

ROYAL GOVERNMENT OF BHUTAN



BHUTAN SCHEDULE OF RATES (Civil)
2012

MINISTRY OF WORKS & HUMAN SETTLEMENT
DEPARTMENT OF ENGINEERING SERVICES

Foreword

The Department of Engineering Services of the Ministry of Works and Human Settlement is pleased to publish the Bhutan Schedule of Rates -2012 for Building and Road Works .This is the revised edition of the Bhutan Schedule of Rates -2011.

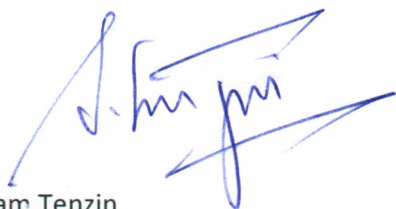
Since the last revision of the BSR 2011, there has been some changes in the prices of the materials in the market. Two new items namely; steel form work and locally manufactured concrete block bricks have been included in the BSR 2012 (Civil).

The rates in the BSR are based on market prices of materials collected from the hardware shops in the three base towns of Phuntsholing, Gelephu & Samdrupjongkhar and other Government and private agencies within Bhutan during the period mid July – September 2012. Since there are various brands of materials available in the market for each item, the BSR reflect only the average price. The prices collected are of those materials approved by the Bhutan Standards Bureau (BSB).

As emphasized in all our previous editions, the users are urged to use the BSR as a guide only and for any specific projects, engineers will have to collect market prices and analyze the rates using the labour and material coefficients (LMC) published along with the BSR.

Sample cost indices tables are given at the back of the BSR to arrive at the actual cost of a particular project at a location other than the base towns.

I hope the Bhutan Schedule of Rates 2012 will prove useful to all the users within Bhutan.



Dr. Sonam Tenzin
Hon'ble Secretary
Ministry of Works and Human Settlement
Thimphu.

Date: 15/3/2013

Disclaimer

The BSR (both Civil and Electrical) -2012 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 -2012 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 - 2012 is the revised edition of Bhutan Schedule of Rates - 2011.
2. The rates shown for all the built - up items are for up to 10 Km radius and is inclusive of:
 - 5% on labour cost for hand tools, equipments, machinery and material wastages
 - 1 % for water charges
 - 10% for overhead charges
3. The built up item rates are based on "Labour and Material Coefficients 2012" 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 - 2012" and the "Labour and Materials Coefficients - 2012"
6. Few new items like steel formwork and concrete block bricks have been incorporated. Kindly refer similar items for materials and works specification.
7. Generally, the basic rates of materials, incorporated in this Schedule pertain to average rates of the most available brands
8. Hire charges for plants and machinery are based on the built- up rates provided by the Construction Development Corporation Limited, Thimphu.
9. Calculation of cost indices has been detailed and few samples are provided on calculation of cost indices.
10. List of approved brands, as applicable at the time of publication of BSR - 2012, is provided. However, please note that this list is reviewed from time to time. The latest list is available on www.bsb.gov.bt

Bhutan Schedule of Rates - 2012

11. Material Rates used in BSR-2012 are collected during the period July-September 2012. Users are suggested to update rates accordingly with the prevailing market rates.

12. BSR contains only the commonly used items, the new items may be workout and analyzed by the engineers as may be relevant.

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4. COST INDICES**5. APPROVED MATERIAL BRANDS**

SECTION – 1

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

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

Bhutanese National Labour

LB0001	Category 1	LB	day	240.00	240.00	240.00
LB0002	Category 2	LB	day	220.00	220.00	220.00
LB0003	Category 3	LB	day	195.00	195.00	195.00
LB0004	Category 4	LB	day	180.00	180.00	180.00
LB0005	Category 5 (Male)	LB	day	165.00	165.00	165.00
LB0006	Category 5 (Female)	LB	day	165.00	165.00	165.00

Statutory-On-Cost Allowances

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

Built-up Trade Rates

Category 1

LB0020	Auto-Mechanic Gd.1	LB	day	259.60	259.60	259.60
LB0021	Carpenter Gd.1	LB	day	259.60	259.60	259.60
LB0022	General Mechanic Gd.1	LB	day	259.60	259.60	259.60
LB0023	Lharib	LB	day	259.60	259.60	259.60
LB0024	Lineman Gd.1	LB	day	259.60	259.60	259.60
LB0025	Plant Operator Gd.1	LB	day	259.60	259.60	259.60

Category 2

LB0030	Auto-Electrician Gd.1	LB	day	238.32	238.32	238.32
LB0031	Auto-Mechanic Gd.2	LB	day	238.32	238.32	238.32
LB0032	Blacksmith (metal-worker)	LB	day	238.32	238.32	238.32
LB0033	Carpenter Gd.2	LB	day	238.32	238.32	238.32
LB0034	General Mechanic Gd.2	LB	day	238.32	238.32	238.32
LB0035	Lineman Gd.2	LB	day	238.32	238.32	238.32
LB0036	Mason Gd.1	LB	day	238.32	238.32	238.32
LB0037	Plant Operator Gd.2	LB	day	238.32	238.32	238.32
LB0038	Plumber Gd.1	LB	day	238.32	238.32	238.32
LB0039	Work Supervisor (Lajab)	LB	day	238.32	238.32	238.32

Category 3

LB0045	Auto-Electrician Gd.2	LB	day	211.61	211.61	211.61
LB0046	Auto-Mechanic Gd.3	LB	day	211.61	211.61	211.61
LB0047	Blaster	LB	day	211.61	211.61	211.61
LB0048	Carpenter Gd.3	LB	day	211.61	211.61	211.61
LB0049	General Mechanic Gd.3	LB	day	211.61	211.61	211.61
LB0050	Lineman Gd.3	LB	day	211.61	211.61	211.61
LB0051	Mason Gd.2	LB	day	211.61	211.61	211.61
LB0052	Painter Gd.1	LB	day	211.61	211.61	211.61
LB0053	Plant Operator Gd.3	LB	day	211.61	211.61	211.61
LB0054	Plumber Gd.2	LB	day	211.61	211.61	211.61
LB0055	Sawyer Gd.1	LB	day	211.61	211.61	211.61
LB0056	Wireman Gd.1	LB	day	211.61	211.61	211.61

Code	Description	Category	Units	PL	GP	SJ
Category 4						
LB0065	Cleaner	LB	day	195.60	195.60	195.60
LB0066	Machine Operator	LB	day	195.60	195.60	195.60
LB0067	Painter Gd.2	LB	day	195.60	195.60	195.60
LB0068	Sawyer Gd.2	LB	day	195.60	195.60	195.60
LB0069	Wireman Gd.2	LB	day	195.60	195.60	195.60
Category 5						
LB0075	Labourer (Male)	LB	day	178.76	178.76	178.76
LB0076	Labourer (Female)	LB	day	178.76	178.76	178.76
Labour (Market Rate)						
LB0077	Labour	LB	day	178.76	178.76	178.76

Note: The above rates are calculated to comply with the Ministry of Labour and Human Resources Wage Regulations, revised from 15th July 2011

Code	Description	Units	PL	GP	SJ
BASIC RATES - BITUMEN PRODUCTS, CHEMICALS & BLASTING MATERIALS					
Bitumen materials					
MT0001	Bitumen 80\100	tonne	47793.86	47793.86	47793.86
MT0002	Bitumen Emulsion	tonne	44022.35	44022.35	44022.35
Bitumen felt Type 3					
MT0005	Grade 1	sq.m	205.00	205.00	205.00
MT0006	Grade 2	sq.m	113.00	113.00	113.00
Sealing Compounds					
MT0010	Hot sealing compound Grade A	kg	40.89	40.89	40.89
MT0011	Bitumen Solution primer	litre	52.00	52.00	52.00
Joint-filler					
MT0015	Pre-moulded bitumen impregnated fibre board, 12mm thick (IS: 1838 or equivalent)	sq.m	605.00	605.00	605.00
Blasting materials					
MT0020	Super dyne / Gelatine	kg	74.43	74.43	74.43
MT0021	Fuse Coil	each	71.69	71.69	71.69
MT0022	Detonator	each	5.74	5.74	5.74
MT0023	Drill rod - 8' - 0"	each	4919.00	4919.00	4919.00
MT0024	Silent Blaster	kg	335.00	335.00	335.00
MT0025	Drill rod - 5' - 0"	each	3475.00	3475.00	3475.00
MT0026	Drill rod - 3' - 0"	each	2379.00	2379.00	2379.00
Chemicals					
MT0030	Aldrin Emulsifiable Concentrate 30% (for anti-termite treatment)	litre	279.00	299.00	294.00
Fuels					
MT0035	Kerosene	litre	13.92	14.86	15.00
MT0036	Diesel	litre	39.22	41.12	41.58
MT0037	Petrol	litre	60.74	63.38	63.62
BASIC RATES - QUARRY & FOREST PRODUCTS					
MT0040	Firewood (stacked volume)	cu.m	312.50	379.00	706.25
MT0041	Royalty for earth, mud, boulder, sand & gravel	truck	50.00	50.00	50.00
MT0042	Mud dry	cu.m	84.70	84.70	84.70
MT0043	Sand	cu.m	357.140	357.140	385.71
MT0044	Hay/husk	kg	66.55	66.55	66.55
MT0045	Straw, girth <100mm	bundle	12.10	12.10	12.10
MT0046	Cuttings	each	0.12	0.12	0.12
MT0047	Seedlings	each	6.00	6.00	6.00
MT0048	Grass Slips	each	0.08	0.08	0.08
MT0049	Turf	Sq.m	32.67	32.67	32.67
Stone					
MT0060	Boulder	cu.m	357.14	357.14	385.71

Code	Description	Units	PL	GP	SJ
Crushed Rock					
MT0064	100mm	cu.m	892.86	937.50	1071.43
MT0065	75mm	cu.m	892.86	937.50	1071.43
MT0066	63mm	cu.m	892.86	937.50	1071.43
MT0067	50mm	cu.m	892.86	937.50	1071.43
MT0068	40mm	cu.m	892.86	937.50	1071.43
MT0069	25mm	cu.m	1035.71	1087.50	1211.78
MT0070	20mm	cu.m	1035.71	1087.50	1211.78
MT0071	12.5 - 6mm	cu.m	1035.71	1087.50	1211.78
Gravel\Shingles (River stone)					
MT0080	40mm to 20mm	cu.m	400.00	430.00	448.00
MT0081	20mm to 10mm	cu.m	515.00	538.00	538.00
Marble Items					
Marble Chips 6mm					
MT0085	Black or White	tonne	4125.00	3720.00	4025.00
MT0086	Coloured	tonne	4175.00	4100.00	4225.00
Marble Slab 20mm					
MT0090	Black	sq.m	768.20	725.00	732.50
MT0091	White	sq.m	732.32	755.00	822.50
MT0092	Black and White	sq.m	740.26	800.00	922.50
MT0093	Coloured	sq.m	783.59	850.00	972.50
Marble Slab 40mm					
MT0100	Black	sq.m	525.00	525.00	525.00
MT0101	White	sq.m	660.00	660.00	660.00
MT0102	Black and White	sq.m	590.00	590.00	590.00
MT0103	Coloured	sq.m	670.00	670.00	670.00
Kota Stone Slab					
MT0110	20mm	sq.m	670.00	670.00	670.00
MT0111	40mm	sq.m	1415.00	1415.00	1415.00
Lime					
MT0120	Slaked lime	kg	20.00	22.70	20.00
MT0121	Unslaked lime	kg	20.00	25.20	25.00
Others					
MT0122	Sealed Bag	each	56.00	56.00	56.00
BASIC RATES - BRICK					
Brick materials					
MT0125	Bricks 2nd class	1000#	7250.00	8000.00	7833.33
MT0126	Brick aggregate	cu.m	1066.21	914.76	877.25
MT0127	Graded brick aggregate	cu.m	1251.60	1164.24	957.00
MT0128	Interlocking cement earth block(300mmX150mmX100mm)	1000#	27300.00	32300.00	38300.00
MT0129	Interlocking cement earth block(250mmX125mmX100mm)	1000#	15700.00	18200.00	21300.00
MT0130	Concrete block bricks	1000#	11000.00	10500.00	13000.00
BASIC RATES - CEMENT & CONCRETE MATERIALS					
Cement					
MT0145	Cement (OPC/PSC)	tonne	5950.00	6712.20	6741.25
MT0146	White Cement	tonne	28500.00	29000.00	28000.00

Code	Description	Units	PL	GP	SJ
Additives & Admixtures					
MT0150	Red Oxide Pigment\other pigments	kg	130.00	120.00	122.00
MT0151	Water proofing compound	kg	47.00	45.00	43.00
MT0152	Floor Hardener (metallic)	kg	35.00	30.00	30.00
Underlay for Slabs					
Plastic Sheet					
MT0155	50 micro-metre	sq.m	35.67	29.00	40.00
MT0156	100 micro-metre	sq.m	51.67	38.00	47.50
MT0157	200 micro-metre	sq.m	72.67	48.00	55.00
BASIC RATES - STEEL & OTHER METAL MATERIALS					
Aluminium Materials					
MT0160	Aluminium Fluted Strips 3.15mm thick 150mm wide	m	350.00	350.00	340.00
MT0161	Aluminium Strip 40x1.6mm	m	95.00	95.00	95.00
Anodised Aluminium Section for doors, windows					
MT0165	Sliding, open able and pivoted windows	kg	355.00	355.00	355.00
MT0166	Sliding and openable doors	kg	355.00	355.00	355.00
MT0167	Partitions framing	kg	355.00	355.00	355.00
MT0168	False ceiling framing	kg	355.00	355.00	355.00
Aluminium Strip Edging					
MT0175	57mmx12mmx1.6mm	m	91.88	93.98	94.50
MT0176	38mmx12mmx1.6mm	m	68.25	73.50	71.30
Steel Materials					
Rolled sections (250 MPa)					
MT0180	Angles	kg	60.00	60.00	75.00
MT0181	Channels	kg	65.00	60.00	77.00
MT0182	Flats	kg	65.00	60.00	77.00
MT0183	Joists	kg	75.00	60.00	79.00
MT0184	Plates	kg	75.00	60.00	82.00
Sheet (250 MPa)					
MT0190	1mm	kg	75.00	70.00	75.00
MT0191	2mm	kg	75.00	70.00	75.00
MT0192	2.8mm	kg	75.00	70.00	75.00
MT0193	3.5mm	kg	75.00	70.00	75.00
Mild steel Strips					
MT0194	1830mm X 230mm X 3mm	kg	54.00	60.00	60.00
Welded Tube (250 MPa)					
MT0200	50mm dia	m	263.00	253.00	265.00
MT0201	40mm dia	m	170.00	175.00	178.00
Reinforcing Bars & Mesh					
MT0208	Thermo - Mechanically Treated (TMT) bars (yield strength 500 MPa)	kg	47.50	65.00	67.67
Welded Mesh					
MT0215	75mmx25mm	sq.m	198.00	177.96	222.50
MT0216	Expanded Metal (19mm x 3mm x 16 gauge)	sq.m	231.00	224.70	243.00

Code	Description	Units	PL	GP	SJ
Fasteners					
MT0220	M.S. Rivets	kg	75.00	71.00	85.00
MT0221	M.S. Bolts & Nuts, Screws etc	kg	85.00	90.00	86.67
Fencing Wire Products					
MT0225	Barbed Wire	m	11.33	13.00	15.50
G.I double knotted mesh					
MT0230	100 x 100 x 8-gauge	sq.m	204.00	250.00	275.00
MT0231	100 x 100 x 12-gauge	sq.m	172.00	200.00	245.00
MT0232	150 x 150 x 8-gauge	sq.m	190.00	180.00	275.00
MT0233	150 x 150 x 12-gauge	sq.m	150.00	140.00	190.00
G.I chain-link mesh					
MT0240	100 x 100 x 8-gauge	sq.m	204.00	248.00	248.64
MT0241	100 x 100 x 12-gauge	sq.m	180.00	178.00	280.00
MT0242	75 x 75 x 8-gauge	sq.m	190.00	275.00	270.00
MT0243	75 x 75 x 12-gauge	sq.m	140.00	250.00	280.00
MT0244	50 x 50 x 8-gauge	sq.m	295.00	345.00	325.00
MT0245	50 x 50 x 12-gauge	sq.m	245.00	345.00	325.00
Galvanised Iron					
MT0250	Plain G.I Sheet, 24-gauge (0.63mm)	tonne	78000.00	71000.00	72000.00
Punched Type Concertina Wire					
MT0255	Punched Type Concertina Wire	m	544.50	544.50	544.50
Wires					
MT0256	GI wires (assorted diameters)	kg	78.33	88.00	83.50
BASIC RATES - ROOFING MATERIALS					
Galvanised Iron					
Corrugated G.I Sheets					
MT0275	24G (0.63mm)	tonne	73000.00	72000.00	72500.00
Fibre glass					
MT0280	Reinforced polyester transparent sheets - 1.2mm, corrugated	sq.m	1210.00	1210.00	1210.00
Roofing Slate					
MT0285	600mm x 300mm	each	26.62	26.62	26.62
Concrete Roofing Tiles					
Plain Pantile / Roman II 500mm x 250mm concrete tiles					
MT0290	6mm	each	13.31	13.31	13.31
MT0291	8mm	each	15.73	15.73	15.73
MT0292	10mm	each	16.34	16.34	16.34
Coloured Pantile / Roman II 500mm x 250mm concrete tiles					
MT0295	6mm	each	16.94	16.94	16.94
MT0296	8mm	each	17.55	17.55	17.55
MT0297	10mm	each	18.15	18.15	18.15

Code	Description	Units	PL	GP	SJ
Super Roman 600mm x 330mm x 10mm concrete tiles					
MT0300	Plain	each	31.46	31.46	31.46
MT0301	Coloured	each	35.09	35.09	35.09
Semi-sheet 600mm x 600mm x 8mm concrete tiles					
MT0305	Plain	each	32.67	32.67	32.67
MT0306	Coloured	each	52.03	52.03	52.03
Hip/Ridge, 600mm					
MT0310	Plain	each	33.88	33.88	33.88
MT0311	Coloured	each	54.45	54.45	54.45
Shingle roofing					
MT0315	1500mm (approx.)	pair	18.15	18.15	18.15
Red Mud Plastic Sheet					
MT0320	Red mud plastic corrugated sheet, 1.5mm	sq.m	329.12	329.12	329.12
MT0321	Red mud plastic plain sheet, 1.3mm	m	242.00	242.00	242.00
BASIC RATES - CARPENTRY & JOINERY MATERIALS					
Timber					
MT0325	Ballies 75 to 125mm dia	m	27.83	27.83	27.83
MT0326	Ballies 125 to 250mm dia	m	39.93	39.93	39.93
MT0327	Ballies 250 to 300mm dia	m	45.98	45.98	45.98
Rough-sawn timber (urban rate)					
MT0330	Class 'B', (Mixed Conifer)	cu.m	11970.74	10688.14	9956.78
MT0331	Class 'A', (Blue pine, Champ)	cu.m	12138.83	10962.17	10230.82
Plywood					
MT0340	4mm, commercial ply	sq.m	110.00	120.00	110.00
MT0341	4mm, teak ply	sq.m	310.00	310.00	310.00
MT0342	6mm, commercial ply	sq.m	225.00	210.00	210.00
MT0343	12mm, commercial ply	sq.m	370.00	475.80	310.00
Gypsum Wallboard					
MT0345	10mm	sq.m	184.65	184.65	184.65
MT0346	12mm	sq.m	203.28	203.28	203.28
MT0347	15mm	sq.m	232.93	232.93	232.93
Bison panel, Pre-laminated (both sides)					
MT0350	6mm	sq.m	309.03	309.03	309.03
MT0351	8mm	sq.m	328.34	328.34	328.34
MT0352	10mm	sq.m	373.29	373.29	373.29
MT0353	12mm	sq.m	407.77	407.77	407.77
MT0354	16mm	sq.m	497.31	497.31	497.31
MT0355	20mm	sq.m	617.10	617.10	617.10
MT0356	25mm	sq.m	654.61	654.61	654.61
MT0357	30mm	sq.m	840.95	840.95	840.95

Code	Description	Units	PL	GP	SJ
Plain Particle Board					
MT0365	6mm	sq.m	279.45	290.00	300.00
MT0366	10mm	sq.m	320.00	350.00	355.00
MT0367	12mm	sq.m	391.15	400.00	395.00
MT0368	18mm	sq.m	548.43	460.00	500.00
MT0369	25mm	sq.m	725.00	600.00	610.00
MT0370	35mm	sq.m	978.50	955.50	955.50
Pre-laminated Particle Board (one side)					
MT0375	8mm	sq.m	447.00	420.00	420.00
MT0376	10mm	sq.m	470.00	490.00	490.00
MT0377	12mm	sq.m	569.00	570.00	570.00
MT0378	18mm	sq.m	763.00	850.00	850.00
Skylight panel					
MT0385	Translucent diffuser panel, for skylights etc	sq.m	710.00	715.00	720.00
Cane Products					
Bamboo					
MT0390	25mm dia	m	14.33	16.39	13.00
MT0391	75mm dia	m	17.06	18.58	17.00
MT0392	Mat	sq.m	70.00	75.00	90.00
MT0393	cane basket	each	277.50	270.00	270.00
Prefab. Pannelling					
Flooring					
MT0395	25mm, Mixed conifer	sq.m	593.57	593.57	593.57
MT0396	38mm, Blue pine	sq.m	645.75	645.75	645.75
Wall panelling					
MT0400	19mm, blue pine	sq.m	669.22	669.22	669.22
MT0401	15mm, blue pine	sq.m	590.02	590.02	590.02
MT0402	12mm, blue pine	sq.m	543.82	543.82	543.82
MT0403	19mm, mixed conifer	sq.m	585.20	585.20	585.20
MT0404	12mm, mixed conifer	sq.m	542.77	542.77	542.77
MT0405	12mm, Champ wood	sq.m	626.16	626.16	626.16
Wire Gauze					
MT0410	Galv. mild steel wire gauze, 85G (0.85mm average width of aperture), 0.56mm dia.	sq.m	167.50	195.00	200.00
BASIC RATES - DOORS, WINDOWS & HARDWARE					
Prefab. Timber Doors & Boards					
Flush Door, block board core, commercial ply veneer, U\F bonded					
MT0415	25mm	sq.m	1094.70	1100.00	1115.00
MT0416	30mm	sq.m	1284.49	1250.70	1265.00
MT0417	35mm	sq.m	1446.57	1457.60	1465.00
MT0418	40mm	sq.m	1506.96	1506.25	1530.00
Flush Door, block board core, teak ply veneer, U\F bonded					
MT0425	25mm	sq.m	1667.12	1670.00	1685.24
MT0426	30mm	sq.m	1969.85	1980.15	2001.00
MT0427	35mm	sq.m	2173.49	2190.00	2215.00
MT0428	40mm	sq.m	2583.36	2450.00	2485.00

Code	Description	Units	PL	GP	SJ
Flush Door, block board core, ply veneer, chemically treated					
MT0435	25mm	sq.m	1078.00	1185.80	1218.14
MT0436	30mm	sq.m	1265.00	1391.50	1429.45
MT0437	35mm	sq.m	1485.00	1633.50	1678.05
MT0438	40mm	sq.m	1705.00	1875.50	1926.65
Panelled Door, with single lock rail					
MT0445	30mm, 12mm veneered particle board panel	sq.m	1470.15	1470.15	1470.15
MT0446	35mm, 12mm veneered particle board panel	sq.m	1488.30	1488.30	1488.30
MT0447	40mm, 12mm veneered particle board panel	sq.m	1500.40	1500.40	1500.40
MT0448	30mm, 12mm plywood panel	sq.m	1076.90	1076.90	1076.90
MT0449	35mm, 12mm plywood panel	sq.m	1090.21	1090.21	1090.21
MT0450	40mm, 12mm plywood panel	sq.m	1168.86	1168.86	1168.86
MT0451	30mm, 9mm plywood panel	sq.m	1056.33	1056.33	1056.33
MT0452	35mm, 9mm plywood panel	sq.m	1067.22	1067.22	1067.22
MT0453	40mm, 9mm plywood panel	sq.m	1074.48	1074.48	1074.48
Panelled Door, with single lock rail & stile					
MT0465	30mm, 12mm veneered particle board panel	sq.m	1520.97	1520.97	1520.97
MT0466	35mm, 12mm veneered particle board panel	sq.m	1525.81	1525.81	1525.81
MT0467	40mm, 12mm veneered particle board panel	sq.m	1528.23	1528.23	1528.23
MT0468	30mm, 12mm plywood panel	sq.m	1128.93	1128.93	1128.93
MT0469	35mm, 12mm plywood panel	sq.m	1131.35	1131.35	1131.35
MT0470	40mm, 12mm plywood panel	sq.m	1136.19	1136.19	1136.19
MT0471	30mm, 9mm plywood panel	sq.m	1087.79	1087.79	1087.79
MT0472	35mm, 9mm plywood panel	sq.m	1092.63	1092.63	1092.63
MT0473	40mm, 9mm plywood panel	sq.m	1098.68	1098.68	1098.68
Panelled Door, with double lock rail & stile					
MT0485	30mm, 12mm veneered particle board panel	sq.m	1537.31	1537.31	1537.31
MT0486	35mm, 12mm veneered particle board panel	sq.m	1570.58	1570.58	1570.58
MT0487	40mm, 12mm veneered particle board panel	sq.m	1574.21	1574.21	1574.21
MT0488	30mm, 12mm plywood panel	sq.m	1144.97	1144.97	1144.97
MT0489	35mm, 12mm plywood panel	sq.m	1147.39	1147.39	1147.39
MT0490	40mm, 12mm plywood panel	sq.m	1154.34	1154.34	1154.34
MT0491	30mm, 9mm plywood panel	sq.m	1101.41	1101.41	1101.41
MT0492	35mm, 9mm plywood panel	sq.m	1108.67	1108.67	1108.67
MT0493	40mm, 9mm plywood panel	sq.m	1118.35	1118.35	1118.35
Prefab. fully glazed window shutters, incl. 75mm rail with preservative & one primer coat, excluding glass					
MT0505	30mm	sq.m	579.59	579.59	579.59
MT0506	35mm	sq.m	589.27	589.27	589.27
MT0507	40mm	sq.m	594.11	594.11	594.11
Steel Doors and Windows					
MT0510	Steel door with necessary hinges, lugs, glazing clips	sq.m	1143.45	1143.45	1143.45
MT0511	Steel windows (fixed) with lugs and glazing clips	sq.m	363.00	363.00	363.00
MT0512	Steel windows (side hung) with hinges, lugs and glazing clips	sq.m	629.20	629.20	629.20
MT0513	Steel ventilators (top hung) with hinges, lugs and glazing clips.	sq.m	629.20	629.20	629.20
MT0514	Steel ventilators (centre hung) with pivots, lugs and glazing clips	sq.m	786.50	786.50	786.50
MT0515	Rolling shutters with all accessories, excluding top cover	sq.m	1069.64	1069.64	1069.64
MT0516	Top cover for Rolling shutter	m	435.60	435.60	435.60

