	9.17
RF0016	Extra for Providing & fixing C.G.I. sheets vertically or to a pitch > 60 degrees	sq.m	9.24	9.24	9.24	9.24
RF0017	Extra for making straight-cut openings (in 24g) for chimney, sky lights	m	142.90	142.40	143.60	153.30
Extra for making opening or recess in CGI roofing of girth < 1 metre						
RF0025	Area upto 0.01sq.m	each	26.80	26.80	26.80	26.80
RF0026	0.01 < Area < 0.04sq.m	each	65.85	65.85	65.85	65.85
RF0027	Area > 0.04sq.m	each	98.77	98.77	98.77	98.77
Wind Bracing						
RF0060	Providing & fixing wind tie of 40 x 6 mm flats	m	139.28	215.58	161.58	223.28

Code	Description	Units	PL	GP	SJ	TH
Thatched Roofing						
RF0065	Providing & fixing 150mm thatched roofing, including straws/grass bundles, half split bamboo fillet, tying strings complete	sq.m	1292.00	852.77	789.13	953.23
RF0066	Providing & fixing 25mm dia. bamboos at 225mm apart including moonj ban(rope) or string	sq.m	803.93	443.45	389.11	521.25
RF0067	Providing & fixing thatched coping to ridges and hips, girth <1 metre including tying and split bamboo wind tie complete	m	2030.85	1539.66	1481.95	1660.59
Slate Roofing						
RF0075	Providing & fixing single slate roofing including bitumen felt water-proofing etc complete, excluding the cost of wooden reapers, trusses	sq.m	983.36	989.66	980.15	1049.29
Concrete Tiles Roofing						
Providing & fixing PLAIN Pantile or Roman II concrete tiles-500mm x 250mm including tying wires but excluding the cost of frame work						
RF0080	6mm	sq.m	242.77	236.97	232.95	237.26
RF0081	8mm	sq.m	274.74	274.74	269.99	281.88
RF0082	10mm	sq.m	284.26	284.26	279.36	293.84
Providing & fixing COLOURED Pantile or Roman concrete tiles-500mm x 250mm including tying wires but excluding the cost of frame work						
RF0090	6mm	sq.m	288.58	293.63	288.58	317.76
RF0091	8mm	sq.m	297.95	303.15	297.95	325.19
RF0092	10mm	sq.m	312.52	312.52	307.02	326.50
Providing & fixing PLAIN Super Roman concrete tiles-600mm x 330mm including tying wires but excluding the cost of frame work						
RF0100	10mm	sq.m	329.71	335.70	329.71	349.70
Providing & fixing COLOURED Super Roman concrete tiles-600mm x 330mm including tying wires but excluding the cost of frame work						
RF0105	10mm	sq.m	365.31	371.97	365.31	387.77
Providing & fixing PLAIN Semi-Sheet concrete tiles-600mm x 600mm including tying wires but excluding the cost of frame work						
RF0110	8mm	sq.m	2686.48	3659.38	3659.38	3986.02
Providing & fixing COLOURED Semi-Sheet concrete tiles-600mm x 600mm including tying wires but excluding the cost of frame work						
RF0115	8mm	sq.m	3379.41	4172.67	3986.02	4522.63

Code	Description	Units	PL	GP	SJ	TH
Providing and fixing concrete tiles ridges or hips including tying wire etc. complete						
RF0120	Plain	m	1123.56	1291.54	1291.54	1524.85
RF0121	Coloured	m	2656.40	2691.40	2691.40	2924.71
Shinglep Roofing						
RF0130	Providing & fixing shinglep roofing with shinglep of size 1350x125x12mm in 3 layers including tying, uplift protection complete	sq.m	750.11	756.53	744.63	744.63
Red- Mud Plastic Sheeting						
RF0135	Providing & fixing red mud corrugated plastic sheeting, 1.5 mm thick	sq.m	572.94	596.07	586.03	590.62
RF0136	Providing & fixing red mud plastic sheet 600 mm ridging, 1.3mm thick	m	621.53	541.59	534.77	552.74
Corrugated Fibreglass Sheeting						
RF0150	P&f 1.2mm transparent sheet including 8mm G.I J or L hooks, bitumen & G.I limpet washers etc complete, excluding cost of frame	sq.m	1668.76	1668.76	1668.76	2075.80
Providing & laying lime concrete terracing on roofing , average depth 100mm						
RF0155	including drainage fall, ramming, rounding at parapets	sq.m	1018.27	1135.27	1271.70	1374.11
RF0156	including drainage fall, ramming, rounding at parapets and under-coat of hot bitumen 80/100	sq.m	1091.34	1208.47	1344.98	1447.99
Providing & laying cement concrete terracing on roof with cement concrete 1:3:6, 20mm aggregates over a base coat of bitumen 80\100 mixed with coarse sand						
RF0165	115mm average thickness	sq.m	521.33	523.10	570.77	600.95
RF0166	Painting roof with bitumen including spreading sand, cleaning slab etc. complete	sq.m	81.13	81.32	83.21	84.88
Rain Water Pipe						
Providing & fixing C.I. rain water pipes & fittings with necessary screws on the wall face including filling joints etc. complete						
RF0175	100mm dia C.I pipes	m	1436.29	1605.60	1360.35	1436.56
RF0176	100mm dia C.I. head for pipe	each	314.50	328.10	269.82	314.56
RF0177	100mm dia C.I. bend for pipe	each	344.54	371.00	251.98	344.61
RF0178	100mm dia C.I. shoes for pipe	each	530.78	560.90	582.35	530.89

Code	Description	Units	PL	GP	SJ	TH
Providing & fixing 100mm dia C.I. offset for rain water pipe on wall face including filling joints						
RF0185	75mm projection	each	456.29	413.89	418.56	456.38
RF0186	150mm projection	each	680.97	711.71	692.23	681.10
Providing and fixing on wall face single socketed rigid PVC (Working Pressure 4kgf per sq.cm) rain water pipes including jointing with seal ring leaving 10 mm gap for thermal expansion- complete						
RF0190	75mm dia	m	358.68	393.22	370.05	391.76
RF0191	90mm dia	m	421.79	483.94	409.79	492.47
RF0192	110mmdia	m	446.54	475.22	453.99	490.53
Providing and fixing on wall face PVC coupler for rigid rain water pipes including jointing with seal ring leaving 10 mm gap for thermal expansion - complete						
RF0195	75 mm	each	160.21	177.02	185.66	194.59
RF0196	90 mm	each	211.07	232.91	224.93	250.97
RF0197	110 mm	each	241.75	243.97	266.88	287.13
Providing and fixing on wall face PVC Single tee with door for rigid rain water pipes including jointing with seal ring leaving 10 mm gap for thermal expansion - complete						
RF0200	75 mm	each	205.71	245.35	214.34	249.81
RF0201	90 mm	each	286.90	315.25	282.17	338.07
RF0202	110 mm	each	328.08	356.89	340.85	392.51
Providing and fixing on wall face PVC plain Single tee for rigid rain water pipes including jointing with seal ring leaving 10 mm gap for thermal expansion - complete						
RF0205	75 mm	each	188.21	228.99	199.70	226.87
RF0206	90 mm	each	274.07	291.46	256.86	299.96
RF0207	110 mm	each	307.08	327.64	330.30	363.35
Providing and fixing on wall face PVC bend for rigid rain water pipes including jointing with seal ring leaving 10 mm gap for thermal expansion - complete						
RF0210	75 mm	each	169.54	200.35	196.25	204.70
RF0211	90 mm	each	236.74	273.61	240.99	274.69
RF0212	110 mm	each	261.58	290.63	297.67	306.96
Providing and fixing on wall face PVC shoe for rigid rain water pipes including jointing with seal ring leaving 10 mm gap for thermal expansion - complete						
RF0215	75 mm	each	236.55	247.20	247.76	245.53
RF0216	90 mm	each	296.52	302.87	298.80	299.96
RF0217	110 mm	each	350.78	354.54	367.47	358.29

Code	Description	Units	PL	GP	SJ	TH
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Chapter 16: PLUMBING - INDOOR WORK**Water Supply****Providing & fixing G.I. pipes including G.I. fittings & clamps & repair walls**

PI0001	15mm	m	181.02	193.71	196.16	254.58
PI0002	20mm	m	200.45	240.85	240.02	313.99
PI0003	25mm	m	253.90	303.63	311.98	381.83
PI0004	32mm	m	320.88	379.17	398.12	473.11
PI0005	40mm	m	376.12	472.42	524.96	569.38
PI0006	50mm	m	483.85	575.57	635.50	741.07

Providing & fixing H.D.P.E pipes including clamps & repair walls etc. complete

PI0010	20mm	m	101.29	101.29	101.29	101.29
PI0011	25mm	m	120.79	120.79	120.79	120.79
PI0012	32mm	m	212.75	212.75	212.75	212.75
PI0013	40mm	m	224.37	224.37	224.37	224.37
PI0014	50mm	m	307.19	307.19	307.19	307.19

Providing and fixing 3-layer PP-R (Polypropylene Random Copolymer) PN-16 pipes, SDR 7.4 UV Stabilized and anti microbial fusion welded, having thermal stability for hot and cold water supply including all PP-R plain and brass Threaded Polypropylene random fittings including fixing pipe with clamps at 1.0m spacing. This includes testing of joints, cutting chases and making good the wall complete as per direction of Engineer-in- Charge.

PI0290	16mm	m	170.00	170.00	170.00	170.00
PI0291	20mm	m	188.78	188.78	188.78	188.78
PI0292	25mm	m	258.37	258.37	258.37	258.37
PI0293	32mm	m	435.52	435.52	435.52	435.52
PI0294	40mm	m	583.76	583.76	583.76	583.76
PI0295	50mm	m	879.89	879.89	879.89	879.89

Storage Tanks

Providing & fixing storage tank of M.S. sheet welded all round, including 40mm G.I scour pipe, 25mm G.I overflow , 15mm ball valve , pads for inlet and outlet pipes , red lead primer & two coats of bitumastic paint

PI0020	270 litre capacity of 2mm steel sheet	each	8155.54	9354.48	9990.71	13752.32
PI0021	810 litre capacity of 2.8mm steel sheet	each	15359.36	18464.34	19909.59	30230.83
PI0022	1620 litre capacity of 3.15mm steel sheet	each	22792.66	27686.91	29911.61	46563.72

Providing & fixing plastic tank including all accessories complete

PI0030	270 litre capacity	each	3441.33	3124.01	3242.38	3984.06
PI0031	500 litre capacity	each	4190.89	10548.77	5054.02	6112.68
PI0032	1000 litre capacity	each	7850.44	10008.74	9365.67	11405.41
PI0033	2000 litre capacity	each	15094.15	18768.96	18297.38	21915.45
PI0034	3000 litre capacity	each	22381.10	30683.23	27391.32	32468.75

Code	Description	Units	PL	GP	SJ	TH
Pans & Cisterns						
Providing & fixing Indian-type vitreous china w.c squatting pan, including 100 mm H.C.I P or S trap, 10 lit low level vitreous china cistern & fittings, repair walls						
PI0040	500mm, white	each	4455.76	5004.53	4315.54	4866.07
PI0041	580mm, white Orissa-model	each	4397.43	5059.26	4477.69	4866.07
PI0042	580mm, colour Orissa-model	each	5571.56	5877.90	4641.40	6557.57
Providing & fixing European-type vitreous china w.c pedestal including seat and lid with c.p brass hinges, 15 lit white vitreous china low level cistern, fittings, brackets, repair walls						
PI0050	white, with plastic seat & lid	each	5339.37	5238.09	5095.13	5732.22
PI0051	coloured, with plastic seat & lid	each	5397.69	6011.52	5247.65	7336.22
Foot Rests						
PI0060	Providing & fixing white vitreous china foot rests (250x130x30mm) for Indian W.C	pair	225.42	205.59	186.34	184.59
Urinals						
Providing & fixing white vitreous china flat back, lipped front urinal basin 430x260x350mm including C.I cistern & fittings, brackets, G.I. flush pipe & spreaders, brass unions, G.I. clamps, painting, repair walls						
PI0065	One bowl-5 litres. C.I. cistern	each	4722.35	4362.30	4471.23	5525.96
PI0066	Two bowls-10 litres. C.I. cistern	each	5976.11	7322.04	6750.03	8168.47
PI0067	Three bowls-10 litres. C.I. cistern	each	8286.97	9580.55	8630.91	11201.90
Baths						
Providing and fixing bath tubs with fittings and accessories complete						
PI0075	Porcelain, white enamelled, with a pair of 20mm C.P pillar tap, 40mm C.P brass waste, 32mm C.P brass over flow, rubber plug, 40mm C.P trap etc.	each	20053.80	20618.05	30197.56	21544.25
PI0076	Fibreglass tub, white	each	23404.42	19614.25	33340.95	22000.67
PI0077	P-Trap, heavy duty, for bath-tub	each	1067.77	1067.77	1077.88	1062.71
Basins & Sinks						
Providing & fixing white vitreous china wash basin, including C.I brackets, 15mm C.P. brass pillar taps, c.p. chain & rubber plug, 32mm pvc waste, 32mm dia. trap & union, repair walls						
PI0085	Flat back wash basin 630x450mm with a pair of 15mm c.p. brass pillar taps	each	5706.51	5688.07	6077.90	6470.32
PI0086	Flat back wash basin 630x450mm with single 15mm c.p. brass pillar taps	each	5089.86	5107.02	5560.06	5738.57
PI0087	Flat back wash basin 550x400mm with a pair of 15mm c.p. brass pillar taps	each	5129.42	4926.54	5539.54	5799.56
PI0088	Flat back wash basin 550x400mm with single 15mm c.p. brass pillar tap	each	4512.77	4345.50	5021.69	5067.81

