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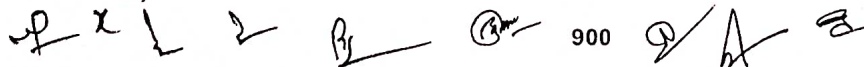
**SUB HEAD : 14.0**  
**REPAIRS TO BUILDINGS**

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## BCD Analysis of Rates 2022

### 14.0 REPAIRS TO BUILDINGS

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
14.1	Repairs to plaster of thickness 12 mm to 20 mm in patches of area 2.5 sq. meters and under, including cutting the patch in proper shape, raking out joints and preparing and plastering the surface of the walls complete, including disposal of rubbish to the dumping ground, all complete as per direction of Engineer-in-Charge.				
14.1.1	<b>With cement mortar 1:4 (1 cement :4 fine Sand)</b>				
	Detail of cost for 10 sqm				
	MATERIAL				
	Cement mortar 1 : 4 (1 cement : 4 fine sand)				
2113	Rate as per Item Number 2113 of SH: Mortars	cum	0.18	2256.97	413.03
	LABOUR				
155	Mason (average)	day	1.21	369.00	446.49
115	Coolie	day	1.29	318.00	410.22
114	Beldar	day	0.54	306.00	165.24
101	Bhisti	day	0.92	332.00	305.44
9999	Scaffolding and sundries	L.S.	15.21	2.12	32.25
	TOTAL				1772.66
	Add 1 % Water charges				17.73
	TOTAL				1790.39 (X)
	Add GST 12% on "X" ( multiplying factor 0.1405)				251.55
	Total				2041.94 (Y)
	Add 15 % Contractor's profit and overheads on "Y"				306.29
	Cost of 10.00 sqm				2348.23
	Cost of 1.00 sqm				234.82
	Add labour cess 1%				2.35
	Rate including labour cess				237.17
	Say				237.20
14.1.2	<b>With cement mortar 1:4 (1cement: 4 coarse sand)</b>				
	Detail of cost for 10 sqm				
	MATERIAL				
	Cement mortar 1 : 4 (1 cement :4 coarse sand)				
2113	Rate as per Item Number 2113 of SH: Mortars	cum	0.18	2256.97	413.03
	LABOUR				
155	Mason (average)	day	1.21	369.00	446.49
115	Coolie	day	1.29	318.00	410.22
114	Beldar	day	0.54	306.00	165.24
101	Bhisti	day	0.92	332.00	305.44
9999	Scaffolding and sundries	L.S.	15.21	2.12	32.25
	TOTAL				1772.66
	Add 1 % Water charges				17.73
	TOTAL				1790.39 (X)
	Add GST 12% on "X" ( multiplying factor 0.1405)				251.55
	Total				2041.94 (Y)
	Add 15 % Contractor's profit and overheads on "Y"				306.29
	Cost of 10.00 sqm				2348.23
	Cost of 1.00 sqm				234.82
	Add labour cess 1%				2.35
	Rate including labour cess				237.17
	Say				237.20



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## BCD Analysis of Rates 2022

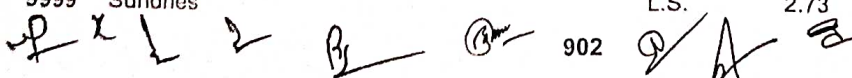
Code	Description	Unit	Quantity	Rate ₹	Amount ₹
14.2	<b>Fixing chowkhats in existing opening including embedding chowkhats in floors or walls cutting masonry for holdfasts, embedding hold fasts in cement concrete blocks of size 15 x 10 x 10 cm with cement concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size), painting two coats of approved wood preservative to sides of chowkhats and making good the damages to walls and floors as required complete, including disposal of rubbish to the dumping ground, all complete as per direction of Engineer-in-Charge.</b>				
14.2.1	<b>Door chowkhats</b>				
	Detail of cost for each				
295	Stone Aggregate (Single size) : 20 mm nominal size	cum	0.02	595.36	12.50
297	Stone Aggregate (Single size) : 10 mm nominal size	cum	0.01	657.91	4.74
2202	Carriage of Stone aggregate below 40 mm nominal size	cum	0.03	0.00	0.00
982	Coarse sand (zone III)	cum	0.01	175.80	2.48
2203	Carriage of Coarse sand	cum	0.01	0.00	0.00
367	Portland Cement (OPC-43 grade)	tonne	0.01	4408.00	29.09
2209	Carriage of Cement	tonne	0.01	145.72	0.96
114	Beldar	day	0.03	306.00	8.26
115	Coolie	day	0.02	318.00	6.20
130	Mistry	day	0.01	306.00	2.57
123	Mason (brick layer) 1st class	day	0.00	413.00	0.74
124	Mason (brick layer) 2nd class	day	0.00	369.00	0.66
128	Mate	day	0.00	325.00	0.39
9999	Scaffolding	L.S.	1.43	2.12	3.03
9999	Hire and running charges of mechanical mixer	L.S.	0.78	2.12	1.65
9999	Sundries	L.S.	0.39	2.12	0.83
	Cement mortar 1 : 6 (1 cement : 6 fine sand)				0.00
2115	Rate as per Item Number 2115 of SH: Mortars	cum	0.01	1664.99	16.65
9999	Cement concrete 1:2:4 filled in chase cut	L.S.	24.18	2.12	51.26
9999	Painting two coats of coaltar	L.S.	13.52	2.12	28.66
9999	Disposal of mulba	L.S.	1.82	2.12	3.86
155	Mason (average)	day	0.50	369.00	184.50
114	Beldar	day	0.75	306.00	229.50
9999	Sundries	L.S.	2.73	2.12	5.79
	TOTAL				594.34
	Add 1 % Water charges				5.94
	TOTAL				600.28 (X)
	Add GST 12% on "X" ( multiplying factor 0.1405)				84.34
	Total				684.62 (Y)
	Add 15 % Contractor's profit and overheads on "Y"				102.69
	Cost of each				787.31
	Add labour cess 1%				7.87
	Rate including labour cess				795.18
	Say				795.20
14.2.2	<b>Window chowkhats</b>				
	Detail of cost for each				
295	Stone Aggregate (Single size) : 20 mm nominal size	cum	0.01	595.36	8.34
297	Stone Aggregate (Single size) : 10 mm nominal size	cum	0.00	657.91	3.16
2202	Carriage of Stone aggregate below 40 mm nominal size	cum	0.02	0.00	0.00
982	Coarse sand (zone III)	cum	0.01	175.80	1.65