Code	Description	Units	PL	GP	SJ
A l u m i n i u m					
Anodised Aluminium Fittings: Butt Hinges					
MT0530	100mm	each	50.00	55.00	47.00
MT0531	75mm	each	42.00	40.00	35.00
MT0532	50mm	each	30.00	35.00	20.00
Anodised Aluminium Fittings: Handles					
MT0540	150mm	each	27.00	35.00	30.00
MT0541	125mm	each	22.00	27.50	24.50
MT0542	100mm	each	18.00	22.50	19.00
MT0543	75mm	each	15.00	16.25	14.50
Anodised Aluminium Fittings: Hooks and Eyes					
MT0550	300mm	each	45.00	70.00	79.25
MT0551	200mm	each	32.00	50.00	40.00
MT0552	150mm	each	22.00	30.00	27.50
MT0553	100mm	each	18.00	20.00	17.75
Anodised Aluminium Fittings: Kicking Plate					
MT0560	4mm thick	sq.m	350.00	350.00	365.00
Anodised Aluminium Fittings: Sliding Door Bolts					
MT0565	300mm	each	151.25	148.33	160.00
MT0566	250mm	each	126.67	131.67	143.00
MT0567	200mm	each	115.00	125.00	122.00
Anodised Aluminium Fittings: Tower Bolts (Barrel Type)					
MT0570	200mm	each	46.25	72.50	56.00
MT0571	150mm	each	35.00	36.25	35.00
MT0572	100mm	each	23.50	28.75	25.60
B r a s s					
Bright finished brass: Butt Hinges					
MT0575	100mm	each	76.67	85.00	81.00
MT0576	75mm	each	63.33	75.00	52.25
MT0577	50mm	each	46.67	55.00	34.00
Bright finished brass: Handles					
MT0580	150mm	each	65.00	77.50	104.25
MT0581	125mm	each	51.67	55.00	80.00
MT0582	100mm	each	45.00	52.50	63.20
MT0583	75mm	each	36.67	45.00	47.40
Bright finished brass: Hooks and Eyes					
MT0590	150mm	each	47.50	60.00	65.00
MT0591	100mm	each	36.50	45.00	45.00
Bright finished brass: Sliding Door Bolts					
MT0595	300mm	each	510.00	502.50	610.00
MT0596	250mm	each	495.00	395.00	500.00
MT0597	200mm	each	440.00	370.00	450.00
Bright finished brass: Tower Bolts (Barrel Type)					
MT0600	250mm	each	160.00	155.00	152.50
MT0601	150mm	each	110.00	116.00	125.00
MT0602	100mm	each	80.00	91.67	76.00

Code	Description	Units	PL	GP	SJ
Door Closers/Stoppers					
MT0605	Bright finished brass: Door Stopper	each	100.00	102.00	112.00
MT0606	Bright finished brass: Mortise Latch 100mm	each	650.00	850.00	734.00
MT0607	brass, hinged, spring-loaded type	each	560.00	660.00	707.00
MT0608	brass, over-head, hydraulic type	each	780.00	905.00	950.00
Mild Steel					
Mild Steel: Butt Hinges					
MT0615	100mm	each	24.00	30.00	40.00
MT0616	75mm	each	19.75	25.00	26.00
MT0617	50mm	each	15.00	17.50	17.75
Mild Steel: Handles					
MT0620	150mm	each	32.50	33.33	45.00
MT0621	125mm	each	26.00	25.00	30.00
MT0622	100mm	each	22.00	20.00	25.00
MT0623	75mm	each	18.00	15.00	20.00
Mild Steel: Hooks and Eyes					
MT0630	300mm	each	50.00	65.00	65.00
MT0631	200mm	each	35.00	40.00	45.00
MT0632	150mm	each	20.00	20.00	25.00
MT0633	100mm	each	15.00	18.33	15.00
Mild Steel: Sliding Door Bolts					
MT0640	300mm	each	87.50	90.00	98.33
MT0641	250mm	each	77.50	87.50	85.00
MT0642	200mm	each	67.50	80.00	73.00
Mild Steel: Tower Bolts (Barrel Type)					
MT0645	250mm	each	40.00	50.00	63.50
MT0646	150mm	each	29.00	35.00	45.00
MT0647	100mm	each	22.67	31.67	30.00
MS Door Stopper					
MT0650	Mild Steel: Door Stopper	each	65.00	55.00	75.00
BASIC RATES - TILES & GLASS MATERIALS					
G l a s s					
Plain Glass					
MT0655	3mm thick	sq.m	415.00	400.00	388.37
MT0656	4mm thick	sq.m	415.00	409.03	450.48
MT0657	5.5mm thick	sq.m	590.00	595.00	609.89
Frosted Glass					
MT0660	3mm thick	sq.m	415.00	381.46	439.02
MT0661	5.5mm thick	sq.m	660.00	575.00	561.46

Code	Description	Units	PL	GP	SJ
Tiles					
Glazed tiles					
MT0665	white, 150 x 150mm	each	23.00	23.00	21.50
MT0666	extra, for regular colours	each	1.87	1.87	1.87
MT0667	extra, for special colours	each	2.42	2.42	2.42
MT0668	White, 300 x 300 mm	each	32.00	38.00	46.83
MT0669	White,200 x 200 mm	each	27.67	28.60	28.60
MT0670	White,200 x 100 mm	each	25.00	24.00	23.50
MT0671	White,100 x 100 mm	each	23.00	22.00	23.10
MT0672	Linoleum sheet, 2mm	sq.m	360.00	350.00	370.00
BASIC RATES - PLASTERING MATERIALS					
MT0685	Plaster of Paris	kg	20.00	25.00	25.00
BASIC RATES - PAINT & WALL PAPER MATERIALS					
Distemper & Distemper Primers					
MT0690	Dry Distemper	kg	65.60	71.88	74.67
MT0691	Acrylic washable distemper	kg	65.20	60.00	71.00
MT0692	Water proofing Cement paint	kg	46.22	48.00	55.00
Bhutanese Painting Materials					
MT0695	Mud Paint for Bhutanese traditional painting	kg	47.50	51.67	61.75
MT0696	Animal glue	kg	79.00	90.00	97.25
MT0697	Cloth for Bhutanese painting	sq.m	28.00	35.00	35.00
MT0698	Paper for Bhutanese painting	sq.m	30.00	45.00	40.00
MT0699	Colour powder(excluding gold powder)	kg	335.00	333.33	300.00
MT0700	Gold powder	kg	836.00	833.33	891.00
Primers					
MT0710	Cement primer	litre	144.57	146.45	155.00
MT0711	Synthetic red lead primer	litre	135.80	132.70	135.00
MT0712	Red oxide primer, for metals	litre	124.24	131.67	132.50
MT0713	White primer, for wood	litre	147.00	145.00	135.00
MT0714	Pink primer, for wood	litre	124.00	146.00	136.00
Finishing coat					
MT0720	Aluminium paint	litre	204.17	221.25	218.33
MT0721	Red Corrugal paint	litre	143.75	146.00	177.50
MT0722	Synthetic enamel paint	litre	161.90	171.25	187.60
MT0723	High gloss synthetic enamel	litre	197.88	170.88	195.00
MT0724	Acrylic emulsion	litre	218.30	245.00	265.00
MT0725	Vinyl plastic emulsion paint (for cement plaster)	litre	312.50	342.50	320.00
MT0726	Black\White bitumen enamel	litre	185.00	185.00	195.00
Stains - Varnish - Polish					
MT0730	Wood Stain (various colours)	litre	347.50	313.33	295.00
MT0731	Clear synthetic varnish	litre	212.27	207.50	254.00
MT0732	French Polish	litre	270.00	260.00	265.00
Wood Preservative					
MT0735	Wood preservative -Brown	litre	143.00	127.00	148.33
MT0736	Crude Coal Tar	litre	90.00	90.00	90.00

Code	Description	Units	PL	GP	SJ
Accessories					
MT0740	Putty	kg	53.28	50.00	50.00
Wall Paper					
Wall paper:					
MT0745	Standard	sq.m	310.00	310.00	305.00
MT0746	High Quality	sq.m	425.00	425.00	415.00
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	500.00	450.00	500.00
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	1900.00	1900.00	1900.00
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	7150.00	7150.00	7150.00
MT0753	C.I. manhole cover 400mm dia. inside, mosquito proof with locking arrangement (Wt of cover not less than 7kg).	each	700.00	700.00	700.00
Rain-water Pipes & Fittings					
Cast Iron					
MT0760	Pipe, 100mm dia.	m	1100.00	1210.00	1100.00
MT0761	Bend 100mm	each	285.00	301.00	285.00
MT0762	Head 100mm	each	260.00	266.00	260.00
MT0763	Offset 100mm, 75mm projection	each	378.00	336.00	318.00
MT0764	Offset 100mm, 150mm projection	each	565.00	579.00	615.00
MT0765	Shoe, 100mm	each	440.00	475.00	510.00
MT0766	Grating	each	146.00	155.00	158.00
R.C Non-Pressure pipe					
NP2 class					
MT0768	100 mm dia	m	354.12	354.12	354.12
MT0769	150 mm dia	m	385.49	385.49	385.49
MT0770	225mm dia	m	481.35	481.35	481.35
MT0771	300mm dia	m	601.99	601.99	601.99
MT0772	450mm dia	m	904.13	904.13	904.13
MT0773	600mm dia	m	1281.82	1281.82	1281.82
MT0774	750mm dia	m	1848.35	1848.35	1848.35
MT0775	900mm dia	m	2334.83	2334.83	2334.83
MT0776	1050mm dia	m	5017.90	5017.90	5017.90
MT0777	1200mm dia	m	7168.51	7168.51	7168.51
NP2 Class Collar					
MT0783	100 mm dia	each	56.71	57.28	57.56
MT0784	150 mm dia	each	61.62	62.23	62.55
MT0785	225mm dia	each	77.02	77.78	78.17
MT0786	300mm dia	each	117.83	119.01	119.61
MT0787	450mm dia	each	176.97	178.74	179.62
MT0788	600mm dia	each	250.89	253.40	254.66
MT0789	750mm dia	each	361.77	365.39	367.20
MT0790	900mm dia	each	408.87	408.87	408.87
MT0791	1050mm dia	each	572.88	572.88	572.88
MT0792	1200mm dia	each	756.76	756.76	756.76

Code	Description	Units	PL	GP	SJ
Stoneware Pipe Specials					
Stoneware pipes 60 cm long					
MT0795	100mm dia	each	127.05	128.32	128.96
MT0796	150mm dia	each	282.98	285.81	287.22
MT0797	200mm dia	each	496.65	501.62	504.11
MT0778	230mm dia	each	607.53	613.61	616.64
MT0779	250mm dia	each	681.45	688.26	691.68
MT0780	300mm dia	each	843.15	851.58	855.80
MT0781	350mm dia	each	1010.63	1020.74	1025.79
MT0782	400mm dia	each	1183.88	1195.72	1201.63
MT0793	500mm dia	each	1553.48	1569.02	1576.77
MT0794	600mm dia	each	1865.33	1883.98	1893.31
S\W trap - P Type					
MT0800	100 x 100mm	each	103.95	104.99	105.51
MT0801	150 x 100mm	each	117.81	118.99	119.57
MT0802	180 x 150mm	each	150.15	151.65	152.41
BASIC RATES - PLUMBING (PIPEWORK)					
Water Supply Pipes					
G.I pipe					
MT0805	15mm	m	88.30	112.67	118.29
MT0806	20mm	m	116.20	159.78	148.67
MT0807	25mm	m	172.77	207.01	205.38
MT0808	32mm	m	224.17	278.34	294.17
MT0809	40mm	m	256.63	330.00	334.28
MT0810	50mm	m	337.83	424.43	404.96
MT0811	65mm	m	420.04	510.00	512.78
MT0812	80mm	m	585.00	650.00	657.92
MT0813	100mm	m	770.00	877.00	975.00
MT0814	150mm	m	1207.09	1550.00	1611.92
H.D.P.E pressure class 10kg/sq.cm					
MT0817	20mm	m	17.85	24.50	23.01
MT0818	25mm	m	31.95	33.95	34.33
MT0819	32mm	m	52.55	58.50	49.25
MT0820	40mm	m	79.20	125.00	75.00
MT0821	50mm	m	126.45	157.00	135.50
MT0822	63mm	m	199.35	216.25	213.50
MT0823	75mm	m	282.50	305.00	304.50
MT0824	90mm	m	404.50	428.75	392.50
MT0825	110mm	m	601.05	635.00	617.50
MT0826	140mm	m	871.95	1065.00	975.00
MT0827	160mm	m	1116.00	1380.00	1395.00
MT0828	225mm	m	2209.00	2780.00	2505.00
H.D.P.E Pipes of pressure class 6kg/sq.cm					
MT0830	32mm	m	29.97	45.00	44.50
MT0831	40mm	m	52.15	70.00	69.50
MT0832	50mm	m	81.00	95.00	89.50
MT0833	63mm	m	126.00	133.50	142.50
MT0834	75mm	m	178.15	185.00	200.00
MT0835	90mm	m	252.00	203.50	298.00
MT0836	110mm	m	378.00	372.50	378.50
MT0837	140mm	m	606.45	650.00	695.00
MT0838	160mm	m	792.00	832.00	805.00
MT0839	225mm	m	1555.15	1687.50	1600.00

Code	Description	Units	PL	GP	SJ
H.D.P.E Pipes of pressure class 4kg/sq.cm					
MT0841	40mm	m	44.00	55.00	49.28
MT0842	50mm	m	66.45	72.50	65.00
MT0843	63mm	m	90.00	102.50	95.29
MT0844	75mm	m	122.30	135.00	130.50
MT0845	90mm	m	178.15	191.50	186.00
MT0846	110mm	m	266.30	282.50	272.50
MT0847	140mm	m	423.00	512.50	430.00
MT0848	160mm	m	554.30	645.00	576.00
MT0849	225mm	m	1083.45	1215.00	1150.00
H.D.P.E Pipes of pressure class 2.5kg/sq.cm					
MT0852	110mm	m	171.00	198.00	200.50
MT0853	140mm	m	280.40	350.00	345.50
MT0854	160mm	m	363.30	423.00	414.00
MT0855	225mm	m	702.00	828.00	858.00
Ductile Iron Pipes - Class K9					
MT0856	80 mm	m	910.64	910.64	910.64
MT0857	100 mm	m	1059.68	1059.68	1059.68
MT0858	150 mm	m	1543.58	1543.58	1543.58
MT0859	200 mm	m	2125.43	2125.43	2125.43
MT0860	250 mm	m	2824.68	2824.68	2824.68
MT0861	300 mm	m	3570.03	3570.03	3570.03
MT0862	350 mm	m	4477.08	4477.08	4477.08
MT0863	400 mm	m	5326.68	5326.68	5326.68
MT0864	450 mm	m	6285.22	6285.22	6285.22
MT0865	500 mm	m	7366.19	7366.19	7366.19
MT0866	600 mm	m	10103.21	10103.21	10103.21
Ductile Iron Pipes - Class K7					
MT0871	100 mm	m	896.10	896.1	896.10
MT0872	150 mm	m	1389.40	1389.4	1389.40
MT0873	200 mm	m	1827.13	1827.13	1827.13
MT0874	250 mm	m	2406.78	2406.775	2406.78
MT0875	300 mm	m	3014.65	3014.65	3014.65
MT0876	350 mm	m	3796.88	3796.875	3796.88
MT0877	400 mm	m	4506.95	4506.95	4506.95
MT0878	450 mm	m	5270.46	5270.455	5270.46
MT0879	500 mm	m	6218.00	6218	6218.00
MT0880	600 mm	m	8430.36	8430.355	8430.36
Ductile Iron Pipes K-9 Double Flanged					
MT0882	100 mm	m	1806.00	1806.00	1806.00
MT0883	150 mm	m	2604.00	2604.00	2604.00
MT0884	200 mm	m	3664.50	3664.50	3664.50
MT0885	250 mm	m	4819.50	4819.50	4819.50
MT0886	300 mm	m	5974.50	5974.50	5974.50
MT0887	350 mm	m	7402.50	7402.50	7402.50
MT0888	400 mm	m	8872.50	8872.50	8872.50
MT0889	450 mm	m	11970.00	11970.00	11970.00
MT0890	500 mm	m	14070.00	14070.00	14070.00
MT0891	600 mm	m	18322.50	18322.50	18322.50

Code	Description	Units	PL	GP	SJ
Pipe Fittings					
H.D.P.E welded-type fittings					
MT0895	TEE, 20mm	each	40.37	47.25	32.21
MT0896	TEE, 25mm	each	54.74	68.25	44.76
MT0897	TEE, 32mm	each	87.81	99.75	69.49
MT0898	TEE, 50mm	each	198.45	162.75	139.18
MT0899	TEE, 63mm	each	122.85	283.50	258.09
MT0900	TEE, 90mm	each	346.50	404.25	363.72
MT0901	TEE, 110mm	each	472.50	661.50	632.89
MT0902	TEE, 160mm	each	1575.00	2068.50	2472.44
MT0903	Elbow, 32mm	each	26.78	89.25	51.40
MT0904	Elbow, 50mm	each	75.60	299.25	107.87
MT0905	Elbow, 63mm	each	102.38	330.75	200.16
MT0906	Elbow, 90mm	each	307.13	341.25	280.67
MT0907	Elbow, 110mm	each	409.50	399.00	509.51
MT0908	Reducer, 90 x 50mm	each	210.00	231.00	241.50
MT0909	Reducer, 90 x 63mm	each	215.25	236.78	247.54
MT0910	Reducer, 110 x 63mm	each	215.25	236.78	247.54
MT0911	Reducer, 160 x 90mm	each	619.50	681.45	712.43
MT0912	Blank end, 50mm	each	101.85	112.04	117.13
MT0913	Blank end, 63mm	each	131.25	144.38	150.94
MT0914	Blank end, 90mm	each	255.15	280.67	293.42
MT0915	Blank end, 110mm	each	294.00	323.40	338.10
MT0916	Blank end, 160mm	each	504.00	554.40	579.60
M.I. Fittings Union					
MT0921	32mm	each	156.00	148.00	162.50
MT0922	40mm	each	212.25	225.00	250.00
Brass Fittings Bibcock					
MT0925	15mm	each	190.00	217.00	195.00
Stopcock					
MT0930	15mm nom-bore	each	291.50	280.00	275.00
MT0931	20mm nom-bore	each	325.00	280.00	305.00
MT0932	25mm nom-bore	each	410.00	390.00	435.00
Wheel valve					
MT0940	32mm nom-bore	each	792.28	819.00	944.25
MT0941	40mm nom-bore	each	1130.72	1134.00	1316.25
MT0942	50mm nom-bore	each	1663.50	1942.50	1807.00
MT0943	65mm nom-bore	each	2055.00	3412.50	2890.00
MT0944	80mm nom-bore	each	2738.00	3937.50	3825.00
Non return valve					
MT0951	50mm nom-bore	each	1580.00	1484.00	1564.50
MT0952	65mm nom-bore	each	2489.00	2625.00	2703.23
MT0953	80mm nom-bore	each	3690.00	3465.00	3512.25
Rubber Gasket of S.B.R Quality					
MT0960	80 mm	each	55.00	52.92	52.92
MT0961	100 mm	each	60.00	61.80	61.80
MT0962	150 mm	each	90.00	93.74	93.74
MT0963	200 mm	each	150.00	149.88	149.88
MT0964	250 mm	each	185.00	195.24	195.24
MT0965	300 mm	each	265.00	277.83	277.83
MT0966	350 mm	each	300.00	309.96	309.96
MT0967	400 mm	each	415.00	432.81	432.81
MT0968	450 mm	each	450.00	464.94	464.94
MT0969	500 mm	each	490.00	508.41	508.41
MT0970	600 mm	each	830.00	873.18	873.18

Code	Description	Units	PL	GP	SJ
Waste-water Pipework					
Cast Iron Pipes, Single Socketted, 1.83m long					
MT0975	50mm	each	603.75	472.50	545.00
MT0976	75mm	each	738.00	955.50	746.00
MT0977	100mm	each	953.00	1244.25	1035.00
MT0978	150mm	each	1515.00	1774.50	1625.00
Plain bend					
MT0985	50mm	each	160.00	178.50	175.88
MT0986	75mm	each	180.00	189.00	199.50
MT0987	100mm	each	298.00	299.25	312.38
Door bend					
MT0990	50mm	each	210.00	215.00	220.00
MT0991	75mm	each	222.00	290.00	305.00
MT0992	100mm	each	290.00	313.00	398.75
Collar					
MT1000	50mm	each	124.00	157.50	168.00
MT1001	75mm	each	168.00	199.50	199.50
MT1002	100mm	each	227.00	320.25	341.25
Heel rest bend					
MT1010	50mm	each	128.00	129.00	187.50
MT1011	75mm	each	262.00	265.00	240.00
MT1012	100mm	each	333.00	394.00	340.00
Single equal junction - plain					
MT1020	50mm	each	220.50	215.00	215.00
MT1021	75mm	each	330.75	305.00	290.00
MT1022	100mm	each	451.50	390.00	470.00
Single equal junction, door					
MT1030	50mm	each	178.50	185.33	190.00
MT1031	75mm	each	226.80	222.60	240.00
MT1032	100mm	each	309.75	320.25	390.00
MT1033	150mm	each	330.75	409.50	490.00
Double equal junction, plain					
MT1040	50mm	each	304.50	215.25	231.00
MT1041	75mm	each	381.15	257.25	273.00
MT1042	100mm	each	571.20	514.50	582.75
Double equal junction, door					
MT1050	50mm	each	263.55	236.25	231.00
MT1051	75mm	each	337.58	283.50	273.00
MT1052	100mm	each	443.10	409.50	485.63
Single unequal junction, plain					
MT1060	75 x 50mm	each	220.50	229.95	230.00
MT1061	100 x 50mm	each	288.75	299.25	304.00
MT1062	100 x 75mm	each	336.00	342.30	342.00
Single unequal junction, door					
MT1070	75 x 50mm	each	236.78	242.03	252.00
MT1071	100 x 50mm	each	362.25	362.25	378.00
MT1072	100 x 75mm	each	385.35	394.80	401.63

Code	Description	Units	PL	GP	SJ
Double unequal junction, plain					
MT1080	100 x 50	each	325.50	325.00	341.25
MT1081	100 x 75	each	378.00	364.00	388.50
Double unequal junction, door					
MT1085	100 x 50	each	341.25	328.00	357.00
MT1086	100 x 75	each	388.50	375.00	409.50
Single equal Y-Junction					
MT1090	50mm	each	199.50	165.00	220.50
MT1091	75mm	each	385.35	359.00	252.00
MT1092	100mm	each	535.50	501.00	472.50
Double equal Y-Junction					
MT1100	50mm	each	304.50	273.00	252.00
MT1101	75mm	each	426.30	336.00	309.75
MT1102	100mm	each	571.20	509.25	364.35
Single unequal invert branch					
MT1110	75 x 50mm	each	286.00	294.00	307.65
MT1111	100 x 50mm	each	390.00	403.20	416.85
Offsets 50mm dia offset					
MT1115	with 75mm projection	each	287.00	250.00	231.00
MT1116	with 150mm projection	each	397.00	401.00	414.75
75mm dia offset					
MT1120	with 75mm projection	each	265.00	270.00	288.75
MT1121	with 150mm projection	each	375.00	372.00	393.75
100mm dia offset					
MT1125	with 75mm projection	each	320.00	314.00	288.75
MT1126	with 150mm projection	each	390.00	389.00	393.75
Terminal Guard					
MT1130	50mm	each	126.00	131.25	183.40
MT1131	75mm	each	210.00	222.60	255.19
MT1132	100mm	each	320.25	315.00	314.40
MT1133	150mm	each	567.00	567.00	505.66
P-type Nahani Trap					
MT1140	100mm inlet & 50mm outlet	each	155.00	215.00	270.38
MT1141	100mm inlet & 75mm outlet	each	354.00	329.00	354.38
MT1142	C.I. P-trap 100mm	each	480.00	455.00	448.88
Jointing Materials					
MT1145	Pig lead	kg	95.55	102.90	110.25
P.V.C Pipes & fittings (Soil Waste and Vent)					
Pipes, Single Socketed 1.83 m long					
MT1150	75mm	each	232.50	210.00	209.00
MT1151	90mm	each	348.75	310.00	290.00
MT1152	110mm	each	409.50	392.50	405.00
Pipes, Single Socketed 3.00 m long					
MT1160	75mm	each	351.33	325.00	352.50
MT1161	90mm	each	493.13	550.00	437.50
MT1162	110mm	each	630.00	600.00	485.00

Code	Description	Units	PL	GP	SJ
Pipes, Doubled Socketed 1.83 m long					
MT1170	75mm	each	245.13	240.00	241.50
MT1171	90mm	each	371.25	375.00	371.28
MT1172	110mm	each	443.92	460.00	441.00
Pipes, Doubled Socketed 1.20 m long					
MT1180	75mm	each	176.75	192.00	175.00
MT1181	90mm	each	255.00	305.00	300.00
MT1182	110mm	each	319.67	359.50	350.00
Pipe Connector					
MT1190	110mm	each	175.00	187.50	190.00
Reducer					
MT1195	90x75mm	each	92.31	118.00	95.00
MT1196	110x75mm	each	98.00	120.00	125.00
MT1197	110x90mm	each	118.38	160.00	150.00
Coupler					
MT1205	75mm	each	60.00	71.67	65.00
MT1206	90mm	each	77.00	80.00	80.00
MT1207	110mm	each	77.75	95.00	87.50
Plain bend					
MT1215	75mm	each	73.00	80.00	95.00
MT1216	90mm	each	104.00	110.00	130.00
MT1217	110mm	each	118.00	130.00	145.00
Door bend					
MT1225	75mm	each	99.00	105.00	115.00
MT1226	90mm	each	122.50	140.00	145.00
MT1227	110mm	each	151.00	165.00	143.75
Long Arm Bend					
MT1235	75mm	each	170.00	180.00	215.00
MT1236	90mm	each	250.00	260.00	300.00
MT1237	110mm	each	340.00	340.00	355.00
Plain Shoe					
MT1239	75mm	each	110.00	115.50	115.00
MT1240	90mm	each	130.00	141.75	140.00
MT1241	110mm	each	160.00	168.00	170.00
Single Tee, Plain					
MT1245	75mm	each	89.00	105.00	75.00
MT1246	90mm	each	123.19	155.00	130.00
MT1247	110mm	each	157.50	170.00	135.00
Single Tee, With Door					
MT1255	75mm	each	97.00	115.00	102.50
MT1256	90mm	each	142.13	145.00	135.00
MT1257	110mm	each	185.00	185.00	165.00
Double Tee, Plain					
MT1265	75mm	each	154.33	140.00	199.00
MT1266	90mm	each	230.00	210.00	233.00
MT1267	110mm	each	286.56	240.00	306.33