Code	Description	Units	PL	GP	SJ	TH
Providing & fixing white vitreous china angle back wash basin 400x400mm including brackets, 15mm c.p brass pillar taps, c.p brass chain & rubber plug, 32mm c.p brass waste, 32mm dia c.p brass trap and M.I union and repair walls						
PI0095	With single 15mm c.p. brass pillar tap	each	4512.77	4345.50	5021.69	5067.81
PI0096	With pair of 15mm c.p. brass pillar taps	each	5129.42	4926.54	5539.54	5799.56
Flush Valve & Bend						
PI0105	Providing & fixing c.p. flush valve, 32mm with 40mm outlet	each	4653.35	3919.91	2123.85	5635.58
PI0106	Providing & fixing c.p. concealed flush valve, 32mm with 40mm outlet	each	3883.42	3919.91	2164.68	4935.65
PI0107	Providing & fixing c.p. flush bend, long	each	571.59	582.30	379.21	916.89
PI0108	Providing & fixing c.p. flush valve elbow	each	482.17	482.17	329.15	464.85
Pedestals & Kitchen Sinks						
PI0115	Providing & fixing pedestals for basins, white vitreous china, recessed back for pipes and necessary fittings	each	1799.92	1683.90	1876.00	1544.31
Providing & fixing Kitchen Sinks including all connections and fittings						
PI0120	White glazed vitreous china 600 x 450 x 250 mm including accessories and repairs to walls etc.	each	4701.75	5100.79	5368.98	6983.35
PI0121	Stainless steel, 450 x 400 x 150 mm, single bowl	each	1461.04	1508.64	1298.42	1804.36
PI0122	Stainless steel, 580 x 480 x 175 mm, single bowl	each	1707.94	1597.88	1482.68	1921.01
PI0123	Stainless steel, 940 x 460 x 160 mm, single bowl & drain-board	each	2331.37	2188.59	2257.97	2619.04
PI0124	Stainless steel, 1080 x 520 x 175 mm, single bowl & drain-board	each	2640.74	2261.88	2449.86	2852.35
PI0125	Stainless steel, 1150 x 515 x 175 mm, single bowl & drain-board	each	3497.46	2868.72	3047.90	3202.32
PI0126	Stainless steel, 1740 x 520 x 200 mm, single bowl & double drain-board	each	4802.10	3996.55	3896.96	6233.45
PI0127	Stainless steel, 940 x 460 x 160 mm, double bowl	each	4784.02	4288.73	4327.40	6118.69
PI0128	Stainless steel, 1150 x 520 x 160 mm, single bowl	each	5933.74	5805.83	5859.37	7576.88
PI0129	Stainless steel, 1740 x 520 x 200 mm, double bowl & single drain-board	each	9561.62	9561.62	9650.86	7749.97
PI0130	Stainless steel, 1740 x 520 x 200 mm, double bowl & double drain-board	each	11988.98	11988.98	12102.02	7749.97
Drain Board, Rubber plug						
PI0140	Providing & fixing stainless steel drain-board, 610 x 460 mm with all necessary fittings	each	1494.96	1347.02	1351.34	3051.18
PI0141	Providing & fixing c.p. brass chain & rubber plug for basin and sink	each	238.20	263.19	226.93	246.71
W a s t e s						
PI0150	Providing & fixing 32mm dia pvc. waste	each	95.02	95.41	111.07	158.06
PI0151	Providing & fixing 32mm c.p. brass waste	each	250.10	330.59	222.53	391.37
PI0152	Providing & fixing 40mm c.p. brass waste	each	410.73	427.69	382.37	589.68

Code	Description	Units	PL	GP	SJ	TH
Water Heaters						
Providing & fixing Electric water heater including necessary fittings						
PI0160	10 litres	each	7666.14	8281.77	6630.40	8031.68
PI0161	15 litres	each	8884.32	9053.84	7277.02	13119.61
PI0162	25 litres	each	9953.92	10364.67	8328.24	15806.52
PI0163	35 litres	each	11954.55	11852.02	9264.58	17352.20
PI0164	50 litres	each	15020.22	15099.33	14157.72	20201.20
PI0165	70 litres	each	21440.33	21447.05	20769.81	23030.08
PI0166	100 litres	each	25866.72	24968.15	25400.59	26594.19
Water Supply Fittings						
Providing & fixing C.P. Brass shower fittings						
PI0175	Shower with revolving joint, 15mm,	each	703.67	649.05	612.64	693.26
PI0176	Adjustable shower, with locking key, 15mm	each	849.31	946.40	1092.76	3588.29
PI0177	Shower arm, standard 15mm	each	642.98	460.93	356.94	541.65
PI0178	Shower arm, heavy duty 15mm	each	412.38	593.60	421.98	619.42
PI0179	Flexible shower tube & shower	each	1141.37	1221.47	1084.75	1383.16
Providing & fixing c.p. brass stop cock						
PI0185	15mm, standard, c.p knob	each	584.42	703.82	502.59	788.57
PI0186	20mm, standard, c.p knob	each	571.59	583.49	690.58	911.05
PI0187	20mm, heavy-duty, c.p knob	each	1047.54	972.50	1047.54	1494.33
PI0188	15mm, concealed, c.p knob	each	855.06	756.02	586.17	1139.70
PI0189	15mm, angle, c.p knob	each	821.46	657.97	475.15	743.46
Providing & fixing c.p. brass pillar-cock						
PI0195	15mm, standard, c.p knob	each	631.08	595.48	532.28	746.18
PI0196	15mm, swan neck, c.p knob	each	1008.87	1004.59	933.22	1784.80
Providing & fixing c.p. brass bibcock						
PI0205	15mm, standard vertical, c.p knob	each	555.73	571.59	438.31	911.05
PI0206	15mm, inclined, c.p. knob	each	512.09	571.59	627.04	1290.18
PI0207	15mm, long nose, c.p. knob	each	571.59	815.51	628.46	899.39
PI0208	15mm, long body, c.p. knob	each	568.61	746.11	565.37	921.16
Providing & fixing c.p. brass mixers, 15mm						
PI0215	For basin, single-hole, casted spout	each	2342.13	2342.13	1929.53	2172.87
PI0216	For basin, close-hole	each	2002.30	1774.32	1757.95	3302.48
PI0217	For basin, elbow action, surgical	each	2584.87	2584.87	3673.01	5781.40
PI0218	For basin, elbow action, surgical with shower	each	2948.97	2948.97	3496.32	5781.40
PI0219	For sink, with spout J pipe	each	1674.61	1674.61	2146.61	3172.22
PI0220	For sink, with casted spout swinging	each	1553.24	1553.24	2435.30	3827.43
PI0221	For sink, with swivel spout	each	885.72	885.72	1748.30	3802.15
PI0222	For wall, non-telephonic type	each	2631.80	2702.33	3242.94	3662.17
PI0223	For wall, telephonic type with crutch and tel. shower	each	3245.11	3129.83	3604.92	4749.00

Code	Description	Units	PL	GP	SJ	TH
PI0224	For wall, telephonic type without crutch and tel. shower	each	3313.07	3313.07	3262.13	4644.01
PI0225	For wall, telephonic type with crutch and without tel. shower	each	2706.24	2706.24	2667.48	4264.89
PI0226	For wall, telephonic type with C.P bend & flanges	each	1917.34	1917.34	2269.17	5055.22
PI0227	For wall, with telephonic shower arrangement with 115mm long bend pipe for over head shower connection	each	4284.02	4284.02	4858.13	5676.41
PI0228	Three hole mixer without pop-up	each	4284.02	4284.02	4325.66	5810.56
PI0229	Three hole mixer with pop-up	each	4284.02	4284.02	4325.66	5810.56
PI0230	For bath, with exposed adjustable legs with telephone shower arrangement with crutch	each	5983.17	5983.17	6041.47	5781.40
PI0231	For shower, three in one, with bend flexible tube, and shower & hook	each	5801.12	5801.12	5857.63	5728.91

Providing & fixing Wall Spouts

PI0240	C.p., standard, 15mm	each	564.23	564.23	564.23	672.51
PI0241	With diverter, for use with single lever mixers	each	1098.24	1098.24	1841.36	1138.94

Bathroom Accessories

PI0250	Providing & fixing 600x450mm bevelled edge mirror (superior glass) incl.4mm A.C sheet base fixed to wooden cleats	each	820.03	1006.62	953.78	1228.32
PI0251	Providing & fixing 450x120mm glass shelf, including c.p brass brackets fixed to wooden cleats	each	984.19	960.63	983.03	1553.86
PI0252	Providing & fixing c.p. towel rail 750 x 20mm with c.p brass brackets fixed to wooden cleats	each	912.71	710.43	1062.23	1055.03
PI0253	Providing & fixing c.p. towel rail 600 x 20mm with c.p brass brackets fixed to wooden cleats	each	805.63	722.33	858.22	940.32
PI0254	Providing & fixing c.p. towel rail 450 x 20mm with c.p brass brackets fixed to wooden cleats	each	671.76	662.84	623.20	891.72
PI0255	Providing & fixing c.p. towel ring	each	609.05	700.28	622.36	685.97

Providing & fixing toilet paper holder

PI0260	C.P. brass	each	588.45	585.56	402.54	560.43
PI0261	Recessed ceramic, 200 x 100 mm, coloured,	each	1007.02	980.96	980.96	946.55
PI0262	Recessed ceramic, 200 x 100 mm, white	each	873.22	849.31	849.31	817.73
PI0263	Recessed ceramic, roll-type, 150 x 150 mm	each	848.24	825.03	825.03	794.40

Soap Container, Coat Hooks

PI0270	Providing & fixing Liquid soap container, c.p, including c.p brass lid & brackets, wooden cleats, c.p brass screws	each	707.76	580.44	600.18	853.23
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Providing & fixing soap dish

PI0275	including brackets, wooden cleats, c.p. brass screws	each	528.45	450.75	375.94	433.27
PI0276	Recessed, ceramic, 150x150 mm	each	642.98	642.98	642.98	619.42
PI0277	Recessed, ceramic, 200x100 mm	each	648.93	631.08	642.98	619.42

Providing & fixing c.p coat hook

PI0285	Single	each	534.45	456.36	544.51	386.36
PI0286	Double	each	486.10	456.36	600.48	482.60

Code	Description	Units	PL	GP	SJ	TH
Chapter 17: PLUMBING - OUTDOOR WORK						
External Water Supply Pipework						
Providing & laying G.I. pipes including G.I. fittings (excluding trenching, refilling & thrust block)						
PO0001	15mm	m	125.05	137.74	140.20	198.61
PO0002	20mm	m	138.54	178.94	178.10	252.08
PO0003	25mm	m	190.19	239.92	248.27	318.12
PO0004	32mm	m	247.93	306.22	325.17	400.16
PO0005	40mm	m	282.01	378.31	430.85	475.27
PO0006	50mm	m	365.42	457.14	517.07	622.64
PO0007	65mm	m	485.57	690.14	694.55	806.57
PO0008	80mm	m	613.89	960.00	896.77	1035.41
PO0009	100mm	m	886.63	1268.97	1251.03	1498.68
PO0010	150mm	m	1452.26	1911.24	1960.63	2383.56
Providing & laying H.D.P.E pipes, 12.5 PN, including H.D.P.E fittings (excluding trenching, refilling & thrust block)						
PO0640	20mm	m	46.68	46.68	46.68	46.68
PO0641	25mm	m	64.49	64.49	64.49	64.49
PO0642	32mm	m	98.89	98.89	98.89	98.89
PO0643	40mm	m	147.77	147.77	147.77	147.77
PO0644	50mm	m	221.52	221.52	221.52	221.52
PO0645	63mm	m	351.49	351.49	351.49	351.49
PO0646	75mm	m	486.27	486.27	486.27	486.27
PO0647	90mm	m	687.97	687.97	687.97	687.97
PO0648	110mm	m	1017.35	1017.35	1017.35	1017.35
PO0649	140mm	m	1632.85	1632.85	1632.85	1632.85
PO0650	160mm	m	2105.86	2105.86	2105.86	2105.86
PO0651	225mm	m	4084.37	4084.37	4084.37	4084.37
PO0652	250mm	m	4450.75	4450.75	4450.75	4450.75
PO0653	280mm	m	5568.68	5568.68	5568.68	5568.68
PO0654	315mm	m	7034.35	7034.35	7034.35	7034.35
PO0655	335mm	m	8914.86	8914.86	8914.86	8914.86
PO0656	400mm	m	11532.16	11532.16	11532.16	11532.16
Providing & laying H.D.P.E pipes, 10 PN, including H.D.P.E fittings (excluding trenching, refilling & thrust block)						
PO0015	25mm	m	57.08	57.08	57.08	57.08
PO0016	32mm	m	86.41	86.41	86.41	86.41
PO0017	40mm	m	130.26	130.26	130.26	130.26
PO0018	50mm	m	188.76	188.76	188.76	188.76
PO0019	63mm	m	303.68	303.68	303.68	303.68
PO0020	75mm	m	415.58	415.58	415.58	415.58
PO0021	90mm	m	589.41	589.41	589.41	589.41
PO0022	110mm	m	855.32	855.32	855.32	855.32
PO0023	140mm	m	1117.65	1117.65	1117.65	1117.65
PO0024	160mm	m	1384.67	1384.67	1384.67	1384.67
PO0025	225mm	m	3447.11	3447.11	3447.11	3447.11
PO0665	250mm	m	3715.59	3715.59	3715.59	3715.59
PO0666	280mm	m	4640.34	4640.34	4640.34	4640.34
PO0667	315mm	m	5864.54	5864.54	5864.54	5864.54
PO0668	335mm	m	7441.86	7441.86	7441.86	7441.86
PO0669	400mm	m	9616.45	9616.45	9616.45	9616.45