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Code	Description	Unit	Quantity	Rate ₹	Amount ₹
2203	Carriage of Coarse sand	cum	0.01	0.00	0.00
367	Portland Cement (OPC-43 grade)	tonne	0.00	4408.00	19.40
2209	Carriage of Cement	tonne	0.00	145.72	0.64
114	Beldar	day	0.02	306.00	5.51
115	Coolie	day	0.01	318.00	4.13
130	Mistry	day	0.01	306.00	1.71
123	Mason (brick layer) 1st class	day	0.00	413.00	0.50
124	Mason (brick layer) 2nd class	day	0.00	369.00	0.44
128	Mate	day	0.00	325.00	0.26
9999	Scaffolding and sundries	L.S.	0.91	2.12	1.93
9999	Hire and running charges of mechanical mixer	L.S.	0.52	2.12	1.10
9999	Sundries	L.S.	0.26	2.12	0.55
	Cement mortar 1 : 6 (1 cement : 6 fine sand)				0.00
2115	Rate as per Item Number 2115 of SH: Mortars	cum	0.01	1664.99	9.99
9999	Cement concrete 1:2:4	L.S.	9.88	2.12	20.95
9999	Painting two coats of coaltar	L.S.	0.91	2.12	1.93
155	Mason (average)	day	0.33	369.00	121.77
114	Beldar	day	0.50	306.00	153.00
	TOTAL				356.95
	Add 1 % Water charges				3.57
	TOTAL				360.52 (X)
	Add GST 12% on "X" ( multiplying factor 0.1405)				50.65
	Total				411.18 (Y)
	Add 15 % Contractor's profit and overheads on "Y"				61.68
	Cost of each				472.85
	Add labour cess 1%				4.73
	Rate including labour cess				477.58
	Say				477.60
<b>14.2.3</b>	<b>Clerestory window chowkhats</b>				
	<b>Detail of cost for each</b>				
0295	Stone Aggregate (Single size) : 20 mm nominal size	cum	0.01	595.36	4.17
297	Stone Aggregate (Single size) : 10 mm nominal size	cum	0.00	657.91	1.58
2202	Carriage of Stone aggregate below 40 mm nominal size	cum	0.01	0.00	0.00
982	Coarse sand (zone III)	cum	0.00	175.80	0.83
2203	Carriage of Coarse sand	cum	0.00	0.00	0.00
367	Portland Cement (OPC-43 grade)	tonne	0.00	4408.00	9.70
2209	Carriage of Cement	tonne	0.00	145.72	0.32
114	Beldar	day	0.01	306.00	2.75
115	Coolie	day	0.01	318.00	2.07
130	Mistry	day	0.00	306.00	0.86
123	Mason (brick layer) 1st class	day	0.00	413.00	0.25
124	Mason (brick layer) 2nd class	day	0.00	369.00	0.22
128	Mate	day	0.00	325.00	0.13
9999	Scaffolding and sundries	L.S.	0.52	2.12	1.10
9999	Hire and running charges of mechanical mixer	L.S.	0.26	2.12	0.55
9999	Sundries	L.S.	0.13	2.12	0.28
	Cement mortar 1 : 6 (1 cement : 6 fine sand)				0.00
2115	Rate as per Item Number 2115 of SH: Mortars	cum	0.00	1664.99	4.99
9999	Cement concrete 1:2:4 filled in chase cut	L.S.	8.06	2.12	17.09
9999	Painting two coats of coaltar	L.S.	0.91	2.12	1.93
155	Mason (average)	day	0.17	369.00	62.73
114	Beldar	day	0.50	306.00	153.00
9999	Sundries	L.S.	2.73	2.12	5.79

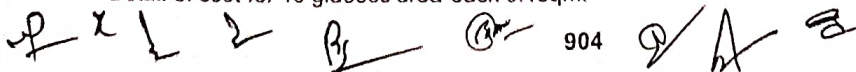


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Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL				270.33
	Add 1 % Water charges				2.70
	TOTAL				273.03 (X)
	Add GST 12% on "X" ( multiplying factor 0.1405)				38.36
	Total				311.39 (Y)
	Add 15 % Contractor's profit and overheads on "Y"				46.71
	Cost of each				358.10
	Add labour cess 1%				3.58
	Rate including labour cess				361.68
	Say				361.70
<b>14.3</b>	<b>Fixing chowkhat in existing opening in brick/ RCC wall with dash fasteners/ Chemical fasteners of appropriate size (3 nos on each vertical member of door chowkhat and 2 nos on each vertical member of window chowkhats), including Cost of dash fasteners/ chemical fastener.</b>				
	<b>Details of cost for 1 chowkhat.</b>				
114	Beldar	day	0.03	306.00	8.26
115	Coolie	day	0.02	318.00	6.20
130	Mistry	day	0.01	306.00	2.57
128	Mate	day	0.00	325.00	0.39
9999	Disposal of mulba	L.S.	1.82	2.12	3.86
7019	Dash fastner/ chemical fastener	each	6.00	12.50	75.00
9999	Hire charges of drill machine hire charges, Scaffolding and Sundries	L.S.	12.22	2.12	25.91
	TOTAL				122.19
	Add 1 % Water charges				1.22
	TOTAL				123.41 (X)
	Add GST 12% on "X" ( multiplying factor 0.1405)				17.34
	Total				140.75 (Y)
	Add 15 % Contractor's profit and overheads on "Y"				21.11
	Cost of each				161.86
	Add labour cess 1%				1.62
	Rate including labour cess				163.48
	Say				163.50
<b>14.4</b>	<b>Making the opening in brick masonry including dismantling in floor or walls by cutting masonry and making good the damages to walls, flooring and jambs complete, to match existing surface i/c disposal of mulba/ rubbish to the nearest municipal dumping ground, all complete as per direction of Engineer-in-Charge.</b>				
14.4.1	<b>For door/ window/ clerestory window</b>				
	<b>Details of cost for one opening of size 0.90x2.10m = 1.89 sqm</b>				
	<b>Cement mortar 1:6 (1 cement: 6 fine sand)</b>				
2115	Rate as per Item Number 2115 of SH: Mortars	cum	0.01	1664.99	16.65
9999	Cement concrete 1:2:4 filled in chase cut	L.S.	24.57	2.12	52.09
124	Mason (brick layer) 2nd class	day	0.50	369.00	184.50
114	Beldar	day	1.20	306.00	367.20
115	Coolie	day	0.40	318.00	127.20
9999	Scaffolding and Sundries	L.S.	3.50	2.12	7.42
	TOTAL				755.06
	Add 1 % Water charges				7.55
	TOTAL				762.61 (X)
	Add GST 12% on "X" ( multiplying factor 0.1405)				107.15
	Total				869.76 (Y)
	Add 15 % Contractor's profit and overheads on "Y"				130.46
	Cost of 1.89sqm.				1000.22
	Cost of 1.00 sqm				529.22
	Add labour cess 1%				5.29

## BCD Analysis of Rates 2022

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Rate including labour cess				534.51
	Say				534.50
<b>14.5</b>	<b>Renewing glass panes, with putty and nails wherever necessary including racking out the old putty:</b>				
<b>14.5.1</b>	<b>Float glass panes of thickness 4 mm</b>				
	Detail of cost for 10 glasses area each 0.1sqm.				
	<b>MATERIAL</b>				
<b>2406</b>	Float glass sheet of nominal thickness 4 mm (weight not less than 10kg/sqm). 1.00 sqm + 10% wastage= 1.10 Sqm	sqm	1.10	309.00	339.90
<b>9988</b>	Carriage including sundries	L.S.	1.82	2.12	3.86
<b>863</b>	Putty for wood work	kilogram	0.68	28.00	19.04
<b>9999</b>	Painting or varnishing or beewaxing	L.S.	5.33	2.12	11.30
<b>9999</b>	Sundries Nails etc.	L.S.	6.76	2.12	14.33
<b>119</b>	Glazier	day	0.23	344.00	79.12
<b>114</b>	Beldar	day	0.23	306.00	70.38
<b>9999</b>	Sundries such as Rag, cotton etc	L.S.	1.43	2.12	3.03
	<b>TOTAL</b>				540.96
	Add 1 % Water charges				5.41
	<b>TOTAL</b>				546.37 (X)
	Add GST 12% on "X" ( multiplying factor 0.1405)				76.77
	Total				623.14 (Y)
	Add 15 % Contractor's profit and overheads on "Y"				93.47
	Cost of 1.00 sqm				716.61
	Add labour cess 1%				7.17
	Rate including labour cess				723.77
	Say				723.80
<b>14.5.2</b>	<b>Float glass panes of thickness 5.5 mm</b>				
	Detail of cost for 10 glasses area each 0.1sqm.				
	<b>MATERIAL</b>				
<b>2407</b>	Float glass sheet of nominal thickness 5.5 mm.(weight not less than 13.50 kg/sqm). 1.00 sqm + 10% wastage= 1.10 Sqm	sqm	1.10	515.00	566.50
<b>9988</b>	Carriage including sundries	L.S.	1.82	2.12	3.86
<b>863</b>	Putty for wood work	kilogram	0.68	28.00	19.04
<b>9999</b>	Painting or varnishing or beewaxing	L.S.	5.33	2.12	11.30
<b>9999</b>	Sundries Nails etc.	L.S.	6.76	2.12	14.33
<b>119</b>	Glazier	day	0.23	344.00	79.12
<b>114</b>	Beldar	day	0.23	306.00	70.38
<b>9999</b>	Sundries such as Rag, cotton etc	L.S.	1.43	2.12	3.03
	<b>TOTAL</b>				767.56
	Add 1 % Water charges				7.68
	<b>TOTAL</b>				775.24 (X)
	Add GST 12% on "X" ( multiplying factor 0.1405)				108.92
	Total				884.16 (Y)
	Add 15 % Contractor's profit and overheads on "Y"				132.62
	Cost of 1.00 sqm				1016.78
	Add labour cess 1%				10.17
	Rate including labour cess				1026.95
	Say				1026.90
<b>14.6</b>	<b>Renewing glass panes, with wooden fillets wherever necessary:</b>				
<b>14.6.1</b>	<b>Float glass panes of thickness 4 mm</b>				
	Detail of cost for 10 glasses area each 0.1sqm.				