Code	Description	Units	PL	GP	SJ
Double Tee, With Door					
MT1275	75mm	each	247.00	275.00	218.00
MT1276	90mm	each	295.50	365.00	229.00
MT1277	110mm	each	313.50	415.00	316.67
Single Y, Plain					
MT1285	75mm	each	118.00	142.50	147.50
MT1286	90mm	each	152.25	250.00	225.00
MT1287	110mm	each	215.00	275.00	247.50
Single Y, With Door					
MT1295	75mm	each	147.00	185.00	188.33
MT1296	90mm	each	185.00	270.00	238.33
MT1297	110mm	each	263.00	330.00	276.67
Double Y, Plain					
MT1305	75mm	each	190.00	250.00	217.50
MT1306	90mm	each	287.00	350.00	295.00
MT1307	110mm	each	290.00	350.00	325.00
Double Y, With Door					
MT1315	75mm	each	236.00	265.00	258.33
MT1316	90mm	each	261.38	336.00	311.67
MT1317	110mm	each	368.00	400.00	349.33
Seal Ring					
MT1320	75 mm	each	36.67	40.00	35.00
MT1321	90 mm	each	50.00	47.00	50.00
MT1322	110 mm	each	60.00	55.00	60.00
75mm dia. offset					
MT1325	With 75mm projection	each	197.63	200.00	220.00
MT1326	With 150mm projection	each	267.83	290.00	265.00
90mm dia. offset					
MT1330	With 75mm projection	each	310.00	330.00	250.00
MT1331	With 150mm projection	each	441.00	410.00	410.00
110mm dia. offset					
MT1335	With 75mm projection	each	310.25	370.00	255.00
MT1336	With 150mm projection	each	340.63	415.00	320.00
Terminal Guard					
MT1340	75mm	each	80.00	90.00	90.00
MT1341	90mm	each	90.00	105.00	100.00
MT1342	110mm	each	95.00	110.00	110.00
Nahani Trap					
MT1345	100mm inlet & 75mm outlet	each	130.33	135.00	178.00
P-Trap without air vent					
MT1350	Big	each	335.33	415.00	410.00
MT1351	Small	each	327.67	370.00	350.00

Code	Description	Units	PL	GP	SJ
BASIC RATES - PLUMBING (Sanitary Installation, Fittings & accessories)					
B a t h s					
MT1355	Porcelain bath tub, white enamelled, 1700x740x440mm	each	14200.00	14700.00	15500.00
MT1356	Fibreglass bath tub	each	11800.00	13000.00	12550.00
B a s i n s, S i n k s					
Flat-back wash basin, white vitreous					
MT1360	630 x 450mm	each	1643.33	1490.00	1750.00
MT1361	550 x 400mm	each	845.00	790.00	800.00
Angle back wash basin					
MT1365	400mm x 400mm, white vitreous china	each	750.00	850.00	837.50
Pedestal for wash basin					
MT1370	white vitreous china	each	1175.00	1215.00	1450.00
Sinks White glazed vitreous China					
MT1375	600 x 450 x 250	each	2800.00	3350.00	3500.00
Stainless Steel Kitchen Sinks					
MT1380	single bowl, 450 x 400 x 150mm	each	750.00	850.00	950.00
MT1381	single bowl, 580 x 480 x 175mm	each	1000.00	1000.00	1200.00
MT1382	single bowl & drain-board, 940 x 460 x 160mm	each	1160.00	1250.00	1350.00
MT1383	single bowl & drain-board, 1080 x 520 x 175mm	each	1580.00	2050.00	1850.00
MT1384	single bowl & drain-board, 1150 x 515 x 175mm	each	1800.00	2175.00	1900.00
MT1385	single bowl & double drain-board, 1740 x 520 x 200mm	each	2300.00	2500.00	2500.00
MT1386	double bowl, 940 x 460 x 160mm	each	1375.00	1326.00	1390.00
MT1387	double bowl, 1150 x 520 x 150mm	each	1600.00	1878.00	1800.00
MT1388	double bowl & single drain-board, 1740 x 520 x 200mm	each	3230.00	3010.00	3357.00
MT1389	double bowl & double drain-board, 1740 x 520 x 165mm	each	3500.00	3500.00	3500.00
MT1390	single drain-board, 610 x 460mm	each	725.00	950.00	1225.00
W.C P a n s					
W.C. P a n s					
MT1400	Vitreous China European - white	each	1180.00	1232.50	1480.00
MT1401	Vitreous China European - colour	each	1616.67	1925.00	2000.00
MT1402	Vitreous China Indian type - 500mm, white	each	574.00	530.00	600.00
MT1403	Vitreous China Indian type - 580mm Orissa, white	each	1220.00	1250.00	1300.00
MT1404	Vitreous China Indian type - 580mm Orissa, colour	each	1881.67	1960.00	1900.00
MT1405	Plastic seat & lid for European pan	each	498.75	530.00	500.00
MT1406	Vitreous China Footrests (250 x 130 x 30), for Indian pan	pair	130.00	120.00	110.00
C i s t e r n s					
C.I. Automatic flushing Cistern with fittings					
MT1420	5 litres	each	1450.00	1300.00	1543.00
MT1421	10 litres	each	1650.00	1800.00	1913.00
MT1422	12.5 litres	each	1950.00	2000.00	2010.00
Vitreous China cistern - low level, incl. fittings & flush-bend					
MT1430	10 litres, white	each	1370.00	1235.00	1750.00
MT1431	10 litres, colour	each	2095.00	2700.00	2800.00
F l o a t V a l v e					
MT1440	15mm ball valve with plastic float	each	320.00	280.00	352.50

Code	Description	Units	PL	GP	SJ
Urinals					
MT1445	White vitreous China flat-back lipped-front type urinals, 430 x 260 x 350mm	each	750.00	800.00	1050.00
Flush fittings					
MT1450	c.p flush valve, 32mm	each	1060.50	1045.45	1048.54
MT1451	c.p flush valve, 32mm, concealed	each	1210.65	1194.80	1204.07
MT1452	c.p flush bend, long	each	435.75	432.60	463.50
MT1453	c.p flush valve elbow	each	367.50	365.65	375.95
C.p Cocks & Spouts					
MT1460	15mm pillar cock	each	488.50	370.00	380.00
MT1461	15mm pillar cock, swan neck, c.p knob	each	1088.00	600.00	625.00
MT1462	15mm pillar cock, aerator, c.p knob	each	560.00	700.00	625.00
MT1463	20mm pillar cock (for bath)	each	500.00	600.00	650.00
MT1464	15mm bib cock, vert, c.p knob	each	498.00	393.33	410.00
MT1465	15mm bib cock, inclined, c.p knob	each	530.00	370.00	625.00
MT1466	15mm bib cock, long nose, c.p knob	each	575.00	465.00	625.00
MT1467	15mm bib cock, long body, c.p knob	each	588.00	500.00	631.00
MT1468	15mm stop cock, c.p knob	each	445.33	408.33	584.00
MT1469	20mm stop cock, c.p knob	each	575.00	440.00	650.00
MT1470	15mm stop cock, concealed, c.p knob	each	724.67	527.50	812.00
MT1471	15mm stop cock, H\D concealed, c.p knob	each	680.00	580.00	795.00
MT1472	20mm stop cock, H\D concealed, c.p knob	each	699.00	580.00	937.50
MT1473	15mm angle stop cock, c.p knob	each	450.00	441.67	350.00
MT1474	Wall spout, std, 15mm	each	450.00	440.00	450.00
MT1475	Wall spout, w/o diverter, used with single-lever mixers	each	650.00	700.00	654.00
MT1476	Wall spout, with diverter, used with single-lever mixers	each	890.00	895.00	900.00
C.p Brass Shower fittings for 15 to 20mm inlet					
MT1510	rose, 100mm dia	each	950.00	650.00	697.50
MT1511	rose, 150mm dia	each	1050.00	750.00	925.00
MT1512	shower, with flex tube	each	810.00	876.00	950.00
MT1513	shower, revolving joint	each	550.00	505.00	475.00
MT1514	shower, adjustable with locking key	each	670.00	750.00	737.50
MT1515	shower arm, 15mm	each	500.00	350.00	495.00
MT1516	shower arm, 15mm, heavy duty	each	310.00	350.00	427.00
C.p Mixers					
MT1530	basin, single-hole, casted spout, 15mm	each	1900.00	1850.00	1900.00
MT1531	basin, close-hole, 15mm	each	1620.00	1500.00	1650.00
MT1532	sink, with spout J pipe, 15mm	each	1350.00	1350.00	1550.00
MT1533	sink, with casted spout swinging, 15mm	each	1250.00	1250.00	1340.00
MT1534	wall, non-telephonic type, 15mm	each	2138.67	2134.00	2250.00
MT1535	wall, telephonic type with crutch and tel. shower, 15mm	each	2644.00	2500.00	2950.00
MT1536	wall, telephonic type without crutch and tel. shower, 15mm	each	2700.00	2850.00	3000.00
MT1537	wall, telephonic type with crutch and without tel. shower, 15mm	each	2200.00	1940.00	2100.00
MT1538	wall, telephonic type with C.P bend & flanges, 15mm	each	1550.00	1200.00	1320.00
MT1539	Three hole mixer without pop-up, 15mm	each	2600.00	2487.00	2500.00
MT1540	Three hole mixer with pop-up, 15mm	each	3589.00	3510.00	3500.00
MT1541	basin, elbow action, surgical, 15mm	each	2100.00	2100.00	2200.00
MT1542	basin, elbow action, surgical with shower, 15mm	each	2400.00	2250.00	2400.00
MT1543	bath, with exposed adjustable legs with telephone shower arrangement with crutch, 15mm	each	2800.00	2800.00	2876.00
MT1544	wall, with telephonic shower arrangement with 115mm long bend pipe for over head shower connection, 15mm	each	140.00	153.00	180.00
MT1545	shower, three in one, with bend flexible tube, and shower & hook, 15mm	each	1350.00	1350.00	1400.00
MT1546	sink, with swivel spout, 15mm	each	700.00	700.00	750.00

Code	Description	Units	PL	GP	SJ
Traps, c.p					
MT1580	32mm	each	576.00	475.00	476.00
MT1581	for bath	each	74.00	95.00	85.00
Bathroom Accessories					
Brackets					
MT1585	R.S. or C.I.Brackets	pair	110.00	130.00	130.00
C.p. brass waste					
MT1590	32mm	each	165.00	190.00	195.00
MT1591	40mm	each	240.00	247.00	232.50
PVC waste					
MT1595	32mm	each	70.00	65.00	80.00
C.p. brass chain with plug					
MT1600	32mm	each	100.00	110.00	145.00
MT1601	40mm	each	110.00	120.00	165.00
Soap Containers					
MT1605	c.p brass with bracket	each	290.00	235.00	215.00
MT1606	c.p Liquid Soap Container	each	400.00	404.00	395.00
MT1607	Recessed ceramic, 200 x 100mm	each	270.00	250.00	250.00
MT1608	Recessed ceramic, 150 x 150mm	each	175.00	185.00	180.00
C.p Towel Rails					
MT1615	20mm x 450mm	each	340.00	325.00	365.00
MT1616	20mm x 600mm	each	390.00	365.00	450.00
MT1617	20mm x 750mm	each	420.00	420.00	550.00
MT1618	C.p Towel Ring	each	310.00	306.67	312.50
C.p Coat Hooks					
MT1625	single	each	160.00	190.00	150.00
MT1626	double	each	250.00	230.00	210.00
Glass self/Mirror					
MT1630	Glass Shelf	each	370.00	400.00	475.00
MT1631	Mirror (Bevelled edge) 600mm x 450mm	each	650.00	650.00	650.00
Toilet paper holders					
MT1635	C.P. brass	each	327.50	312.50	345.00
MT1636	recessed ceramic (white), 200 x 100mm	each	670.00	650.00	580.00
MT1637	recessed ceramic (coloured), 200 x 100mm	each	730.00	700.00	600.00
MT1638	recessed ceramic (roll-type), 150 x 150mm	each	640.00	640.00	565.00
Electric Water Heater					
Electric Water Heaters					
MT1645	10 litres, vertical	each	5625.00	6640.00	5700.00
MT1646	15 litres, vertical	each	6225.00	6690.71	6100.00
MT1647	25 litres, vertical	each	7200.00	7560.00	7030.00
MT1648	35 litres, vertical	each	8975.00	8925.00	8350.00
MT1649	50 litres, vertical	each	10950.00	11828.30	12600.00
MT1650	75 litres, vertical	each	14744.66	14469.00	14400.00
MT1651	100 litres, vertical	each	17875.00	19372.50	19995.00

Code	Description	Units	PL	GP	SJ
Water Storage Tanks					
H.D.P.E water storage tank					
MT1665	270 litres	each	1890.00	2003.33	1912.50
MT1666	500 litres	each	3500.00	3666.67	3695.00
MT1667	1000 litres	each	6200.00	7266.67	7625.00
MT1668	2000 litres	each	12400.00	14500.00	15231.25
MT1669	3000 litres	each	18600.00	21833.33	19945.00

Code	Description	Units	PL	GP	SJ
Chapter 17B: MACHINERY AND PLANT HIRE CHARGES					
Machinery and Plant Hire Charges (CDCL - July 2012)					
MP0100	Air Compressor(KG)	day	4624.00	4624.00	4624.00
MP0101	Air Compressor(P - 300)	day	5064.00	5064.00	5064.00
MP0102	Air Compressor(XAM140)	day	4784.00	4784.00	4784.00
MP0103	Air Compressor(VT/6)	day	4336.00	4336.00	4336.00
MP0104	Air Compressor(VT/250)	day	3912.00	3912.00	3912.00
MP0105	Bull Dozer(CAT D4H)	day	11816.00	11816.00	11816.00
MP0106	Bull Dozer(CAT D6D)	day	13888.00	13888.00	13888.00
MP0107	Bull Dozer(D7G)	day	14240.00	14240.00	14240.00
MP0108	Bull Dozer(TD12E)	day	13232.00	13232.00	13232.00
MP0109	Bull Dozer(CAT - D5M XL)	day	13792.00	13792.00	13792.00
MP0110	Bull Dozer(CAT D4G)	day	12096.00	12096.00	12096.00
MP0111	Asphalt Pave, Hanta	day	7216.00	7216.00	7216.00
MP0112	Bitumen Heating/Storage Tank - 12000 litres	day	3824.00	3824.00	3824.00
MP0113	Bitumen Heating/Storage Tank - 4000 litres	day	3520.00	3520.00	3520.00
MP0114	Compactor, Plate Type	day	1088.00	1088.00	1088.00
MP0115	Crane (Kato, KR - 250)	day	20128.00	20128.00	20128.00
MP0116	Chips spreader	day	744.00	744.00	744.00
MP0117	Motor Grader(MG -330)	day	11320.00	11320.00	11320.00
MP0118	Spot Mix Plant, 10/16 TPH	day	15600.00	15600.00	15600.00
MP0119	Spot Mix Plant, 6/10 TPH	day	8856.00	8856.00	8856.00
MP0120	Excavator(PC - 200)	day	14048.00	14048.00	14048.00
MP0121	Excavator(PC - 120)	day	11360.00	11360.00	11360.00
MP0122	Excavator (PC60)	day	7112.00	7112.00	7112.00
MP0123	Excavator CAT 312B	day	11496.00	11496.00	11496.00
MP0124	Excavator CAT 320	day	14320.00	14320.00	14320.00
MP0125	Water Pump - KUBOTA	day	1016.00	1016.00	1016.00
MP0126	Backhoe Loader (CASE 580 Super M)	day	8624.00	8624.00	8624.00
MP0127	Backhoe Loader (CAT 416)	day	7416.00	7416.00	7416.00
MP0128	Pay Loader (IH 510B)	day	9264.00	9264.00	9264.00
MP0129	Pay Loader (IH 515B)	day	9680.00	9680.00	9680.00
MP0130	Pay Loader (CAT 916)	day	9664.00	9664.00	9664.00
MP0131	Pay Loader (CAT 926E)	day	10232.00	10232.00	10232.00
MP0132	Pay Loader (CAT 930)	day	12352.00	12352.00	12352.00
MP0133	Pay Loader (CAT 928F)	day	12312.00	12312.00	12312.00
MP0134	Road Broom (Mechanical), 2595 x 1220 x 965	day	600.00	600.00	600.00
MP0135	Road Roller (10 tonnes, BRITANIA)	day	3696.00	3696.00	3696.00
MP0136	RoadRoller (10 tonnes, JAYPEE)	day	2080.00	2080.00	2080.00
MP0137	Road Roller (8 tonnes, JESSOP)	day	2904.00	2904.00	2904.00
MP0138	Road Roller (8 tonnes, Speed Craft)	day	3568.00	3568.00	3568.00
MP0139	Road Roller (Pneumatic Tyre) TS -300	day	9880.00	9880.00	9880.00
MP0140	Road Roller (SV91 Sakai)	day	9680.00	9680.00	9680.00
MP0141	Concrete Pump	day	3120.00	3120.00	3120.00
MP0142	Concrete /Grout Pump, P -88	day	8784.00	8784.00	8784.00
MP0143	Core Drill Machine, TS190R -S	day	18144.00	18144.00	18144.00
MP0144	Fork Lift - Toyota	day	2704.00	2704.00	2704.00
MP0145	Tanker (NISSAN)	day	4680.00	4680.00	4680.00
MP0146	Tanker (TATA)	day	4496.00	4496.00	4496.00
MP0147	Canter Tipper, Mitsubishi	day	3280.00	3280.00	3280.00
MP0148	Tata LB (1210SE)	day	4176.00	4176.00	4176.00
MP0149	Tata LB (1612SE)	day	4304.00	4304.00	4304.00
MP0150	Canter Tipper, Long Body, FE444E(Nissan)	day	3424.00	3424.00	3424.00
MP0151	Tripper(Hino), 172 KD	day	4360.00	4360.00	4360.00
MP0152	ISUZU Truck	day	5720.00	5720.00	5720.00
MP0153	Tractor with Trailer, Toyota	day	3328.00	3328.00	3328.00
MP0154	Trailer(HINO 25 MT)	day	20656.00	20656.00	20656.00
MP0155	Road Brush Head, Sweetper	day	648.00	648.00	648.00
MP0156	Rock Breaker	day	4680.00	4680.00	4680.00
MP0157	Asphalt/Bitumen heating Kettle, India Make	day	3056.00	3056.00	3056.00
MP0158	Jack Hammer	day	448.00	448.00	448.00

Code	Description	Units	PL	GP	SJ
MP0159	Asphalt/Bitumen heating Kettle, Japan Make	day	6592.00	6592.00	6592.00
MP0160	Explosive Van, FE1210	day	4984.00	4984.00	4984.00
MP0161	Daewoo Dumper/Tipper	day	4880.00	4880.00	4880.00
MP0162	Lubricating/Service Van, ISUZU	day	4928.00	4928.00	4928.00
MP0163	Lubricating/Service Van, TATA	day	4600.00	4600.00	4600.00
MP0164	Mini-Dumper, TATA	day	1552.00	1552.00	1552.00
MP0165	Nissan Dumper/Tipper CKA12HHT (10 MT)	day	5024.00	5024.00	5024.00
MP0166	Nissan Dumper/Tipper CKA12HHT (8 MT)	day	4768.00	4768.00	4768.00
MP0167	Side Dump Truck	day	2520.00	2520.00	2520.00
MP0168	TATA Tipper, 1612 SE	day	4080.00	4080.00	4080.00
MP0169	TATA Mini Truck, 407	day	2752.00	2752.00	2752.00
MP0170	Trailer CPB12E16772, NISSAN 10MT	day	8688.00	8688.00	8688.00
MP0171	Trailer Short Body NISSAN 20MT	day	15344.00	15344.00	15344.00
MP0172	Truck Mounted Concrete Mixer, 1612 SE	day	7024.00	7024.00	7024.00
MP0173	Truck with Crane, HINO/ISUZU	day	6080.00	6080.00	6080.00
MP0174	Vibromax	day	864.00	864.00	864.00
MP0175	Workshop Van	day	4864.00	4864.00	4864.00
MP0200	Roller, CAT - CS551	day	10280.00	10280.00	10280.00
MP0201	Water pump AVI Type	day	1072.00	1072.00	1072.00
MP0202	Welder - Electric arc	day	175.00	175.00	175.00
MP0203	Pay Loader (CAT -910)	day	8520.00	8520.00	8520.00
MP0204	Crusher (Kurimoto FJ-2010 R)	day	6144.00	6144.00	6144.00
MP0205	Concrete Mixer(7/5 Cft)	day	896.00	896.00	896.00
MP0206	Concrete Vibrator(M/C5)	day	744.00	744.00	744.00
MP0207	Stone Crusher(Sisco)	day	4752.00	4752.00	4752.00
MP0208	Bull Dozer (IH TD20E)	day	17392.00	17392.00	17392.00
MP0209	Hyd. Excavator (IH640)	day	13256.00	13256.00	13256.00
MP0210	Motor Grader (CAT 130G)	day	11832.00	11832.00	11832.00
MP0211	Truck/Tipper (Tata,1210SK32)	day	3984.00	3984.00	3984.00
MP0212	Compressor (CPS300)	day	4944.00	4944.00	4944.00
MP0213	Road Broom (TD96)	day	480.00	480.00	480.00
MP0214	Asphalt/Bitumen Sprayer (Hino)	day	5016.00	5016.00	5016.00
MP0215	Drill (Pinjor Machine)	day	1088.00	1088.00	1088.00
MP0216	Air Compressor CPS-300	day	4944.00	4944.00	4944.00
MP0217	Air Compressor CPS-325	day	5712.00	5712.00	5712.00
MP0218	Air Compressor P-310	day	5120.00	5120.00	5120.00
MP0219	Excavator SK 115	day	11280.00	11280.00	11280.00
MP0220	Excavator SK 200	day	14624.00	14624.00	14624.00
MP0221	Motor Grader CASE 845	day	13856.00	13856.00	13856.00
MP0222	Motor Grader CAT 130 G	day	11832.00	11832.00	11832.00

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							
				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 upto 50 km for every km
		1	2	3	4	5	6	7	8	9	10
1	Lime, moorum, building rubbish	cu.m	6	123.35	132.81	142.08	150.92	159.37	7.44	5.58	6.97
2	Dry earth	cu.m	4.8	154.19	166.02	177.60	188.65	199.21	9.29	6.97	8.71
3	Manure or Sludge	cu.m	5.7	129.85	139.80	149.55	158.86	167.76	7.83	5.87	7.34
4	Excavated Rock	cu.m	3	246.71	265.63	284.15	301.84	318.74	14.87	11.15	13.94
5	Sand, stone aggregates of less than 40 mm size	cu.m	5	148.02	159.38	170.49	181.10	191.24	8.92	6.69	8.37
6	Stone aggregates of more than 40 mm size	cu.m	4.6	160.90	173.23	185.32	196.85	207.87	9.70	7.27	9.09
7	stone boulders	cu.m	4.25	174.15	187.50	200.58	213.06	224.99	10.50	7.87	9.84
8	bricks	1000 nos	2000	345.06	373.44	401.23	427.76	453.11	22.31	16.73	20.92
9	tiles	1000 nos	3000	230.04	248.96	267.49	285.17	302.07	14.87	11.15	13.94
10	cement	tonne	8	86.27	93.36	100.31	106.94	113.28	5.58	4.18	5.23
11	GI, CI Pipes	tonne	7	98.59	106.70	114.64	122.22	129.46	6.37	4.78	5.98
12	Concrete	tonne	7	98.59	106.70	114.64	122.22	129.46	6.37	4.78	5.98
13	steel	tonne	8	86.27	93.36	100.31	106.94	113.28	5.58	4.18	5.23
14	bitumen	tonne	4.5	153.36	165.97	178.32	190.12	201.38	9.91	7.44	9.30
15	timber	cu.m	7.5	98.68	106.25	113.66	120.74	127.50	5.95	4.46	5.58

2. PLAIN ROADS

sl.no	Materials	Unit	quantity payable	Rate							
				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	121.26	129.30	137.03	144.46	151.62	6.43	5.04	3.76
2	Dry earth	cu.m	4.8	151.58	161.62	171.28	180.58	189.53	8.04	6.29	4.70
3	Manure or Sludge	cu.m	5.7	127.64	136.10	144.24	152.07	159.60	6.77	5.30	3.96
4	Excavated Rock	cu.m	3	242.52	258.60	274.05	288.93	303.25	12.87	10.07	7.52
5	Sand, stone aggregates of less than 40 mm size	cu.m	5	145.51	155.16	164.43	173.36	181.95	7.72	6.04	4.51
6	Stone aggregates of more than 40 mm size	cu.m	4.6	158.17	168.65	178.73	188.43	197.77	8.39	6.57	4.90
7	stone boulders	cu.m	4.25	171.19	182.54	193.45	203.95	214.06	9.08	7.11	5.31
8	bricks	1000 nos	2000	338.79	362.90	386.08	408.39	429.87	19.30	15.11	11.28
9	tiles	1000 nos	3000	225.86	241.93	257.39	272.26	286.58	12.87	10.07	7.52
10	cement	tonne	8	84.70	90.72	96.52	102.10	107.47	4.83	3.78	2.82
11	Gl, Cl Pipes	tonne	7	96.80	103.68	110.31	116.68	122.82	5.51	4.32	3.22
12	Concrete	tonne	7	96.80	103.68	110.31	116.68	122.82	5.51	4.32	3.22
13	steel	tonne	8	84.70	90.72	96.52	102.10	107.47	4.83	3.78	2.82
14	bitumen	tonne	4.5	150.57	161.29	171.59	181.51	191.05	8.58	6.71	5.01
15	timber	cu.m	7.5	97.01	103.44	109.62	115.57	121.30	5.15	4.03	3.01

NOTE : For manual transportation, refer the LMC (CIVIL) - 2012 and SBRW - 2012

SECTION 3 - Built Up Rates

Code	Description	Units	PL	GP	SJ
Chapter 1: DISMANTLING & DEMOLITION WORK					
Concrete					
DD0001	Demolishing cement concrete 1:3:6 & richer, including disposal of materials within 50m lead	cu.m	602.66	602.66	602.66
DD0002	Demolishing cement concrete 1:4:8 & leaner, including disposal of materials within 50m lead	cu.m	373.27	373.27	373.27
DD0003	Demolishing reinforced concrete, including stacking steel bars and disposal of rubbish within 50m lead	cu.m	878.55	878.55	878.55
Lime concrete					
DD0004	Demolishing lime concrete and disposal of rubbish within 50m lead	cu.m	158.48	158.48	158.48
Stone Masonry					
Demolishing stone rubble masonry including stacking useful materials & disposal of rubbish within 50m lead					
DD0005	In lime mortar	cu.m	229.39	229.39	229.39
DD0006	In cement mortar	cu.m	469.20	469.20	469.20
Dismantling dressed ashlar face stone work including stacking useful materials & disposal of rubbish within 50m lead					
DD0007	In lime mortar	cu.m	291.95	291.95	291.95
DD0008	In cement mortar	cu.m	563.04	563.04	563.04
Removing mortar from stones, cleaning stones and concrete articles, and arranging in stacks					
DD0009	In lime mortar	cu.m	238.71	238.71	238.71
DD0010	In cement mortar	cu.m	264.50	264.50	264.50
Brick & Hollow Block Masonry					
DD0011	Demolishing hollow block masonry including stacking useful materials & disposal of rubbish within 50m lead	cu.m	851.86	851.86	851.86
DD0012	Demolishing reinforced brickwork, including stacking steel bars and disposal of rubbish within 50m lead	cu.m	787.21	787.21	787.21
DD0013	Extra for scraping, cleaning, straightening reinforcement from R.C & reinforced brick work	kg	2.29	2.29	2.29
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	250.24	250.24	250.24
Demolishing brick work including stacking useful materials & disposal of rubbish within 50m lead					
DD0015	In mud mortar	cu.m	135.55	135.55	135.55
DD0016	In lime mortar	cu.m	160.57	160.57	160.57
DD0017	In cement mortar	cu.m	396.21	396.21	396.21
Removing Mortar from bricks and cleaning bricks including stacking useful materials within 50m lead					
DD0018	From BW in mud mortar	1000#	899.68	899.68	899.68
DD0019	From BW in lime mortar	1000#	1027.78	1027.78	1027.78
DD0020	From BW in cement mortar	1000#	1282.92	1282.92	1282.92