Code	Description	Units	PL	GP	SJ	TH
Providing & laying H.D.P.E Pipes, 6 PN, including H.D.P.E fittings (excluding trenching, refilling & thrust block)						
PO0030	32mm	m	73.69	73.69	73.69	73.69
PO0031	40mm	m	92.12	92.12	92.12	92.12
PO0032	50mm	m	132.81	132.81	132.81	132.81
PO0033	63mm	m	212.13	212.13	212.13	212.13
PO0034	75mm	m	285.88	285.88	285.88	285.88
PO0035	90mm	m	398.68	398.68	398.68	398.68
PO0036	110mm	m	580.67	580.67	580.67	580.67
PO0037	140mm	m	926.92	926.92	926.92	926.92
PO0038	160mm	m	1188.86	1188.86	1188.86	1188.86
PO0039	225mm	m	2267.12	2267.12	2267.12	2267.12
PO0675	250mm	m	2416.99	2416.99	2416.99	2416.99
PO0676	280mm	m	3019.76	3019.76	3019.76	3019.76
PO0677	315mm	m	3806.63	3806.63	3806.63	3806.63
PO0678	335mm	m	4807.09	4807.09	4807.09	4807.09
PO0679	400mm	m	6195.55	6195.55	6195.55	6195.55

Providing & laying H.D.P.E Pipes, 4 PN, including H.D.P.E fittings (excluding trenching, refilling & thrust block)

PO0045	40mm	m	73.37	85.77	73.37	73.37
PO0046	50mm	m	112.46	112.46	112.46	112.46
PO0047	63mm	m	161.27	161.27	161.27	161.27
PO0048	75mm	m	207.05	207.05	207.05	207.05
PO0049	90mm	m	294.41	294.41	294.41	294.41
PO0050	110mm	m	423.00	423.00	423.00	423.00
PO0051	140mm	m	667.53	667.53	667.53	667.53
PO0052	160mm	m	853.17	853.17	853.17	853.17
PO0053	225mm	m	1600.84	1600.84	1600.84	1600.84
PO0685	250mm	m	1700.61	1700.61	1700.61	1700.61
PO0686	280mm	m	2139.72	2139.72	2139.72	2139.72
PO0687	315mm	m	2660.96	2660.96	2660.96	2660.96
PO0688	335mm	m	3371.65	3371.65	3371.65	3371.65
PO0689	400mm	m	5312.82	5312.82	5312.82	5312.82

Providing & laying H.D.P.E Pipes, 2.5 PN, including H.D.P.E fittings (excluding trenching, refilling & thrust block)

PO0060	110mm	m	288.21	288.21	288.21	288.21
PO0061	140mm	m	466.62	466.62	466.62	466.62
PO0062	160mm	m	583.60	583.60	583.60	583.60
PO0063	225mm	m	1061.70	1061.70	1061.70	1061.70

Providing and fixing 3-layer PP-R (Polypropylene Random Copolymer) PN 16 pipes, SDR 7.4 UV Stabilized and anti microbial fusion welded, having thermal stability for hot and cold water supply including all PP-R plain and brass Threaded Polypropylene random fittings excluding trenching, refilling but including testing of joints complete as per direction of Engineer-in- Charge.

PO0700	16mm	m	114.04	114.04	114.04	114.04
PO0701	20mm	m	131.67	131.67	131.67	131.67
PO0702	25mm	m	194.66	194.66	194.66	194.66
PO0703	32mm	m	309.17	309.17	309.17	309.17

Code	Description	Units	PL	GP	SJ	TH
PO0704	40mm	m	489.66	489.66	489.66	489.66
PO0705	50mm	m	761.46	761.46	761.46	761.46
PO0706	63mm	m	1217.00	1217.00	1217.00	1217.00
PO0707	75mm	m	1716.28	1716.28	1716.28	1716.28
PO0708	90mm	m	2521.57	2521.57	2521.57	2521.57

Providing and fixing 3-layer PP-R (Polypropylene Random Copolymer) PN 10 pipes, SDR 7.4 UV Stabilized and anti

PO0709	110mm	m	3672.26	3672.26	3672.26	3672.26
PO0710	160mm	m	7680.47	7680.47	7680.47	7680.47

Providing and Laying Ductile Iron K - 9 pipes

PO0065	80 mm	m	1134.98	1134.98	1124.14	1134.34
PO0066	100 mm	m	1317.64	1317.64	1305.03	1316.89
PO0067	150 mm	m	1921.79	1921.79	1903.43	1920.71
PO0068	200 mm	m	2642.10	2642.10	2616.80	2640.16
PO0069	250 mm	m	3510.19	3510.19	3476.57	3507.74
PO0070	300 mm	m	4437.05	4437.05	4394.57	4434.55
PO0071	350 mm	m	5560.57	5560.57	5507.30	5557.43
PO0072	400 mm	m	6624.88	6624.88	6561.50	6621.15
PO0073	450 mm	m	7817.13	7817.13	7742.35	7812.74
PO0074	500 mm	m	9161.03	9161.03	9073.37	9155.86
PO0075	600 mm	m	12556.98	12556.98	12436.75	12549.90

Providing and Laying Ductile Iron K - 7 pipes

PO0078	100 mm	m	1106.50	1117.16	1106.50	1116.54
PO0079	150 mm	m	1716.31	1732.84	1716.31	1731.87
PO0080	200 mm	m	2254.77	2276.51	2254.77	2275.22
PO0081	250 mm	m	2969.38	2998.02	2969.38	2996.33
PO0082	300 mm	m	3720.51	3756.39	3720.51	3754.28
PO0083	350 mm	m	4681.75	4726.93	4681.75	4702.82
PO0084	400 mm	m	5566.62	5620.24	5566.62	5617.09
PO0085	450 mm	m	6510.75	6573.47	6510.75	6569.78
PO0086	500 mm	m	7679.84	7753.82	7679.84	7749.47
PO0087	600 mm	m	10406.44	10506.76	10406.44	10500.85

Providing and Laying Double Flanged (Screwed or Welded) Centrifugally Spun Ductile Iron K-9 Pipes

PO0090	100 mm	m	2224.03	2245.52	2224.03	2243.90
PO0091	150 mm	m	3205.33	3236.32	3205.33	3234.26
PO0092	200 mm	m	4506.25	4549.86	4506.25	4546.44
PO0093	250 mm	m	5926.17	5983.52	5926.17	5987.75
PO0094	300 mm	m	7350.84	7421.94	7350.84	7417.49
PO0095	350 mm	m	9110.96	9199.05	9110.96	9193.14
PO0096	400 mm	m	10923.29	11028.87	10923.29	11022.51
PO0097	450 mm	m	14744.06	14886.49	14744.06	14877.53
PO0098	500 mm	m	17368.61	17536.03	17368.61	17525.60
PO0099	600 mm	m	22663.95	22881.97	22663.95	22868.41

Code	Description	Units	PL	GP	SJ	TH
Brass Fittings						
Providing & fixing brass stop cock						
PO0100	15mm	each	357.19	477.23	424.27	580.00
PO0101	20mm	each	491.35	572.42	483.18	588.17
PO0102	25mm	each	561.34	590.27	691.41	833.15
Providing & fixing brass full way valve with wheel						
PO0105	32mm	each	730.49	1585.46	1585.46	1517.91
PO0106	40mm	each	1115.45	2036.18	2036.18	2086.02
PO0107	50mm	each	1272.94	2602.69	2602.69	3014.59
PO0108	65mm	each	2502.48	4631.95	4631.95	5029.23
PO0109	80mm	each	3329.56	6637.91	6637.91	6905.04
Providing & fixing non-return valve						
PO0110	50mm	each	1386.09	2396.13	2321.55	2538.64
PO0111	65mm	each	3222.82	3965.24	4005.23	4492.61
PO0112	80mm	each	4385.29	6000.79	6313.60	6553.91
Providing & fixing brass bibcock						
PO0114	15mm, brass	each	357.19	532.18	331.53	427.19
H.D.P.E Fittings (Butt-Welded-Type)						
Providing & fixing H.D.P.E, Equal Tee butt-welded-type fittings						
PO0115	20mm	each	56.23	65.14	46.33	88.89
PO0116	25mm	each	73.66	90.88	61.56	119.22
PO0117	32mm	each	113.81	129.48	91.57	198.54
PO0118	50mm	each	211.37	206.69	240.42	412.02
PO0119	63mm	each	240.54	354.69	320.46	707.16
PO0120	90mm	each	357.19	502.67	448.66	907.81
PO0121	110mm	each	386.36	817.95	775.36	1072.29
PO0122	160mm	each	823.81	2542.34	3007.97	3238.57
Providing & fixing H.D.P.E Elbow						
PO0125	32mm	each	80.00	116.61	69.61	142.55
PO0126	50mm	each	160.20	190.57	138.14	326.86
PO0127	63mm	each	277.58	269.41	250.15	511.18
PO0128	90mm	each	211.37	394.82	385.78	687.33
PO0129	110mm	each	386.36	489.71	625.61	1330.10
Providing & fixing H.D.P.E Reducer						
PO0130	90 x 50mm	each	310.65	297.52	300.33	298.87
PO0131	90 x 63mm	each	310.65	301.06	307.66	298.87
PO0132	110 x 63mm	each	357.19	330.80	307.66	357.19
PO0133	110 x 90mm	each	796.12	781.78	871.88	765.49

Code	Description	Units	PL	GP	SJ	TH
Providing & fixing H.D.P.E Blank End (Cap)						
PO0140	50mm	each	189.28	144.54	149.38	182.21
PO0141	63mm	each	223.55	184.18	190.42	217.21
PO0142	90mm	each	335.58	351.20	363.35	409.69
PO0143	110mm	each	467.89	403.58	417.57	549.67
PO0144	160mm	each	790.17	686.69	710.67	940.47

Providing and fixing push on joints to Centrifugally Spun D.I pipes including the cost of rubber gaskets

PO0150	80 mm	each	88.90	82.57	82.57	79.26
PO0151	100 mm	each	104.49	97.26	97.26	93.48
PO0152	150 mm	each	158.65	147.58	147.58	142.27
PO0153	200 mm	each	246.35	235.05	235.05	226.20
PO0154	250 mm	each	277.54	291.88	291.88	280.96
PO0155	300 mm	each	429.14	399.34	399.34	383.69
PO0156	350 mm	each	478.18	443.68	443.68	425.97
PO0157	400 mm	each	577.10	638.93	638.93	613.43
PO0158	450 mm	each	672.46	679.78	679.78	652.92
PO0159	500 mm	each	910.25	904.85	904.85	867.54
PO0160	600 mm	each	1217.93	1210.43	1210.43	1160.85

Soil Waste Pipework**Providing lead-caulked joints to C.I pipes and fittings**

PO0162	50mm dia pipe	each	144.44	152.26	158.19	140.48
PO0163	75mm dia pipe	each	175.17	184.10	190.88	170.64
PO0164	100mm dia pipe	each	205.63	215.57	223.12	200.59
PO0165	150mm dia pipe	each	314.48	332.34	345.89	305.42

Providing & fixing C.I Soil Waste and Vent pipes

PO0166	50mm dia	m	390.00	402.37	453.02	627.77
PO0167	75mm dia	m	571.13	617.14	551.21	1009.18
PO0168	100mm dia	m	659.77	687.64	815.11	1352.56
PO0169	150mm dia	m	877.79	887.08	929.91	1072.60

Waste Fittings & Accessories**Providing & fixing C.I door bend including fittings**

PO0170	50mm dia	each	262.10	270.73	275.71	234.71
PO0171	75mm dia	each	262.10	295.00	321.67	351.36
PO0172	100mm dia	each	262.10	344.80	402.66	646.50

Providing & fixing C.I plain bend including fittings

PO0180	50mm dia	each	201.42	163.90	209.51	258.04
PO0181	75mm dia	each	214.39	187.70	221.41	468.02
PO0182	100mm dia	each	220.34	247.19	271.98	882.14

Code	Description	Units	PL	GP	SJ	TH
Providing & fixing C.I heel rest bend						
PO0190	50mm	each	162.58	165.33	193.52	156.55
PO0191	75mm	each	277.15	276.71	301.37	312.86
PO0192	100mm	each	263.39	337.91	423.92	395.69
Providing & fixing C.I double equal door junction including fittings						
PO0200	100mm	each	545.01	509.11	602.39	524.01
PO0201	75mm	each	416.94	354.69	341.81	400.36
PO0202	50mm	each	327.09	296.77	290.34	314.03
Providing & fixing C.I double equal plain junction including fittings						
PO0210	100mm	each	700.48	637.79	721.43	673.33
PO0211	75mm	each	469.82	322.51	341.81	451.68
PO0212	50mm	each	376.79	271.04	290.34	361.86
Providing & fixing C.I single equal door junction including fittings						
PO0220	150mm	each	408.66	453.43	443.52	392.19
PO0221	100mm	each	408.66	453.43	443.52	392.19
PO0222	75mm	each	282.50	280.04	301.37	270.87
PO0223	50mm	each	223.87	234.35	240.09	214.87
Providing & fixing C.I single equal plain junction including fittings						
PO0230	100mm	each	555.20	485.20	598.84	533.34
PO0231	75mm	each	408.66	381.03	427.59	392.19
PO0232	50mm	each	274.84	270.73	349.89	263.87
Providing & fixing C.I double unequal door junction including fittings						
PO0240	100x75mm	each	478.74	466.82	509.11	459.85
PO0241	100x50mm	each	421.40	409.22	444.76	405.02
Providing & fixing C.I double unequal plain junction						
PO0250	100x75mm	each	466.00	453.34	483.37	448.18
PO0251	100x50mm	each	402.28	405.54	425.46	386.36
Providing & fixing C.I single unequal door junction						
PO0260	100x75mm	each	474.92	491.08	499.45	456.35
PO0261	100x50mm	each	446.89	451.20	470.50	312.86
PO0262	75x50mm	each	294.60	303.85	316.07	282.53
Providing & fixing C.I single unequal plain junction						
PO0270	100x75mm	each	415.02	426.74	426.38	399.19
PO0271	100x50mm	each	357.68	373.99	379.80	343.19
PO0272	75x50mm	each	274.84	289.05	289.11	263.87