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Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	MATERIAL				
2406	Float glass sheet of nominal thickness 4 mm (weight not less than 10kg/sqm). 1.00 sqm + 10% wastage= 1.10 Sqm	sqm	1.10	309.00	339.90
1189	Second class teak wood in scantling	10 cudm	0.03	776.00	19.40
1194	Second class deodar wood in planks	10 cudm	0.03	500.00	12.50
1196	First class kail wood in planks	10 cudm	0.03	300.00	7.50
9999	Painting or varnishing or beewaxing	L.S.	4.42	2.12	9.37
9999	Sundries Nails etc.	L.S.	2.73	2.12	5.79
112	Carpenter 2nd class	day	0.20	369.00	73.80
119	Glazier	day	0.25	344.00	86.00
114	Beldar	day	0.45	306.00	137.70
9999	Sundries such as Rag, cotton etc	L.S.	1.82	2.12	3.86
	TOTAL				695.82
	Add 1 % Water charges				6.96
	TOTAL				702.77 (X)
	Add GST 12% on "X" ( multiplying factor 0.1405)				98.74
	Total				801.51 (Y)
	Add 15 % Contractor's profit and overheads on "Y"				120.23
	Cost of 1.00 sqm				921.74
	Add labour cess 1%				9.22
	Rate including labour cess				930.96
	Say				931.00
<b>14.6.2</b>	<b>Float glass panes of thickness 5.5 mm</b>				
	Detail of cost for 10 glasses area each 0.1sqm.				
	MATERIAL				
2407	Float glass sheet of nominal thickness 5.5 mm.(weight not less than 13.50 kg/sqm).1.00 sqm + 10% wastage= 1.10 Sqm	sqm	1.10	515.00	566.50
1189	Second class teak wood in scantling	10 cudm	0.03	776.00	19.40
1194	Second class deodar wood in planks	10 cudm	0.03	500.00	12.50
1196	First class kail wood in planks	10 cudm	0.03	300.00	7.50
9999	Painting or varnishing or beewaxing	L.S.	4.42	2.12	9.37
9999	Sundries Nails etc.	L.S.	2.73	2.12	5.79
112	Carpenter 2nd class	day	0.20	369.00	73.80
119	Glazier	day	0.25	344.00	86.00
114	Beldar	day	0.45	306.00	137.70
9999	Sundries such as Rag, cotton etc	L.S.	1.82	2.12	3.86
	TOTAL				922.42
	Add 1 % Water charges				9.22
	TOTAL				931.64 (X)
	Add GST 12% on "X" ( multiplying factor 0.1405)				130.90
	Total				1062.54 (Y)
	Add 15 % Contractor's profit and overheads on "Y"				159.38
	Cost of 1.00 sqm				1221.92
	Add labour cess 1%				12.22
	Rate including labour cess				1234.14
	Say				1234.10

### 14.7 Renewing glass panes and refixing existing wooden fillets:

#### 14.7.1 Float glass panes of thickness 4 mm


Detail of cost for 10 glasses area each 0.1sqm.  
MATERIAL

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## BCD Analysis of Rates 2022

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
2406	Float glass sheet of nominal thickness 4 mm (weight not less than 10kg/sqm). 1.00 sqm + 10% wastage= 1.10 Sqm	sqm	1.10	309.00	339.90
9977	Carriage of glasspanes and other materials	L.S.	2.73	2.12	5.79
9999	Sundries Nails etc.	L.S.	9.88	2.12	20.95
9999	Methylated spirit	L.S.	5.33	2.12	11.30
119	Glazier	day	0.30	344.00	103.20
114	Beldar	day	0.30	306.00	91.80
9999	Sundries	L.S.	1.43	2.12	3.03
	TOTAL				575.96
	Add 1 % Water charges				5.76
	TOTAL				581.72 (X)
	Add GST 12% on "X" ( multiplying factor 0.1405)				81.73
	Total				663.46 (Y)
	Add 15 % Contractor's profit and overheads on "Y"				99.52
	Cost of 1.00 sqm				762.97
	Add labour cess 1%				7.63
	Rate including labour cess				770.60
	Say				770.60
<b>14.7.2</b>	<b>Float glass panes of thickness 5.5 mm</b>				
	Detail of cost for 10 glasses area each 0.1sqm.				
	MATERIAL				
2407	Float glass sheet of nominal thickness 5.5 mm.(weight not less than 13.50 kg/sqm). 1.00 sqm + 10% wastage= 1.10 Sqm	sqm	1.10	515.00	566.50
9977	Carriage of glasspanes and other materials	L.S.	2.73	2.12	5.79
9999	Sundries Nails etc.	L.S.	9.88	2.12	20.95
9999	Methylated spirit	L.S.	5.33	2.12	11.30
119	Glazier	day	0.30	344.00	103.20
114	Beldar	day	0.30	306.00	91.80
9999	Sundries	L.S.	1.43	2.12	3.03
	TOTAL				802.56
	Add 1 % Water charges				8.03
	TOTAL				810.59 (X)
	Add GST 12% on "X" ( multiplying factor 0.1405)				113.89
	Total				924.48 (Y)
	Add 15 % Contractor's profit and overheads on "Y"				138.67
	Cost of 1.00 sqm				1063.15
	Add labour cess 1%				10.63
	Rate including labour cess				1073.78
	Say				1073.80
<b>14.8</b>	<b>Supplying and fixing new wooden fillets wherever necessary:</b>				
<b>14.8.1</b>	<b>2nd class teak wood fillets</b>				
	Details of cost for 10 metres length				
	MATERIAL				
1190	Second class teak wood in planks 10.00x0.01x0.01 = 1.00 cudm Add 15% wastage = 0.15 cudm Total = 1.15 cudm	10 cudm	0.12	791.00	90.97
9999	Nails	L.S.	26.91	2.12	57.05
	LABOUR				0.00
112	Carpenter 2nd class	day	0.25	369.00	92.25
114	Beldar	day	0.25	306.00	76.50
9999	Sundries	L.S.	2.73	2.12	5.79
	TOTAL				322.55



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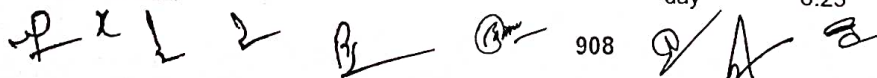