Code	Description	Units	PL	GP	SJ
Steel Work					
Dismantling steelwork in single sections including dismembering and stacking within 50m lead					
DD0021	In RS joists	kg	0.71	0.71	0.71
DD0022	In channels, angles, tees and flats	kg	0.63	0.63	0.63
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	1.46	1.46	1.46
DD0024	Dismantling steelwork in built up sections without dismembering and stacking within 50 m lead	kg	1.25	1.25	1.25
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	611.66	611.66	611.66
DD0026	Dismantling wood work of sectional area <40 sq.cm in frames, trusses including stacking within 50m lead	m	55.61	55.61	55.61
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	121.64	121.64	121.64
DD0028	Extra for dismantling trusses, rafters, purlins etc. every additional span of 1metre or part thereof >10m (sectional area < 40sq.cm)	cu.m	0.56	0.56	0.56
DD0029	Dismantling doors, windows, and clerestory windows <3sq.m (steel, wood) including architrave, hold fasts, stacking within 50m lead	each	95.15	95.15	95.15
DD0030	Dismantling doors, windows and clerestory windows >3sq.m (steel/wood) including architrave, hold fasts, and stacking within 50m lead	each	129.87	129.87	129.87
DD0031	Taking out doors, windows and clerestory windows shutters <3sq.m (steel, wood) including stacking within 50m lead	each	36.28	36.28	36.28
DD0032	Taking out doors, windows and clerestory window shutters >3sq.m (steel or wood) including stacking within 50m lead	each	86.99	86.99	86.99
Flooring					
DD0040	Dismantling wooden flooring including stacking useful materials & disposal of rubbish within 50m lead	sq.m	38.92	38.92	38.92
DD0041	Dismantling dry brick patching in floors, drains etc including stacking useful materials & disposal of rubbish within 50m lead	cu.m	260.67	260.67	260.67
DD0042	Dismantling stone slab flooring laid in cement mortar including stacking useful materials & disposal of rubbish within 50m lead	sq.m	53.09	53.09	53.09
DD0043	Dismantling jack arch roofing and floors including stacking useful materials & disposal of rubbish within 50m lead	sq.m	52.13	52.13	52.13
Roofing					
DD0045	Dismantling G.I sheets including ridges, hips, valleys, gutters & stacking materials within 50m lead	sq.m	43.44	43.44	43.44
DD0046	Dismantling tiled roofing with batten boarding etc. complete including stacking useful materials & disposal of rubbish within 50m lead	sq.m	46.22	46.22	46.22
Metal work					
DD0050	Dismantling expanded metal, fabrics & battens, beading including stacking useful within 50m lead	sq.m	19.12	19.12	19.12

Code	Description	Units	PL	GP	SJ
Fencing					
DD0055	Dismantling barbed wire, flexible wire including making rolls & stacking within 50m lead	kg	9.18	9.18	9.18
DD0056	Dismantling fence posts, struts\T & L iron\pipes & earth work\demolishing of concrete and stacking within 50m lead	each	87.06	87.06	87.06
DD0057	Dismantling fence posts, struts R.C including earth work\demolishing concrete footings, stacking, 50m lead	each	103.62	103.62	103.62
DD0058	Cutting ballies\wooden posts at ground or projection above concrete & stacking within 50m lead	each	26.07	26.07	26.07
Ceiling & Cladding					
DD0065	Dismantling cement A.C, celotex, hardboard ceiling, partition, including stacking useful materials & disposal rubbish within 50m	sq.m	14.87	14.87	14.87
DD0066	Dismantling of ekra wall in cement mortar 1:6 or richer including stacking useful materials & disposal of rubbish within 50m lead	sq.m	26.34	26.34	26.34
DD0067	Dismantling old plaster or skirting, raking out joints and cleaning the surface for plaster including disposal of rubbish within 50m lead	sq.m	10.43	10.43	10.43
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	22.31	22.31	22.31
DD0076	150mm dia	m	24.61	24.61	24.61
DD0077	200mm dia	m	26.28	26.28	26.28
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	69.82	69.90	70.23
DD0079	From 150 mm up to 300 mm	m	104.92	105.11	105.88
DD0080	Above 300 mm dia	m	207.05	207.88	209.01
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	20.23	20.23	20.23
DD0086	H.D.P.E Pipes	m	26.69	26.69	26.69
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	60.31	60.31	60.31
DD0091	Above 40 mm thickness and up to 74mm thickness	sq.m	88.76	88.76	88.76
Roads					
DD0095	Dismantling water bound macadam road including stacking of useful materials & disposal of rubbish within 50 m lead	sq.m	46.71	46.71	46.71
DD0096	Dismantling bituminous road including cutting, stacking of useful materials & disposal of rubbish within 50 m lead	sq.m	7.19	7.19	7.19
Cisterns					
DD0100	Dismantling of flushing cistern of any size including stacking of useful materials & disposal of rubbish within 50 m lead	no	180.24	180.24	180.24

Code	Description	Units	PL	GP	SJ
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Chapter 2: CLEARING AND GRUBBING

Clearing Grass

CG0001	Clearing grass including removal of rubbish within 50m of site	sq.m	2.21	2.21	2.21
CG0002	Clearing jungle including uprooting of vegetation & trees of girth < 300mm & disposal within 50m of the site	sq.m	6.99	6.99	6.99

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	65.19	65.19	65.19
CG0011	Girth 600 to 1200m	each	294.03	294.03	294.03
CG0012	Girth 1200 to 2400	each	1368.49	1368.49	1368.49
CG0013	Girth > 2400mm	each	2736.99	2736.99	2736.99

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	73.04	73.04	73.04
CG0021	Girth 600 to 1200m	Each	276.37	276.37	276.37
CG0022	Girth 1200 to 2400	Each	552.74	552.74	552.74
CG0023	Girth > 2400m	Each	1004.04	1004.04	1004.04

Landslide Debris

CG0030	Clearing grass removal of landslide debris & surface material including excavation & disposal within 50m lead	cu.m	47.13	47.13	47.13
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Code	Description	Units	PL	GP	SJ
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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	7.07	7.07	7.07
EW0002	Hard Soil	sq.m	9.93	9.93	9.93

Ploughing the existing ground to a depth 150mm to 250mm, and watering the same

EW0010	Ordinary Soil	sq.m	2.61	2.61	2.61
EW0011	Hard Soil	sq.m	6.26	6.26	6.26

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	13.05	13.05	13.05
EW0021	Hard Soil	sq.m	18.25	18.25	18.25

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	89.69	89.69	89.69
EW0031	Hard Soil	cu.m	116.01	116.01	116.01
EW0032	Ordinary rock with or without blasting	cu.m	367.99	367.99	367.99
EW0033	Hard rock requiring blasting	cu.m	511.92	511.92	511.92
EW0034	Hard rock requiring chiselling (where blasting is prohibited)	cu.m	758.16	758.16	758.16

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	27.11	27.11	27.11
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Extra for every additional lead of 25m beyond 250m up to 1000m and deposit to a level up to 1.5m

EW0040	All Kinds of Soil	cu.m	53.27	53.27	53.27
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Dozer Excavation

Earth work in excavation over areas by Dozer including levelling and dressing

EW0046	All kinds of Soil	cu.m	75.99	75.99	75.99
EW0047	All kinds of rocks (blasted)	cu.m	102.36	102.36	102.36

Blasting Operation

Blasting of rocks complete excluding the cost of collection and stacking of blasted rock

EW0055	Ordinary rock	cu.m	71.34	71.34	71.34
EW0056	Hard rock	cu.m	142.69	142.69	142.69

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	4381.66	4381.66	4381.66
EW0066	Hard rock	cu.m	4509.84	4509.84	4509.84

Code	Description	Units	PL	GP	SJ
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	4420.03	4420.03	4420.03
EW0076	Hard rock	cu.m	4572.40	4572.40	4572.40
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	141.88	141.88	141.88
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	96.36	96.36	96.36
EW0097	Deduction - for not rolling with power roller in layered banking works	cu.m	24.19	24.19	24.19
EW0098	Deduction - for not watering in layered, banking works	cu.m	4.44	4.44	4.44
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	95.67	95.67	95.67
EW0106	Hard Soil	cu.m	122.62	122.62	122.62
EW0107	Ordinary rock with or without blasting	cu.m	397.76	397.76	397.76
EW0108	Hard rock requiring blasting	cu.m	590.00	590.00	590.00
EW0109	Hard rock requiring chiselling (where blasting is prohibited)	cu.m	769.21	769.21	769.21
Extra for every additional lift of 1.5m or part thereof					
EW0115	All kinds of soils	cu.m	10.43	10.43	10.43
EW0116	All kinds of rocks	cu.m	18.56	18.56	18.56
Extra for trench, pit works per cu.m per m depth					
EW0125	Under water	cu.m	37.03	37.03	37.03
EW0126	In foul conditions	cu.m	30.65	30.65	30.65
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	133.91	133.91	133.91
EW0136	Pipes, cables etc. dia.>300 mm	m	209.02	209.02	209.02
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	546.44	546.44	546.44
EW0156	Pipes, cables etc. dia.> 300mm	m	628.78	628.78	628.78
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	771.37	771.37	771.37
EW0166	Pipes, cables etc. dia.> 300mm	m	887.66	887.66	887.66

Code	Description	Units	PL	GP	SJ
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	981.03	981.03	981.03
EW0176	Pipes, cables etc. dia.> 300mm	m	1128.97	1128.97	1128.97
Extra for excavating trenches for pipes, cables etc., 1.5 < depth < 3m					
EW0185	All kinds of Soils	m	277.51	277.51	277.51
EW0186	All kinds of Rocks	m	1411.21	1411.21	1411.21
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	61.62	61.62	61.62
EW0196	Providing & laying sand bedding, including watering, ramming, dressing	cu.m	476.85	476.85	510.17
EW0197	Providing & laying dry earth bedding, including consolidating each deposited layer by watering, ramming and dressing	cu.m	161.99	161.99	161.99
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	133.04	120.03	112.60
EW0206	1.5m < depth < 3m	sq.m	135.44	122.43	115.00
EW0207	Depth > 3 m	sq.m	139.64	126.62	119.20
Close timbering over areas including lagging & strutting of trenches, cuts (per sq.m face area timbered)					
EW0215	Depth not exceeding 1.5m	sq.m	372.90	334.45	312.52
EW0216	1.5m < depth < 3m	sq.m	379.23	340.78	318.85
EW0217	3m < depth < 4.5m	sq.m	385.54	347.09	325.17
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	336.92	303.40	284.29
EW0226	1.5m < Depth < 3m	sq.m	345.19	311.68	292.57
EW0227	3m < Depth < 4.5m	sq.m	354.04	320.52	301.41
De - Watering					
EW0235	Pumping out water caused by springs, river, seepage, broken water mains, drains, and alike	cu.m	90.79	90.79	90.79
Anti - Termite Treatment					
EW0240	Providing and injecting chemical emulsion for Pre-construction anti-termite treatment using aldrin emulsifiable 0.5% concentration	sq.m	103.18	106.68	105.80
Providing and injecting chemical emulsion for Post-construction, using aldrin emulsifiable 0.5% concentration					
EW0245	Along outside of foundation	m	227.32	230.82	229.95
EW0246	Along external walls below concrete \ masonry apron	m	160.01	160.60	160.45
EW0247	Under existing floors including drilling & plugging 12mm holes with mortar 1:2	sq.m	282.52	283.29	283.10
EW0248	Voids in masonry including drilling holes at 45 degree & plugging with cement mortar 1:2)	m	177.18	177.55	177.46
EW0249	Woodwork (using chemical in oil or kerosene based solution) including drilling & plugging 6mm holes	m	169.49	169.61	169.58

Code	Description	Units	PL	GP	SJ
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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	285.11	300.35	310.09
DR0002	With cement concrete 1:3:6, 20mm gravel or shingles laid over 75mm thick layer of compacted gravel (40mm)	sq.m	246.85	258.11	261.39
DR0003	With cement concrete 1:3:6, 20mm aggregate, laid over 75mm thick layer of compacted dry brick aggregate(40mm)	sq.m	346.96	346.58	351.63
DR0004	With cement concrete 1:3:6, 20mm gravel or shingles laid on 75mm thick layer of compacted dry brick aggregate(40mm)	sq.m	317.84	315.85	313.95

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	428.08	458.51	463.89
DR0011	150mm x 200mm depth	m	450.66	482.51	488.92
DR0012	250mm x 300mm depth	m	621.02	665.55	672.68
DR0013	300mm x 450mm depth	m	919.02	987.76	991.41

Extra for additional depth of brick masonry drain

DR0020	100mm wideper metre additional depth	m	1277.75	1379.50	1367.65
DR0021	150mm wideper metre additional depth	m	1282.66	1384.41	1372.56
DR0022	250mm wideper metre additional depth	m	1292.10	1393.85	1382.00

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	648.16	678.96	697.42
DR0031	150 x 200mm depth	m	669.92	702.07	721.53
DR0032	250 x 300mm depth	m	879.58	920.72	945.27
DR0033	300mm x 450mm depth	m	1584.91	1649.12	1689.51

Extra for additional depth of random rubble masonry drain

DR0040	100mm wideper metre additional depth	m	1759.11	1827.88	1859.64
DR0041	150mm wideper metre additional depth	m	1763.89	1832.66	1864.42
DR0042	250mm wideper metre additional depth	m	1773.46	1842.23	1873.99

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	332.45	335.67	337.10
DR0048	150mm dia.	m	687.11	693.90	696.99
DR0049	200mm dia.	m	1157.21	1168.79	1174.22

Code	Description	Units	PL	GP	SJ
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	340.15	344.35	345.82
DR0051	150mm dia.	m	698.68	706.95	710.10
DR0052	200mm dia.	m	1172.48	1186.02	1191.52
DR0053	230mm dia.	m	1424.47	1440.78	1447.47
DR0054	250mm dia.	m	1592.08	1610.34	1617.86
DR0055	300mm dia.	m	1960.42	1983.24	1992.56
DR0056	350mm dia.	m	2347.65	2375.90	2387.11
DR0057	400mm dia.	m	2743.10	2776.53	2789.68
DR0058	500mm dia.	m	3555.91	3597.98	3615.12
DR0059	600mm dia.	m	4246.97	4296.88	4317.43

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	489.81	519.44	548.41
DR0061	150mm dia S.W pipe	m	524.78	556.53	587.56
DR0062	200mm dia S.W pipe	m	602.84	639.31	674.96

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	328.33	348.20	367.61
DR0071	150mm dia. S\W pipe	m	360.62	382.43	403.76
DR0072	200mm dia. S\W pipe	m	419.88	445.28	470.11

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	1670.41	1688.07	1730.94
DR0081	150 x 100mm P or S Type	each	1884.66	2053.54	2053.54
DR0082	180 x 150mm P or S Type	each	1929.23	1964.65	2042.08

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	503.04	507.48	507.79
DR0089	150mm dia	m	554.32	559.76	560.13
DR0090	225mm dia.	m	693.72	694.97	695.27
DR0091	300mm dia.	m	839.78	841.31	841.67
DR0092	450mm dia.	m	1252.38	1255.34	1255.94
DR0093	600mm dia.	m	1753.04	1757.06	1757.90
DR0094	750mm dia.	m	2471.07	2475.07	2476.12
DR0095	900mm dia.	m	3125.05	3129.50	3129.89
DR0096	1050mm dia.	m	6232.93	6233.37	6233.41
DR0097	1200mm dia.	m	8938.30	8938.84	8938.88

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	7145.73	7651.59	7772.50
DR0106	Inside dimension 900 x 800mm & 600mm deep including C.I. cover & frame (weight >38 kg)	each	7668.52	8231.87	8346.33
DR0107	Inside dimension 1200 x 900mm & 900mm deep including C.I. cover & frame weight >116 kg)	each	17956.83	19059.76	19236.02

Extra for additional depth of manholes

DR0115	900 x 800mm	m	4415.95	4801.80	4747.87
DR0116	1200 x 900mm	m	5279.54	5740.17	5676.09

Code	Description	Units	PL	GP	SJ
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Chapter 5: MORTARS

Cement Mortar

MR0001	Cement mortar 1:1 (1 cement : 1 sand)	cu.m	7611.23	8518.16	8576.47
MR0002	Cement mortar 1:2 (1 cement : 2 sand)	cu.m	5350.25	5954.87	6009.58
MR0003	Cement mortar 1:3 (1 cement : 3 sand)	cu.m	4220.28	4673.74	4726.69
MR0004	Cement mortar 1:4 (1 cement : 4 sand)	cu.m	3317.95	3655.83	3704.37
MR0005	Cement mortar 1:5 (1 cement : 5 sand)	cu.m	2832.09	3107.72	3153.89
MR0006	Cement mortar 1:6 (1 cement : 6 sand)	cu.m	2415.63	2637.91	2682.05

Lime Mortar

MR0010	Lime mortar 1:2 (1 lime putty : 2 Brick Powder)	cu.m	8038.32	8791.92	7711.84
MR0011	Lime Mortar 1:1 :1 (1 Lime putty : 1 Brick Powder : 1 Sand)	cu.m	8216.42	9993.90	9824.67

Mud Mortar

MR0015	Mud mortar	cu.m	355.77	355.77	355.77
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White Cement Mortar

MR0020	White Cement mortar 1:2 (1 white cement : 2 sand)	cu.m	23334.62	23733.58	22967.32
MR0021	White Cement mortar 1:3 (1 white cement : 3 sand)	cu.m	17599.70	17897.17	17337.89
MR0022	White Cement mortar 1:5 (1 white cement : 5 sand)	cu.m	10950.36	11131.18	10805.21

Cement Lime Mortar

MR0025	Cement lime mortar 1:1:3 (1 cement : 1 lime putty : 3 sand)	cu.m	7718.95	9181.46	9181.78
MR0026	Cement lime mortar 1:1:6 (1 cement : 1 lime putty : 6 sand)	cu.m	5109.38	6017.13	6034.90

Code	Description	Units	PL	GP	SJ
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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	6035.20	6631.95	6798.11
CW0002	1:1.5:3 (1 cement : 1.5 sand : 3 graded crushed rock 20 mm nominal size)	cu.m	4572.92	4984.54	5140.76
CW0003	1:2:4 (1 cement : 2 sand : 4 graded crushed rock 20 mm nominal size)	cu.m	4088.00	4430.48	4593.31
CW0004	1:2:4 (1 cement : 2 sand : 4 graded crushed rock 40 mm nominal size)	cu.m	4010.28	4346.46	4511.21
CW0005	1:3:6 (1 cement : 3 sand : 6 graded crushed rock 20 mm nominal size)	cu.m	3474.13	3728.29	3892.39
CW0006	1:3:6 (1 cement : 3 sand : 6 graded crushed rock 40 mm nominal size)	cu.m	3319.86	3566.30	3732.89
CW0007	1:3:6 (1 cement : 3 sand : 6 graded gravel/shingles 40 mm nominal size)	cu.m	2774.35	3000.51	3038.24
CW0008	1:4:8 (1 cement : 4 sand : 8 graded crushed stone 40 mm nominal size)	cu.m	2932.51	3136.12	3305.95
CW0009	1:4:8 (1 cement : 4 sand : 8 graded crushed stone 50 mm nominal size)	cu.m	2932.51	3136.12	3305.95
CW0010	1:4:8 (1 cement : 4 sand : 8 graded gravel/shingles 40 mm nominal size)	cu.m	2369.73	2552.35	2589.23
CW0011	1:5:10 (1 cement : 5 sand : 10 graded crushed stone 40 mm nominal size)	cu.m	2604.13	2770.71	2931.90
CW0012	1:5:10 (1 cement : 5 sand : 10 graded crushed stone 50 mm nominal size)	cu.m	2593.71	2760.28	2921.47
CW0013	1:5:10 (1 cement : 5 sand : 10 graded gravel/shingles 40 mm nominal size)	cu.m	2056.02	2202.61	2236.79

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	6285.28	6882.03	7048.18
CW0021	1:1.5:3 (1 cement : 1.5 sand : 3 graded crushed rock 20 mm nominal size)	cu.m	4824.21	5235.88	5392.25
CW0022	1:2:4 (1 cement : 2 sand : 4 graded crushed rock 20 mm nominal size)	cu.m	4338.08	4680.55	4843.39
CW0023	1:2:4 (1 cement : 2 sand : 4 graded crushed rock 40 mm nominal size)	cu.m	4211.18	4547.30	4711.91
CW0024	1:3:6 (1 cement : 3 sand : 6 graded crushed rock 20 mm nominal size)	cu.m	3676.25	3930.40	4094.51
CW0025	1:3:6 (1 cement : 3 sand : 6 graded crushed rock 40 mm nominal size)	cu.m	3521.98	3768.41	3935.01
CW0026	1:3:6 (1 cement : 3 sand : 6 graded gravel/shingles 40 mm nominal size)	cu.m	2976.47	3202.62	3167.19

Code	Description	Units	PL	GP	SJ
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	5320.57	5715.24	5881.28
CW0051	1:3:6 (1 cement : 3 sand : 6 graded crushed rock 20 mm nominal size)	cu.m	4705.26	5012.76	5183.12
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 6 mm thick cement plaster on exposed surface complete - 1:2:4 (1 cement : 2 sand : 4 graded crushed rock 20 mm nominal size)	cu.m	5100.33	5478.99	5646.14
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	5616.33	6040.34	6212.79
CW0071	1:3:6 (1 cement : 3 sand : 6 graded crushed rock 20 mm nominal size)	cu.m	4963.52	5300.36	5474.13
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	3613.68	3858.13	3887.27
CW0081	1:3:6 (1 cement : 3 sand : 6 graded crushed rock 20 mm nominal size)	cu.m	3218.25	3410.40	3513.19
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	4729.78	5489.72	5568.89
CW0091	with graded brick aggregate of 40 mm	cu.m	5123.16	5738.36	5443.41
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	512.63	532.19	532.94
CW0137	Cement concrete work under foul conditions	cu.m	437.91	437.91	437.91
CW0140	Providing and mixing water-proofing materials in in the proportion 12 kg/cu.m or as prescribed by the manufacturer	cu.m	337.66	323.66	309.67

Code	Description	Units	PL	GP	SJ
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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	129.98	138.46	142.33
DP0002	40mm thick	sq.m	192.23	205.81	212.00

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

DP0010	50mm thick	sq.m	233.72	250.68	258.42
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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	128.06	128.19	128.21
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Moisture Barriers

Providing and laying moisture barrier using plastic sheeting underlay

DP0020	50 micro-metre	sq.m	50.74	42.57	56.04
DP0021	100 micro-metre	sq.m	70.34	53.59	65.23
DP0022	200 micro-metre	sq.m	96.06	65.84	74.42

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

DP0030	Grade 2	sq.m	146.75	146.75	146.75
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Code	Description	Units	PL	GP	SJ
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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	6047.32	6644.08	6810.23
RC0002	1:1.5:3 (1 cement : 1.5 sand : 3 graded crushed rock 20 mm nominal size)	cu.m	4585.05	4996.66	5152.88
RC0003	1:2:4 (1 cement : 2 sand : 4 graded crushed rock 20 mm nominal size)	cu.m	4100.13	4442.60	4605.43

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	6049.50	6646.25	6812.40
RC0006	1:1.5:3 (1 cement : 1.5 sand : 3 graded crushed rock 20 mm nominal size)	cu.m	4587.22	4998.83	5155.05
RC0007	1:2:4 (1 cement : 2 sand : 4 graded crushed rock 20 mm nominal size)	cu.m	4081.44	4423.92	4586.75

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	6095.37	6692.12	6858.28
RC0010	1:1.5:3 (1 cement : 1.5 sand : 3 graded crushed rock 20 mm nominal size)	cu.m	4633.09	5044.71	5200.93
RC0011	1:2:4 (1 cement : 2 sand : 4 graded crushed rock 20 mm nominal size)	cu.m	4148.17	4490.65	4653.48

Providing & laying in position reinforced cement concrete work in suspended floor, roofs having slope upto 15°, 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	6160.11	6756.86	6923.01
RC0014	1:1.5:3 (1 cement : 1.5 sand : 3 graded crushed rock 20 mm nominal size)	cu.m	4697.83	5109.44	5265.67
RC0015	1:2:4 (1 cement : 2 sand : 4 graded crushed rock 20 mm nominal size)	cu.m	4212.91	4555.38	4718.21

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	6086.41	6683.16	6849.31
RC0018	1:1.5:3 (1 cement : 1.5 sand : 3 graded crushed rock 20 mm nominal size)	cu.m	4624.13	5035.74	5191.97
RC0019	1:2:4 (1 cement : 2 sand : 4 graded crushed rock 20 mm nominal size)	cu.m	4139.21	4481.68	4644.51

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	6086.41	6683.16	6849.31
RC0021	1:1.5:3 (1 cement : 1.5 sand : 3 graded crushed rock 20 mm nominal size)	cu.m	4624.13	5035.74	5191.97
RC0022	1:2:4 (1 cement : 2 sand : 4 graded crushed rock 20 mm nominal size)	cu.m	4139.21	4481.68	4644.51

Code	Description	Units	PL	GP	SJ
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	6951.25	7548.00	7714.15
RC0024	1:1.5:3 (1 cement : 1.5 sand : 3 graded crushed rock 20 mm nominal size)	cu.m	5488.97	5900.58	6056.81
RC0025	1:2:4 (1 cement : 2 sand : 4 graded crushed rock 20 mm nominal size)	cu.m	5004.05	5346.52	5509.36
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	7021.64	7632.14	7805.96
RC0027	1:1.5:3 (1 cement : 1.5 sand : 3 graded crushed rock 20 mm nominal size)	cu.m	5492.31	5912.10	6071.22
RC0028	1:2:4 (1 cement : 2 sand : 4 graded crushed rock 20 mm nominal size)	cu.m	4999.07	5348.37	5514.46
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	5021.32	5437.16	5604.70

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	1332.32	1338.16	1337.60
RC0031	Multi-Storied building..at floor 2 level including the cost of lhanglag and at other floors where Lhanglag is provided	m	1342.57	1348.59	1348.20
RC0032	Multi-Storied building.. at all middle floor levels (excluding the cost of phana)	m	1790.43	1809.50	1812.02
RC0033	Phana	m	746.30	747.81	747.54
RC0034	Lintel Cornice (only cornice portion at external face)	m	760.85	762.01	761.19

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	1313.83	1317.13	1316.70
RC0041	Multi-Storied building..at floor 2 level and at other floors where Lhanglag is provided including the cost of lhanglag	m	1324.33	1327.84	1327.58
RC0042	Multi-Storied building.. at all middle floor levels (excluding the cost of phana)	m	1887.33	1900.60	1903.43
RC0043	Phana	m	742.86	743.90	743.65
RC0044	Lintel cornice (only cornice portion at external face)	m	753.48	753.63	752.87

Code	Description	Units	PL	GP	SJ
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	25.55	28.00	28.09
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	35.70	37.51	37.68
RC0053	Rendering smooth finishing of the exposed surface with 6mm thick C.M 1:3	sq.m	80.04	83.31	83.69
RC0054	Providing throating, plastering drip and moulding to R.C.C chajjas	m	19.78	19.78	19.78
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	757.35	750.94	810.63
RC0061	40 mm thick	sq.m	675.71	665.91	724.06
RC0062	25 mm thick	sq.m	613.39	598.50	654.33
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	8821.94	8972.55	8995.33
RC0071	Small lintels & joists < 1.5m clear span, shelves	cu.m	8163.49	8317.52	8349.50
RC0072	Joists, span > 1.5m, shelves	cu.m	6370.88	6735.72	6874.77
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	64.88	86.31	89.58
Form work					
Providing & fixing centering and shuttering (formwork), including strutting, propping etc. and removal of formwork					
RC0090	Foundation and plinth etc.	sq.m	278.06	257.86	246.34
RC0091	Walls, pilasters, buttresses, string course etc.	sq.m	532.92	511.38	499.09
RC0092	Lintels, beams, girders, bresummers, cantilevers etc.	sq.m	373.50	348.81	334.73
RC0093	Columns, pillars, post, struts etc.	sq.m	461.26	435.37	420.61
RC0094	Staircase (except spiral staircase) excluding landing	sq.m	378.53	355.34	342.11
RC0095	Suspended floor, roof, landing, shelves and their supports, balconies, chajjas, etc.	sq.m	574.43	549.30	534.96
RC0096	Spiral stair case excluding landing	sq.m	456.63	433.95	421.01
RC0097	Arches, curved surfaces	sq.m	1833.80	1702.52	1662.59
RC0098	Domes, vaults, shell roof	sq.m	2649.02	2423.47	2329.79

Note: Please refer page no.34 for steel formworks.