Code	Description	Units	PL	GP	SJ	TH
Providing & fixing C.I double equal Y-Junction						
PO0280	100mm	each	700.48	631.36	453.77	673.33
PO0281	75mm	each	524.62	419.02	363.62	504.18
PO0282	50mm	each	376.79	341.81	256.84	361.86
Providing & fixing C.I single equal Y-Junction						
PO0290	100mm	each	657.15	621.24	586.32	631.33
PO0291	75mm	each	474.92	447.21	316.07	456.35
PO0292	50mm	each	249.36	209.45	277.47	239.37
Providing & fixing single unequal plain inverted branch						
PO0300	100x50mm	each	480.56	501.39	518.12	469.18
PO0301	75x50mm	each	354.34	367.55	384.28	340.86
Providing & fixing S.C.I offsets - 100mm Offsets						
PO0310	75mm projection	each	328.85	338.13	334.45	316.36
PO0311	150mm projection	each	480.56	483.98	512.93	462.18
Providing & fixing S.C.I offsets - 75mm offset						
PO0320	75mm projection	each	328.85	338.13	334.45	316.36
PO0321	150mm projection	each	462.36	463.14	411.79	444.68
Providing & fixing S.C.I offsets - 50 mm offset						
PO0330	75mm projection	each	355.55	313.62	290.34	342.03
PO0331	150mm projection	each	489.06	498.68	515.53	470.35
Providing & fixing C.I terminal guard						
PO0340	150mm	each	695.38	702.13	626.95	668.66
PO0341	100mm	each	395.91	393.29	392.55	380.52
PO0342	75mm	each	262.10	280.04	319.98	252.20
PO0343	50mm	each	160.15	168.09	232.00	154.21
Providing & fixing C.I collar						
PO0350	100mm	each	282.73	399.72	421.40	272.04
PO0351	75mm	each	211.13	251.74	249.36	203.21
PO0352	50mm	each	157.72	200.26	211.13	151.88
Providing & fixing C.I P-Type Nahani trap						
PO0360	100mm inlet & 75mm outlet	each	538.07	620.07	512.22	629.81
PO0361	100mm inlet & 50mm outlet	each	357.17	449.75	458.68	397.67

Code	Description	Units	PL	GP	SJ	TH
Providing & fixing P.V.C soil waste and vent pipes, single or double socketed, including pipe clip complete (excluding the cost of PVC fittings)						
PO0370	75mm dia	m	180.96	192.97	131.87	235.62
PO0371	90mm dia	m	260.92	282.58	160.61	330.82
PO0372	110mm dia	m	321.29	290.57	197.72	394.02
Providing & fixing P.V.C Pipe connector						
PO0380	110mm dia	each	197.61	100.55	130.19	123.88
Providing & fixing P.V.C Coupler						
PO0385	75mm dia	each	64.39	77.22	84.70	84.61
PO0386	90mm dia	each	79.55	109.32	103.27	109.88
PO0387	110mm dia	each	92.39	100.55	112.97	122.72
Providing & fixing P.V.C Reducer						
PO0395	90x75mm	each	128.19	161.91	103.32	125.83
PO0396	110x75mm	each	138.12	147.21	141.64	140.60
PO0397	110x90mm	each	165.01	197.61	147.59	168.60
Providing & fixing P.V.C plain bend						
PO0405	75mm dia	each	73.72	100.55	95.29	94.72
PO0406	90mm dia	each	105.22	150.01	119.33	133.60
PO0407	110mm dia	each	112.22	147.21	143.76	142.55
Providing & fixing P.V.C door bend						
PO0415	75mm dia	each	104.05	112.22	101.84	133.99
PO0416	90mm dia	each	139.05	161.91	126.71	175.60
PO0417	110mm dia	each	149.55	170.55	152.79	187.65
Providing & fixing P.V.C Long arm bend with door						
PO0425	75mm dia	each	213.55	225.69	233.03	123.88
PO0426	90mm dia	each	310.65	322.78	338.02	182.21
PO0427	110mm dia	each	419.88	419.88	430.89	205.54
Providing & fixing P.V.C Single Tee plain						
PO0435	75mm dia	each	92.39	129.19	98.74	116.88
PO0436	90mm dia	each	142.55	167.86	135.20	158.88
PO0437	110mm dia	each	157.71	184.22	176.38	198.93
Providing & fixing P.V.C Single Tee with door						
PO0445	75mm dia	each	109.88	145.55	113.38	139.83
PO0446	90mm dia	each	155.38	191.66	160.51	196.99
PO0447	110mm dia	each	178.71	213.47	186.94	228.10

Code	Description	Units	PL	GP	SJ	TH
Providing & fixing P.V.C Double Tee plain						
PO0455	75mm dia	each	178.71	214.59	187.29	228.10
PO0456	90mm dia	each	251.04	262.10	255.24	319.09
PO0457	110mm dia	each	350.19	337.30	328.90	440.80
Providing & fixing P.V.C Double Tee with door						
PO0465	75mm dia	each	260.37	358.54	199.66	313.64
PO0466	90mm dia	each	332.70	450.22	239.52	415.91
PO0467	110mm dia	each	386.36	467.30	345.21	488.62
Providing & fixing P.V.C Single Y, plain						
PO0475	75mm dia	each	116.88	182.74	131.12	148.77
PO0476	90mm dia	each	169.38	358.24	184.31	211.76
PO0477	110mm dia	each	216.04	374.90	249.05	277.09
Providing & fixing P.V.C Single Y, with door						
PO0485	75mm dia	each	268.54	419.02	347.20	348.87
PO0486	90mm dia	each	212.54	328.50	250.24	272.04
PO0487	110mm dia	each	274.37	286.85	315.07	347.08
Providing & fixing P.V.C Double Y, plain						
PO0495	75mm dia	each	178.71	249.67	161.06	231.98
PO0496	90mm dia	each	242.87	304.70	226.51	315.98
PO0497	110mm dia	each	293.03	304.70	271.86	381.69
Providing & fixing P.V.C Double Y, with door						
PO0505	75mm dia	each	252.20	303.51	193.89	328.03
PO0506	90mm dia	each	324.53	407.03	235.67	373.14
PO0507	110mm dia	each	350.19	441.53	304.76	462.18
Providing & fixing P.V.C Offset, 75mm dia						
PO0515	With 75mm projection	each	304.70	249.96	280.90	344.36
PO0516	With 150mm projection	each	351.36	359.20	346.34	351.36
Providing & fixing P.V.C Offset, 90mm dia						
PO0525	With 75mm projection	each	444.68	407.74	364.19	444.68
PO0526	With 150mm projection	each	546.17	504.84	542.67	546.17
Providing & fixing P.V.C Offset, 110mm dia						
PO0535	With 75mm projection	each	549.67	456.29	423.69	549.67
PO0536	With 150mm projection	each	631.33	510.91	530.78	631.33

Code	Description	Units	PL	GP	SJ	TH
Providing & fixing P.V.C Terminal guard						
PO0545	75mm dia	each	104.32	116.46	117.53	100.55
PO0546	90mm dia	each	116.46	134.66	129.79	112.22
PO0547	110mm dia	each	122.53	140.73	142.04	118.05
Providing & fixing P.V.C P-Trap, without air vent						
PO0555	Big	each	345.53	510.91	509.72	341.64
PO0556	Small	each	364.19	456.29	436.18	291.87
Providing & fixing P.V.C Nahani Trap						
PO0565	110mm inlet & 75mm outlet	each	229.34	263.05	307.13	254.15
Painting G.I Pipes & Fittings						
Painting G.I pipes and fittings including primer & white coat, for new work						
PO0570	15mm dia pipe	m	4.61	5.07	4.63	5.16
PO0571	20mm dia pipe	m	6.18	6.80	6.20	6.92
PO0572	25mm dia pipe	m	7.66	8.42	7.69	8.57
PO0573	32mm dia pipe	m	9.82	10.79	9.85	10.98
Painting C.I spun soil waste vent pipes & fittings including primer, top coat (any colour), for new work						
PO0580	50mm	m	16.03	17.04	16.01	17.94
PO0581	75mm	m	8.12	8.07	9.93	14.76
PO0582	100mm	m	32.06	34.07	32.02	35.88
Repainting C.I spun soil waste vent pipes & fittings including paints of any colour						
PO0590	50mm	m	7.90	8.44	7.72	8.73
PO0591	75mm	m	11.85	12.66	11.58	13.10
PO0592	100mm	m	15.80	16.89	15.44	17.47
Soak - pits & Septic Tanks						
Constructing Soak Pit						
PO0600	Size 1200x1200x1200mm, filled with brick bats including 100mm SW drain pipe X 1200mm long	each	5587.50	5421.54	5559.66	6441.08
PO0601	Size 2500 dia. x 3000mm depth including 450x450mm dry brick honeycomb shaft and SW drain pipe X 1800mm long	each	40951.19	39773.21	41067.76	46387.42

Code	Description	Units	PL	GP	SJ	TH
Constructing Septic Tanks, in R.R Masonry in cement mortar 1:6, including fittings, C.I cover with frame, 40mm thick concrete flooring (40mm aggregates) cement plaster concrete base in C.C 1:4:8 etc. complete as per standard design						
PO0610	15 users	each	30560.72	30826.64	33235.82	35834.27
PO0611	25 users	each	36943.58	37439.26	39953.80	43143.50
PO0612	50 users	each	52324.51	53215.08	56147.48	60686.90
PO0613	75 users	each	60488.86	61749.30	64717.41	69999.21
PO0614	100 users	each	72432.21	74009.73	77264.57	83547.65
Constructing Septic Tanks, in 2nd class brick masonry in cement mortar 1:4, including fittings, C.I cover with frame, 40mm thick concrete flooring (40mm aggregates) cement plaster concrete base in C.C 1:4:8 etc. complete as per standard design						
PO0620	15 users	each	32780.16	32055.99	33854.29	41176.28
PO0621	25 users	each	40063.86	39265.80	40688.46	51049.02
PO0622	50 users	each	52416.05	51353.54	52884.63	67855.00
PO0623	75 users	each	63133.30	61827.74	63307.11	82217.44
PO0624	100 users	each	75673.44	74169.74	75300.23	96475.39
Constructing Septic Tanks, in reinforced concrete 1:2:4 (20mm aggregates) including fittings, C.I cover with frame, 40mm thick concrete flooring (40mm aggregates) cement plaster concrete base in C.C 1:4:8 etc. complete as per standard design						
PO0630	15 users	each	34846.83	34500.01	36891.40	38965.14
PO0631	25 users	each	44633.53	44360.97	46691.94	49847.14
PO0632	50 users	each	63376.61	63096.37	65816.05	69962.26
PO0633	75 users	each	78487.84	78196.28	81261.47	86150.34
PO0634	100 users	each	96730.48	96293.32	99852.96	104682.61

Code	Description	Units	PL	GP	SJ	TH
Chapter 18: PLASTERING						
Mud Plaster						
Providing & laying mud plaster including neat finish						
PL0001	15mm	sq.m	88.49	88.45	88.55	88.52
PL0002	20mm	sq.m	93.80	93.75	93.88	93.84
Cement Plaster						
Providing & laying 6mm cement plaster (in ceilings)						
PL0010	C.M 1:3	sq.m	96.32	99.00	100.98	106.24
PL0011	C.M 1:4	sq.m	90.00	92.00	94.06	98.31
PL0012	Extra for plaster to ceiling height > 5mper additional metre. ht	sq.m	2.17	2.17	2.17	2.17
Providing & laying 12mm cement plaster						
PL0020	C.M 1:3	sq.m	133.98	139.35	143.31	153.83
PL0021	C.M 1:4	sq.m	121.25	125.25	129.38	137.86
PL0022	C.M 1:5	sq.m	114.37	117.64	121.85	129.23
PL0023	C.M 1:6	sq.m	108.52	111.15	115.44	121.88
Providing & laying 15mm cement plaster on rough side of single or half-brick wall						
PL0030	C.M 1:3	sq.m	157.69	164.11	168.84	181.40
PL0031	C.M 1:4	sq.m	142.51	147.29	152.22	162.35
PL0032	C.M 1:5	sq.m	134.27	138.17	143.20	152.02
PL0033	C.M 1:6	sq.m	127.26	130.40	135.53	143.22
Providing & laying 20mm cement plaster						
PL0040	C.M 1:3	sq.m	194.71	203.07	209.23	225.60
PL0041	C.M 1:4	sq.m	174.90	181.13	187.55	200.74
PL0042	C.M 1:5	sq.m	164.21	169.29	175.84	187.32
PL0043	C.M 1:6	sq.m	155.09	159.19	165.86	175.88
Providing & laying 12mm plain cement mortar band in C.M 1:4						
PL0050	Flush band	sq.m	270.64	274.53	278.54	286.78
PL0051	Sunk band	sq.m	293.80	297.69	301.71	309.95
PL0052	Raised band	sq.m	332.09	335.99	340.00	348.24
Providing & laying 20mm plain cement mortar band in C.M 1:4						
PL0060	Flush band	sq.m	335.34	340.90	346.63	358.41
PL0061	Sunk band	sq.m	362.59	368.15	373.88	385.66
PL0062	Raised band	sq.m	408.92	414.49	420.22	431.99