## BCD Analysis of Rates 2022

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add 1 % Water charges				3.23
	TOTAL				325.78 (X)
	Add GST 12% on "X" ( multiplying factor 0.1405)				45.77
	Total				371.55 (Y)
	Add 15 % Contractor's profit and overheads on "Y"				55.73
	Cost of 10.00 metre				427.28
	Cost of 1.00 metre				42.73
	Add labour cess 1%				0.43
	Rate including labour cess				43.16
	Say				43.20
<b>14.8.2</b>	<b>Hollock wood fillets</b>				
	Details of cost for 10 metres length				
	MATERIAL				
<b>2466</b>	Hollock wood in scantling 10.00x0.01x0.01 = 1.00 cu dm Add 15% wastage = 0.15 cu dm Total = 1.15 cu dm	10 cu dm	0.12	357.00	41.06
<b>9999</b>	Nails	L.S.	26.91	2.12	57.05
	LABOUR				
<b>112</b>	Carpenter 2nd class	day	0.25	369.00	92.25
<b>114</b>	Beldar	day	0.25	306.00	76.50
<b>9999</b>	Sundries	L.S.	2.73	2.12	5.79
	TOTAL				272.64
	Add 1 % Water charges				2.73
	TOTAL				275.37 (X)
	Add GST 12% on "X" ( multiplying factor 0.1405)				38.69
	Total				314.06 (Y)
	Add 15 % Contractor's profit and overheads on "Y"				47.11
	Cost of 10.00 metre				361.17
	Cost of 1.00 metre				36.12
	Add labour cess 1%				0.36
	Rate including labour cess				36.48
	Say				36.50
<b>14.9</b>	<b>Renewal of old putty of glass panes (length)</b>				
	Details of cost for 13 metres length				
	MATERIAL				
<b>863</b>	Putty for wood work	kilogram	0.68	28.00	19.04
<b>9999</b>	Nails	L.S.	7.15	2.12	15.16
<b>9999</b>	Spirit	L.S.	2.73	2.12	5.79
	LABOUR				0.00
<b>112</b>	Carpenter 2nd class	day	0.30	369.00	110.70
<b>114</b>	Beldar	day	0.30	306.00	91.80
<b>9999</b>	Sundries	L.S.	1.43	2.12	3.03
	TOTAL				245.52
	Add 1 % Water charges				2.46
	TOTAL				247.97 (X)
	Add GST 12% on "X" ( multiplying factor 0.1405)				34.84
	Total				282.81 (Y)
	Add 15 % Contractor's profit and overheads on "Y"				42.42
	Cost of 13.00 metres				325.23
	Cost of 1.00 metre				25.02
	Add labour cess 1%				0.25
	Rate including labour cess				25.27
	Say				25.30

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Code	Description	Unit	Quantity	Rate ₹	Amount ₹
<b>14.10</b>	<b>Refixing old glass panes with putty and nails</b>				
	Details of cost for 1 sqm				
<b>863</b>	Putty for wood work	kilogram	0.68	28.00	19.04
<b>9999</b>	Spirit	L.S.	2.73	2.12	5.79
<b>9999</b>	Nails	L.S.	7.15	2.12	15.16
	LABOUR				
<b>119</b>	Glazier	day	0.30	344.00	103.20
<b>114</b>	Beldar	day	0.30	306.00	91.80
<b>9999</b>	Sundries	L.S.	1.43	2.12	3.03
	TOTAL				238.02
	Add 1 % Water charges				2.38
	TOTAL				240.40 (X)
	Add GST 12% on "X" ( multiplying factor 0.1405)				33.78
	Total				274.17 (Y)
	Add 15 % Contractor's profit and overheads on "Y"				41.13
	Cost of 1.00 sqm				315.30
	Add labour cess 1%				3.15
	Rate including labour cess				318.45
	Say				318.50
<b>14.11</b>	<b>Fixing old glass panes with wooden fillets</b>				
	(excluding cost of fillets)				
	Detail of cost for 1 sqm				
	LABOUR				
<b>119</b>	Glazier	day	0.30	344.00	103.20
<b>114</b>	Beldar	day	0.30	306.00	91.80
<b>9999</b>	Sundries	L.S.	1.43	2.12	3.03
<b>9999</b>	Nails	L.S.	3.90	2.12	8.27
	TOTAL				206.30
	Add 1 % Water charges				2.06
	TOTAL				208.36 (X)
	Add GST 12% on "X" ( multiplying factor 0.1405)				29.27
	Total				237.64 (Y)
	Add 15 % Contractor's profit and overheads on "Y"				35.65
	Cost of 1.00 sqm				273.28
	Add labour cess 1%				2.73
	Rate including labour cess				276.02
	Say				276.00
<b>14.12</b>	<b>Providing and fixing 16 mm M.S. Fan clamps of standard shape and size in existing R.C.C. slab, including cutting chase, anchoring clamp to reinforcement bar, including cleaning, refilling, making good the chase with matching concrete, plastering and painting the exposed portion of the clamps complete.</b>				
	Details of cost for each fan clamp.				
	MATERIAL				
	M.S.bar 16mm dia = 40cm (including wastage)				
	@ 1.58 kg/m = 0.632 kg				
<b>1003</b>	Mild steel round bar above 12 mm dia	quintal	0.01	5860.00	37.04
<b>9999</b>	Cement concrete 1:2:4 (1 Cement : 2 Coarse sand : 4 graded stone aggregate 20mm nominal size) mortar for rendering or plastering	L.S.	13.52	2.12	28.66
<b>9999</b>	Painting two or more coats to exposed portion of the clamp including priming coat Labour for fixing	L.S.	7.15	2.12	15.16
<b>102</b>	Blacksmith 1st class	day	0.03	413.00	12.39
<b>124</b>	Mason (brick layer) 2nd class	day	0.12	369.00	44.28
<b>114</b>	Beldar	day	0.25	306.00	76.50



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Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	Sundries	L.S.	2.73	2.12	5.79
	TOTAL				219.81
	Add 1 % Water charges				2.20
	TOTAL				222.01 (X)
	Add GST 12% on "X" ( multiplying factor 0.1405)				31.19
	Total				253.20 (Y)
	Add 15 % Contractor's profit and overheads on "Y"				37.98
	Cost of each				291.18
	Add labour cess 1%				2.91
	Rate including labour cess				294.10
	Say				294.10
14.13	<b>Regrading terracing of mud phaska covered with tiles or brick, in cement by dismantling tiles or bricks, removing mud plaster, preparing the surface of mud phaska to proper slope, relaying mud plaster gobri leaping and tiles or bricks, grouted in cement mortar 1:3 (1 cement : 3 fine sand), including replacing unserviceable tiles or bricks with new ones and disposal of unserviceable material to the dumping ground (the cost of the new tiles or brick excluded), all complete as per direction of Engineer-in-Charge.</b>				
	Detail of cost for 10 sqm				
	(i) Dismantling tiles/bricks in cement mortar including removing mud plaster and cleaning the tiles/bricks				
	<b>LABOUR</b>				
155	Mason (average)	day	0.54	369.00	199.26
114	Beldar	day	0.54	306.00	165.24
	(ii) Preparing the surface, for mud phaska to proper slope, relaying mud plaster gobri leaping.				
155	Mason (average)	day	0.27	369.00	99.63
	25mm thick mud plaster including gobri leaping				
	<b>MATERIAL</b>				
	Mud mortar				
2112	Rate as per Item Number 3.18 of SH: Mortars	cum	0.24	2848.95	683.75
308	Bhusa Gobri mortar	quintal	0.08	500.00	42.00
2112	Rate as per Item Number 3.18 of SH: Mortars	cum	0.12	2848.95	341.87
	<b>LABOUR</b>				
114	Beldar	day	0.25	306.00	76.50
2112	(iii) relaying tiles/bricks (Rate as per item No 3.3) including Cement mortar 1:3 (1 Cement :3 fine sand) for grouting	cum	0.06	2848.95	173.79
	<b>LABOUR</b>				
155	Mason (average)	day	1.20	369.00	442.80
114	Beldar	day	1.50	306.00	459.00
101	Bhisti	day	1.00	332.00	332.00
9999	Disposal of mulba	L.S.	5.33	2.12	11.30
9999	Sundries	L.S.	2.73	2.12	5.79
	TOTAL				3032.93
	Add 1 % Water charges				30.33
	TOTAL				3063.26 (X)
	Add GST 12% on "X" ( multiplying factor 0.1405)				430.39
	Total				3493.64 (Y)
	Add 15 % Contractor's profit and overheads on "Y"				524.05
	Cost of 10.00 sqm				4017.69
	Cost of 1.00 sqm				401.77
	Add labour cess 1%				4.02
	Rate including labour cess				405.79
	Say				405.80