Code	Description	Units	PL	GP	SJ
Expansion Joints					
Providing & filling or fixing in position in expansion joints					
RC0105	Blown bitumen	cu.m	62667.31	62869.01	63861.57
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	18076.65	18133.45	18425.73
RC0107	12 mm bitumen impregnated fibre board	sq.m	956.51	956.51	956.51
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	469.09	469.09	456.84
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	4229.46	4578.76	4744.54
RC0131	All work from plinth level to floor five level	cu.m	4366.15	4715.45	4881.23
RC0132	Walls, Columns, Pillars, posts and struts	cu.m	4418.29	4767.59	4933.36
RC0133	Beams, Plinth beams, girders, bresummers, cantilevers, suspended floors, lintels, roofs and staircases including spiral staircases, shelves etc.	cu.m	4493.97	4843.27	5009.04
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	138.82	156.60	157.28
RC0137	Providing M-35 grade RCC instead of M-20 grade RCC	cu.m	277.64	313.20	314.56

Code	Description	Units	PL	GP	SJ
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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	5006.56	5476.01	5410.11
BW0002	In cement mortar 1:4	cu.m	4780.97	5221.53	5154.53
BW0003	In cement mortar 1:5	cu.m	4659.51	5084.50	5016.91
BW0004	In cement mortar 1:6	cu.m	4555.39	4967.05	4898.95
BW0005	In mud mortar	cu.m	3988.09	4344.18	4265.04

Extras

BW0010	Extra for brick work in square or rectangular pillars	cu.m	248.62	248.62	248.62
BW0011	Extra for brick in circular pillars	cu.m	1757.33	1881.57	1853.96
BW0012	Extra for brick work in superstructure above plinth level, up to floor two level	cu.m	138.09	138.09	138.09
BW0013	Extra for brick work in superstructure above floor two level...per floor	cu.m	60.47	60.47	60.47
BW0014	Extra for providing hoop iron 25x1.6mm or equivalent reinforcement in masonry at every third course, embedded in cement mortar	sq.m	78.10	72.09	92.52
BW0015	Extra for mixing water-proofing compound in cement mortar	cu.m	112.72	108.05	103.39

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	657.42	714.25	705.46
BW0021	In cement mortar 1:4	sq.m	634.86	688.80	679.90

Extras for Half-Brick

BW0030	Extra for half-brick masonry in superstructure above floor 2 level...per floor	sq.m	7.09	7.09	7.09
BW0031	Extra for mixing water-proofing compound in cement mortar	sq.m	14.03	13.56	13.10
BW0032	75mm thick brick masonry (second class bricks) in cement mortar 1:3 in partitions etc. in superstructure below floor 2 level	sq.m	366.19	401.52	396.45
BW0033	Extra for 75mm brick masonry in cement mortar 1:3 in partitions etc. in superstructure above floor 2 level...Per floor	sq.m	7.09	7.09	7.09

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	764.78	784.49	782.50
BW0041	Middle Floor levels excluding phana	m	1212.50	1258.56	1253.13

Pointing

Pointing on brickwork with cement mortar 1:3

BW0050	Flush pointing	sq.m	61.73	63.09	63.25
BW0051	Ruled pointing	sq.m	67.30	68.66	68.82
BW0052	Cut, weather struck pointing	sq.m	90.87	92.23	92.39
BW0053	Raised & cut pointing	sq.m	120.62	122.71	122.96

Code	Description	Units	PL	GP	SJ
Interlocking Cement Earth Block (300mmX150mmX100mm)					
Providing & laying ICEB (300mmX150mmX100mm) in Foundation & Plinth					
BW0060	In cement mortar 1:3	cu.m	7997.42	9362.97	10925.71
BW0061	In cement mortar 1:4	cu.m	7789.34	9128.94	10690.25
BW0062	In cement mortar 1:5	cu.m	7732.02	9063.57	10625.02
BW0063	In cement mortar 1:6	cu.m	7672.65	8996.59	10557.75
BW0064	In mud mortar	cu.m	7381.44	8676.31	10230.16
Extras					
BW0070	Extra for ICEB work in square or rectangular pillars	cu.m	130.23	130.23	130.23
BW0071	Extra for ICEB work in superstructure above plinth level, up to floor two level	cu.m	73.05	73.05	73.05
BW0072	Extra for ICEB work in superstructure above floor two level...per floor	cu.m	31.53	31.53	31.53
Interlocking Cement Earth Block (300mmX150mmX100mm)					
Providing & laying ICEB(300mmX150mmX100mm) in superstructure below floor 2 level					
BW0080	In cement mortar 1:3	sq.m	1173.03	1371.79	1605.61
BW0081	In cement mortar 1:4	sq.m	1166.23	1364.12	1597.91
Extras					
BW0090	Extra for ICEB work in superstructure above floor 2 level...per floor	sq.m	7.41	7.41	7.41
Interlocking Cement Earth Block (250mmX125mmX100mm)					
Providing & laying ICEB (250mmX125mmX100mm) in Foundation & Plinth					
BW0100	In cement mortar 1:3	cu.m	6702.03	7681.38	8844.78
BW0101	In cement mortar 1:4	cu.m	6610.68	7578.33	8741.29
BW0102	In cement mortar 1:5	cu.m	6522.67	7479.05	8641.58
BW0103	In cement mortar 1:6	cu.m	6516.70	7472.31	8634.82
BW0104	In mud mortar	cu.m	6304.44	7237.68	8394.90
Extras					
BW0110	Extra for ICEB work in square or rectangular pillars	cu.m	186.07	186.07	186.07
BW0111	Extra for ICEB work in superstructure above plinth level, up to floor two level	cu.m	104.37	104.37	104.37
BW0112	Extra for ICEB work in superstructure above floor two level...per floor	cu.m	45.04	45.04	45.04
Interlocking Cement Earth Block (250mmX125mmX100mm)					
Providing & laying ICEB(250mmX125mmX100mm) in superstructure below floor 2 level					
BW0120	In cement mortar 1:3	sq.m	867.84	989.78	1135.08
BW0121	In cement mortar 1:4	sq.m	859.58	980.46	1125.72
Extras					
BW0130	Extra for ICEB work in superstructure above floor 2 level...per floor	sq.m	8.98	8.98	8.98

Code	Description	Units	PL	GP	SJ
Concrete Block Brick					
Providing & laying concrete block brick in Foundation & Plinth					
BW0140	In cement mortar 1:3	cu.m	6787.00	6662.98	7863.18
BW0141	In cement mortar 1:4	cu.m	6561.42	6408.50	7607.60
BW0142	In cement mortar 1:5	cu.m	6439.95	6271.47	7469.98
BW0143	In cement mortar 1:6	cu.m	6335.84	6154.02	7352.02
Extras					
BW0150	Extra for concrete block brick in square or rectangular pillars	cu.m	248.62	248.62	248.62
BW0151	Extra for concrete block brick in circular pillars	cu.m	2378.52	2295.69	2709.82
BW0152	Extra for concrete block brick work in superstructure above plinth level, up to floor two level	cu.m	138.09	138.09	138.09
BW0153	Extra for concrete block brick work in superstructure above floor two level...per floor	cu.m	60.47	60.47	60.47
BW0154	Extra, for providing hoop iron 25x1.6mm or equivalent reinforcement in masonry at every third course, embedded in cement mortar	sq.m	78.10	72.09	92.52
BW0155	Extra, for mixing water-proofing compound in cement mortar	cu.m	112.72	108.05	103.39
Concrete Block Brick					
Providing & laying concrete block half-brick Masonry (125 mm) in superstructure below floor 2 level					
BW0160	In cement mortar 1:3	sq.m	884.89	865.90	1018.88
BW0161	In cement mortar 1:4	sq.m	862.34	840.45	993.32
Extras					
BW0170	Extra, for concrete block half-brick masonry in superstructure above floor 2 level...per floor	sq.m	7.09	7.09	7.09
BW0171	Extra, for mixing water-proofing compound in cement mortar	sq.m	14.03	14.03	14.03
Pointing					
Pointing on concrete block brick work with cement mortar 1:3					
BW0180	Flush pointing	sq.m	61.73	63.09	63.25
BW0181	Ruled pointing	sq.m	67.30	68.66	68.82
BW0182	Cut, weather struck pointing	sq.m	90.87	92.23	92.39
BW0183	Raised & cut pointing	sq.m	120.62	122.71	122.96

Code	Description	Units	PL	GP	SJ
Chapter 10: STONE/MUD					
Rammed Mud Work					
SM0001	Constructing rammed mud walls in superstructure including the cost of form work	cu.m	483.17	476.07	472.02
Random Rubble Masonry					
Providing & laying Random Rubble Masonry with hard stone in foundation & plinth					
SM0005	In cement mortar 1:4	cu.m	2329.18	2440.68	2490.02
SM0006	In cement mortar 1:5	cu.m	2168.84	2259.80	2308.36
SM0007	In cement mortar 1:6	cu.m	2031.41	2104.76	2152.66
SM0008	Hammer dressed, in mud mortar	cu.m	1401.72	1401.72	1435.05
Extras					
SM0015	Extra for random rubble masonry with hard stone in superstructure above plinth, below & including floor 2 level	cu.m	183.78	183.78	183.78
SM0016	Extra for random rubble masonry with hard stone in superstructure above floor 2 level	cu.m	60.47	60.47	60.47
SM0017	Extra for random rubble masonry work with hard stone in square or rectangular pillars	cu.m	267.19	267.19	267.19
SM0018	Extra for random rubble masonry work with hard stone in circular pillars	cu.m	529.75	529.75	529.75
SM0019	Extra for random rubble masonry work with hard stone for mixing water-proofing materials in cement mortar	cu.m	107.24	102.81	98.37
Coursed Rubble Masonry					
Providing & laying Coursed Rubble Masonry with hard stone hammer-dressed in foundation & plinth					
SM0025	In cement mortar 1:3	cu.m	2799.00	2935.03	2987.58
SM0026	In cement mortar 1:4	cu.m	2528.30	2629.66	2680.88
SM0027	In cement mortar 1:5	cu.m	2382.54	2465.23	2515.74
SM0028	In cement mortar 1:6	cu.m	2257.60	2324.29	2374.19
Extras					
SM0035	Extra for C.R. masonry with hard stone in superstructure above plinth, below & including floor 2 level	cu.m	173.22	173.22	173.22
SM0036	Extra for C.R. masonry with hard stone in superstructure above floor 2 level	cu.m	60.47	60.47	60.47
SM0037	Extra for C.R masonry with hard stone in square or rectangular pillars	cu.m	278.26	278.26	278.26
SM0038	Extra for C.R masonry with hard stone in circular pillars	cu.m	741.00	741.00	751.66
SM0039	Extra for C.R masonry with hard stone chisel dressed in foundations and plinth	cu.m	59.03	59.03	59.03
SM0040	Extra for C.R masonry with hard stone chisel dressed in superstructure above plinth, below & including floor 2 level	cu.m	191.43	191.43	191.43
SM0041	Extra for C.R masonry with hard stone for mixing water-proofing materials	cu.m	129.17	123.80	118.44
Dry Hand Packed Rubble Masonry					
SM0050	Dry hand packed rubble masonry with stone boulders >0.01 Cu.m	cu.m	1047.39	1047.39	1080.72
SM0051	Dry hand packed rubble masonry hammer dressed (facing), with stone-boulder > 0.01 cu.m	cu.m	1160.64	1160.64	1197.30
SM0052	Dry hand packed rubble masonry chisel dressed (facing) with stone-boulder > 0.01 cu.m	cu.m	1270.52	1270.52	1307.18

Code	Description	Units	PL	GP	SJ
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	2435.70	2547.72	2632.12
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	2208.27	2291.56	2377.49
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	2545.74	2657.76	2745.48
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	2337.07	2420.36	2509.63
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	2985.53	3097.55	3185.28
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	2776.87	2860.16	2949.42
Stone Soling Filling & Edging					
SM0070	Providing and laying Hammer dressed dry stone soling	cu.m	836.25	836.25	872.92
SM0071	Providing and laying Chisel dressed dry stone soling	cu.m	893.18	893.18	929.84
SM0072	Providing and laying Hand packed stone filling or soling with stones	cu.m	657.98	657.98	691.30
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	53.18	53.18	54.71
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	304.10	313.01	325.05
SM0081	With cement mortar 1:3	sq.m	229.16	230.20	236.77
SM0082	With sand or earth etc.	sq.m	247.40	247.40	255.60
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	303.91	304.14	304.95
SM0091	30mm	sq.m	392.11	392.33	393.53
SM0092	40mm	sq.m	480.30	480.53	482.10
Providing and laying hammer dressed dry dolep paving including preparation of bed					
SM0093	30mm	sq.m	389.69	389.69	390.84
SM0094	40mm	sq.m	477.89	477.89	479.42
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	387.32	387.54	388.35
SM0101	30mm	sq.m	475.51	475.74	476.93
SM0102	40mm	sq.m	591.51	591.73	593.31

Code	Description	Units	PL	GP	SJ
Providing and laying chisel dressed dry dolep paving including preparation of bed					
SM0103	30mm	sq.m	473.10	473.10	474.25
SM0104	40mm	sq.m	589.09	589.09	590.63
Pointing					
Providing & laying pointing on stone work with cement mortar 1:3					
SM0110	Flush pointing	sq.m	61.95	62.99	63.11
SM0111	Ruled pointing	sq.m	65.92	66.96	67.08
SM0112	Raised and cut pointing	sq.m	121.67	123.39	123.60
Gabion Work					
Providing & filling hand-packed stone in G.I mesh 4mm (8swg) including supplying and weaving of mesh complete					
SM0120	Double-knotted mesh....100mm	cu.m	1830.93	2045.57	2195.55
SM0121	Double-knotted mesh....150mm	cu.m	1765.60	1718.94	2195.55
SM0122	Chain-link mesh....100mm	cu.m	1830.93	2036.24	2072.55
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	954.21	994.76	1026.83
SM0131	20 cms thick	sq.m	642.56	669.98	692.26
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	645.16	672.58	694.86
SM0141	15 cms thick	sq.m	484.46	505.08	521.82
SM0142	10 cms thick	sq.m	327.35	341.11	352.31
Extra for Precast Stone Masonry blocks					
SM0150	Extra for Precast Stone Masonry blocks in superstructure above floor two level...per floor	sq.m	60.47	60.47	60.47

Code	Description	Units	PL	GP	SJ
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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	20095.07	18653.81	17757.99
WW0002	Champ wood	cu.m	20095.07	18653.81	17757.99
WW0003	Mixed Conifer	cu.m	19889.18	18318.15	17422.33

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	51.47	50.72	50.08
WW0011	50 x 20 mm	m	57.95	56.61	55.60

Providing & fixing joists, including hoisting, applying wood preservative on unexposed surfaces

WW0020	Blue pine	cu.m	18327.59	16882.41	15991.82
WW0021	Mixed Conifer	cu.m	18121.70	16546.76	15656.16

Providing & fixing Eaves board (225x25mm) with moulding fitted and fixed with necessary screws

WW0030	Mixed Conifer	m	128.14	119.01	113.81
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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	1772.60	1668.02	1615.50
WW0036	At all other floor levels (excluding phana)	m	2483.97	2330.84	2254.19
WW0037	For single-storied structure including phana	m	2229.58	2076.95	2001.63
WW0038	Phana	m	1016.88	963.21	939.71
WW0039	Lintel level	m	1590.65	1476.94	1412.10

Providing & fixing traditional wooden Tshagay for windows\railling etc. as per standard design

WW0045	In mixed conifer	sq.m	2195.77	2147.89	2120.59
WW0046	In blue pine	sq.m	2202.05	2158.12	2130.82

Undressed Timber Framing

WW0055	Providing & fixing Mixed Conifer (undressed) in wall-frames etc.	cu.m	18327.83	16756.80	15860.98
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Providing & fixing roof framing, in trusses, purlins, rafters, posts, post plates including hoisting, etc. (excluding steel items)

WW0060	Mixed Conifer	cu.m	21214.55	19643.52	18747.70
WW0061	Blue Pine	cu.m	21420.44	19979.18	19083.36

Providing & fixing gussets for timber trusses including wood preservative (coal tar)

WW0070	12mm phenolic plywood	sq.m	387.76	369.39	369.39
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Code	Description	Units	PL	GP	SJ
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	351.28	351.28	351.28
WW0081	12 mm thick	sq.m	374.10	374.10	374.10
WW0082	15 mm thick	sq.m	410.42	410.42	410.42
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	294.06	277.87	265.73
WW0091	20 mm thick	sq.m	388.68	358.48	339.72
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	447.70	460.01	471.67
WW0101	10 mm	sq.m	495.00	530.00	535.83
WW0102	12 mm	sq.m	578.00	588.33	582.49
WW0103	18 mm	sq.m	761.48	658.32	704.98
Providing & fixing Pre-laminated Particle Board Lining with necessary nails etc. complete (excluding cost of frame)					
WW0110	8 mm	sq.m	643.15	611.66	611.66
WW0111	10 mm	sq.m	669.98	693.32	693.32
WW0112	12 mm	sq.m	785.47	786.64	786.64
WW0113	18 mm	sq.m	1011.78	1113.27	1113.27
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	482.20	482.20	482.20
WW0121	8 mm	sq.m	504.73	504.73	504.73
WW0122	10 mm	sq.m	557.17	557.17	557.17
WW0123	12 mm	sq.m	597.39	597.39	597.39
WW0124	16 mm	sq.m	701.84	701.84	701.84
WW0125	20 mm	sq.m	841.58	841.58	841.58
Providing & fixing Plywood lining with necessary nails etc. including beading complete (excluding cost of frame)					
WW0130	4 mm, commercial	sq.m	391.18	397.14	381.31
WW0131	4 mm, teak	sq.m	636.15	629.87	626.29
WW0132	6 mm, commercial	sq.m	532.04	507.38	503.80
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	902.38	902.38	902.38
WW0141	19 mm, mixed conifer	sq.m	804.37	804.37	804.37
WW0142	15 mm, blue pine	sq.m	1547.91	1547.91	1547.91
Providing & fixing wooden skirting in mixed conifer with necessary nails or screws complete					
WW0150	20 mm	sq.m	1103.89	1074.39	1055.60
WW0151	25 mm	sq.m	1177.90	1140.47	1117.16

Code	Description	Units	PL	GP	SJ
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	617.44	656.16	633.82
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	595.72	631.65	609.21
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	577.05	610.59	588.05
WW0163	Providing & fixing 75mm thick split bamboo wall including grooving frames, 20mm mud plaster both sides (excluding cost of frame)	sq.m	342.55	366.14	341.62
WW0164	Providing & fixing 150mm thick split bamboo wall including grooving frames, 60mm mud plaster both sides (excluding cost of frame)	sq.m	392.31	415.89	391.38
WW0165	Providing & fixing split Bamboo matting (excluding the cost of framing and beading)	sq.m	94.56	100.69	119.06
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	1735.78	1653.05	1605.03
WW0171	75mm framing, 38mm thick Mixed Conifer panelling	sq.m	1622.48	1548.70	1505.78
WW0172	100mm framing, 38mm thick Champ or Blue Pine panelling	sq.m	1746.07	1669.84	1621.82
WW0173	75mm framing, 38mm thick Champ or Blue Pine panelling	sq.m	1631.60	1563.58	1520.66
Providing & fixing Panelled or Panelled-&Glazed, Plywood panelling from both sides including frame					
WW0180	100mm framing, 4mm Commercial Ply	sq.m	940.44	937.22	888.47
WW0181	75mm framing, 4mm Commercial Ply	sq.m	836.04	841.76	798.12
WW0182	100mm framing, 4mm Teak Ply	sq.m	1453.73	1424.83	1401.75
WW0183	75mm framing, 4mm Teak Ply	sq.m	1343.58	1323.20	1305.42
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	1932.04	1903.15	1880.06
WW0191	75mm, 12mm blue pine	sq.m	1821.90	1801.51	1783.73
WW0192	100mm, 12mm mixed conifer	sq.m	1929.59	1900.70	1877.61
WW0193	75mm, 12mm mixed conifer	sq.m	1819.45	1799.06	1781.28
WW0194	100mm, 12mm champ wood	sq.m	2124.15	2095.25	2072.17
WW0195	75mm, 12mm champ wood	sq.m	2014.00	1993.62	1975.84
Door & Window Shutters					
Providing & fixing 25mm thick Panelled or glazed Shutters for cup-boards etc. complete including hinges					
WW0200	Champ wood	sq.m	1355.83	1307.83	1263.62
WW0201	Mixed Conifer	sq.m	1158.49	1107.54	1063.32
Providing & fixing 35mm thick Panelled or glazed doors and windows Shutters etc. complete including hinges					
WW0210	Champ wood	sq.m	1548.36	1519.72	1440.68
WW0211	Mixed Conifer	sq.m	1353.08	1320.48	1241.45
Providing & fixing 38mm thick Panelled or glazed doors and windows Shutters etc. complete including hinges					
WW0220	Champ wood	sq.m	1576.68	1545.29	1464.55
WW0221	Mixed Conifer	sq.m	1381.01	1345.42	1264.68

Code	Description	Units	PL	GP	SJ
Providing & fixing 44mm thick Panelled or glazed doors and windows Shutters etc. complete including hinges					
WW0230	Champ wood	sq.m	1621.41	1585.77	1502.38
WW0231	Mixed Conifer	sq.m	1424.02	1383.79	1300.41
Providing & fixing 50mm thick Panelled or glazed doors and windows Shutters etc. complete including hinges					
WW0240	Champ wood	sq.m	1690.80	1648.43	1560.86
WW0241	Mixed Conifer	sq.m	1514.95	1467.39	1387.98
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	1119.00	1132.96	1093.46
WW0251	Mixed Conifer	sq.m	872.74	884.48	844.98
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	1205.38	1210.97	1166.26
WW0261	Mixed Conifer	sq.m	957.93	960.54	915.83
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	1232.28	1235.26	1188.93
WW0271	Mixed Conifer	sq.m	984.46	984.23	937.90
Providing & fixing Battened door & window shutters 20mm, with ledges and braces (25 mm), including the cost of hinges					
WW0280	Champ wood	sq.m	1029.37	993.95	986.57
WW0281	Blue pine	sq.m	1029.37	993.95	986.57
WW0282	Mixed Conifer	sq.m	1022.31	982.44	975.06
Providing & fixing battened garage door with ledges and braces (38mm) in Mixed Conifer, including mountings etc. complete					
WW0290	22 mm	sq.m	1131.35	1050.36	1046.55
Providing & fixing battened and framed door shutters, Mixed Conifer excluding the cost of hinges					
WW0295	38mm	sq.m	922.45	893.14	890.00
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	1020.71	1008.43	988.48
WW0301	Providing & fixing Mixed Conifer venetians 50mm wide, 10mm thick at 45mm apart in ventilators above doors (excluding frame)	sq.m	346.46	338.83	334.48
Trellis					
WW0310	Providing & fixing plain trellis of 38x12mm laths with 38mm gap (excluding frames) including fixing beading 50x12mm with Mixed Conifer	sq.m	603.24	577.80	563.30
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	1080.91	1063.06	1076.46

Code	Description	Units	PL	GP	SJ
Compound Gates					
WW0320	Providing & fixing Compound Gate including hinge-supports complete as per standard design- Mixed conifer	sq.m	1442.57	1334.72	1463.81
Window Accessories					
WW0325	Providing & fixing M.S. round or square bars in window frames	kg	76.80	99.26	102.68
WW0326	Providing & fixing M.S. round or square bars with M.S. flats in window frames	kg	74.69	92.11	98.91
WW0327	Providing & fixing ornamental steel grills in frames with M.S. flats & bars including round headed bolts and nuts etc.	kg	141.52	135.10	156.92
WW0328	Providing & fixing expanded metal 20x60mm strands 3.25x1.6mm including 60x20mm beading of Mixed Conifer	sq.m	476.03	461.21	480.86
Pre-fabricated shutters					
Providing & fixing Flush Door shutters with pre-laminated bison panel					
WW0335	25mm	sq.m	775.24	775.24	775.24
WW0336	30mm	sq.m	992.62	992.62	992.62
Providing & fixing Flush Door shutters (pre-fabricated), block-board core with commercial ply veneer					
WW0345	25mm	sq.m	1288.63	1294.81	1312.31
WW0346	30mm	sq.m	1510.03	1470.61	1487.29
WW0347	35mm	sq.m	1699.10	1711.97	1720.60
WW0348	40mm	sq.m	1769.55	1768.72	1796.43
Providing & fixing flush door shutters (pre-fabricated), block-board core with teak ply veneer					
WW0355	25mm	sq.m	1956.39	1959.75	1977.52
WW0356	30mm	sq.m	2309.54	2345.87	2345.87
WW0357	35mm	sq.m	2547.09	2566.35	2595.52
WW0358	40mm	sq.m	3025.23	2869.66	2910.48
Providing & fixing flush door shutters (pre-fabricated), block-board core with ply veneer, chemically treated					
WW0365	25mm	sq.m	1269.15	1394.90	1432.63
WW0366	30mm	sq.m	1487.29	1634.86	1679.13
WW0367	35mm	sq.m	1743.93	1917.17	1969.14
WW0368	40mm	sq.m	2000.58	2199.47	2259.14
Providing & fixing panelled doors, with 12mm particle board panels with horizontal middle rail including prime coat					
WW0375	30mm	sq.m	1726.61	1726.61	1726.61
WW0376	35mm	sq.m	1747.78	1747.78	1747.78
WW0377	40mm	sq.m	1761.90	1761.90	1761.90
Providing & fixing panelled doors, with 12mm plywood panels with horizontal middle rail including prime coat					
WW0385	30mm	sq.m	1267.87	1267.87	1267.87
WW0386	35mm	sq.m	1283.39	1283.39	1283.39
WW0387	40mm	sq.m	1375.14	1375.14	1375.14
Providing & fixing panelled doors, with 9mm plywood panels with horizontal middle rail including prime coat					
WW0395	30mm	sq.m	1243.87	1243.87	1243.87
WW0396	35mm	sq.m	1256.57	1256.57	1256.57
WW0397	40mm	sq.m	1265.04	1265.04	1265.04