Code	Description	Units	PL	GP	SJ	TH
Providing & laying cement plaster, finished with floating coat of neat cement						
PL0070	12mm plaster in C.M 1:3	sq.m	168.58	175.57	179.34	192.25
PL0071	15mm plaster in C.M 1:3	sq.m	192.29	200.32	204.86	219.83
PL0072	20mm plaster in C.M 1:3	sq.m	229.31	239.28	245.26	264.02
PL0073	12mm plaster in C.M 1:4	sq.m	155.85	161.47	165.40	176.28
PL0074	15mm plaster in C.M 1:4	sq.m	177.11	183.51	188.24	200.77
PL0075	20mm plaster in C.M 1:4	sq.m	209.50	217.34	223.57	239.16
PL0076	6mm cement plaster in C.M 1:3, including lime wash on top of wall when dry for bearing R.C slabs and beams	sq.m	137.74	142.98	145.76	153.76
Rough cast plaster with a mixture of sand and gravel or crushed stone 2-12mm including plaster in 2 layers-12mm 1:4, & 10mm 1:3 hydrated lime cement						
PL0080	Grey cement	sq.m	313.50	329.67	348.56	368.23
PL0081	White cement	sq.m	474.75	515.19	527.04	576.46
Pebble dash plaster with a mixture of washed pebble or crushed stone 6mm to 12mm nominal size dashed over fresh plaster in the layers, under layer 12mm cement plaster 1:4 and top layer 10mm cement plaster mixed with finally ground hydrated lime by volume of cement						
PL0090	Grey cement	sq.m	311.57	327.75	346.64	366.31
Cement Plaster in 2 coats						
PL0091	18 mm cement plaster in two coats; under layer 12 mm C.P 1:5 (1 cement : 5 sand) and top layer 6 mm thick C.P 1:4 (1 cement : 6 sand) finished even and smooth and curing etc. complete	sq.m	107.20	107.27	107.34	107.48
PL0092	18 mm cement plaster in two coats; under layer 12 mm C.P 1:5 (1 cement : 5 sand) and top layer 6 mm thick C.P 1:3 (1 cement : 6 sand) finished even and smooth and curing etc. complete	sq.m	107.17	107.22	107.30	107.43
Cement Lime Plaster						
PL0095	12 mm cement lime plaster of mix on fair side of brick work - 1:1:6 (1 cement :1 lime : 6 sand) finished even and smooth and curing etc. complete	sq.m	166.57	206.54	191.39	215.37
PL0096	12 mm cement lime plaster of mix on rough side of brick work - 1:1:6 (1 cement :1 lime : 6 sand) finished even and smooth and curing etc. complete	sq.m	154.44	202.18	184.08	212.72
Extra for providing and mixing water-proofing materials in proportion recommended by the manufacturers						
PL0100	12mm plaster in C.M 1:3	sq.m	21.81	19.18	25.16	25.16
PL0101	12mm plaster in C.M 1:4	sq.m	17.55	15.51	20.16	20.16
PL0102	15mm plaster in C.M 1:3	sq.m	23.94	21.01	27.66	27.66
PL0103	15mm plaster in C.M 1:4	sq.m	19.75	17.40	22.74	22.74
PL0104	20mm plaster in C.M 1:3	sq.m	29.08	25.44	33.70	33.70
PL0105	20mm plaster in C.M 1:4	sq.m	23.49	20.63	27.13	27.13

Code	Description	Units	PL	GP	SJ	TH
Extra for cement plastering						
PL0110	Neat cement punning	sq.m	34.61	36.22	36.02	38.42
Plaster of Paris						
Providing & fixing 12mm Plaster of Paris (gypsum anhydrous) tiles, rendered smooth with Plaster of Paris						
PL0120	Height above floor < 5m	sq.m	711.24	785.95	790.74	1142.61
PL0121	Extra for heights-above-floor > 5m.....per metre height	sq.m	42.54	42.54	42.54	42.54
Putty finishes						
PL0125	Providing & applying putty of thickness 2mm or more over plastered surface to prepare the surface even and smooth complete.	sq.m	141.16	181.41	181.41	294.10

Code	Description	Units	PL	GP	SJ	TH
Chapter 19: PAINTING & WALL PAPER						
Surface Preparation						
Surface preparation removing by scraping, sand papering, including scratch repairs						
PT0001	White colour-wash	sq.m	5.79	5.79	5.79	5.79
PT0002	Dry oil bound distemper	sq.m	7.15	7.15	7.15	7.15
Painting Items						
Providing & applying one coat of primers						
PT0010	Cement primer	sq.m	28.85	32.44	29.10	31.64
PT0011	Metal work - synthetic red oxide primer	sq.m	24.10	28.74	26.15	27.96
PT0012	Wood work - pink primer	sq.m	31.60	33.56	32.75	31.97
PT0013	Wood work - white primer	sq.m	25.99	29.11	27.89	29.37
PT0014	Red lead primer	sq.m	26.11	27.33	27.69	30.24
Providing & applying white or colour washing						
PT0020	White washing with lime-new work-three coats	sq.m	18.50	25.38	21.80	25.03
PT0021	White washing with lime, old work, two coats	sq.m	11.01	15.59	13.20	15.36
PT0022	White washing with lime, old work, one coat	sq.m	6.36	8.65	7.45	8.53
PT0023	Colour washing\new work, two coats, including base coat of white-wash with lime	sq.m	18.50	25.38	21.80	25.03
PT0024	Colour washing with lime, old work, two coats	sq.m	11.01	15.59	13.20	15.36
PT0025	Colour washing with lime, old work, one coat	sq.m	6.36	8.65	7.45	8.53
Finishing wall with Water-Proof Cement Paint						
PT0030	New work, three coats	sq.m	64.12	58.47	71.49	87.09
PT0031	Old work, one coats	sq.m	30.47	28.20	33.43	39.71
Providing and applying finishing coats						
PT0040	Dry distemper, two coats on new work, including white priming coat	sq.m	50.41	51.16	53.53	58.89
PT0041	Dry distemper, one coat on old work	sq.m	18.42	20.71	19.52	20.60
PT0042	Acrylic washable distemper, two coats on new work, including cement primer coat	sq.m	67.35	76.72	69.35	76.52
PT0043	Acrylic washable distemper, one coat on old work	sq.m	22.50	26.36	23.67	26.76
PT0044	Bituminastic enamel, for steel work, two coats on new work	sq.m	65.86	64.46	71.84	89.38
PT0045	Bituminastic enamel, for steel work, one coat on old work	sq.m	42.01	41.17	45.60	56.12
PT0046	Synthetic enamel, for steel & wood work\one coat on old work	sq.m	41.79	48.96	45.27	46.82
PT0047	Synthetic enamel, for steel & wood work, two coats on new work	sq.m	65.79	77.75	71.59	74.18
PT0048	High gloss synthetic enamel\for steel & wood work, two coats on new work	sq.m	74.06	79.15	72.37	81.88

Code	Description	Units	PL	GP	SJ	TH
PT0049	High gloss synthetic enamel, for steel & wood work\one coat on old work	sq.m	49.37	52.77	48.24	54.58
PT0050	Red corrugal, ready mixed\on G.I. sheets, two coats on new work	sq.m	56.39	60.93	58.47	59.63
PT0051	Red corrugal, ready mixed, on G.I. sheets\one coat on old work	sq.m	35.93	38.53	37.12	37.79
PT0052	Vinyl plastic emulsion paint, for cement, masonry, plaster, two coats on new work	sq.m	80.36	79.93	80.76	118.39
PT0053	Acrylic emulsion, one coat	sq.m	41.25	40.94	43.21	56.08
PT0054	Aluminium paint, one coat on old work	sq.m	38.28	41.56	40.33	43.88
PT0055	Aluminium paint, two coats on new work	sq.m	61.06	66.65	64.55	70.60

Providing and applying wood stains, varnishes & polishes

PT0060	Wood stain (various colours), one coat	sq.m	67.83	64.27	73.06	80.25
PT0061	Synthetic varnish (clear) - one coat, on old work	sq.m	86.55	88.03	82.65	91.80
PT0062	Synthetic varnish (clear) - two coats, including coat of wood filler on new work	sq.m	155.36	157.78	149.00	163.92
PT0063	French polish - one coat, on old work	sq.m	89.37	87.19	85.38	99.97
PT0064	French polish - two coats, on new work	sq.m	159.96	156.41	153.46	177.23

Wood Preservatives**Providing and applying wood preservatives**

PT0070	Brown, two coats on new work	sq.m	40.22	37.37	29.28	55.60
PT0071	Brown, one coat on old work	sq.m	31.75	29.45	22.89	44.21
PT0072	Coal tar, two coats on new work	sq.m	57.46	46.42	46.15	54.68
PT0073	Coal tar, one coat on old work	sq.m	30.22	25.46	25.34	28.89

Wall Paper**Providing & fixing wall paper**

PT0080	Standard Quality	sq.m	420.63	424.50	414.26	416.68
PT0081	High Quality	sq.m	567.18	572.49	554.44	556.56

Traditional Painting**Providing, preparing and applying Sumdang painting (Not washable)**

PT0090	Rab	sq.m	569.58	586.60	585.78	602.50
PT0091	Ding	sq.m	398.71	413.84	414.57	422.07
PT0092	Thamar	sq.m	287.44	302.57	303.29	310.80

Providing, preparing and applying Dangtshon painting (Not washable)

PT0100	Rab	sq.m	792.13	809.15	808.32	825.05
PT0101	Ding	sq.m	584.17	599.30	600.02	607.53
PT0102	Thamar	sq.m	398.71	413.84	414.57	422.07

Code	Description	Units	PL	GP	SJ	TH
Providing, preparing and applying Sumdang washable painting						
PT0110	Rab	sq.m	641.68	650.23	650.76	663.18
PT0111	Ding	sq.m	481.93	488.59	490.68	493.88
PT0112	Thamar	sq.m	359.53	366.19	368.28	371.48
Providing, preparing and applying Dangtshon washable painting						
PT0120	Rab	sq.m	816.01	824.56	825.09	837.51
PT0121	Ding	sq.m	619.06	625.64	627.69	630.87
PT0122	Thamar	sq.m	448.44	455.02	457.07	460.25
Providing, preparing and applying Yutshon painting (plain)						
PT0130	Washable	sq.m	162.79	169.36	171.40	174.46
PT0131	Not Washable	sq.m	136.15	138.88	142.90	145.13
Providing, preparing and applying flower natural painting for wall decoration design such as Tashitagey symbols, Tashi Zeegay, Za-Tshering, etc.						
PT0140	Dangtshon - Rab	sq.m	105.96	115.14	123.46	178.18
PT0141	Sumdang - Rab	sq.m	100.40	109.58	117.90	172.61

Code	Description	Units	PL	GP	SJ	TH
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Chapter 20: ADDITIONS, ALTERATIONS & REPAIRS**Repair to Plasters**

Repair to plaster including cutting to shape, surface preparation, proving and applying cement plaster to the surface, disposal rubbish within 50m lead

AA0001	Patch area <2.5sq.m	sq.m	187.03	192.03	197.19	207.79
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Glass Panes

Providing & fixing glass panes with putty, nails including remaining. broken glass panes

AA0005	3mm thick plain	sq.m	747.64	772.83	777.25	749.63
AA0006	4mm thick plain	sq.m	800.45	784.88	875.42	887.70
AA0007	5.5mm thick plain	sq.m	987.94	1033.16	1133.15	1094.81
AA0008	3mm thick frosted	sq.m	780.64	748.08	856.81	1163.85
AA0009	5.5mm thick frosted	sq.m	1110.93	1006.46	1185.23	1301.92

Cutting Walls

AA0015	Cutting holes < 300x300mm in brick walls including repair wall	each	234.48	230.81	226.62	283.30
AA0016	Cutting holes < 150x150mm in R.C floors or roof including making leak proofing with concrete 1:2:4, 20mm aggregates	each	137.46	137.66	138.47	139.24
AA0017	Making chases < 75x75mm in walls including repair after fixing G.I pipe etc.	m	69.57	69.60	71.11	72.03

Aluminium Strip Edging

Providing & fixing Aluminium strip edging to staircases including rawl plugs and screws, a thin layer of cement mortar 1:3

AA0025	57mm x 12mm x 3mm	m	525.43	516.68	512.68	558.76
AA0026	38mm x 12mm x 3mm	m	193.86	171.34	170.27	295.87

Code	Description	Units	PL	GP	SJ	TH
Chapter 21: ROAD WORKS						
Contractor Work/Labour camp						
RW0001	Installation of labour camps, including water supply, pit latrines, solid waste disposal etc. according to Environment Code of Practice	item	Lumpsum			
RW0002	Restoration of labour camps: Restoration of camp sites including disposal of wreckage, rubbish, restoration of site using bioengineering, enclosure of temporary access according to Environment Code of Practice	item	Lumpsum			
Excavation						
Earthwork in excavation over areas, exceeding 300mm in depth, 1.5 m in width as well as 10 sq.m on plan including disposal of excavated earth (disposed earth to be levelled and neatly dressed)						
RW0006	Ordinary Soil	cu.m	116.87	116.87	116.87	116.87
RW0007	Hard Soil	cu.m	151.16	151.16	151.16	151.16
RW0008	Ordinary Rock with or without blasting	cu.m	469.01	469.08	469.08	469.08
RW0009	Hard rock requiring blasting	cu.m	646.08	646.23	646.23	646.23
RW0010	Hard rock requiring chiselling (where blasting is prohibited)	cu.m	987.83	987.83	987.83	987.83
Excavation of road formation/trace/box cutting, with bull-dozer including separate deposition of soil, rocks and stones within 50m for reuse						
RW0011	All types of soil	cu.m	80.01	80.01	80.01	80.01
RW0012	All types of rock	cu.m	107.71	107.71	107.71	107.71
Excavation of road formation/trace/box cutting, with excavator including separate deposition of soil, rocks and stones within 50m for reuse						
RW0013	All types of soil	cu.m	65.91	65.91	65.91	65.91
RW0014	All types of rock	cu.m	235.93	236.10	236.10	236.10
Earthwork in Excavation in foundation trenches or drains including dressing of sides and ramming of bottom, disposal of surplus excavated soil within 50m lead						
RW0015	Ordinary Soil	cu.m	124.67	124.67	124.67	124.67
RW0016	Hard Soil	cu.m	159.77	159.77	159.77	159.77
RW0017	Ordinary Rock with or without blasting	cu.m	503.92	504.06	504.06	504.06
RW0018	Hard rock requiring blasting	cu.m	732.99	733.26	733.26	733.26
Transportation of Loose Soils						
Transport of loose spoil materials in designated locations including loading/unloading, dressing of dump sites and plantation of vegetation after completion of dumping						
RW0019	Beyond 50 up to 200 m	cu.m	Analyse as per procedure in LMC-2017			
RW0020	Beyond 200 up to 500 m	cu.m				
RW0021	Beyond 500 up to 1000 m	cu.m				