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Code	Description	Unit	Quantity	Rate ₹	Amount ₹
14.14	Replacing sand stone slabs in roofing, laid in cement mortar 1:4 (1 cement : 4 coarse sand), including necessary repairs and cement pointing with same mortar complete, including disposal of rubbish to dumping ground, all complete as per direction of Engineer-in-Charge.				
14.14.1	Red/ white sand stone slabs 30 to 50 mm thick Detail of cost for 10 sqm Dismantling existing stone, slabs roofing 1x10 sqm x 0.05m = 0.50 cum.				
114	Beldar	day	0.89	306.00	270.81
115	Coolie	day	0.38	318.00	119.25
9999	Sundries	L.S.	4.03	2.12	8.54
9999	Cleaning the surface including necessary repairs	L.S.	40.43	2.12	85.71
1174	Red sand stone slab 45 mm and 50 mm thick (un-dressed)	sqm	11.00	260.00	2860.00
2216	Carriage of Stone blocks white & red sand stone & kota stone slab Cement mortar 1 : 4 (1 cement : 4 coarse sand)	tonne	1.41	145.72	205.47
2113	Rate as per Item Number 2113 of SH: Mortars Cement mortar 1 : 3 (1 cement : 3 fine sand)	cum	0.01	2256.97	23.70
2112	Rate as per Item Number 3.3 of SH: Mortars	cum	0.01	2848.95	21.37
155	Mason (average)	day	1.69	369.00	623.61
100	Bandhani	day	2.03	325.00	659.75
115	Coolie	day	1.69	318.00	537.42
101	Bhisti	day	0.34	332.00	112.88
9999	Sundries	L.S.	16.12	2.12	34.17
2264	Carriage of Rubbish	cum	0.50	163.93	81.97
	TOTAL				5644.65
	Add 1 % Water charges				56.45
	TOTAL				5701.09 (X)
	Add GST 12% on "X" ( multiplying factor 0.1405)				801.00
	Total				6502.09 (Y)
	Add 15 % Contractor's profit and overheads on "Y"				975.31
	Cost of 10.00 sqm				7477.41
	Cost of 1.00 sqm				747.74
	Add labour cess 1%				7.48
	Rate including labour cess				755.22
	Say				755.20
14.15	Renewing wooden battens in roofs, including making good the holes in wall and painting with oil type wood preservative of approved brand and manufacture complete, including removal of rubbish to the dumping ground, all complete as per direction of Engineer-in-Charge.				
14.15.1	Sal wood battens Details of cost for 10 battens i.e. 300 cum 3 metres long of 100x100mm 10x3x0.1x0.1 = 0.3cum = 300cum Add wastage @ 2% = 6 cum, Total = 306 cum				
	MATERIAL				
1199	Sal wood in scantling	10 cum	30.60	600.00	18360.00
2204	Carriage of Timber	cum	0.31	187.35	57.33
	LABOUR				
	Taking out the existing battens and refixing new one including supporting the roof				
112	Carpenter 2nd class	day	0.50	369.00	184.50
114	Beldar	day	2.00	306.00	612.00

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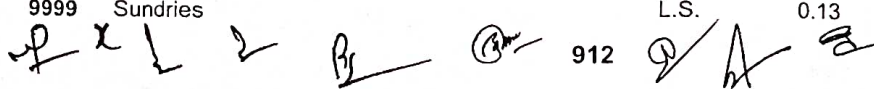
Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	Disposal of mulba	L.S.	5.33	2.12	11.30
9999	Making good the holes including sundries	L.S.	80.73	2.12	171.15
859	Oil type wood preservative	litre	1.22	130.00	158.60
131	Painter	day	0.18	391.00	71.55
115	Coolie	day	0.18	318.00	58.19
9977	Carriage	L.S.	0.78	2.12	1.65
9999	Brushes	L.S.	5.07	2.12	10.75
9999	Sundries	L.S.	4.81	2.12	10.20
	TOTAL				19707.22
	Add 1 % Water charges				197.07
	TOTAL				19904.29 (X)
	Add GST 12% on "X" ( multiplying factor 0.1405)				2796.55
	Total				22700.85 (Y)
	Add 15 % Contractor's profit and overheads on "Y"				3405.13
	Cost of 300 Cudm				26105.98
	Cost of 1.00 cum				87019.92
	Add labour cess 1%				870.20
	Rate including labour cess				87890.12
	Say				87890.10
<b>14.16</b>	<b>Renewing wooden beams in roofs including making good the holes in walls and painting with oil type wood preservative of approved brand and manufacture complete, including removal of rubbish to the dumping ground, all complete as per direction of Engineer-in-Charge.</b>				
<b>14.16.1</b>	<b>Not exceeding 4.00 metres in length.</b>				
<b>14.16.1.1</b>	<b>Sal wood beams</b>				
	Details of cost for 300 cudm or 0.3 cum				
	Consider one beam i.e. 300 cudm.				
	0.25 x 0.30m x 4.0m (long) = 0.30 cum				
	Add wastage @ 2% (0.006 cum)				
	= 0.306 cum = 306 cudm				
	(i) Propping the roof				
	MATERIAL				
	100mm diameter ballies 4m long 10 nos.				
	100x100mm salwood battens 1.0 metre				
	long 5 nos.x1.0x0.1x0.1 =0.05cum				
	= 50 cudm.				
	These materials can be used for 16 times				
	Hence qty for one operation 1/16				
	= 3.125 cudm				
1199	Sal wood in scantling	10 cudm	0.31	600.00	187.50
2204	Carriage of Timber	cum	0.02	187.35	4.27
	LABOUR				
0112	Carpenter 2nd class	day	0.25	369.00	92.25
0114	Beldar	day	0.25	306.00	76.50
	(ii) Taking out the existing beams etc.				
	LABOUR				
0155	Mason (average)	day	0.13	369.00	47.97
0100	Bandhani	day	0.50	325.00	162.50
0114	Beldar	day	0.33	306.00	100.98
	(iii) Renewal				
	Materials and Labour				
1199	Sal wood in scantling	10 cudm	30.60	600.00	18360.00
2204	Carriage of Timber	cum	0.31	187.35	57.33
0112	Carpenter 2nd class	day	1.00	369.00	369.00
0100	Bandhani	day	0.50	325.00	162.50