Code	Description	Units	PL	GP	SJ
Providing & fixing panelled doors, with 12mm particle board panels with horizontal single lock rail & stile including prime coat					
WW0400	30mm	sq.m	1785.90	1785.90	1785.90
WW0401	35mm	sq.m	1791.54	1791.54	1791.54
WW0402	40mm	sq.m	1794.36	1794.36	1794.36
Providing & fixing panelled doors, with 12mm plywood panels with horizontal single lock rail & stile including prime coat					
WW0410	30mm	sq.m	1328.56	1328.56	1328.56
WW0411	35mm	sq.m	1331.38	1331.38	1331.38
WW0412	40mm	sq.m	1337.03	1337.03	1337.03
Providing & fixing panelled doors, with 9mm plywood panels with horizontal single lock rail & stile including prime coat					
WW0420	30mm	sq.m	1280.57	1280.57	1280.57
WW0421	35mm	sq.m	1286.22	1286.22	1286.22
WW0422	40mm	sq.m	1293.27	1293.27	1293.27
Providing & fixing panelled doors, with 12mm particle board panels with horizontal double lock rail & stile including prime coat					
WW0430	30mm	sq.m	1804.96	1804.96	1804.96
WW0431	35mm	sq.m	1843.77	1843.77	1843.77
WW0432	40mm	sq.m	1848.00	1848.00	1848.00
Providing & fixing panelled doors, with 12mm plywood panels with horizontal double lock rail & stile including prime coat					
WW0440	30mm	sq.m	1347.27	1347.27	1347.27
WW0441	35mm	sq.m	1350.10	1350.10	1350.10
WW0442	40mm	sq.m	1358.20	1358.20	1358.20
Providing & fixing panelled doors, with 9mm plywood panels with horizontal double lock rail & stile including prime coat					
WW0450	30mm	sq.m	1296.46	1296.46	1296.46
WW0451	35mm	sq.m	1304.93	1304.93	1304.93
WW0452	40mm	sq.m	1316.22	1316.22	1316.22
Providing & fixing panelled doors, with 9mm plywood panels with horizontal double lock rail & stile including prime coat					
WW0460	30mm	sq.m	687.73	687.73	687.73
WW0461	35mm	sq.m	699.02	699.02	699.02
WW0462	40mm	sq.m	704.67	704.67	704.67
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	873.54	813.37	779.14
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	4977.51	4758.78	4686.54
WW0476	Champ wood	each	5293.24	5079.25	5007.02

Code	Description	Units	PL	GP	SJ
Extras for Cupboards including frame of mixed conifer					
WW0485	For additional depth of 50mm or part thereof	50mm	247.72	237.22	235.82
WW0486	For additional width of 100mm or part thereof including shutters of Mixed conifer	100mm	462.98	455.11	457.27
WW0487	For additional width of 100mm or part thereof, including shutters of Champ wood	100mm	461.37	453.50	455.66
WW0488	For additional height of 100mm or part thereof, including shutters of Mixed conifer	100mm	358.30	349.49	349.60
WW0489	For additional height of 100mm or part thereof, including shutters of Champ wood	100mm	357.32	348.50	348.62

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	478.87	456.80	442.43
WW0496	900 mm high, Mixed Conifer	m	469.68	445.27	430.90
WW0497	1000 mm high, Champ wood	m	550.97	525.90	509.55
WW0498	1000 mm high, Mixed Conifer	m	546.72	518.96	502.61
WW0499	1200 mm high, Champ wood	m	651.15	621.59	602.31
WW0500	1200 mm high, Mixed Conifer	m	646.13	613.41	594.13

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	142.11	136.78	134.87
WW0506	Mixed Conifer	m	138.30	132.52	130.61

Providing & fixing 150x12mm, with 25mm dia. wooden curtain rod and brackets including M.S flats 25x3x100mm and plugs etc. complete

WW0515	Champ wood	m	150.19	144.07	141.68
WW0516	Mixed Conifer	m	147.09	140.63	137.64

Shutters Fittings

Providing & fixing M.S. pressed butt hinges with necessary screws etc. complete

WW0525	100mm	each	35.30	42.29	53.96
WW0526	75mm	each	30.34	36.46	37.63
WW0527	50mm	each	24.80	27.71	28.00

Providing & fixing M.S tower bolt (barrel type) with necessary screws etc. complete

WW0535	250mm	each	50.28	61.94	77.69
WW0536	150mm	each	38.28	45.28	56.94
WW0537	100mm	each	30.89	41.39	39.44

Providing & fixing M.S. sliding door bolt, bright finished, enamelled with necessary screws etc. complete

WW0545	300mm	each	120.61	124.11	133.44
WW0546	250mm	each	108.94	121.19	117.89
WW0547	200mm	each	97.28	112.44	103.89

Code	Description	Units	PL	GP	SJ
Providing & fixing M.S. handle with necessary screws etc. complete					
WW0555	150mm	each	40.14	41.11	54.72
WW0556	125mm	each	32.55	31.39	37.22
WW0557	100mm	each	27.89	25.56	31.39
WW0558	75mm	each	23.22	19.72	25.56
Providing & fixing M.S. hook-and-eye with necessary screws etc. complete					
WW0565	300mm	each	60.55	78.05	78.05
WW0566	200mm	each	43.05	48.89	54.72
WW0567	150mm	each	25.56	25.56	31.39
WW0568	100mm	each	19.72	23.61	19.72
M.S door stopper					
WW0575	Providing & fixing M.S. door stopper with nuts and necessary screws complete	each	97.02	85.36	108.69
Providing & fixing anodised aluminium butt hinges with necessary aluminium screws etc. complete					
WW0580	100mm	each	63.78	69.61	60.28
WW0581	75mm	each	54.45	52.11	46.28
Providing & fixing anodised aluminium tower bolt (barrel type) with aluminium screws etc. complete					
WW0590	200mm	each	57.89	88.51	69.26
WW0591	150mm	each	43.86	45.32	43.86
WW0592	100mm	each	30.44	36.57	32.89
Providing & fixing anodised aluminium sliding door bolts with nuts and aluminium screws etc. complete					
WW0600	300mm	each	195.52	192.11	205.73
WW0601	250mm	each	166.85	172.68	185.90
WW0602	200mm	each	153.23	164.90	161.40
Providing & fixing anodised aluminium handle with necessary aluminium screws etc. complete					
WW0610	150mm	each	33.92	43.25	37.42
WW0611	125mm	each	28.09	34.50	31.00
WW0612	100mm	each	23.42	28.67	24.59
WW0613	75mm	each	19.92	21.38	19.34
Providing & fixing anodised aluminium hook-and-eye with necessary screws etc. complete					
WW0620	300mm	each	54.92	84.08	94.87
WW0621	200mm	each	39.75	60.75	49.08
WW0622	150mm	each	28.09	37.42	34.50
WW0623	100mm	each	23.42	25.75	23.13
Kicking plate					
WW0630	Providing & fixing anodised aluminium kicking plate, 4mm thick with necessary aluminium screws etc. complete	sq.m	487.66	487.66	505.16
Providing & fixing brass pressed butt hinges with necessary screws etc. complete					
WW0635	100mm	each	97.18	106.90	102.24
WW0636	75mm	each	81.62	95.24	68.70
WW0637	50mm	each	62.19	71.91	47.41

Code	Description	Units	PL	GP	SJ
Providing & fixing brass tower bolt (barrel type) with necessary screws etc. complete					
WW0645	250mm	each	190.58	184.75	181.84
WW0646	150mm	each	131.35	138.35	148.85
WW0647	100mm	each	96.35	109.97	91.69
Providing & fixing brass sliding door bolt with nuts necessary screws etc. complete					
WW0655	300mm	each	610.08	601.33	726.74
WW0656	250mm	each	592.58	475.93	598.42
WW0657	200mm	each	528.42	446.77	540.09
Providing & fixing brass handle with necessary screws etc. complete					
WW0665	150mm	each	78.25	92.83	124.04
WW0666	125mm	each	62.70	66.58	95.75
WW0667	100mm	each	54.92	63.67	76.15
WW0668	75mm	each	45.20	54.92	57.72
Other fittings					
WW0675	Providing & fixing bright finish brass 100 mm mortise latch & pair of levers, handles with necessary screws etc. complete	each	764.62	997.93	862.61
WW0676	Providing & fixing bright finish brass spring-loaded, hinged door-closer with necessary screws etc. complete	each	668.41	785.06	839.89
WW0677	Providing & fixing bright finish brass hydraulic door-closer	each	930.26	1076.08	1128.58
WW0678	Providing & fixing bright finished brass door stopper with nuts and necessary screws etc. complete	each	119.32	121.65	133.32
Providing & fixing bright finished brass hook-and-eye with necessary screws etc. complete					
WW0685	150mm	each	57.83	72.42	78.25
WW0686	100mm	each	45.00	54.92	54.92
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	76.86	75.75	84.53
Ceiling Insulation					
WW0700	Providing & laying dry earth in ceilings in proportion 1:5 (1 straw: 5 dry earth) including plastic underlay	cu.m	594.90	517.09	645.41
Skylight					
WW0705	Providing & fixing skylight translucent diffuser panel including 50x12 beading etc. complete	sq.m	1126.11	1125.95	1128.49
Timber Carving					
WW0710	Providing & fixing Decorative Traditional Timber Carving	sq.m	908.51	908.51	908.51

Code	Description	Units	PL	GP	SJ
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	98.18	79.80	103.08
SW0002	In Flats	kg	86.37	80.24	101.06
SW0003	In Tees, angles and channels	kg	86.78	80.65	101.48
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	97.80	79.72	104.46
SW0011	In Tees, angles, flats and channels	kg	146.03	136.82	159.20
Steel work welded, in built up sections, trusses, frame-works including cutting, hoisting, fixing and appl. priming coat of red lead paint					
SW0020	In R.S. joists	kg	99.03	80.65	105.56
SW0021	In Tees, angles, flats and channels	kg	92.84	83.56	105.99
SW0022	In Tubular sections	kg	69.09	67.87	70.21
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	4277.84	4093.82	4781.13
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	1457.07	1457.07	1457.07
SW0036	Top cover for rolling shutters	m	626.32	626.32	626.32
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	440.75	440.75	440.75
SW0046	Sliding and open able doors	kg	442.14	442.14	442.14
SW0047	Partition framing	kg	437.97	437.97	437.97
SW0048	False ceiling framing	kg	436.85	436.85	436.85
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	561.91	554.95	603.30
SW0056	5.5mm thick, plain glass	sq.m	766.06	771.89	789.26
SW0057	5.5mm thick frosted glass	sq.m	847.72	748.56	732.77
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	1947.15	1932.91	1922.23
SW0066	Windows fixed	sq.m	1031.70	1017.63	1007.09
SW0067	Windows side hung	sq.m	1348.38	1334.09	1323.38
SW0068	Ventilators top hung	sq.m	1342.23	1328.16	1317.63
SW0069	Ventilators centre hung	sq.m	1525.73	1511.66	1501.13

Code	Description	Units	PL	GP	SJ
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	258.57	247.71	258.56
Steel Fasteners					
SW0080	Providing & fixing M.S. round hold-down bolts with nuts and washer plates	kg	66.45	78.97	86.78
SW0081	Providing & fixing bolts of various sizes including nuts & washers	kg	122.51	128.34	124.46
SW0082	Providing & fixing M.S. rivets of various sizes	kg	138.09	133.43	149.76
Plates					
SW0090	Providing, making and fixing M.S. straps, flats, sole plates etc.	kg	87.74	75.57	98.56
Fan Clamps					
SW0095	Providing & fixing M.S. fan clamps of 16 mm dia. in R.C. slabs, including painting with red lead paint	each	118.53	153.23	158.53
Steel Formworks					
SW0100	Providing and fixing steel form work in foundations, footings, bases of columns etc for mass concrete	sq.m	333.90	341.70	347.19
SW0101	Providing and fixing steel form work in suspended floors, roofs, landings, shelves and their support, balconies, chajjas etc	sq.m	554.57	553.08	582.80
SW0102	Providing and fixing steel form work in lintels, beams, girders, bresummers, cantilevers, etc.	sq.m	544.66	552.60	567.96
SW0103	Providing and fixing steel form work in columns, pillars, posts, struts etc.	sq.m	940.84	971.51	968.54

Code	Description	Units	PL	GP	SJ
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Chapter 13: FLOORING

Brick Flooring

Providing & laying 2nd class Brick-on-edge flooring

FL0001	In cement mortar 1:4	sq.m	614.90	669.84	661.22
FL0002	In cement mortar 1:6	sq.m	589.23	640.87	632.11
FL0003	In dry brick , including filling joints with sand on bedding of 12.5mm mud mortar	sq.m	529.48	574.67	565.13

Providing & laying 2nd class Flat brick flooring

FL0010	In cement mortar 1:4	sq.m	434.40	470.69	465.62
FL0011	In cement mortar 1:6	sq.m	411.62	445.01	439.86
FL0012	In dry brick, filling joints with sand, on a base of 12.5mm mud mortar	sq.m	335.00	362.99	357.17

Providing & laying pointing on brick flooring with cement mortar 1:2

FL0020	Flush pointing	sq.m	46.57	47.24	47.34
FL0021	Ruled pointing	sq.m	50.36	51.03	51.13

Providing & laying pointing on brick flooring with cement mortar 1:4

FL0030	Flush pointing	sq.m	46.57	47.24	47.34
FL0031	Ruled pointing	sq.m	50.36	51.03	51.13

Providing & laying Pointing on brick flooring with cement mortar 1:6

FL0040	Flush pointing	sq.m	44.76	45.21	45.30
FL0041	Ruled pointing	sq.m	48.55	49.00	49.08

Concrete Flooring

Pal cement concrete flooring 1:2:4, finished with floating coat of neat cement

FL0050	12mm aggregates, 25mm thick	sq.m	184.31	194.71	198.61
FL0051	20mm aggregates, 40mm thick	sq.m	252.77	268.31	274.57
FL0052	20mm aggregates, 50mm thick	sq.m	294.87	313.82	321.63
FL0053	20mm aggregates, 75mm thick	sq.m	395.34	422.32	433.99
FL0054	20mm river gravel, 40mm thick	sq.m	489.96	512.85	519.29
FL0055	20mm river gravel, 50mm thick	sq.m	591.06	619.18	627.20

Providing & laying cement concrete flooring 1:3:6, finished with a floating coat of neat cement

FL0060	20mm aggregates, 50mm	sq.m	265.44	280.65	288.99
FL0061	20mm river gravel, 50mm	sq.m	235.86	249.43	250.71

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	581.10	591.87	598.58
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Code	Description	Units	PL	GP	SJ
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	508.63	523.33	533.08
Extra for Concrete flooring					
FL0080	Extra for making chequers on concrete floors, steps, landings, pavements etc.	sq.m	20.04	20.04	20.04
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	621.70	632.76	641.26
FL0086	In white cement	sq.m	742.45	753.17	756.54
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	42.37	41.61	42.88
FL0096	Extra for coloured chips instead of black, white or black and white chips in top 10mm layer marble chips flooring	sq.m	68.18	66.96	69.00
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	650.82	660.13	670.17
FL0106	In white cement	sq.m	808.75	816.22	819.07
Extra for Terrazzo Flooring					
FL0115	Extra for Providing & fixing glass strips in joints of terrazzo floors	m	38.32	37.48	36.83
FL0116	Extra for terrazzo flooring laid as floor borders, margins, bands, 75 < width > 300mm	sq.m	16.60	16.60	16.60
FL0117	Extra for laying terrazzo flooring on stair case treads, width < 300mm including forming nosing	sq.m	24.90	24.90	24.90
FL0118	Extra for laying terrazzo in narrow bands width <75mm	m	1.76	1.76	1.76
FL0119	Extra for making moulded nosing in terrazzo, including moulded returns, ends, angles	m	67.28	67.28	67.28
FL0120	Providing & fixing aluminium strip 40x1.6mm in joints of terrazzo floor	m	125.08	125.08	125.08

Code	Description	Units	PL	GP	SJ
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	227.31	238.94	240.22
FL0131	22mm	sq.m	239.97	252.96	254.40
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	601.16	608.76	612.93
FL0141	In white cement	sq.m	714.28	720.56	719.56
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	2220.84	2174.89	2186.21
FL0151	20mm thick white marble	sq.m	2172.70	2215.14	2306.95
FL0152	20mm thick black and white marble	sq.m	2183.35	2275.51	2441.10
FL0153	20mm thick coloured marble	sq.m	2089.10	2101.11	2102.37
FL0154	40mm thick black marble	sq.m	1897.35	1909.72	1910.99
FL0155	40mm thick white marble	sq.m	1825.72	1838.08	1839.35
FL0156	40mm thick black and white marble	sq.m	1984.55	1996.92	1998.19
FL0157	40mm thick coloured marble	sq.m	2241.48	2342.58	2508.18
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	1841.48	1853.50	1854.75
FL0161	40mm	sq.m	2797.47	2809.48	2810.74
Extras for Marble stone flooring					
FL0170	Extra for marble stone flooring for laying in step-treads, width < 300 mm	m	206.72	206.72	206.72
FL0171	Extra for marble stone flooring for nosing in step-treads	m	173.77	173.77	173.77
Timber Flooring					
Providing & fixing bison panel flooring including nails/screws etc. complete excluding the cost of frame					
FL0180	25mm	sq.m	923.52	923.52	923.52
FL0181	30mm	sq.m	1151.77	1151.77	1151.77
Providing & fixing Plain Particle-Board Flooring fixing with necessary screws etc. complete, excluding cost of frame					
FL0190	25mm	sq.m	967.45	821.64	833.30
FL0191	35mm	sq.m	1263.17	1236.34	1236.34
Providing & fixing Mixed Conifer Flooring including fixing with iron screws etc. complete, excluding the cost of frame					
FL0200	25mm thick, T&G	sq.m	526.20	481.60	456.16
FL0201	25mm thick, half-lapped	sq.m	502.81	458.21	432.78
FL0202	40mm thick, T&G	sq.m	760.01	691.18	651.94
FL0203	40mm thick, half-lapped	sq.m	753.63	684.81	645.56
FL0204	45mm thick, T&G	sq.m	818.47	744.40	702.17
FL0205	45mm thick, half-lapped	sq.m	808.44	734.37	692.14

Code	Description	Units	PL	GP	SJ
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	2516.83	2459.46	2423.80
Providing & fixing Pre-Fabricated Flooring Profiles in mixed conifer including necessary screws etc. complete					
FL0215	25mm thick	sq.m	814.13	814.13	814.13
FL0216	38mm thick	sq.m	875.01	875.01	875.01
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	863.46	862.48	889.75
Mud flooring					
FL0230	Providing & laying rammed mud flooring complete	sq.m	80.71	80.71	80.71

Code	Description	Units	PL	GP	SJ
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	1756.45	1765.73	1687.84
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	1573.02	1582.31	1504.42
GL0006	for 100 x 100 mm	sq.m	3190.78	3083.41	3212.58
GL0007	for 200 x 100 mm	sq.m	1950.26	1901.22	1872.91
GL0008	for 200 x 200 mm	sq.m	1244.03	1280.53	1281.39
GL0009	for 300 x 300 mm	sq.m	851.06	944.34	1068.85
Extra for laying glazed tiles					
GL0015	In treads of steps, width <300mm	sq.m	92.44	92.44	92.44
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	532.77	532.77	532.77

Code	Description	Units	PL	GP	SJ
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Chapter 15: ROOFING

C.G.I Sheeting

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	658.21	649.93	654.07
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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	553.92	516.85	522.14
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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	433.85	405.90	425.66
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Extra for Galvanised Iron

RF0015	Extra for Providing & fixing curved C.G.I. sheet in roofing	sq.m	7.05	7.05	7.05
RF0016	Extra for Providing & fixing C.G.I. sheets vertically or to a pitch > 60 degrees	sq.m	7.09	7.09	7.09
RF0017	Extra for making straight-cut openings (in 24g) for chimney, sky lights	m	134.61	133.22	133.92

Extra for making opening or recess in CGI roofing of girth < 1 metre

RF0025	Area upto 0.01sq.m	each	20.61	20.61	20.61
RF0026	0.01 < Area < 0.04sq.m	each	50.60	50.60	50.60
RF0027	Area > 0.04sq.m	each	75.90	75.90	75.90

Wind Bracing

RF0060	Providing & fixing wind tie of 40 x 6 mm flats	m	161.87	150.20	189.87
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Thatched Roofing

RF0065	Providing & fixing 150mm thatched roofing, including straws/grass bundles, half split bamboo fillet, tying strings complete	sq.m	737.53	793.77	701.23
RF0066	Providing & fixing 25mm dia. bamboos at 225mm apart including moonj ban(rope) or string	sq.m	377.98	422.77	349.06
RF0067	Providing & fixing thatched coping to ridges and hips, girth <1 metre including tying and split bamboo wind tie complete	m	1404.24	1464.80	1365.14

Slate Roofing

RF0075	Providing & fixing single slate roofing including bitumen felt water-proofing etc complete, excluding the cost of wooden reapers, trusses	sq.m	737.04	737.04	737.04
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Code	Description	Units	PL	GP	SJ
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	216.23	216.23	216.23
RF0081	8mm	sq.m	251.52	251.52	251.52
RF0082	10mm	sq.m	260.42	260.42	260.42
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	269.17	269.17	269.17
RF0091	8mm	sq.m	278.06	278.06	278.06
RF0092	10mm	sq.m	286.81	286.81	286.81
Providing & fixing PLAIN Super Roman concrete tiles-600mm x 330mm including tying wires but excluding the cost of frame work					
RF0100	10mm	sq.m	309.83	309.83	309.83
Providing & fixing COLOURED Super Roman concrete tiles-600mm x 330mm including tying wires but excluding the cost of frame work					
RF0105	10mm	sq.m	343.71	343.71	343.71
Providing & fixing PLAIN Semi-Sheet concrete tiles-600mm x 600mm including tying wires but excluding the cost of frame work					
RF0110	8mm	sq.m	167.52	167.52	167.52
Providing & fixing COLOURED Semi-Sheet concrete tiles-600mm x 600mm including tying wires but excluding the cost of frame work					
RF0115	8mm	sq.m	257.86	257.86	257.86
Providing and fixing concrete tiles ridges or hips including tying wire etc. complete					
RF0120	Plain	m	85.42	85.42	85.42
RF0121	Coloured	m	133.41	133.41	133.41
Shinglep Roofing					
RF0130	Providing & fixing shinglep roofing with shinglep of size 1350x125x12mm in 3 layers including tying, uplift protection complete	sq.m	313.43	313.43	315.43
Red- Mud Plastic Sheeting					
RF0135	Providing & fixing red mud corrugated plastic sheeting, 1.5 mm thick	sq.m	545.03	545.03	545.03
RF0136	Providing & fixing red mud plastic sheet 600 mm ridging, 1.3mm thick	m	475.41	475.41	475.41
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	1579.55	1579.55	1579.55

Code	Description	Units	PL	GP	SJ
Concrete Terracing On Roofs					
Providing & laying lime concrete terracing on roofing , average depth 100mm					
RF0155	including drainage fall, ramming, rounding at parapets	sq.m	782.74	802.75	744.37
RF0156	including drainage fall, ramming, rounding at parapets and under-coat of hot bitumen 80/100	sq.m	889.94	910.09	851.73
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	524.29	553.77	573.88
RF0166	Painting roof with bitumen including spreading sand, cleaning slab etc. complete	sq.m	114.04	114.20	114.58
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	1384.62	1519.36	1384.62
RF0176	100mm dia C.I. head for pipe	each	304.91	311.91	304.91
RF0177	100mm dia C.I. bend for pipe	each	334.08	352.74	334.08
RF0178	100mm dia C.I. shoes for pipe	each	514.89	555.72	596.55
Providing & fixing 100mm dia C.I. offset for rain water pipe on wall face including filling joints					
RF0185	75mm projection	each	442.57	393.57	372.57
RF0186	150mm projection	each	660.71	677.04	719.04
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	331.59	322.65	331.40
RF0191	90mm dia	m	391.91	412.86	370.28
RF0192	110mmdia	m	449.02	435.41	392.64
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	179.87	201.25	181.81
RF0196	90 mm	each	230.81	227.31	234.31
RF0197	110 mm	each	255.01	263.47	266.39
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	223.03	251.80	225.56
RF0201	90 mm	each	306.78	303.13	298.47
RF0202	110 mm	each	380.12	368.46	356.79
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	213.70	240.14	193.48
RF0206	90 mm	each	284.69	314.80	292.63
RF0207	110 mm	each	348.04	350.96	321.80

Code	Description	Units	PL	GP	SJ
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	195.03	210.98	216.81
RF0211	90 mm	each	262.30	262.30	292.63
RF0212	110 mm	each	301.97	304.30	333.46
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	238.19	252.39	240.14
RF0216	90 mm	each	292.63	299.34	304.30
RF0217	110 mm	each	350.96	348.63	362.63

Code	Description	Units	PL	GP	SJ
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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	152.94	181.37	187.92
PI0002	20mm	m	190.05	240.89	227.92
PI0003	25mm	m	261.10	301.04	299.14
PI0004	32mm	m	329.19	392.38	410.85
PI0005	40mm	m	385.73	471.32	476.31
PI0006	50mm	m	499.13	600.14	577.43

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

PI0010	20mm	m	75.32	83.08	81.34
PI0011	25mm	m	96.83	99.16	99.61
PI0012	32mm	m	169.98	176.92	166.13
PI0013	40mm	m	178.75	232.18	173.85
PI0014	50mm	m	252.54	288.18	263.10

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	7431.45	7201.51	7556.64
PI0021	810 litre capacity of 2.8mm steel sheet	each	15984.23	15240.41	16112.66
PI0022	1620 litre capacity of 3.15mm steel sheet	each	24545.94	23305.81	24677.22

Providing & fixing plastic tank including all accessories complete

PI0030	270 litre capacity	each	2688.73	2774.28	2752.89
PI0031	500 litre capacity	each	4589.00	4736.77	4854.39
PI0032	1000 litre capacity	each	7771.89	8969.54	9472.13
PI0033	2000 litre capacity	each	15013.01	17416.10	18353.71
PI0034	3000 litre capacity	each	22287.32	26012.51	23894.25

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	3825.55	3610.90	4286.19
PI0041	580mm, white Orissa-model	each	4579.14	4450.82	5102.78
PI0042	580mm, colour Orissa-model	each	5351.01	5279.07	5802.71

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	4601.59	4565.13	5419.63
PI0051	coloured, with plastic seat & lid	each	5956.73	7081.96	7251.11

Foot Rests

PI0060	Providing & fixing white vitreous china foot rests (250x130x30mm) for Indian W.C	pair	172.50	160.84	149.17
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Code	Description	Units	PL	GP	SJ
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	3698.40	3605.07	4180.18
PI0066	Two bowls-10 litres. C.I. cistern	each	5369.61	5684.58	6399.67
PI0067	Three bowls-10 litres. C.I. cistern	each	6849.92	7223.22	8229.95
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	20106.47	20724.45	21839.09
PI0076	Fibreglass tub, white	each	17209.43	18644.00	18300.45
PI0077	P-Trap, heavy duty, for bath-tub	each	114.13	138.62	126.96
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	4751.26	4232.92	4624.30
PI0086	Flat back wash basin 630x450mm with single 15mm c.p. brass pillar taps	each	4164.72	3784.62	4164.33
PI0087	Flat back wash basin 550x400mm with a pair of 15mm c.p. brass pillar taps	each	3819.96	3416.34	3516.08
PI0088	Flat back wash basin 550x400mm with single 15mm c.p. brass pillar tap	each	3233.42	2968.03	3056.11
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	3122.60	3038.02	3099.85
PI0096	With pair of 15mm c.p. brass pillar taps	each	3709.14	3486.33	3559.82
Flush Valve & Bend					
PI0105	Providing & fixing c.p. flush valve, 32mm with 40mm outlet	each	1264.93	1247.37	1250.98
PI0106	Providing & fixing c.p. concealed flush valve, 32mm with 40mm outlet	each	1440.08	1421.60	1432.41
PI0107	Providing & fixing c.p. flush bend, long	each	536.13	532.45	568.50
PI0108	Providing & fixing c.p. flush valve elbow	each	456.51	454.35	466.37