Code	Description	Units	PL	GP	SJ	TH
Embankments						
RW0030	Construction of embankment by providing and laying dry earth in horizontal layers not exceeding 200mm in depth(compact), including watering,power rooling,dressing and preparation of site with selected excavated earth within 50mm lead	cu.m		122.96	122.96	122.96
Filling of Trenches						
RW0035	Filling of trenches, sides of foundations, walls, etc including filter material (600mm wide) with 100 to 200mm stones wherever applicable including filling with selected suitable excavated material in layer not exceeding 200mm in depth (compact), consolidating each layer with power roller or portable compactor, watering etc. within 50m lead	cu.m		80.29	80.29	80.29
Quarries						
RW0040	Opening, running and restoration of quarries according to environmental code of practice and as per technical specifications	item		Lumpsum		
RW0041	Opening, running and restoration of sand quarries according to environmental code of practice for Highways and Roads, and as per the technical specification	item		Lumpsum		
Supply and Stacking						
Supplying/collection and stacking of stone aggregate						
RW0044	100mm	cu.m		1212.01	1116.76	1168.58
RW0045	75 mm	cu.m		1157.67	1062.42	1162.17
RW0046	50 mm	cu.m		1171.25	1076.00	1215.28
RW0047	63 - 40 mm	cu.m		1187.06	1072.98	1216.03
RW0048	20 mm	cu.m		1356.95	1195.15	1487.78
RW0049	12 - 6 mm	cu.m		1329.38	1227.17	1449.03
RW0050	50 - 20 mm	cu.m		1261.02	1122.23	1313.04
Supplying/collection and stacking at site						
RW0055	Blinding materials	cu.m		261.26	259.30	264.32
RW0056	Gravel/Coarse sand	cu.m		584.27	584.28	585.00
RW0057	Boulder	cu.m		312.62	312.52	313.24

Code	Description	Units	PL	GP	SJ	TH
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Gabion Walls

Construction of gabion wall as per drawings with dry stone masonry (hammer dressed facing) including excavation of foundation in all types of soils , sides and backfilling, delivery of machine woven gabion mesh (Hexagonal mesh of size 100mm x 120mm with a minimum of 3 twists) with GI wire 2.70mm dia, fixing of selvedged wire 3.4 mm dia, binding/lacing wire 2.40 mm dia complete

RW0065	Height up to 1.0m	m	3386.82	3923.96	3523.76	4205.56
RW0066	Height up to 2.0m	m	6785.74	7875.43	7063.75	8444.22
RW0067	Height up to 3.0m	m	12001.85	13955.06	12500.77	14967.19
RW0068	Height up to 4.0m	m	18712.23	21739.72	19485.04	23315.06
RW0069	Height up to 5.0m	m	29962.66	34541.59	31124.42	37012.59
RW0070	Height up to 6.0m	m	37394.35	43457.03	38942.03	46610.50
RW0071	Height up to 7.0m	m	49306.39	57306.87	51348.87	61466.88
RW0072	Height up to 8.0m	m	62470.48	72542.42	65040.07	77800.95
RW0073	Height up to 9.0m	m	77805.86	90375.86	81013.38	96930.91

Construction of gabion wall as per drawings with dry stone masonry (hammer dressed facing) including excavation of foundation in all types of soils , sides and backfilling, delivery of machine woven gabion mesh (Hexagonal mesh of size 90mm x 100mm with a minimum of 3 twists) with GI wire 3.25mm(10 swg) dia, fixing of selvedged wire 4.06mm (8 swg) dia, binding/lacing wire 2.64mm (12 swg) dia complete

RW0245	Height up to 1.0m	m	3750.78	4448.26	3930.69	4787.90
RW0246	Height up to 2.0m	m	7478.67	8873.62	7838.48	9552.91
RW0247	Height up to 3.0m	m	12888.13	15231.78	13491.67	16385.24
RW0248	Height up to 4.0m	m	20980.01	25006.52	22020.50	26943.50
RW0249	Height up to 5.0m	m	30095.08	35767.77	31559.20	38518.55
RW0250	Height up to 6.0m	m	40162.58	47444.75	42037.01	51039.66
RW0251	Height up to 7.0m	m	52774.55	62302.86	55226.39	67015.92
RW0252	Height up to 8.0m	m	67348.12	79568.82	70493.46	85605.17
RW0253	Height up to 9.0m	m	83877.75	99122.62	87801.99	106645.93

Providing and Construction Light timber crib walls

RW0075	With timber section of 100 to 150 mm diameter including excavation in all types of soil and back filling	sq.m	1110.16	1093.98	1139.19	1197.84
RW0076	With timber section of 250 to 300 mm diameter including excavation in all types of soil and back filling	sq.m	1022.07	1020.35	1013.16	1069.67

Barriers

RW0081	Providing and constructing boulder barrier, height not exceeding 1.5 m, max. inclination of 20 deg. to the road alignment and width not less than 900mm within 50m lead	m	1123.00	1225.88	1144.22	1342.37
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Code	Description	Units	PL	GP	SJ	TH
Drains						
Construction of French drain, including jungle clearance, earthwork in excavation, levelling of excavated earth to the sides, filling drain with 50-100 mm stones, complete as per design						
RW0095	Drain Size 0.6m X 1.0m	m	1058.84	997.17	1061.75	1141.23
RW0096	Drain Size 1.0m X 1.5m	m	2232.53	2087.16	2239.40	2426.75
RW0100	Construction of foundation drains of minimum size 200mm wide & 250 mm deep with stone fill of average size 50 - 100 mm as per drawing or as directed by the engineer including excavation and delivery of materials	m	249.89	245.48	250.10	255.79
Construction of V-shaped stone pitched drain including excavation, levelling and disposal of surplus earth within 50m						
RW0105	depth 300mm, width 600 mm	m	373.04	395.68	377.71	421.30
RW0106	depth 300 mm and width 450 mm	m	197.24	207.52	199.36	219.17
Construction of V-shaped earthen drain including excavation, levelling and disposal of surplus excavated earth within 50m						
RW0107	depth 500 mm and width 600 mm	m	23.97	23.97	23.97	23.97
RW0108	Construction of Lined V Shaped drain 600 X 300 with 50mm thick PCC 1:2:4, 150mm thick stone soling, RRM in CM 1:5 on sides, finished with 20mm thick 1:4 cement plaster including excavation, levelling and disposal of surplus earth within 50m	m	714.10	749.97	758.42	837.00
RW0120	Providing and laying Hammer dressed stone edging 150 x 250 mm with stones including excavation, refilling and disposal of surplus earth within 30 m lead	m	90.54	95.27	91.52	100.63
Subgrade						
Preparation of sub grade with proper camber by excavating earth to depth equal to pavement thickness, consolidation with roller, disposal of surplus earth up to 50m						
RW0121	All kinds of soil	cu.m	39.72	39.72	39.72	39.72
RW0122	Blasted Rock	cu.m	138.52	138.52	138.52	138.52
RW0123	Consolidation of sub-grade with roller, and making good the undulation with earth and re-rolling the sub grade	sq.m	7.88	7.88	7.88	7.88
RW0124	Extra for compaction of earth in embankments under suitable moisture conditions to give at least 95% of the proctor density	cu.m	17.38	17.38	17.38	17.38

Code	Description	Units	PL	GP	SJ	TH
Granular Sub-base						
RW0130	Providing and laying Granular sub-base course (GSB) to required degree of compaction with proper formation of cross fall using motor grader for laying and compacted to required density as per material gradation and aggregate quality specified	cu.m	1401.65	1415.81	1491.01	1574.26
Wet Mix Macadam						
RW0131	Providing and laying wet mix macadam graded aggregate base course to required degree of compaction with proper formation of cross fall by using well graded crushed aggregates premixed with OMC using suitable mixer, motor grader as per material gradation and a aggregates quality specified	cu.m	1844.50	1807.67	1961.31	1937.52
Dense Bituminous Macadam						
Providing and Laying Dense Bituminous Macadam (DBM) to required degree of compaction based on mixture design (job mix formula) approved by the supervising engineer including preparation of surface with road broom, application of prime coat @ 0.75 kg/sq.m by mechanized method using asphalt plant, paver, steel roller, tyre roller etc. complete						
RW0132	50 mm	sq.m	398.71	394.48	409.10	410.10
RW0133	60 mm	sq.m	460.63	455.55	473.10	474.29
RW0134	70 mm	sq.m	521.67	515.75	536.23	537.62
RW0135	80 mm	sq.m	583.08	576.32	599.71	601.31
Asphalt/Bituminous Concrete						
Providing and Laying Asphalt/Bituminous Concrete to required degree of compaction based on the job mixture design approved by the supervising engineer using asphalt plant, paver, steel roller, tyre roller etc. as per material gradation and aggregate quality specified						
RW0136	25 mm	sq.m	237.49	236.16	242.94	244.08
RW0137	30 mm	sq.m	272.40	270.80	278.93	280.31
RW0138	35 mm	sq.m	307.33	305.47	314.95	316.55
RW0139	40 mm	sq.m	341.59	339.46	350.30	352.13
Scarifying						
RW0145	Scarifying metalled (water bound) road surface disposal of rubbish up to 50m and consolidation of the aggregate received from scarifying	sq.m	34.97	34.97	34.97	34.97
Repair of Roads						
Cutting and repairing of roads, including supply of required quantities of aggregates complete						
RW0146	Water bound macadam road	sq.m	201.76	199.36	202.90	204.97

Code	Description	Units	PL	GP	SJ	TH
Wearing Course						
Laying wearing course including screening, sorting, spreading to template and consolidation (measurement of wearing course to be taken equal to the quantity of aggregate used, excluding blinding materials)- With stone aggregates and blinding materials						
RW0147	With stone aggregates and blinding materials	cu.m	750.71	750.71	750.71	750.71
U s i n g B i t u m e n E m u l s i o n						
Cutting & repairing bituminous road including supply of required quantity of aggregate & bitumen emulsion						
RW0150	Manually	sq.m	546.63	542.03	548.82	551.29
Cutting bituminous road along with W.B.M layer & soling and making good the same including supply of extra quantities of aggregate, grit & bitumen emulsion required complete						
RW0151	Manually	sq.m	1033.43	1014.28	1036.35	1043.26
Painting two coats with bitumen emulsion (coat 1 - 12 kg emulsion and 0.1 cu.m, 12 mm aggregates per 10 sq.m, coat 2 - 1.6 kg emulsion 0.06 cu.m, 10 mm aggregates per 10 sq.m) complete						
RW0152	Mechanized	sq.m	149.04	147.41	150.96	149.75
Repainting one coat with bitumen emulsion @ 2.3 kg of emulsion and 0.002 cu.m of 10 mm nominal size stone chips per sq.m of surface area complete						
RW0153	Mechanized	sq.m	108.48	108.27	108.72	108.57
Premix consolidated carpet surfacing including a tack coat @ 0.75 kg bitumen emulsion per sq.m of road surface						
RW0154	50mm thick with 6.0 cu.m of aggregate 10mm nominal size per 100 sq.m using 96 kg of emulsion of approved quality per cu.m of stone aggregate (Mechanized)	sq.m	311.48	303.21	312.74	315.73
RW0155	25 mm thick with 2.7 cu.m of stone aggregate, 10 mm nominal size per 100 sq.m using 149 kg of bitumen emulsion per cu.m of stone aggregate (Mechanized)	sq.m	235.17	232.11	238.76	236.50
RW0156	20 mm thick with 2.10 cu.m of stone aggregate, 10 mm nominal size per 100 sq.m using 147 kg of bitumen emulsion per cu.m of stone aggregate (Mechanized)	sq.m	192.67	190.21	195.54	193.73
Providing seal coat with bitumen emulsion						
RW0157	Using 1.3 kg of emulsion and 0.80 cu.m stone aggregate of 10mm per 10 sq.m of road surface complete	sq.m	75.28	74.46	76.24	75.64

Code	Description	Units	PL	GP	SJ	TH
Providing seal coat of premixed sand with bitumen emulsion						
RW0158	Using 5.3 kg of emulsion and 0.045 cu.m coarse sand per 10 sq.m of road surface complete	sq.m	42.43	42.43	43.77	44.51
Using Bitumen 80/100						
Cutting and repairing of roads, including supply of required quantities of aggregate, grit and bitumen						
RW0160	Bituminous road	sq.m	581.84	577.52	587.26	589.00
Cutting bituminous road and making good the same including supply of extra quantities of aggregate, grit & bitumen required complete						
RW0161	Bituminous road along with W.B.M layer & soling (mechanized)	sq.m	1026.30	1008.32	1030.81	1039.35
Painting two coats of bitumen 80\100 (coat 1 - 2 kg of bitumen, 0.015 cu.m, 12.5mm aggregate per sq.m; coat 2 - 1 kg of bitumen, 0.009 cu.m, 10 mm aggregates, per sq.m complete)						
RW0165	Mechanized	sq.m	150.28	147.83	153.15	151.34
RW0166	Manually	sq.m	194.59	193.31	199.06	198.88
Premix carpet surfacing including a tack coat @ 0.75 kg bitumen per sq.m of road surface						
RW0167	50mm thick with 6 cu.m of aggregate 10mm nominal size per 100 sq.m using 51.5 kg of bitumen 80/100 grade per cu.m of stone aggregate (Mechanized)	sq.m	231.60	225.47	238.79	234.26
RW0168	25mm thick with 3 cu.m of stone aggregate per 100 sq.m and 51.5 kg of bitumen 80/100 grade per cu.m of stone aggregate (Mechanized)	sq.m	146.57	143.50	150.16	147.89
RW0169	20mm thick with 2.40 cu.m of stone aggregate 10mm nominal size per 100 sq.m and 51.5 kg of bitumen 80/100 grade per cu.m of stone aggregate (Mechanized)	sq.m	114.77	111.09	115.33	116.66
Premix Carpeting with 64 kg of bitumen 80\100 per cu.m of aggregates including a tack coat with bitumen of same quality @ 0.75 kg per sq.m of road surface						
RW0170	20 mm thick with 2.4 cu.m, 10mm aggregate per 100 sq.m (Manually)	sq.m	157.41	155.85	161.51	160.95
RW0171	25 mm thick with 3.0 cu.m, 10mm aggregate per 100 sq.m (Manually)	sq.m	182.83	180.81	187.85	187.05
Repainting, one coat of bitumen 80\100 @ 1 kg of bitumen; 0.009 cu.m, 10mm aggregate per sq.m of road surface						
RW0175	Manually	sq.m	69.10	68.56	70.70	70.57
RW0176	Mechanised	sq.m	51.47	50.55	52.55	51.87