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Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0114	Beldar Painting with oil preservative (4x1.1) + (2.0x0.25x0.30) = 4.4 + 0.15 = 4.55 sqm	day	1.00	306.00	306.00
0859	Oil type wood preservative	litre	0.46	130.00	59.15
0131	Painter	day	0.07	391.00	27.37
0115	Coolie	day	0.07	318.00	22.26
9999	Sundries	L.S.	0.13	2.12	0.28
9977	Carriage	L.S.	1.82	2.12	3.86
9999	Brushes	L.S.	1.82	2.12	3.86
9999	Making good the holes	L.S.	20.67	2.12	43.82
9999	Sundries	L.S.	26.91	2.12	57.05
0302	Safeda ballies 125 mm diameter	metre	2.50	40.00	100.00
	TOTAL				20244.44
	Add 1 % Water charges				202.44
	TOTAL				20446.89 (X)
	Add GST 12% on "X" ( multiplying factor 0.1405)				2872.79
	Total				23319.67 (Y)
	Add 15 % Contractor's profit and overheads on "Y"				3497.95
	Cost of 300 Cudm				26817.63
	Cost of 1.00 cum				89392.09
	Add labour cess 1%				893.92
	Rate including labour cess				90286.01
	Say				90286.00
<b>14.16.1.2 Hollock wood beams</b>					
(I) Propping the roof					
MATERIAL					
100mm diameter ballies 4m long 10 nos.					
100x100mm salwood battens 1.0 metre					
long 6 nos. x1.0x0.1x0.1 = 60 cudm.					
These materials can be used for 16 times					
hence qty for one operation 1/16 = 3.75 cudm					
2466	Hollock wood in scantling	10 cudm	0.31	357.00	111.56
2204	Carriage of Timber	cum	0.02	187.35	4.27
LABOUR					
0112	Carpenter 2nd class	day	0.25	369.00	92.25
0114	Beldar	day	0.25	306.00	76.50
(ii) Taking out the existing beams etc.					
LABOUR					
0155	Mason (average)	day	0.13	369.00	47.97
0100	Bandhani	day	0.50	325.00	162.50
0114	Beldar	day	0.33	306.00	100.98
(iii) Renewal					
Materials and Labour					
2466	Hollock wood in scantling	10 cudm	30.60	357.00	10924.20
2204	Carriage of Timber	cum	0.31	187.35	57.33
0112	Carpenter 2nd class	day	1.00	369.00	369.00
0100	Bandhani	day	0.50	325.00	162.50
0114	Beldar	day	1.00	306.00	306.00
Painting with oil preservative					
(4x1.1) + (2.0x0.25x0.30) = 4.4 + 0.15					
= 4.55 sqm					
0859	Oil type wood preservative	litre	0.46	130.00	59.15
0131	Painter	day	0.07	391.00	27.37
0115	Coolie	day	0.07	318.00	22.26
9999	Sundries	L.S.	0.13	2.12	0.28



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Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9977	Carriage	L.S.	1.82	2.12	3.86
9999	Brushes	L.S.	1.82	2.12	3.86
9999	Making good the holes	L.S.	20.67	2.12	43.82
9999	Sundries	L.S.	26.91	2.12	57.05
0302	Safeda ballies 125 mm diameter	metre	2.50	40.00	100.00
	TOTAL				12732.71
	Add 1 % Water charges				127.33
	TOTAL				12860.03 (X)
	Add GST 12% on "X" ( multiplying factor 0.1405)				1806.83
	Total				14666.87 (Y)
	Add 15 % Contractor's profit and overheads on "Y"				2200.03
	Cost of 300 Cudm				16866.90
	Cost of 1.00 cum				56222.99
	Add labour cess 1%				562.23
	Rate including labour cess				56785.22
	Say				56785.20
<b>14.16.2 Above 4.00 metres and upto 5.00 metres length.</b>					
<b>14.16.2.1 Sal wood beams</b>					
	Details of cost for 375 cudm or 0.375 cum				
	Consider one beam i.e. 375 cudm.				
	0.25 x 0.30m x 5.0m (long) = 0.375 cum				
	(i) Propping the roof				
	<b>MATERIAL</b>				
	125mm diameter ballies 5m long 12 nos				
	100x100mm salwood battens 1.0 metre				
	long 6 nos. x1.0x0.1x0.1 = 60 cudm.				
	These materials can be used for 16 times				
	hence qty for one operation 1/16 = 3.75 cudm				
1199	Sal wood in scantling	10 cudm	0.38	600.00	225.00
2204	Carriage of Timber	cum	0.05	187.35	9.33
	LABOUR				
0112	Carpenter 2nd class	day	0.25	369.00	92.25
0114	Beldar	day	0.25	306.00	76.50
	(ii) Taking out the existing beams etc.				
	LABOUR				
0155	Mason (average)	day	0.25	369.00	92.25
0100	Bandhani	day	0.63	325.00	204.75
0114	Beldar	day	0.50	306.00	153.00
	(iii) Renewal				
	Materials and Labour				
1199	Sal wood in scantling	10 cudm	38.30	600.00	22980.00
2204	Carriage of Timber	cum	0.38	187.35	71.76
0112	Carpenter 2nd class	day	1.00	369.00	369.00
100	Bandhani	day	1.00	325.00	325.00
0114	Beldar	day	2.00	306.00	612.00
	Painting with oil preservative				
	(2x5x0.25)+3.0 + 2.0x0.25x0.30				
	= 5.5 + 0.15 = 5.65 sqm				
0859	Oil type wood preservative	litre	0.57	130.00	73.45
0131	Painter	day	0.08	391.00	31.28
0115	Coolie	day	0.08	318.00	25.44
9999	Sundries	L.S.	0.26	2.12	0.55
9977	Carriage	L.S.	2.34	2.12	4.96
9999	Brushes	L.S.	2.21	2.12	4.69
9999	Making good the holes	L.S.	20.67	2.12	43.82
9999	Sundries	L.S.	33.15	2.12	70.28

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Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0302	Safeda ballies 125 mm diameter	metre	3.75	40.00	150.00
	TOTAL				25615.30
	Add 1 % Water charges				256.15
	TOTAL				25871.45 (X)
	Add GST 12% on "X" ( multiplying factor 0.1405)				3634.94
	Total				29506.39 (Y)
	Add 15 % Contractor's profit and overheads on "Y"				4425.96
	Cost of 375 Cudm				33932.35
	Cost of 1.00 cum				90486.27
	Add labour cess 1%				904.86
	Rate including labour cess				91391.13
	Say				91391.10
<b>14.16.2.2 Hollock wood beams</b>					
Details of cost for 375 cudm or 0.375 cum					
Consider one beam i.e. 375 cudm.					
0.25 x 0.30m x 5.0m (long) = 0.375 cum					
(i) Propping the roof					
MATERIAL					
125mm diameter ballies 5m long 12 nos					
100x100mm salwood battens 1.0 metre					
long 6 nos. x1.0x0.1x0.1 = 60 cudm.					
These materials can be used for 16 times					
hence qty for one operation 1/16 = 3.75 cudm					
2466	Hollock wood in scantling	10 cudm	0.38	357.00	133.88
2204	Carriage of Timber	cum	0.04	187.35	7.03
LABOUR					
0112	Carpenter 2nd class	day	0.25	369.00	92.25
0114	Beldar	day	0.25	306.00	76.50
(ii) Taking out the existing beams etc.					
LABOUR					
0155	Mason (average)	day	0.25	369.00	92.25
0100	Bandhani	day	0.63	325.00	204.75
0114	Beldar	day	0.50	306.00	153.00
(iii) Renewal					
Materials and Labour					
2466	Hollock wood in scantling	10 cudm	38.30	357.00	13673.10
2204	Carriage of Timber	cum	0.38	187.35	71.76
0112	Carpenter 2nd class	day	1.00	369.00	369.00
0100	Bandhani	day	1.00	325.00	325.00
0114	Beldar	day	2.00	306.00	612.00
Painting with oil preservative (2x5x0.25)+3.0 +					
2.0x0.25x0.30					
= 5.5 + 0.15 = 5.65 sqm					
0859	Oil type wood preservative	litre	0.57	130.00	73.45
0131	Painter	day	0.08	391.00	31.28
0115	Coolie	day	0.08	318.00	25.44
9999	Sundries	L.S.	0.26	2.12	0.55
9977	Carriage	L.S.	2.34	2.12	4.96
9999	Brushes	L.S.	2.21	2.12	4.69
9999	Making good the holes	L.S.	20.67	2.12	43.82
9999	Sundries	L.S.	33.15	2.12	70.28
0302	Safeda ballies 125 mm diameter	metre	3.75	40.00	150.00
	TOTAL				16214.97
	Add 1 % Water charges				162.15
	TOTAL				16377.12 (X)

*Handwritten signatures and initials: P, L, B, R, 914, A, B*

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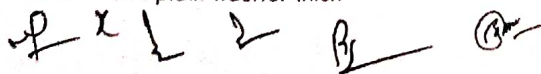