Code	Description	Units	PL	GP	SJ
Pedestals & Kitchen Sinks					
PI0115	Providing & fixing pedestals for basins, white vitreous china, recessed back for pipes and necessary fittings	each	1384.60	1431.26	1705.40
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	4096.72	4788.19	5033.16
PI0121	Stainless steel, 450 x 400 x 150 mm, single bowl	each	1048.90	1165.56	1282.21
PI0122	Stainless steel, 580 x 480 x 175 mm, single bowl	each	1340.54	1340.54	1573.85
PI0123	Stainless steel, 940 x 460 x 160 mm, single bowl & drain-board	each	1614.18	1719.17	1835.83
PI0124	Stainless steel, 1080 x 520 x 175 mm, single bowl & drain-board	each	2104.13	2652.41	2419.10
PI0125	Stainless steel, 1150 x 515 x 175 mm, single bowl & drain-board	each	2360.77	2798.23	2477.43
PI0126	Stainless steel, 1740 x 520 x 200 mm, single bowl & double drain-board	each	3031.04	3264.35	3264.35
PI0127	Stainless steel, 940 x 460 x 160 mm, double bowl	each	1864.99	1807.83	1882.49
PI0128	Stainless steel, 1150 x 520 x 160 mm, single bowl	each	2127.46	2451.77	2360.77
PI0129	Stainless steel, 1740 x 520 x 200 mm, double bowl & single drain-board	each	4115.94	3859.29	4264.09
PI0130	Stainless steel, 1740 x 520 x 200 mm, double bowl & double drain-board	each	4430.90	4430.90	4430.90
Drain Board, Rubber plug					
PI0140	Providing & fixing stainless steel drain-board, 610 x 460 mm with all necessary fittings	each	991.61	1254.09	1574.89
PI0141	Providing & fixing c.p. brass chain & rubber plug for basin and sink	each	130.56	142.22	183.05
W a s t e s					
PI0150	Providing & fixing 32mm dia pvc. waste	each	95.56	89.73	107.22
PI0151	Providing & fixing 32mm c.p. brass waste	each	206.38	235.55	241.38
PI0152	Providing & fixing 40mm c.p. brass waste	each	293.87	302.04	285.12
W a t e r H e a t e r s					
Providing & fixing Electric water heater including necessary fittings					
PI0160	10 litres	each	6637.31	7826.48	6730.52
PI0161	15 litres	each	7347.41	7896.90	7208.54
PI0162	25 litres	each	8487.71	8914.19	8296.68
PI0163	35 litres	each	10558.33	10506.53	9836.53
PI0164	50 litres	each	12877.49	13910.23	14811.41
PI0165	70 litres	each	17304.15	16990.74	16911.20
PI0166	100 litres	each	20960.48	22716.05	23443.24
W a t e r S u p p l y F i t t i n g s					
Providing & fixing C.P. Brass shower fittings					
PI0175	Shower with revolving joint, 15mm,	each	669.40	616.91	581.91
PI0176	Adjustable shower, with locking key, 15mm	each	809.39	902.71	888.13
PI0177	Shower arm, standard 15mm	each	611.08	436.09	605.24
PI0178	Shower arm, heavy duty 15mm	each	389.43	436.09	525.92
PI0179	Flexible shower tube & shower	each	1066.54	1143.53	1229.86
Providing & fixing c.p. brass stop cock					
PI0185	15mm, standard, c.p knob	each	547.30	504.14	709.07
PI0186	20mm, standard, c.p knob	each	698.57	541.08	786.06
PI0187	20mm, heavy-duty, c.p knob	each	843.22	704.40	1121.44
PI0188	15mm, concealed, c.p knob	each	873.16	643.16	975.04
PI0189	15mm, angle, c.p knob	each	552.75	543.03	436.09

Code	Description	Units	PL	GP	SJ
Providing & fixing c.p. brass pillar-cock					
PI0195	15mm, standard, c.p knob	each	597.66	459.42	471.09
PI0196	15mm, swan neck, c.p knob	each	1297.01	727.73	756.89
Providing & fixing c.p. brass bibcock					
PI0205	15mm, standard vertical, c.p knob	each	608.74	486.64	506.09
PI0206	15mm, inclined, c.p. knob	each	646.07	459.42	756.89
PI0207	15mm, long nose, c.p. knob	each	698.57	570.25	756.89
PI0208	15mm, long body, c.p. knob	each	713.73	611.08	763.89
Providing & fixing c.p. brass mixers, 15mm					
PI0215	For basin, single-hole, casted spout	each	2244.25	2185.92	2244.25
PI0216	For basin, close-hole	each	1917.61	1777.63	1952.61
PI0217	For basin, elbow action, surgical	each	2477.56	2477.56	2594.21
PI0218	For basin, elbow action, surgical with shower	each	2827.52	2652.54	2827.52
PI0219	For sink, with spout J pipe	each	1602.64	1602.64	1835.95
PI0220	For sink, with casted spout swinging	each	1485.99	1485.99	1590.98
PI0221	For sink, with swivel spout	each	844.39	844.39	902.71
PI0222	For wall, non-telephonic type	each	2522.66	2517.22	2652.54
PI0223	For wall, telephonic type with crutch and tel. shower	each	3112.16	2944.18	3469.12
PI0224	For wall, telephonic type without crutch and tel. shower	each	3177.49	3352.47	3527.45
PI0225	For wall, telephonic type with crutch and without tel. shower	each	2594.21	2290.91	2477.56
PI0226	For wall, telephonic type with C.P bend & flanges	each	1835.95	1835.95	1567.65
PI0227	For wall, with telephonic shower arrangement with 115mm long bend pipe for over head shower connection	each	191.12	206.28	237.78
PI0228	Three hole mixer without pop-up	each	3060.83	2929.01	2944.18
PI0229	Three hole mixer with pop-up	each	4214.55	4122.39	4110.73
PI0230	For bath, with exposed adjustable legs with telephone shower arrangement with crutch	each	3294.14	3294.14	3382.80
PI0231	For shower, three in one, with bend flexible tube, and shower & hook	each	1602.64	1602.64	1660.97
Providing & fixing Wall Spouts					
PI0240	C.p., standard, 15mm	each	538.85	527.18	538.85
PI0241	With diverter, for use with single lever mixers	each	1052.13	1057.96	1063.80
Bathroom Accessories					
PI0250	Providing & fixing 600x450mm bevelled edge mirror (superior glass) incl.4mm A.C sheet base fixed to wooden cleats	each	962.61	962.61	962.61
PI0251	Providing & fixing 450x120mm glass shelf, including c.p brass brackets fixed to wooden cleats	each	587.32	622.31	709.81
PI0252	Providing & fixing c.p. towel rail 750 x 20mm with c.p brass brackets fixed to wooden cleats	each	596.99	596.99	748.64
PI0253	Providing & fixing c.p. towel rail 600 x 20mm with c.p brass brackets fixed to wooden cleats	each	561.99	532.83	631.99
PI0254	Providing & fixing c.p. towel rail 450 x 20mm with c.p brass brackets fixed to wooden cleats	each	503.67	486.17	532.83
PI0255	Providing & fixing c.p. towel ring	each	415.15	411.26	418.07
Providing & fixing toilet paper holder					
PI0260	C.P. brass	each	455.03	437.53	475.44
PI0261	Recessed ceramic, 200 x 100 mm, coloured,	each	924.56	889.57	772.91
PI0262	Recessed ceramic, 200 x 100 mm, white	each	809.39	786.06	704.40
PI0263	Recessed ceramic, roll-type, 150 x 150 mm	each	774.39	774.39	686.90

Code	Description	Units	PL	GP	SJ
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	539.60	544.27	533.77
Providing & fixing soap dish					
PI0275	including brackets, wooden cleats, c.p. brass screws	each	411.28	347.12	323.79
PI0276	Recessed, ceramic, 150x150 mm	each	231.95	243.61	237.78
PI0277	Recessed, ceramic, 200x100 mm	each	342.77	319.44	319.44
Providing & fixing c.p coat hook					
PI0285	Single	each	240.17	275.16	228.50
PI0286	Double	each	345.16	321.83	298.50

Code	Description	Units	PL	GP	SJ
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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	109.96	138.39	144.94
PO0002	20mm	m	142.50	193.34	180.38
PO0003	25mm	m	212.17	252.12	250.21
PO0004	32mm	m	273.18	336.37	354.84
PO0005	40mm	m	313.48	399.07	404.06
PO0006	50mm	m	408.21	509.22	486.51
PO0007	65mm	m	516.20	621.15	624.39
PO0008	80mm	m	708.63	784.46	793.70
PO0009	100mm	m	932.33	1057.15	1171.47
PO0010	150mm	m	1461.81	1861.84	1934.07

Providing & laying H.D.P.E pipes, pressure class 10kg/sq.m, including H.D.P.E fittings (excluding trenching, refilling & thrust block)

PO0015	25mm	m	47.91	50.24	50.69
PO0016	32mm	m	72.98	79.92	69.13
PO0017	40mm	m	106.50	159.93	101.60
PO0018	50mm	m	161.62	197.26	172.18
PO0019	63mm	m	258.76	278.47	275.26
PO0020	75mm	m	355.75	382.00	381.42
PO0021	90mm	m	504.62	532.91	490.62
PO0022	110mm	m	736.97	776.57	756.16
PO0023	140mm	m	1070.86	1296.06	1191.07
PO0024	160mm	m	1355.56	1663.53	1681.03
PO0025	225mm	m	2630.60	3296.70	2975.90

Providing & laying H.D.P.E Pipes including H.D.P.E fittings pressure class 6 kg/sq.cm (excluding trenching, refilling & thrust block)

PO0030	32mm	m	46.64	64.17	63.59
PO0031	40mm	m	74.95	95.77	95.19
PO0032	50mm	m	108.60	124.93	118.52
PO0033	63mm	m	173.19	181.94	192.44
PO0034	75mm	m	234.03	242.02	259.51
PO0035	90mm	m	326.72	270.15	380.38
PO0036	110mm	m	476.77	470.35	477.35
PO0037	140mm	m	761.14	811.95	864.44
PO0038	160mm	m	977.60	1024.26	992.76
PO0039	225mm	m	1867.85	2022.24	1920.17

Providing & laying H.D.P.E Pipes including H.D.P.E fittings pressure class 4 kg/sq.cm (excluding trenching, refilling & thrust block)

PO0045	40mm	m	65.44	78.27	71.60
PO0046	50mm	m	91.63	98.68	89.94
PO0047	63mm	m	131.19	145.78	137.37
PO0048	75mm	m	168.87	183.69	178.44
PO0049	90mm	m	240.57	256.15	249.73
PO0050	110mm	m	346.46	365.36	353.70
PO0051	140mm	m	547.14	651.54	555.30
PO0052	160mm	m	700.31	806.11	725.62
PO0053	225mm	m	1317.59	1471.05	1395.22

Code	Description	Units	PL	GP	SJ
Providing & laying H.D.P.E Pipes including H.D.P.E fittings pressure class 2.5 kg/sq.cm (excluding trenching, refilling & thrust block)					
PO0060	110mm	m	235.29	266.79	269.70
PO0061	140mm	m	380.79	461.98	456.73
PO0062	160mm	m	477.50	547.14	536.64
PO0063	225mm	m	872.61	1019.59	1054.59
Providing and Laying Ductile Iron K - 9 pipes					
PO0065	80 mm	m	1076.84	1076.84	1076.84
PO0066	100 mm	m	1250.70	1250.70	1250.70
PO0067	150 mm	m	1823.72	1823.72	1823.72
PO0068	200 mm	m	2508.01	2508.01	2508.01
PO0069	250 mm	m	3332.25	3332.25	3332.25
PO0070	300 mm	m	4212.01	4212.01	4212.01
PO0071	350 mm	m	5279.24	5279.24	5279.24
PO0072	400 mm	m	6288.06	6288.06	6288.06
PO0073	450 mm	m	7419.68	7419.68	7419.68
PO0074	500 mm	m	8695.34	8695.34	8695.34
PO0075	600 mm	m	11920.10	11920.10	11920.10
Providing and Laying Ductile Iron K - 7 pipes					
PO0078	100 mm	m	1059.88	1059.88	1059.88
PO0079	150 mm	m	1643.87	1643.87	1643.87
PO0080	200 mm	m	2160.03	2160.03	2160.03
PO0081	250 mm	m	2844.75	2844.75	2844.75
PO0082	300 mm	m	3564.14	3564.14	3564.14
PO0083	350 mm	m	4485.75	4485.75	4485.75
PO0084	400 mm	m	5331.81	5331.81	5331.81
PO0085	450 mm	m	6235.91	6235.91	6235.91
PO0086	500 mm	m	7355.92	7355.92	7355.92
PO0087	600 mm	m	9968.63	9968.63	9968.63
Providing and Laying Double Flanged (Screwed or Welded) Centrifugally Spun Ductile Iron K-9 Pipes					
PO0090	100 mm	m	2131.46	2131.46	2131.46
PO0091	150 mm	m	3072.20	3072.20	3072.20
PO0092	200 mm	m	4319.93	4319.93	4319.93
PO0093	250 mm	m	5681.22	5681.22	5681.22
PO0094	300 mm	m	7046.15	7046.15	7046.15
PO0095	350 mm	m	8732.72	8732.72	8732.72
PO0096	400 mm	m	10469.23	10469.23	10469.23
PO0097	450 mm	m	14129.78	14129.78	14129.78
PO0098	500 mm	m	16637.78	16637.78	16637.78
PO0099	600 mm	m	21701.56	21701.56	21701.56
Brass Fittings					
Providing & fixing brass stop cock					
PO0100	15mm	each	345.61	332.19	326.36
PO0101	20mm	each	384.69	332.19	361.36
PO0102	25mm	each	483.85	460.51	513.01
Providing & fixing brass full way valve with wheel					
PO0105	32mm	each	929.79	960.96	1107.08
PO0106	40mm	each	1324.60	1328.43	1541.03
PO0107	50mm	each	1946.12	2271.58	2113.52
PO0108	65mm	each	2402.82	3986.41	3376.89
PO0109	80mm	each	3199.57	4598.85	4467.61

Code	Description	Units	PL	GP	SJ
Providing & fixing non-return valve					
PO0110	50mm	each	1848.71	1736.72	1830.63
PO0111	65mm	each	2909.10	3067.75	3159.01
PO0112	80mm	each	4310.13	4047.66	4102.78
Providing & fixing brass bibcock					
PO0114	15mm, brass	each	227.20	258.70	233.04
H.D.P.E Fittings (Butt-Welded-Type)					
Providing & fixing H.D.P.E, Equal Tee butt-welded-type fittings					
PO0115	20mm	each	52.66	60.68	43.14
PO0116	25mm	each	69.41	85.18	57.78
PO0117	32mm	each	108.00	121.92	86.62
PO0118	50mm	each	237.06	195.42	167.92
PO0119	63mm	each	297.20	336.28	306.64
PO0120	90mm	each	409.77	477.14	429.86
PO0121	110mm	each	556.76	777.23	743.86
PO0122	160mm	each	2338.66	2418.57	2889.78
Providing & fixing H.D.P.E Elbow					
PO0125	32mm	each	36.79	109.67	65.52
PO0126	50mm	each	93.75	354.65	131.39
PO0127	63mm	each	124.99	391.40	239.06
PO0128	90mm	each	363.84	403.65	332.97
PO0129	110mm	each	483.26	471.01	599.93
Providing & fixing H.D.P.E Reducer					
PO0130	90 x 50mm	each	250.54	275.03	287.28
PO0131	90 x 63mm	each	256.66	281.77	294.33
PO0132	110 x 63mm	each	256.66	281.77	294.33
PO0133	110 x 90mm	each	728.24	800.51	836.64
Providing & fixing H.D.P.E Blank End (Cap)					
PO0140	50mm	each	124.37	136.25	142.20
PO0141	63mm	each	158.67	173.98	181.64
PO0142	90mm	each	303.21	332.97	347.85
PO0143	110mm	each	348.53	382.82	399.97
PO0144	160mm	each	593.50	652.30	681.69
Providing and fixing push on joints to Centrifugally Spun D.I pipes including the cost of rubber gaskets					
PO0150	80 mm	each	74.86	72.44	72.44
PO0151	100 mm	each	84.45	86.55	86.55
PO0152	150 mm	each	133.63	137.99	137.99
PO0153	200 mm	each	214.32	214.18	214.18
PO0154	250 mm	each	265.86	277.80	277.80
PO0155	300 mm	each	366.41	381.38	381.38
PO0156	350 mm	each	408.35	419.97	419.97
PO0157	400 mm	each	568.22	589.00	589.00
PO0158	450 mm	each	618.78	636.21	636.21
PO0159	500 mm	each	671.70	693.18	693.18
PO0160	600 mm	each	1107.25	1157.62	1157.62

Code	Description	Units	PL	GP	SJ
Soil Waste Pipework					
Providing lead-caulked joints to C.I pipes and fittings					
PO0162	50mm dia pipe	each	128.19	134.79	141.39
PO0163	75mm dia pipe	each	154.25	161.79	169.34
PO0164	100mm dia pipe	each	179.88	188.28	196.68
PO0165	150mm dia pipe	each	280.95	296.04	311.13
Providing & fixing C.I Soil Waste and Vent pipes					
PO0166	50mm dia	m	425.56	336.76	385.81
PO0167	75mm dia	m	549.49	696.65	554.91
PO0168	100mm dia	m	670.30	867.36	725.78
PO0169	150mm dia	m	1058.98	1234.55	1133.40
Waste Fittings & Accessories					
Providing & fixing C.I door bend including fittings					
PO0170	50mm dia	each	250.54	256.37	262.20
PO0171	75mm dia	each	264.53	343.86	361.36
PO0172	100mm dia	each	343.86	370.69	470.72
Providing & fixing C.I plain bend including fittings					
PO0180	50mm dia	each	192.21	213.79	210.73
PO0181	75mm dia	each	215.54	226.04	238.29
PO0182	100mm dia	each	353.19	354.65	369.96
Providing & fixing C.I heel rest bend					
PO0190	50mm	each	154.88	156.05	224.29
PO0191	75mm	each	311.20	314.70	285.53
PO0192	100mm	each	394.02	465.18	402.19
Providing & fixing C.I double equal door junction including fittings					
PO0200	100mm	each	522.46	483.26	572.07
PO0201	75mm	each	399.36	336.28	324.03
PO0202	50mm	each	313.00	281.16	275.03
Providing & fixing C.I double equal plain junction including fittings					
PO0210	100mm	each	671.89	605.75	685.37
PO0211	75mm	each	450.19	305.66	324.03
PO0212	50mm	each	360.77	256.66	275.03
Providing & fixing C.I single equal door junction including fittings					
PO0220	150mm	each	391.40	483.26	577.17
PO0221	100mm	each	366.90	379.15	460.51
PO0222	75mm	each	270.13	265.23	285.53
PO0223	50mm	each	213.79	221.75	227.20
Providing & fixing C.I single equal plain junction including fittings					
PO0230	100mm	each	532.26	460.51	553.84
PO0231	75mm	each	391.40	361.36	343.86
PO0232	50mm	each	262.78	256.37	256.37
Providing & fixing C.I double unequal door junction including fittings					
PO0240	100x75mm	each	458.76	443.02	483.26
PO0241	100x50mm	each	403.65	388.19	422.02

Code	Description	Units	PL	GP	SJ
Providing & fixing C.I double unequal plain junction					
PO0250	100x75mm	each	446.52	430.18	458.76
PO0251	100x50mm	each	385.27	384.69	403.65
Providing & fixing C.I single unequal door junction					
PO0260	100x75mm	each	455.09	466.11	474.08
PO0261	100x50mm	each	428.14	428.14	446.52
PO0262	75x50mm	each	281.77	287.89	299.53
Providing & fixing C.I single unequal plain junction					
PO0270	100x75mm	each	397.52	404.87	404.52
PO0271	100x50mm	each	342.40	354.65	360.19
PO0272	75x50mm	each	262.78	273.81	273.87
Providing & fixing C.I double equal Y-Junction					
PO0280	100mm	each	671.89	599.63	430.59
PO0281	75mm	each	502.86	397.52	366.90
PO0282	50mm	each	360.77	324.03	299.53
Providing & fixing C.I single equal Y-Junction					
PO0290	100mm	each	630.25	590.00	556.76
PO0291	75mm	each	455.09	424.35	299.53
PO0292	50mm	each	238.29	198.04	262.78
Providing & fixing single unequal plain inverted branch					
PO0300	100x50mm	each	460.51	475.91	491.84
PO0301	75x50mm	each	339.19	348.53	364.45
Providing & fixing S.C.I offsets - 100mm Offsets					
PO0310	75mm projection	each	314.70	320.53	342.40
PO0311	150mm projection	each	460.51	459.35	464.89
Providing & fixing S.C.I offsets - 75mm offset					
PO0320	75mm projection	each	314.70	320.53	342.40
PO0321	150mm projection	each	443.02	439.52	464.89
Providing & fixing S.C.I offsets - 50 mm offset					
PO0330	75mm projection	each	340.36	297.20	275.03
PO0331	150mm projection	each	468.68	473.35	489.39
Providing & fixing C.I terminal guard					
PO0340	150mm	each	666.99	666.99	595.44
PO0341	100mm	each	379.15	373.02	372.32
PO0342	75mm	each	250.54	265.23	303.25
PO0343	50mm	each	152.55	158.67	219.51
Providing & fixing C.I collar					
PO0350	100mm	each	270.37	379.15	403.65
PO0351	75mm	each	201.54	238.29	238.29
PO0352	50mm	each	150.21	189.29	201.54

Code	Description	Units	PL	GP	SJ
Providing & fixing C.I P-Type Nahani trap					
PO0360	100mm inlet & 75mm outlet	each	579.77	550.60	580.20
PO0361	100mm inlet & 50mm outlet	each	347.62	417.62	482.21
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	168.95	154.25	153.60
PO0371	90mm dia	m	249.11	223.79	210.73
PO0372	110mm dia	m	293.01	281.90	290.07
Providing & fixing P.V.C Pipe connector					
PO0380	110mm dia	each	209.71	224.29	227.20
Providing & fixing P.V.C Coupler					
PO0385	75mm dia	each	75.55	89.16	81.39
PO0386	90mm dia	each	95.38	98.88	98.88
PO0387	110mm dia	each	96.26	116.38	107.63
Providing & fixing P.V.C Reducer					
PO0395	90x75mm	each	113.25	143.21	116.38
PO0396	110x75mm	each	119.88	145.55	151.38
PO0397	110x90mm	each	143.65	192.21	180.54
Providing & fixing P.V.C plain bend					
PO0405	75mm dia	each	90.72	98.88	116.38
PO0406	90mm dia	each	126.88	133.88	157.21
PO0407	110mm dia	each	143.21	157.21	174.71
Providing & fixing P.V.C door bend					
PO0415	75mm dia	each	121.05	128.05	139.71
PO0416	90mm dia	each	148.46	168.88	174.71
PO0417	110mm dia	each	181.71	198.04	173.25
Providing & fixing P.V.C Long arm bend with door					
PO0425	75mm dia	each	203.87	215.54	256.37
PO0426	90mm dia	each	297.20	308.86	355.53
PO0427	110mm dia	each	402.19	402.19	419.69
Providing & fixing P.V.C Single Tee plain					
PO0435	75mm dia	each	109.38	128.05	93.05
PO0436	90mm dia	each	149.26	186.38	157.21
PO0437	110mm dia	each	189.29	203.87	163.04
Providing & fixing P.V.C Single Tee with door					
PO0445	75mm dia	each	118.72	139.71	125.13
PO0446	90mm dia	each	171.36	174.71	163.04
PO0447	110mm dia	each	221.37	221.37	198.04
Providing & fixing P.V.C Double Tee plain					
PO0455	75mm dia	each	185.60	168.88	237.70
PO0456	90mm dia	each	273.87	250.54	277.37
PO0457	110mm dia	each	339.85	285.53	362.91

Code	Description	Units	PL	GP	SJ
Providing & fixing P.V.C Double Tee with door					
PO0465	75mm dia	each	293.70	326.36	259.87
PO0466	90mm dia	each	350.28	431.35	272.70
PO0467	110mm dia	each	371.27	489.68	374.97
Providing & fixing P.V.C Single Y, plain					
PO0475	75mm dia	each	143.21	171.79	177.63
PO0476	90mm dia	each	183.17	297.20	268.03
PO0477	110mm dia	each	256.37	326.36	294.28
Providing & fixing P.V.C Single Y, with door					
PO0485	75mm dia	each	177.04	221.37	225.26
PO0486	90mm dia	each	221.37	320.53	283.59
PO0487	110mm dia	each	312.36	157.21	328.31
Providing & fixing P.V.C Double Y, plain					
PO0495	75mm dia	each	227.20	297.20	259.28
PO0496	90mm dia	each	340.36	413.85	349.69
PO0497	110mm dia	each	343.86	413.85	384.69
Providing & fixing P.V.C Double Y, with door					
PO0505	75mm dia	each	280.87	314.70	306.92
PO0506	90mm dia	each	310.47	397.52	369.13
PO0507	110mm dia	each	434.85	472.18	413.08
Providing & fixing P.V.C Offset, 75mm dia					
PO0515	With 75mm projection	each	236.10	238.87	262.20
PO0516	With 150mm projection	each	318.00	343.86	314.70
Providing & fixing P.V.C Offset, 90mm dia					
PO0525	With 75mm projection	each	367.19	390.52	297.20
PO0526	With 150mm projection	each	520.01	483.85	483.85
Providing & fixing P.V.C Offset, 110mm dia					
PO0535	With 75mm projection	each	367.48	437.18	303.03
PO0536	With 150mm projection	each	402.92	489.68	378.86
Providing & fixing P.V.C Terminal guard					
PO0545	75mm dia	each	98.88	110.55	110.55
PO0546	90mm dia	each	110.55	128.05	122.22
PO0547	110mm dia	each	116.38	133.88	133.88
Providing & fixing P.V.C P-Trap, without air vent					
PO0555	Big	each	396.74	489.68	483.85
PO0556	Small	each	387.80	437.18	413.85
Providing & fixing P.V.C Nahani Trap					
PO0565	110mm inlet & 75mm outlet	each	157.60	163.04	163.04