Code	Description	Units	PL	GP	SJ	TH
Providing seal coat with bitumen 80/100 grade of approved quality using 1.12 cu.m of stone aggregate 10mm size per 100 sq.m and 56 kg of bitumen 80/100 grade per cu.m of stone aggregate with a tack coat of 0.75 kg of bitumen per sq.m of road surface complete						
RW0177	Mechanized	sq.m	76.52	75.37	77.86	77.02
Providing seal coat with bitumen 80\100 using 1.5 kg of bitumen per sq.m with 1.05 cu.m, 10mm aggregate per 100 sq.m of road surface						
RW0178	Manually	sq.m	88.27	87.78	90.32	90.34
Providing seal coat of premixed sand with bitumen 80\100 using 128 kg of bitumen per cu.m of sand and 0.75 cu.m of coarse sand per 100 sq.m of road surface						
RW0179	Manually	sq.m	57.68	58.05	60.43	62.18
Providing & fixing RC name board including primer and white zinc paint						
RW0180	Rectangular with post	each	1903.59	1895.04	1907.19	1992.65
RW0181	Flat without post for one direction only	each	2778.52	2772.53	2820.28	2961.09
RW0182	Flat without post for two directions only	each	2971.20	2965.53	3017.14	3175.76
R o a d S i g n s						
RW0183	Engraving letters on hard stone.....per letter per centimetre height	each	4.48	4.48	4.48	4.48
Providing & fixing precast boundary stone of RC 1:2:4 (20mm aggregate) including finishing with mortar 1:3 (cost of excavation, refilling etc to be paid separately)						
RW0185	150mm dia x 900mm high	each	408.97	405.70	416.23	433.75
Providing & fixing precast kilometre stone of RC 1:2:4 (20mm aggregate) including finishing with mortar 1:3 complete as per standard design (cost of excavation, concreting, painting etc. shall be paid separately)						
RW0186	35cm x 111cm x 25cm	each	1292.16	1290.16	1332.67	1406.30
RW0187	50cm x 152.5cm x 25cm	each	2261.13	2260.43	2338.08	2477.11
RW0188	35cm x 93.5cm x 18cm	each	837.34	835.07	862.19	907.27
Letterings						
RW0189	Lettering with paint of approved brand and manufacture.....per letter per centimetre ht	each	1.37	1.40	1.39	1.39
RW0190	Relettering with paint of approved brand and manufacture.....per letter per centimetre ht	each	1.06	1.09	1.07	1.08

Code	Description	Units	PL	GP	SJ	TH
Fencing						
Supplying posts & struts						
RW0195	Local ballies, 250 mm min. girth	m	74.37	74.35	73.67	79.19
RW0196	Local ballies 250 mm min girth , 1.8m long	each	182.78	182.73	181.51	191.45
RW0197	Precast R.C posts, 1.8 m long	each	843.19	836.31	854.30	895.83
RW0198	Precast R.C struts 2.0 m long	each	643.32	636.66	650.38	676.97
RW0199	RCC posts & struts, 1.8m long	m	1141.64	1135.81	1177.40	1246.33
RW0200	RCC posts & struts, 2m long	m	707.55	701.03	718.12	748.62
Providing & fixing G.I barbed Wire Netting including fixing of post or struts, G.I staples, coal tarring in case of ballies complete (posts/struts, earthwork, concrete paid separately)						
RW0202	2.5mm , (12 SWG), 4 barbs form by twisting two point wires, each two turns, pitch of barbs 75mm	m	17.28	22.33	21.36	18.12
Providing & fixing G.I double knotted mesh including fixing of post or struts, G.I staples, coal tarring in case of ballies complete (excluding the cost of posts/struts, earthwork, concrete)						
RW0205	4mm (8 SWG) x 100mm	sq.m	275.02	344.39	357.18	425.52
RW0206	2.5mm (12 SWG) x 100mm	sq.m	273.41	286.50	320.41	364.28
RW0207	4mm (8 SWG) x 150mm	sq.m	257.53	235.81	357.18	416.77
RW0208	2.5mm (12 SWG) x 150mm	sq.m	226.29	212.02	253.01	358.45
Providing & fixing G.I chain-link mesh including fixing of post or struts, G.I staples (excluding the cost of posts/struts, earthwork, concrete etc.)						
RW0209	4mm (8 SWG) x 50mm	sq.m	392.28	457.64	439.75	636.44
RW0210	2.5mm (12 SWG) x 50mm	sq.m	230.13	439.79	456.40	578.11
RW0211	4mm (8 SWG) x 75mm	sq.m	308.28	345.38	439.75	636.44
RW0212	2.5mm (12 SWG) x 75mm	sq.m	228.96	331.50	434.99	578.11
RW0213	4mm (8 SWG) x 100mm	sq.m	274.45	332.53	417.76	636.44
RW0214	2.5mm (12 SWG) x 100mm	sq.m	273.41	286.50	320.41	364.28
Providing and Fixing Barbed Wire (Min. 10kg/100m) fencing						
RW0215	1.2 m high fencing with 1.8 m R.C.C posts of standard design placed every 3 m apart, embedded in cement concrete blocks, every 15th post, last but one end post and corner post shall be strutted on both sides and end post one side only, provided with nine horizontal lines and two diagonals of barbed wire between two posts fitted and fixed with GI staples on wooden plugs or GI binding wire tied to 6mm bars nibs fixed while casting the post (cost of RCC posts, struts, earthwork and concrete to be paid for separately)	m	182.76	239.18	228.36	192.17

Code	Description	Units	PL	GP	SJ	TH
RW0216	1.2 m high fencing with 1.8 m balli posts 250 mm girth (min) placed every 2.5 m apart, embedded in cement concrete blocks, every 15th post, last but one end post and corner post shall be struttred on both sides and end post one side only, provided with six horizontal lines and two diagonals of barbed wire between two posts fitted and fixed with GI staples driven into the posts complete (cost of RCC posts, struts, earthwork and concrete to be paid for separately)	m	155.20	193.48	185.52	161.34
RW0217	2.4 m high fencing with 3.3 m balli posts 250 mm girth (min) placed every 2.5 m apart, embedded in cement concrete blocks, every 15th post, last but one end post and corner post shall be struttred on both sides and end post one side only, provided with twelve horizontal lines and two diagonals of barbed wire between two post fitted and fixed with GI staples driven into the posts complete (cost of RCC posts, struts, earthwork and concrete to be paid for separately)	m	270.32	339.31	325.02	281.41
RW0218	1.3 m high concrete rail and pale fencing with 1.8 m R.C.C posts 2.2 m rails and 1.25 m pales placed every 2.5 m apart, embedded in cement concrete blocks (450 mm x 450 mm x 700 mm), of mix 1:5:10 (1 cement : 5 sand : 10 graded crushed rock 40 mm nominal size) (cost of earthwork in excavation, concrete work, posts, rails and pales to be paid for separately)	m	115.08	115.08	115.08	115.08
RW0219	1.2 m high fencing with 1.2 m angle posts (40mm x 40 mm x 6 mm) placed every 3 m apart, embedded in cement concrete blocks, every 15th post, last but one end post and corner post shall be struttred on both sides and end post one side only, provided with nine horizontal lines and two diagonals of barbed wire between two post fitted and fixed with GI staples, turn buckles complete (cost of , posts, struts, earthwork and concrete to be paid for separately)	m	179.94	236.01	225.26	189.30
RW0220	1.8 m high fencing with 1.8 m angle posts (50mm x 50 mm x 6 mm) placed every 3 m apart, embedded in cement concrete blocks, every 15th post, last but one end post and corner post shall be struttred on both sides and end post one side only, provided with nine horizontal lines and two diagonals of barbed wire between two post fitted and fixed with GI staples, turn buckles complete (cost of , posts, struts, earthwork and concrete to be paid for separately)	m	236.27	308.35	294.53	248.30

Bioengineering

Seeds Collection, treatment and storage

RW0230	Grass and pioneer plant seed collection, including separation, drying in the sun & storing	kg	450.47	452.55	452.55	453.72
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Code	Description	Units	PL	GP	SJ	TH
Broadcasting						
RW0231	Broadcasting of grass/pioneer plants seeds on slopes; seeding rate 25 gm per m ²	sq.m	46.19	46.19	46.19	46.19
Direct Seeding						
RW0232	Direct seeding of shrubs or tree seeds at 30 cm spacing including digging holes up to 5cm depth and covering with soil, with two seeds per planting hole	sq.m	46.19	46.19	46.19	46.19
Live Stacking/Palisade						
RW0233	Preparation of materials (woody cuttings 2-4 cm diameter and 50 cm length) and staking them $\frac{3}{4}$ of the cuttings in the soil	m	56.01	56.01	56.05	56.14
Brush layer/Hedge Brush Layer						
RW0234	Collection and preparation of materials (woody cuttings 2-4 cm diameter and 60 cm length) and staking them $\frac{3}{4}$ of the cuttings in the soil	m	65.85	65.85	65.97	66.31
Planting of seedlings/wildings						
RW0235	Planting of seedlings or wildings (including the collection of wildings from the wild) and planting them in a pit size 30 cm x 30 cm	no	161.06	171.33	172.96	167.01
Sodding/Turfing						
RW0236	Sodding of slopes with sods, eg lemon grass (30 cms centre to centre), titepati (1metre centre to centre) in contour lines. The sods should be placed even closer to each other if the slope is greater than 25 degree	sq.m	52.28	51.81	51.81	53.03
RW0237	Turfing of embankment with 30 x 30 cm, natural grass turfs and fixed to the ground with wooden pegs, if slope is greater than 25°	sq.m	93.21	93.62	94.41	94.40
Grass Slips Planting						
RW0238	Grass slips planting on slopes (random or in line) at 10 cm apart and 5 cm deep.	sq.m	24.09	24.09	24.30	24.09
RW0239	Providing and laying fog sealing as per technical specification and drwaing.	sq.m	24.17	24.17	25.01	25.47
RW0240	Providing and laying of Rock Anchorage including TMT rebar (25mm dia) and cement slurry to fill the gap. The hole diameter should at least 32mm and 1m length as provided in the drawing.	sq.m	1395.56	1384.36	1363.32	1519.33
RW0241	Supply and apply permanent road marking on the road surface as per technical specification,(manually)	sq.m	125.76	138.79	131.56	136.47
RW0242	Road martking with hot applied thermoplastic compound with reflectorising glass beads on Bituminuous surface as per IRC:35 and technical specifications. The finished surface to be level and free from streaks and holes	sq.m	484.42	487.21	484.42	485.95

4. COST INDICES

5. QUICK COST GUIDE

COST INDEX CALCULATION

Any rates calculated adding cost index shall not be used for making payment to contractors or parties
Payment to contractors shall be strictly as per the contract agreement only

The six examples, that follow, are for purpose of guidance and engineers are encouraged to calculate cost indices on their own.

I Procedure for calculation of cost Index:

- a) Col.(4) = Basic rates at nearest base town
- b) Col.(5) = Rates at the project location
- c) Col.(6) = $[\{col.5/col.4\} - 1] \times 100$
- d) Col.(7) = Weightage shall remain fixed
- e) Col.(8) = $\{Col.(6) \times Col.(7)\} / 100$

II Weightage

Weightage of a particular material is the percentage of its cost from the total cost of the project.