## BCD Analysis of Rates 2022

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add GST 12% on "X" ( multiplying factor 0.1405)				2300.99
	Total				18678.11 (Y)
	Add 15 % Contractor's profit and overheads on "Y"				2801.72
	Cost of 375 Cudm				21479.82
	Cost of 1.00 cum				57279.53
	Add labour cess 1%				572.80
	Rate including labour cess				57852.32
	Say				57852.30
<b>14.17</b>	<b>Raking out joints in lime or cement mortar and preparing the surface for re-pointing or replastering, including disposal of rubbish to the dumping ground, all complete as per direction of Engineer-in-Charge.</b>				
	Detail of cost for 10 sqm				
	LABOUR				
0114	Beldar	day	0.53	306.00	162.18
0115	Coolie	day	0.08	318.00	25.44
0101	Bhisti	day	0.07	332.00	23.24
9999	Sundries	L.S.	1.43	2.12	3.03
	TOTAL				213.89
	Add 1 % Water charges				2.14
	TOTAL				216.03 (X)
	Add GST 12% on "X" ( multiplying factor 0.1405)				30.35
	Total				246.38 (Y)
	Add 15 % Contractor's profit and overheads on "Y"				36.96
	Cost of 10.00 sqm				283.34
	Cost of 1.00 sqm				28.33
	Add labour cess 1%				0.28
	Rate including labour cess				28.62
	Say				28.60
<b>14.18</b>	<b>Flush pointing with cement mortar 1:3 (1 cement : 3 fine sand) mixed with 2% of integral water proofing compound by weight of cement for flat tile bricks on top of mud phaska :</b>				
<b>14.18.1</b>	<b>With F.P.S. brick tiles</b>				
	Detail of cost for 10 sqm				
	MATERIAL				
	Cement mortar 1 : 3 (1 cement : 3 fine sand)				
2112	Rate as per Item Number 3.3 of SH: Mortars	cum	0.02	2848.95	42.73
1213	Water proofing materials 2% of wt. of cement	kilogram	0.15	35.00	5.36
	LABOUR				
0115	Coolie	day	0.36	318.00	114.48
0124	Mason (brick layer) 2nd class	day	0.36	369.00	132.84
0101	Bhisti	day	0.36	332.00	119.52
9999	Sundries	L.S.	18.85	2.12	39.96
	TOTAL				454.89
	Add 1 % Water charges				4.55
	TOTAL				459.44 (X)
	Add GST 12% on "X" ( multiplying factor 0.1405)				64.55
	Total				523.99 (Y)
	Add 15 % Contractor's profit and overheads on "Y"				78.60
	Cost of 10.00 sqm				602.59
	Cost of 1.00 sqm				60.26
	Add labour cess 1%				0.60
	Rate including labour cess				60.86
	Say				60.90
<b>14.18.2</b>	<b>With modular brick tiles</b>				
	Detail of cost for 10 sqm				

## BCD Analysis of Rates 2022

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<b>MATERIAL</b>				
2112	Cement mortar 1 : 3 (1 cement : 3 fine sand) Rate as per Item Number 3.3 of SH: Mortars	cum	0.02	2848.95	48.43
1213	Water proofing materials 2% of wt. of cement	kilogram	0.17	35.00	6.06
	<b>LABOUR</b>				
0115	Coolie	day	0.36	318.00	114.48
0124	Mason (brick layer) 2nd class	day	0.36	369.00	132.84
0101	Bhisti	day	0.36	332.00	119.52
9999	Sundries	L.S.	18.85	2.12	39.96
	<b>TOTAL</b>				461.29
	Add 1 % Water charges				4.61
	<b>TOTAL !</b>				465.90 (X)
	Add GST 12% on "X" ( multiplying factor 0.1405)				65.46
	Total :				531.36 (Y)
	Add 15 % Contractor's profit and overheads on "Y"				79.70
	Cost of 10.00 sqm				611.07
	Cost of 1.00 sqm				61.11
	Add labour cess 1%				0.61
	Rate including labour cess				61.72
	Say !				61.70
<b>14.19</b>	<b>Taking out wind ties from roof including cutting out rusted bolts, nuts etc. and removing materials to any distance within compound and stacking.</b>				
	Details of cost for 30 mtrs of weight 63 kgs				
	M.S. Flats 40x6mm @ 1.9kg./m				
	= 30x1.9 = 57 kg. (A)				
	J' hook bolts @ 30cm centre to centre				
	= 101 Nos. x 0.15 m = 15.15 m @				
	0.40kg./ m = 6.06kg (B)				
	Total (A+B) = 63.06 kg Say 63 kg				
	<b>LABOUR</b>				
0103	Blacksmith 2nd class	day	0.09	369.00	33.21
0100	Bandhani	day	0.06	325.00	19.50
0114	Beldar	day	0.16	306.00	48.96
	<b>TOTAL</b>				101.67
	Add 1 % Water charges				1.02
	<b>TOTAL</b>				102.69 (X)
	Add GST 12% on "X" ( multiplying factor 0.1405)				14.43
	Total :				117.11 (Y)
	Add 15 % Contractor's profit and overheads on "Y"				17.57
	Cost for 63 kg.				134.68
	Cost of 1:00 kg				2.14
	Add labour cess 1%				0.02
	Rate including labour cess				2.16
	Say				2.20
<b>14.20</b>	<b>Fixing of old wind tie with new fittings including painting two or more coats with anticorrosive bitumastic paint of approved brand &amp; manufacturer over and including priming coat of ready mixed zinc chromate yellow primer of approved brand.</b>				
	Detail of cost for 20.2 m wind tie				
	<b>MATERIAL</b>				
1023	Galvanised steel J or L hooks 8 mm dia @ 30 cm center to center = 68 Nos	10 Nos	6.80	120.00	816.00
1208	Bitumen washer	100 Nos	0.68	30.00	20.40
1209	G.I. plain washer thick	100 Nos	0.68	35.00	23.80



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## BCD Analysis of Rates 2022

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9977	Carriage of bolts, nuts and washers etc. LABOUR	L.S.	1.17	2.12	2.48
0102	Blacksmith 1st class	day	0.34	413.00	140.42
0114	Beldar	day	0.34	306.00	104.04
9999	Sundries Applying priming coat with ready mixed zink chromate yellow primer 20.2x2x(0.04+0.006) = 1.86 sqm	L.S.	13.91	2.12	29.49
13.84.2	Rate as per item no 13.50.3 of SH : Finishing Painting with ready mixed black anticorrosive bitumastic paint	sqm	1.86	26.20	48.73 (A)
1397.1	Rate as per item No.13.65.1 SH: Finishing Total A TOTAL Add 1 % Water charges on all except (A) i.e. on (1306.08-169.45) TOTAL Add GST 12% on "X" except "A" ( multiplying factor 0.1405) (1317.44-169.45) TOTAL Add 15 % Contractor's profit and overheads on"Y" except (A) i.e. On (1478.74-169.45) Cost of 20.2 metres Cost of 1.00 metre Add labour cess 1% Rate including labour cess Say	sqm	1.86	64.90	120.72 (A) 169.45 1306.08 11.37  1317.44 (X) 161.29  1478.74 (Y) 196.39  1675.13 82.93 0.83 83.76 83.80
14.21	<b>Renewing bottom rail and/or top runner of collapsible gate including making good all damages and applying priming coat of zinc chromate yellow primer of approved brand and manufacturer.</b> Detail of cost for gate of size 1.52x2.4 m (weight 11.55 kg) MATERIAL M.S. Tee 40x40x6 mm Top rail = 1.725 m Bottom rail = 1.570 m Total = 3.295 m say 3.30 m @ 3.5 kg/m = 11.55 kg Add 10% wastage = 1.155 kg Total = 12.705 kg = 0.1270 q say 0.13 q				
1007	Structurals such as tees,angles channels and R.S. joists	quintal	0.13	5610.00	729.30
2205	Carriage of Steel Taking out collapsible gate including frame	tonne	0.01	145.72	1.89
15.12.2	(Rate as per item no 15.12.2 of SH Dismantling and Demolishing) Refixing of collapsible gate including mending good the damaged floor, wall etc.frame Cement concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size)	each	1.00	206.77	206.77