Code	Description	Units	PL	GP	SJ
Painting G.I Pipes & Fittings					
Painting G.I pipes and fittings including primer & white coat, for new work					
PO0570	15mm dia pipe	m	3.70	3.54	3.70
PO0571	20mm dia pipe	m	4.95	4.75	4.96
PO0572	25mm dia pipe	m	6.14	5.88	6.15
PO0573	32mm dia pipe	m	7.87	7.54	7.88
Painting C.I spun soil waste vent pipes & fittings including primer, top coat (any colour), for new work					
PO0580	50mm	m	12.70	12.07	12.63
PO0581	75mm	m	17.68	17.64	17.94
PO0582	100mm	m	25.41	24.13	25.26
Repainting C.I spun soil waste vent pipes & fittings including paints of any colour					
PO0590	50mm	m	6.10	5.70	6.06
PO0591	75mm	m	9.15	8.54	9.08
PO0592	100mm	m	12.20	11.39	12.11
Soak - pits & Septic Tanks					
Constructing Soak Pit					
PO0600	Size 1200x1200x1200mm, filled with brick bats including 100mm SW drain pipe X 1200mm long	each	3327.34	3077.15	2991.28
PO0601	Size 2500 dia. x 3000mm depth including 450x450mm dry brick honeycomb shaft and SW drain pipe X 1800mm long	each	23441.17	21254.84	20613.91
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	25210.91	25982.18	26640.97
PO0611	25 users	each	30469.10	31428.04	32341.40
PO0612	50 users	each	43384.74	44937.48	46550.95
PO0613	75 users	each	50487.30	52207.27	54168.07
PO0614	100 users	each	60719.14	62606.79	65039.18
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	26777.94	28011.22	28350.03
PO0621	25 users	each	33694.47	35970.38	35868.53
PO0622	50 users	each	47370.71	50886.80	50865.44
PO0623	75 users	each	57402.92	61774.52	61795.17
PO0624	100 users	each	69369.54	74384.76	74429.60
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	31385.98	32935.47	33433.90
PO0631	25 users	each	40382.76	43020.33	43294.91
PO0632	50 users	each	57866.49	61842.95	62283.16
PO0633	75 users	each	71567.93	76369.20	76928.45
PO0634	100 users	each	88217.26	93483.31	94071.35

Code	Description	Units	PL	GP	SJ
Chapter 18: PLASTERING					
Mud Plaster					
Providing & laying mud plaster including neat finish					
PL0001	15mm	sq.m	68.37	68.37	68.37
PL0002	20mm	sq.m	72.57	72.57	72.57
Cement Plaster					
Providing & laying 6mm cement plaster (in ceilings)					
PL0010	C.M 1:3	sq.m	81.15	84.42	84.80
PL0011	C.M 1:4	sq.m	74.71	77.14	77.49
PL0012	Extra for plaster to ceiling height > 5mper additional metre. ht	sq.m	1.67	1.67	1.67
Providing & laying 12mm cement plaster					
PL0020	C.M 1:3	sq.m	117.25	123.78	124.54
PL0021	C.M 1:4	sq.m	104.27	109.14	109.84
PL0022	C.M 1:5	sq.m	97.26	101.23	101.89
PL0023	C.M 1:6	sq.m	91.29	94.50	95.13
Providing & laying 15mm cement plaster on rough side of single or half-brick wall					
PL0030	C.M 1:3	sq.m	138.26	146.06	146.97
PL0031	C.M 1:4	sq.m	122.78	128.59	129.43
PL0032	C.M 1:5	sq.m	114.38	119.12	119.91
PL0033	C.M 1:6	sq.m	107.23	111.05	111.81
Providing & laying 20mm cement plaster					
PL0040	C.M 1:3	sq.m	171.87	182.02	183.21
PL0041	C.M 1:4	sq.m	151.67	159.24	160.32
PL0042	C.M 1:5	sq.m	140.77	146.94	147.98
PL0043	C.M 1:6	sq.m	131.47	136.45	137.44
Providing & laying 12mm plain cement mortar band in C.M 1:4					
PL0050	Flush band	sq.m	218.67	223.40	224.08
PL0051	Sunk band	sq.m	236.46	241.19	241.87
PL0052	Raised band	sq.m	265.87	270.60	271.28
Providing & laying 20mm plain cement mortar band in C.M 1:4					
PL0060	Flush band	sq.m	273.00	279.76	280.73
PL0061	Sunk band	sq.m	293.93	300.69	301.66
PL0062	Raised band	sq.m	329.52	336.28	337.25
Providing & laying cement plaster, finished with floating coat of neat cement					
PL0070	12mm plaster in C.M 1:3	sq.m	147.61	156.09	156.93
PL0071	15mm plaster in C.M 1:3	sq.m	168.61	178.36	179.35
PL0072	20mm plaster in C.M 1:3	sq.m	202.22	214.33	215.59
PL0073	12mm plaster in C.M 1:4	sq.m	134.63	141.45	142.22
PL0074	15mm plaster in C.M 1:4	sq.m	153.13	160.90	161.81
PL0075	20mm plaster in C.M 1:4	sq.m	182.02	191.55	192.71
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	117.33	122.87	123.01

Code	Description	Units	PL	GP	SJ
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	272.29	286.13	285.98
PL0081	White cement	sq.m	441.85	458.66	452.57
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	270.80	284.63	284.49
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	82.46	82.53	82.55
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	82.51	82.59	82.60
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	151.18	164.25	164.51
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	146.40	162.01	162.32
Extra for providing and mixing water-proofing materials in proportion recommended by the manufacturers					
PL0100	12mm plaster in C.M 1:3	sq.m	10.20	9.85	9.51
PL0101	12mm plaster in C.M 1:4	sq.m	8.39	8.12	7.85
PL0102	15mm plaster in C.M 1:3	sq.m	11.10	10.72	10.34
PL0103	15mm plaster in C.M 1:4	sq.m	9.32	9.01	8.71
PL0104	20mm plaster in C.M 1:3	sq.m	13.29	12.81	12.33
PL0105	20mm plaster in C.M 1:4	sq.m	10.91	10.54	10.16
Extra for cement plastering					
PL0110	Neat cement punning	sq.m	30.35	32.31	32.38
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	601.92	695.83	695.83
PL0121	Extra for heights-above-floor > 5m.....per metre height	sq.m	31.96	31.96	31.96

Code	Description	Units	PL	GP	SJ
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Chapter 19: PAINTING & WALL PAPER

Surface Preparation

Surface preparation removing by scraping, sand papering, including scratch repairs

PT0001	White colour-wash	sq.m	4.44	4.44	4.44
PT0002	Dry oil bound distemper	sq.m	5.48	5.48	5.48

Painting Items

Providing & applying one coat of primers

PT0010	Cement primer	sq.m	27.29	27.44	28.14
PT0011	Metal work - synthetic red oxide primer	sq.m	21.49	21.96	22.01
PT0012	Wood work - pink primer	sq.m	24.97	26.89	26.02
PT0013	Wood work - white primer	sq.m	22.92	22.80	22.17
PT0014	Red lead primer	sq.m	22.22	22.02	22.17

Providing & applying white or colour washing

PT0020	White washing with lime-new work-three coats	sq.m	17.04	18.86	18.79
PT0021	White washing with lime, old work, two coats	sq.m	10.34	11.56	11.51
PT0022	White washing with lime, old work, one coat	sq.m	5.83	6.43	6.41
PT0023	Colour washing\new work, two coats, including base coat of white-wash with lime	sq.m	17.04	18.86	18.79
PT0024	Colour washing with lime, old work, two coats	sq.m	10.34	11.56	11.51
PT0025	Colour washing with lime, old work, one coat	sq.m	5.83	6.43	6.41

Finishing wall with Water-Proof Cement Paint

PT0030	New work, three coats	sq.m	52.26	53.40	57.86
PT0031	Old work, one coats	sq.m	24.61	25.07	26.87

Providing and applying finishing coats

PT0040	Dry distemper, two coats on new work, including white priming coat	sq.m	43.87	45.57	46.04
PT0041	Dry distemper, one coat on old work	sq.m	20.40	21.14	21.46
PT0042	Acrylic washable distemper, two coats on new work, including cement primer coat	sq.m	61.47	60.71	63.33
PT0043	Acrylic washable distemper, one coat on old work	sq.m	20.36	19.75	21.03
PT0044	Bituminastic enamel, for steel work, two coats on new work	sq.m	51.47	51.47	52.58
PT0045	Bituminastic enamel, for steel work, one coat on old work	sq.m	32.79	32.79	33.46
PT0046	Synthetic enamel, for steel & wood work\one coat on old work	sq.m	34.66	35.48	36.91
PT0047	Synthetic enamel, for steel & wood work, two coats on new work	sq.m	54.80	56.17	58.55
PT0048	High gloss synthetic enamel\for steel & wood work, two coats on new work	sq.m	57.18	53.40	56.78
PT0049	High gloss synthetic enamel, for steel & wood work\one coat on old work	sq.m	38.12	35.60	37.85
PT0050	Red corrugal, ready mixed\on G.I. sheets, two coats on new work	sq.m	44.38	44.59	47.53
PT0051	Red corrugal, ready mixed, on G.I. sheets\one coat on old work	sq.m	28.21	28.33	30.02
PT0052	Vinyl plastic emulsion paint, for cement, masonry, plaster, two coats on new work	sq.m	74.85	79.08	75.91
PT0053	Acrylic emulsion, one coat	sq.m	36.11	38.63	40.52
PT0054	Aluminium paint, one coat on old work	sq.m	31.23	32.17	32.01
PT0055	Aluminium paint, two coats on new work	sq.m	50.02	51.61	51.34

Code	Description	Units	PL	GP	SJ
Providing and applying wood stains, varnishes & polishes					
PT0060	Wood stain (various colours), one coat	sq.m	59.34	56.55	55.06
PT0061	Synthetic varnish (clear) - one coat, on old work	sq.m	67.47	66.92	72.34
PT0062	Synthetic varnish (clear) - two coats, including coat of wood filler on new work	sq.m	120.95	120.04	128.88
PT0063	French polish - one coat, on old work	sq.m	74.21	73.04	73.62
PT0064	French polish - two coats, on new work	sq.m	131.92	130.02	130.97
Wood Preservatives					
Providing and applying wood preservatives					
PT0070	Brown, two coats on new work	sq.m	25.33	23.47	25.96
PT0071	Brown, one coat on old work	sq.m	19.89	18.38	20.39
PT0072	Coal tar, two coats on new work	sq.m	41.47	41.52	41.53
PT0073	Coal tar, one coat on old work	sq.m	21.98	21.98	21.98
Wall Paper					
Providing & fixing wall paper					
PT0080	Standard Quality	sq.m	399.36	399.36	393.24
PT0081	High Quality	sq.m	540.22	540.22	527.98
Traditional Painting					
Providing, preparing and applying Sumdang painting (Not washable)					
PT0090	Rab	sq.m	456.77	458.57	458.78
PT0091	Ding	sq.m	325.27	326.53	326.03
PT0092	Thamar	sq.m	239.76	241.03	240.52
Providing, preparing and applying Dangtshon painting (Not washable)					
PT0100	Rab	sq.m	627.78	629.58	629.79
PT0101	Ding	sq.m	467.78	469.04	468.54
PT0102	Thamar	sq.m	325.27	326.53	326.03
Providing, preparing and applying Sumdang washable painting					
PT0110	Rab	sq.m	498.84	500.71	504.06
PT0111	Ding	sq.m	375.90	377.22	379.86
PT0112	Thamar	sq.m	281.84	283.16	285.81
Providing, preparing and applying Dangtshon washable painting					
PT0120	Rab	sq.m	632.80	634.67	638.02
PT0121	Ding	sq.m	481.36	482.68	485.32
PT0122	Thamar	sq.m	350.25	351.57	354.21
Providing, preparing and applying Yutshon painting (plain)					
PT0130	Washable	sq.m	130.58	131.80	134.47
PT0131	Not Washable	sq.m	108.73	109.52	111.43
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	91.36	101.21	102.08
PT0141	Sumdang - Rab	sq.m	87.09	96.94	97.81

Code	Description	Units	PL	GP	SJ
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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	157.50	163.58	164.45
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Glass Panes

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

AA0005	3mm thick plain	sq.m	706.86	685.01	670.08
AA0006	4mm thick plain	sq.m	706.86	696.59	749.78
AA0007	5.5mm thick plain	sq.m	931.42	935.23	954.33
AA0008	3mm thick frosted	sq.m	706.86	661.22	735.07
AA0009	5.5mm thick frosted	sq.m	1021.24	909.57	892.19

Cutting Walls

AA0015	Cutting holes < 300x300mm in brick walls including repair wall	each	185.94	194.69	193.57
AA0016	Cutting holes < 150x150mm in R.C floors or roof including making leak proofing with concrete 1:2:4, 20mm aggregates	each	110.56	111.31	111.65
AA0017	Making chases < 75x75mm in walls including repair after fixing G.I pipe etc.	m	56.80	57.76	58.36

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	489.73	489.73	477.48
AA0026	38mm x 12mm x 3mm	m	144.62	151.05	148.36

Code	Description	Units	PL	GP	SJ
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	sq.m			
RW0007	Hard Soil	sq.m			
RW0008	Ordinary Rock with or without blasting	sq.m	Same rate as for items EW0030 to EW0034		
RW0009	Hard rock requiring blasting	sq.m			
RW0010	Hard rock requiring chiselling (where blasting is prohibited)	sq.m			
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	Same rate as for items EW0046 and EW0047		
RW0012	All types of rock	cu.m			
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	58.47	58.47	58.47
RW0014	All types of rock	cu.m	204.71	204.71	204.71
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			
RW0016	Hard Soil	cu.m	Same rate as for items EW0105 to EW0109		
RW0017	Ordinary Rock with or without blasting	cu.m			
RW0018	Hard rock requiring blasting	cu.m			
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			
RW0020	Beyond 200 up to 500 m	cu.m	Analyse as per procedure in LMC- 2012		
RW0021	Beyond 500 up to 1000 m	cu.m			
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 (compacted), consolidating each layer with power roller or portable compactor, watering etc. within 50m lead	cu.m		Rate same as EW0195	

Code	Description	Units	PL	GP	SJ
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	1156.26	1208.33	1364.57
RW0045	75 mm	cu.m	1114.55	1166.63	1322.86
RW0046	50 mm	cu.m	1124.98	1177.05	1333.29
RW0047	63 - 40 mm	cu.m	1124.98	1177.05	1333.29
RW0048	20 mm	cu.m	1302.05	1362.46	1507.44
RW0049	12 - 6 mm	cu.m	1312.47	1372.89	1517.87
RW0050	50 - 20 mm	cu.m	1196.85	1252.26	1403.99
Supplying/collection and stacking at site					
RW0055	Blinding materials	cu.m	238.91	238.91	238.91
RW0056	Gravel/Coarse sand	cu.m	504.51	504.51	504.51
RW0057	Boulder	cu.m	272.16	272.16	272.16
Walls					
Construction of Gabion wall as per drawings, including excavation of foundations in all types of soils, sides and backfilling, delivery of materials etc. complete					
RW0065	Height up to 1.0m	m	2475.53	2599.62	2578.53
RW0066	Height up to 2.0m	m	4969.98	5222.66	5178.40
RW0067	Height up to 3.0m	m	8823.83	9279.56	9195.80
RW0068	Height up to 4.0m	m	13726.24	14430.15	14304.21
RW0069	Height up to 5.0m	m	20020.87	21051.91	20865.40
RW0070	Height up to 6.0m	m	27434.12	28844.19	28591.27
RW0071	Height up to 7.0m	m	36179.26	38040.55	37705.97
RW0072	Height up to 8.0m	m	45738.59	48073.66	47665.25
RW0073	Height up to 9.0m	m	57001.77	59918.91	59404.61
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	980.96	1010.36	1014.84
RW0076	With timber section of 250 to 300 mm diameter including excavation in all types of soil and back filling	sq.m	845.64	915.91	915.91
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	90.36	90.36	90.36

Code	Description	Units	PL	GP	SJ
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	959.00	992.72	1093.88
RW0096	Drain Size 1.0m X 1.5m	m	2058.45	2137.93	2376.40
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	202.25	204.66	211.89
Construction of V-shaped stone pitched drain including excavation, levelling and disposal of surplus earth within 50m					
RW0105	depth 300mm, width 600 mm	m	208.22	208.22	215.55
RW0106	depth 300 mm and width 450 mm	m	115.91	115.91	119.24
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	18.39	18.39	18.39
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	529.39	554.45	570.15
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	53.18	53.18	54.71
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	31.02	31.02	31.02
RW0122	Blasted Rock	cu.m	106.84	106.84	106.84
RW0123	Consolidation of sub-grade with roller, and making good the undulation with earth and re-rolling the sub grade	sq.m	6.59	6.59	6.59
RW0124	Extra for compaction of earth in embankments under suitable moisture conditions to give at least 95% of the proctor density	cu.m	14.14	14.14	14.14
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	1242.79	1266.80	1282.58
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	1640.68	1684.89	1769.11

Code	Description	Units	PL	GP	SJ
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	540.53	542.47	547.82
RW0133	60 mm	sq.m	630.01	632.33	638.76
RW0134	70 mm	sq.m	718.78	721.49	728.99
RW0135	80 mm	sq.m	807.84	810.94	819.51
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	317.74	318.52	320.85
RW0137	30 mm	sq.m	369.36	370.30	373.09
RW0138	35 mm	sq.m	421.00	422.10	425.35
RW0139	40 mm	sq.m	471.92	473.18	476.90
Scarifying					
RW0145	Scarifying metalled (water bound) road surface disposal of rubbish up to 50m and consolidation of the aggregate received from scarifying	sq.m	28.67	28.67	28.67
Repair of Roads					
Cutting and repairing of roads, including supply of required quantities of aggregates complete					
RW0146	Water bound macadam road	sq.m	160.97	162.27	166.18
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	609.07	609.07	609.07
Using Bitumen Emulsion					
Cutting & repairing bituminous road including supply of required quantity of aggregate & bitumen emulsion					
RW0150	Manually	cu.m	489.48	491.04	495.90
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	890.56	897.07	916.60
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	185.03	185.99	188.31

Code	Description	Units	PL	GP	SJ
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	137.56	137.68	137.97
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	386.65	389.46	397.89
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	298.73	300.55	304.90
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	243.21	244.66	248.14
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	91.10	91.59	92.75
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	45.60	45.60	45.75
Using Bitumen 80/100					
Cutting and repairing of roads, including supply of required quantities of aggregate, grit and bitumen					
RW0160	Bituminous road	sq.m	553.19	556.65	567.24
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	907.26	914.38	936.88
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	213.91	215.36	218.84
RW0166	Manually	sq.m	246.63	248.68	255.14
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	313.48	317.11	325.81
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	202.76	204.57	208.92
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	154.16	155.41	159.16

Code	Description	Units	PL	GP	SJ
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	196.82	198.74	204.51
RW0171	25 mm thick with 3.0 cu.m, 10mm aggregate per 100 sq.m (Manually)	sq.m	229.00	231.36	238.38
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	85.78	86.53	88.82
RW0176	Mechanised	sq.m	72.65	73.20	74.50
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	104.90	105.58	107.20
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	115.69	116.63	119.64
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	74.07	74.26	75.47
Providing & fixing RC name board including primer and white zinc paint					
RW0180	Rectangular with post	each	1687.65	1864.50	1885.12
RW0181	Flat without post for one direction only	each	2499.59	2679.95	2697.45
RW0182	Flat without post for two directions only	each	2679.47	2879.45	2899.25
R o a d S i g n s					
RW0183	Engraving letters on hard stone.....per letter per centimetre height	each	3.45	3.45	3.45
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	381.23	407.84	409.69
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	1211.93	1331.79	1351.00
RW0187	50cm x 152.5cm x 25cm	each	2129.71	2363.24	2403.63
RW0188	35cm x 93.5cm x 18cm	each	786.29	855.78	865.58
Letterings					
RW0189	Lettering with paint of approved brand and manufacture.....per letter per centimetre ht	each	1.06	1.07	1.07
RW0190	Relettering with paint of approved brand and manufacture.....per letter per centimetre ht	each	0.82	0.83	0.83

Code	Description	Units	PL	GP	SJ
Fencing					
Supplying posts & struts					
RW0195	Local ballies, 250 mm min. girth	m	65.35	65.35	65.35
RW0196	Local ballies 250 mm min girth , 1.8m long	each	155.16	155.16	155.16
RW0197	Precast R.C posts, 1.8 m long	each	786.77	862.62	869.98
RW0198	Precast R.C struts 2.0 m long	each	598.36	641.15	642.91
RW0199	RCC posts & struts, 1.8m long	m	1056.75	1147.80	1170.01
RW0200	RCC posts & struts, 2m long	m	653.48	698.43	702.31
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	15.29	17.24	20.15
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	253.46	307.12	336.29
RW0206	2.5mm (12 SWG) x 100mm	sq.m	216.13	248.80	301.29
RW0207	4mm (8 SWG) x 150mm	sq.m	237.13	225.47	336.29
RW0208	2.5mm (12 SWG) x 150mm	sq.m	190.47	178.80	237.13
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	359.62	417.95	394.62
RW0210	2.5mm (12 SWG) x 50mm	sq.m	301.29	417.95	394.62
RW0211	4mm (8 SWG) x 75mm	sq.m	237.13	336.29	330.46
RW0212	2.5mm (12 SWG) x 75mm	sq.m	178.80	307.12	342.12
RW0213	4mm (8 SWG) x 100mm	sq.m	253.46	304.79	305.54
RW0214	2.5mm (12 SWG) x 100mm	sq.m	216.13	248.80	301.29

Code	Description	Units	PL	GP	SJ
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	162.89	184.65	217.23
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 strutted 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	134.94	150.84	174.62
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 strutted 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	235.96	264.50	307.20
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	88.34	88.34	88.34
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 strutted 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	160.59	182.21	214.59
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 strutted 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	210.24	238.04	279.65

Code	Description	Units	PL	GP	SJ
Bioengineering					
Seeds Collection, treatment and storage					
RW0230	Grass and pioneer plant seed collection, including separation, drying in the sun & storing	kg	321.82	321.82	321.82
Broadcasting					
RW0231	Broadcasting of grass/pioneer plants seeds on slopes; seeding rate 25 gm per m ²	sq.m	35.45	35.45	35.45
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	35.45	35.45	35.45
Live Stacking/Palisade					
RW0233	Preparation of materials (woody cuttings 2-4 cm diameter and 50 cm length) and staking them ¼ of the cuttings in the soil	m	43.25	43.25	43.25
Brush layer/Hedge Brush Layer					
RW0234	Collection and preparation of materials (woody cuttings 2-4 cm diameter and 60 cm length) and staking them ¼ of the cuttings in the	m	51.48	51.48	51.48
Planting of seedlings/wildings					
RW0235	Planting of seedlings or wildlings (including the collection of wildlings from the wild) and planting them in a pit size 30 cm x 30 cm	no	138.81	138.81	138.81
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	43.00	42.57	42.57
RW0237	Turfing of embankment with 30 x 30 cm turfs and fixed to the ground with wooden pegs, if slope is greater than 25°	sq.m	79.82	79.82	79.82
Grass Slips Planting					
RW0238	Grass slips planting on slopes (random or in line) at 10 cm apart and 5 cm deep.	sq.m	19.76	19.76	19.76

4. COST INDICES

5. APPROVED MATERIAL BRANDS

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) = $[(\text{col.5}/\text{col.4}) - 1] \times 100$
- d) Col.(7) = Weightage shall remain fixed
- e) Col.(8) = $\{\text{Col.}(6) \times \text{Col.}(7)\} / 100$

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 Sawn Timber	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	130.00	130.00	0.00	11.50	0.00	
	Cat. V	each	108.00	108.00	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 Sawn Timber	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	130.00	130.00	0.00	11.50	0.00	
	Cat. V	each	108.00	108.00	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 Sawn Timber	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	130.00	130.00	0.00	20.00	0.00	
	Cat. V	each	108.00	108.00	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	130.00	130.00	0.00	0.50	0.00	
	Cat. V	each	108.00	108.00	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	130.00	130.00	0.00	16.00	0.00	
	Cat. V	each	108.00	108.00	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	130.00	130.00	0.00	0.25	0.00	
	Cat. V	each	108.00	108.00	0.00	17.00	0.00	

100.00

Cost Index = 6.27 %

APPROVED CONSTRUCTION MATERIALS (CIVIL)**I.PLUMBING MATERIALS**

Sl.No	Materials	Approved Brands
1	Pipes	
a.	GI	BABA(25-65 mm only)
b.	HDPE	AJAPLAS, Supreme, Druk pipe, Umex, Ori-plast
c.	DWC HDPE	Alcorr
d.	PVC	
e.	PPR	Fusion
f.	CPVC	Sperry
g.	UPVC	Ori-plast
h.	DI	Electrosteel, Lanco, Kejriwal, Balaji Shakti, Jindal Saw
i.	CI	Kejriwal
j.	Tubular pipes (M.S pipes)	BABA
2	Pipe Fittings (Union, Socket, Elbow, Tee, Plug, Bend, Tank nipple, Barrel nipple, Flanges)	
a.	GI	Kohli
b.	HDPE	AJAPLAS, Supreme
c.	PVC	
d.	PPR	Fusion
e.	CPVC	Sperry
f.	DI	Electrosteel, Kejriwal
g.	CI	Kejriwal
3	Valves & Cocks	
a.	Bibcocks, Stopcocks, Pushcocks, Lift cocks, Gate valves, Float valves, Non-return valves, etc.	R(Chemico India), Zoloto(Ferrous & Non Ferrous), Kohli-G
b.	DI & CI valves	Kejriwal
4	Sanitary Appliances	
a.	Sinks, Wash basins, WC pans, Cistern, Urinals, Bath tubs, Bidets, etc.	Simpolo
5	Water Storage Tanks	
a.	Water Storage Tanks	Poly Foam, Poly Export, Poly P4, North-East

II. OTHER MATERIALS

Sl.No	Materials	Approved Brands
1	Reinforcement Steel	
a.	Fe415	PCM LhakiTMT, Pelden Thermex
b.	Fe500	Karma TMX, Pelden Thermex, PCM Lhaki 500, Arcellor Mittal 500D
2	Roofing Sheet/Tiles/Tubular pipes(This is in addition to the locally available materials)	
a.	CGI	Aarti Suraksha
b.	Aluminium roofing sheet	Hindalco Everlast
c.	Colour Roof	1.Everest metal roofing(ER-32-251 profile only) 2.CRIL(i.Hispan, ii.Histern975, iii.Steel Lock, iv.Stile Rainbow, v.RiverClack, vi. Versatile profiles only)
d.	Base metal	Metashield (SeClad only)
e.	Roofing tiles	
3	White Portland Cement	
a.		
4.	Flooring and Wall Tiles	
a.	Tiles (floor, wall, bath, etc)	Varmora, Johson, Endura, Marbonite
5	Bitumen/Emulsion	
a.	Cationic Emulsion	Bhubit
b.	80/100	
6	Bricks/Hollow Blocks & Others	
a.	Interlocking Cement Earth Blocks	DSE
b.	Solid/ hollow blocks	A. Bhutan Concrete Bricks 1. Solid (240X115X53) 2. 2 Hole porous (230X110X70) 3. Hollow (390X90X190) B. Yang Building Materials (Solid bricks-240X120X74)
7	Boards	
a.	Cement fibre boards	Everest
8	Cements	
a.	33 Grade	Lhaki Cement, Penden Ordinary
b.	43 Grade	Lhaki Cement, Lhaki Cement, Penden Supreme
c.	PSC	Lhaki Top, Penden Special
d.	PPC	Penden Premium
e.	OPC 53	
9	UPVC Windows, Doors, Prefabricated Structures and PVC profiles	Polywood



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