II The cost index shall not be applicable for:

- a) All basic rates
- b) Any works where only labour is involved such as:
 - Dismantling and demolition.
 - Earth work
 - Installation, testing, commissioning

For such works actual labour requirement shall be worked out and additional amount added for any increase in labour rates

II Procedure for calculation of rates at the project location

- a) To derive the approximate item rate at any location, the BSR item rates of the nearest base town shall be enhanced by the cost index calculated above.
- b) Same weightage shall be applicable for similar works at any location
- c) Weightage differs for different kinds of projects and engineers can calculate weightages using rates of items of the nearest base towns

SAMPLE CALCULATIONS OF COST INDICES

1. Building Works with Brick Infill walls and steel trusses

Sl.No.	Description	Unit	Cost at a base Town	Cost at Project Location	% Increase	Weightage	Cost Index	Remarks
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
1	Cement	MT	4770.00	5689.00	19.27	17.00	3.28	
2	Steel Reinforcement	MT	31500.00	33500.00	6.35	14.00	0.89	
3	Rolled Steel	MT	32300.00	34400.00	6.50	3.00	0.20	
4	C.G.I Sheet	MT	44000.00	50600.00	15.00	5.00	0.75	
5	Brick /ICEB	Nos	4650.00	6830.00	46.88	9.50	4.45	
6	Stone Boulders	cu.m	180.00	530.00	194.44	1.50	2.92	
7	Rough SawnTimber	cu.m	7800.66	8122.45	4.13	17.00	0.70	
8	Stone Aggregates (20mm)	cu.m	618.00	883.00	42.88	4.50	1.93	
9	Sand	cu.m	180.00	534.00	196.67	2.00	3.93	
10	Labour : Average							
	Cat. I to IV	each	208.75	208.75	0.00	11.50	0.00	
	Cat. V	each	165.00	165.00	0.00	15.00	0.00	

100.00
Cost Index = 19.04 %

2. Building Works with Brick Infill walls and timber trusses

Sl.No.	Description	Unit	Cost at a base Town	Cost at Project Location	% Increase	Weightage	Cost Index	Remarks
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
1	Cement	MT	4770.00	5689.00	19.27	17.00	3.28	
2	Steel Reinforcement	MT	31500.00	33500.00	6.35	14.00	0.89	
3	C.G.I Sheet	MT	46000.00	50600.00	10.00	5.00	0.50	
4	Brick /ICEB	Nos	4630.00	6830.00	47.52	10.50	4.99	
5	Stone Boulders	cu.m	180.00	530.00	194.44	1.50	2.92	
6	Rough SawnTimber	cu.m	7800.66	8122.45	4.13	19.00	0.78	
7	Stone Aggregates (20mm)	cu.m	618.00	883.00	42.88	4.50	1.93	
8	Sand	cu.m	180.00	534.00	196.67	2.00	3.93	
9	Labour : Average							
	Cat. I to IV	each	208.75	208.75	0.00	11.50	0.00	
	Cat. V	each	165.00	165.00	0.00	15.00	0.00	

100.00
Cost Index = 19.22 %

3. Building Works with stone masonry Infill walls

Sl.No.	Description	Unit	Cost at base town	Cost at Project Location	% Increase	Weightage	Cost Index	Remarks
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
1	Cement	MT	4770.00	5689.00	19.27	17.00	3.28	
2	Steel Reinforcement	MT	31500.00	33500.00	6.35	5.00	0.32	
3	C.G.I Sheet	MT	46000.00	50600.00	10.00	8.00	0.80	
4	Stone boulders	cu.m	180.00	534.00	196.67	6.00	11.80	
5	Bricks/ICEB	1000#	4650.00	6830.00	46.88	1.00	0.47	
6	Rough SawnTimber	cu.m	7800.66	8122.45	4.13	22.00	0.91	
7	Stone Aggregates (20mm)	cu.m	618.00	883.00	42.88	3.00	1.29	
8	Sand	cu.m	180.00	530.00	194.44	3.00	5.83	
9	Labour : Average							
	Cat. I to IV	each	208.75	208.75	0.00	20.00	0.00	
	Cat. V	each	165.00	165.00	0.00	15.00	0.00	

100.00

Cost Index = 24.69 %

4. Bitumen Sealing Works

Sl.No.	Description	Unit	Cost at a base town	Cost at Project Location	% Increase	Weightage	Cost Index	Remarks
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
1	Bitumen***	MT	32189.00	34389.00	6.83	63.00	4.31	
2	Road Roller (8-10T)	day	3928.00	3928.00	0.00	9.00	0.00	
3	Fire wood**	cu.m	535.00	650.00	21.50	3.00	0.64	
3	Stone Aggregates . 20mm	cu.m	618.00	635.70	2.86	14.00	0.40	
4	Labour : Average							
	Cat. I to IV	each	208.75	208.75	0.00	0.50	0.00	
	Cat. V	each	165.00	165.00	0.00	10.50	0.00	

100.00

Cost Index = 5.35 %

*** Bitumen 80/100 or Emulsion as appropriate

** Fire wood measured in stacked volume

5. Road Permanent Works - Retaining Walls, Culvert and other similar works

Sl.No.	Description	Unit	Cost at a base town	Cost at Project Location	% Increase	Weightage	Cost Index	Remarks
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
1	Cement	MT	4770.00	5689.00	19.27	30.00	5.78	
2	Stone boulder	cu.m	180.00	205.00	13.89	20.00	2.78	
3	Stone Aggregates (20mm)	cu.m	618.00	700.00	13.27	3.00	0.40	
4	Sand	cu.m	180.00	534.00	196.67	5.00	9.83	
5	Labour : Average							
	Cat. I to IV	each	208.75	208.75	0.00	16.00	0.00	
	Cat. V	each	165.00	165.00	0.00	26.00	0.00	

100.00

Cost Index = 18.79 %

6. Road Works - Base Course

Sl.No.	Description	Unit	Cost at a base town	Cost at Project Location	% Increase	Weightage	Cost Index	Remarks
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
1	Stone Boulder	cu.m	180.00	205.00	13.89	5.00	0.69	
2	Road Roller (8-10T)	day	3440.00	3440.00	0.00	32.00	0.00	
3	Blinding materials	cu.m	70.00	70.00	0.00	3.75	0.00	
4	Stone Aggregates 20 mm	cu.m	618.00	700.00	13.27	42.00	5.57	
5	Labour : Average							
	Cat. I to IV	each	208.75	208.75	0.00	0.25	0.00	
	Cat. V	each	165.00	165.00	0.00	17.00	0.00	

100.00

Cost Index = 6.27 %

Quick cost Guide

Explanatory Notes:

- 1 The rates listed are in units of per square metre of plinth per metre clear height of floor to ceiling.
- 2 Rates do not include major site development, or special items
- 3 Tabulated rates should be adjusted by the Room Size Factor.
- 4 Average Room Size (Av) shall be calculated from the expression:
- 6 They are approximations for projects of similar description
- 7 Any intermediate values of room size factor may be work out by interpolation
- 8 Calculation of Average room size and rates adjustment factors floor wise shall give better results

$$Av = \sqrt[3]{\frac{pa \cdot h}{r}}$$

Where
 Av = Average room size (m)
 pa = Plinth area (sq.m)
 h = Clear Height of floor to Ceiling (m)
 r = No. of Rooms

- 5 The rates and room size factors are based on detailed estimates for the various projects described.

Average room size and rate adjustment factors

Average Room Size (m)	Room Size Factor
2.500	1.180
2.540	1.170
2.570	1.160
2.600	1.150
2.650	1.140
2.670	1.130
2.720	1.120
2.740	1.110
2.790	1.100
2.820	1.090
2.860	1.080
2.900	1.070
2.970	1.060
3.000	1.055
3.050	1.050
3.125	1.040
3.210	1.030
3.320	1.020
3.430	1.010
3.500	1.000
3.680	0.990
3.860	0.980
4.000	0.970
4.220	0.960

Average Room Size (m)	Room Size Factor
4.430	0.950
4.500	0.947
4.720	0.940
5.000	0.930
5.380	0.920
5.500	0.917
5.780	0.910
6.000	0.904
6.200	0.900
6.500	0.894
6.710	0.890
7.000	0.885
7.380	0.880
8.000	0.872
8.200	0.870
8.750	0.860
9.000	0.858
10.000	0.850
11.000	0.838
12.000	0.832
13.000	0.825
14.000	0.820
15.000	0.810

QUICK COST GUIDE 2018

Sl.no	Description	Rates (Nu)			
		PL	GP	SJ	TH

Non-Residential

1	Class room G+1, RCC framed structure, bricks wall in super structure with cement mortar, terrozo/ marbles /tiles/timber flooring, timber doors / windows frames/ shutters and ceilings , celings, PPGI sheet roofing on steel truss, RCC cornices, standard electrical works, plumbing & sanitation, drainage and plinth protection	5,099.83	5,259.96	5,240.71	5,675.30
2	Kitchen block ,single storey RCC framed structure, RRM wall foundation and brick walls in super structure with cement mortar , terrazzo/marbles /tiles/ timber flooring, timber doors / windows frames/ shutters and ceilings, PPGI/CGI sheet roofing on steel truss, RCC cornices, standard electrical works, plumbing & sanitation, drainage and plinth protection.	5,430.14	5,457.59	5,403.03	6,084.91
3	Auditorium block single story load bearing, RRM wall foundation and wall, terrazzo/granite/timber flooring. Brick wall partition with cement mortar, aluminium windows, timber doors, CGI/PPGI sheet roofing on steel truss, RCC cornices, detail eletrical works, drainage and plinth protection, standard plumbing and sanitation	4,885.94	5,890.26	5,299.97	6,254.04
4	Single storey load bearing structure, RRM wall foundation in mud mortar, RRM wall in super structure in mud mortar, timber doors and windows, cement concrete/ timber flooring , wooden truss over CGI sheets/shinglep roofing ,detail electrical works and plumbing, drainage and plinth protection	3,698.38	3,767.72	3,739.59	3,972.37
5	Office Block - 2 story RCC framed structure, RRM wall foundation and bricks wall in super structure with cement mortar. Terrazzo/marble/ tiles/timber flooring. timber windows, and doors, PPGI sheet roofing on steel truss, RCC cornices, standard eletrical works, plumbing & sanitation, drainage and plinth protection.	5,138.11	5,214.03	5,165.30	5,630.90

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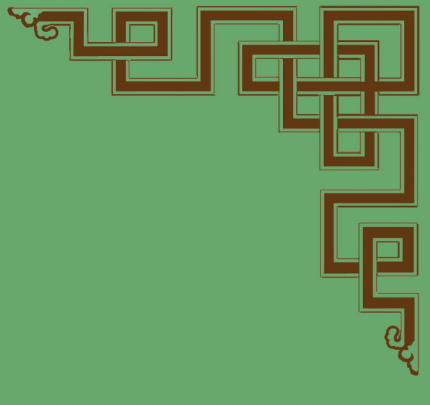
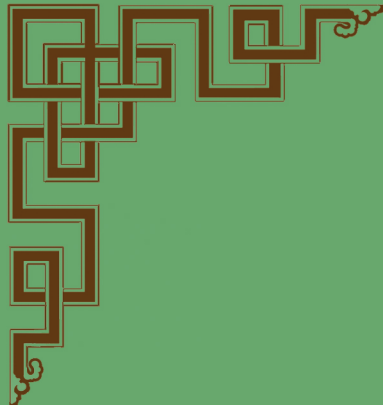
Sl.no	Description	Rates (Nu)			
		PL	GP	SJ	TH

Residential

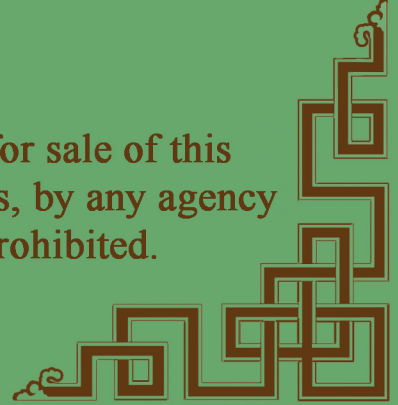
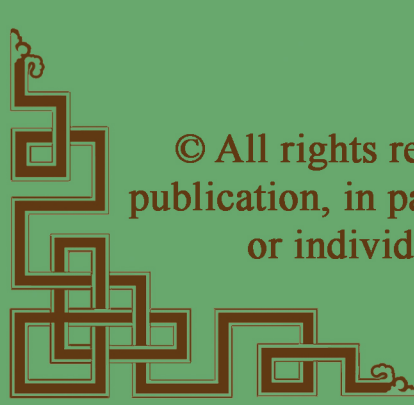
6	Non-Residential-hostel 2 story, RCC framed structure, RRM wall foundation and brick walls in super structure with cement mortar. Terrazzo/marble /tiles/timber flooring. timber windows, doors, PPGI sheet roofing on steel truss, GRC cornices, standard electrical works, plumbing & sanitation, drainage and plinth protection.	5,545.37	5,629.63	5,495.65	6,081.63
7	Residential-single story RCC framed structure, RRM wall foundation and brick walls in super structure with cement mortar , terrazzo/marbles /tiles/ timber flooring, timber windows, doors & ceiling, PPGI sheet roofing on steel truss,GRC cornices, standard electrical works, plumbing & sanitation, drainage and plinth protection.	7,272.63	7,531.13	7,457.50	8,374.42
8	Residential-single storey load bearing structure RMM in foundation & ekra wall in superstructure with mud Plaster both sides, timber/ mud flooring. timber windows & doors, CGI sheet roofing on timber truss, standard electrical works, drainage and plinth protection, standard plumbing and sanitation	4,750.86	4,822.91	4,690.97	5,148.52
9	Residential-single storey load bearing structure,RRM wall in foundation, bricks wall in cement mortar,terrazzo/marbles /tiles/ timber flooring. timber windows & doors, CGI sheet roofing on timber truss, RCC cornices, standard electrical works, plumbing & sanitation, drainage and plinth protection.	5,508.65	5,564.22	5,536.23	6,369.02
10	Residential-single storey load bearing structure,RRM wall in foundation, RRM wall in superstructure with cement mortar,concrete /tiles/ timber flooring. windows,timber doors, CGI sheet roofing on timber truss, standard electrical works, drainage and plinth protection, standard plumbing and sanitation	6,964.50	7,134.83	7,121.74	7,580.10
11	Residential-single storey load bearing structure, RRM wall in foundation, Rammed Earth wall in superstructure, timber flooring, windows & doors, CGI sheet roofing on timber truss, standard electrical works, drainage, plumbing and sanitation.	4,421.36	4,539.92	4,491.26	4,806.06

QUICK COST GUIDE 2018

Sl.no	Description	Rates (Nu)			
		PL	GP	SJ	TH
12	Residential- single storey load bearing structure,RRM wall in foundation, RRM wall in super structure with mud mortar, wooden/mud flooring. timber windows & doors, CGI sheet roofing on timber truss/shinglep roofing, standard eletrical works, drainage and plinth protection, standard plumbing and sanitation.	6,589.43	6,720.85	6,659.10	7,030.14
13	Residential-double storey, RCC framed structure, Brick walls in super structure with cement mortar, terrozo/ marbles /tiles/timber flooring, timber windows, doors and celings,PPGI sheet roofing on steel truss, RCC cornices, standard electrical works, plumbing & sanitation, drainage and plinth protection.	6,816.14	6,980.29	6,955.30	7,869.22
14	Residential House, Multi Storey RCC Framed structure, RRM Wall Footing & RC Column & Footing, Bricks in Wall & Partition with cement mortar. Floor-RC Slab with Terrazo/timber/marble/Tiles Finishing. Timber Doors/Windows Frames/Shutter. PPI Sheet Roofing on Timber/Steel Truss. RC Cornice, Standard Plumbing/Electrical & Finishings.	5,974.85	5,988.06	5,976.72	6,857.69



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