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## BCD Analysis of Rates 2022

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
4.2.5	Rate as per item no 4.2.5 of SH : Concrete work	cum	0.03	4519.03	135.57 (A)
2115	Cement mortar 1 : 6 (1 cement :6 fine sand) (Rate as per item No 2115)	cum	0.01	1664.99	16.65
9999	Cement concrete 1:2:4 filled in chase cut	L.S.	24.18	2.12	51.26
9999	Disposal of mulba Priming coat on Tees 0.16x3.3 = 0.53 sqm	L.S.	1.82	2.12	3.86
13.81.3	Rate as per item no 13.50.3 of SH : Finishing <b>LABOUR</b> Labour for fixing the gate	sqm	0.53	34.30	18.18 (A)
0155	Mason (average)	day	0.50	369.00	184.50
0114	Beldar	day	0.75	306.00	229.50
9999	Sundries	L.S.	2.60	2.12	5.51
	Total A				153.75
	TOTAL				1582.99
	Add 1 % Water charges on all except (A) i.e. on (1582.99-153.75)				
	TOTAL				1597.29 (X)
	Add GST 12% on "X" except "A" ( multiplying factor 0.1405) (1597.29-153.75)				202.82
	TOTAL				1800.10 (Y)
	Add 15 % Contractor's profit and overheads on "Y" except (A) i.e. On (1800.1-153.75)				246.95
	Cost of 11.55 kg				2047.06
	Cost of 1.00 kg				177.23
	Add labour cess 1%				1.77
	Rate including labour cess				179.01
	Say				179.00
14.22	<b>Renewing Wrought iron or M.S. Wheel or roller of steel door or gate and fitting and fixing the same with necessary clamps, nuts and bolts/welding and erection etc. complete.</b>				
14.22.1	<b>Wheel 50 mm dia and below</b>				
	Detail of cost for 10 nos wheels of 40 mm dia.				
	<b>MATERIAL</b>				
	Weight of 10 nos wheels				
	$10 \times \{3.14 \times \{(4/2) \times (4/2)\} \times 4\} \times 7.850/1000$				
	= 3.94 kg				
	Weight of 10 nos clamps 6 mm thick =10x				
	lenth of clamp =10x0.17m @ 1.90kg/m =				
	3.23 kg				
	Weight of 10 nos 10 mm dia. Bolts, 10 cm				
	long 10x0.10m = 1m @ 0.60 kg/m = 0.60 kg				
	Total = 7.70 kg say 8 kg				
	Labour for dismantling :				
0103	Blacksmith 2nd class	day	0.01	369.00	3.69
0100	Bandhani	day	0.01	325.00	3.25
0114	Beldar	day	0.02	306.00	6.12
9999	Sundries	L.S.	0.39	2.12	0.83
	Renewing the wheels with clamps :-				
	<b>MATERIAL</b>				

## BCD Analysis of Rates 2022

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
7442	Wheel 75 mm dia. 40 mm wide 10 nos clamps out of M.S. flat 40x6 mm, 170 mm long = $10 \times 0.17 \text{m} = 1.70 \text{m}$ @ 1.9 kg/m = 3.23 kg Add 5% wastage = 0.16 kg Total = 3.39 kg say 3.50 kg	each	10.00	62.00	620.00
1008	Flats upto 10 mm in thickness M.S. bolt/pin 10 mm dia 10 cm long 10 Nos $10 \times 0.06 = 0.6 \text{ kg} = 0.006 \text{ q}$	quintal	0.04	4850.00	169.75
1034	Bolts and nuts upto 300 mm in length	quintal	0.01	5200.00	31.20
1215	Welding by electric plant length = $10 \times (2 \times 4) = 80 \text{cm}$ LABOUR Labour for cutting, assembling and erection charges	cm	80.00	2.00	160.00
0102	Blacksmith 1st class	day	0.03	413.00	12.39
0100	Bandhani	day	0.02	325.00	6.50
0114	Beldar Priming coat : = $10 \times 2 \times (0.06 + 0.008) \times 0.25 \text{m}$ = $0.34 \text{ sqm}$ on Tees $0.16 \times 3.3 = 0.53 \text{ sqm}$	day	0.11	306.00	33.66
13.81.3	Rate as per item no 13.50.3 of SH : Finishing	sqm	0.17	34.30	5.66 (A)
9999	Sundries	L.S.	1.69	2.12	3.58
	TOTAL				1056.63
	Add 1 % Water charges on all except (A) i.e. on (1056.63-5.66)				10.51
	TOTAL				1067.14 (X)
	Add GST 12% on "X" except "A" ( multiplying factor 0.1405) (1067.14-5.66)				149.14
	TOTAL				1216.28 (Y)
	Add 15 % Contractor's profit and overheads on "Y" except (A) i.e. On (1216.28-5.66)				181.59
	Cost of 10 nos wheels				1397.87
	Cost per wheel				139.79
	Add labour cess 1%				1.40
	Rate including labour cess				141.18
	Say				141.20
14.22.2	<b>Wheel above 50 mm dia</b> Detail of cost for 10 nos wheels Considering average wheel dia = 75 mm Width of wheel = 40 mm MATERIAL Weight of 10 nos wheels Weight of 10 nos wheels $10 \times [3.14 \times \{(7.5/2) \times (7.5/2)\} \times 4] \times 7.850/1000$ = 13.87 kg Weight of 10 nos clamps 8 mm thick = $10 \times 0.25 \text{ m} @ 3.8 \text{kg/m} = 9.50 \text{ kg}$ Weight of 10 nos 16 mm dia. Bolts, 10 cm long $10 \times 0.10 \text{ m} @ 1.60 \text{ kg/m} = 1.60 \text{ kg}$ Total = 24.97 kg say 25 kg				

## BCD Analysis of Rates 2022

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Labour for dismantling :				
0103	Blacksmith 2nd class	day	0.04	369.00	14.76
0100	Bandhani	day	0.03	325.00	9.75
0114	Beldar	day	0.06	306.00	18.36
9999	Sundries	L.S.	1.04	2.12	2.20
	Renewing the wheels with clamps :- MATERIAL				
7442	Wheel 75 mm dia. 40 mm wide 10 nos clamps out of M.S. flat 60x8 mm = 10x0.25 m @ 3.8 kg/m = 9.5 kg Add 5% wastage = 0.48 kg Total = 9.98 kg say 10 kg	each	10.00	62.00	620.00
1008	Flats upto 10 mm in thickness M.S. bolt/pin 16 mm dia 10 cm long 10 Nos 10x0.16 = 1.6 kg = 0.016 q	quintal	0.10	4850.00	485.00
1034	Bolts and nuts upto 300 mm in length	quintal	0.02	5200.00	83.20
1215	Welding by electric plant length = 10x(2x6)	cm	120.00	2.00	240.00
	LABOUR				0.00
	Labour for cutting, assembling and erection charges				0.00
0102	Blacksmith 1st class	day	0.10	413.00	41.30
0100	Bandhani	day	0.05	325.00	16.25
0114	Beldar	day	0.36	306.00	110.16
	Priming coat : = 10x2(0.06+0.008)x0.25m = 0.34 sqm on Tees 0.16x3.3 = 0.53 sqm				0.00
13.81.3	Rate as per item no 13.50.3 of SH : Finishing	sqm	0.34	34.30	11.66 (A)
9999	Sundries	L.S.	5.33	2.12	11.30
	TOTAL				1663.95
	Add 1 % Water charges on all except (A) i.e. on (1663.95-11.66)				
	TOTAL				1680.47 (X)
	Add GST 12% on "X" except "A" ( multiplying factor 0.1405)				234.47
	(1680.47-11.66)				
	TOTAL				1914.94 (Y)
	Add 15 % Contractor's profit and overheads on "Y" except (A) i.e. On (1914.94-11.66)				285.49
	Cost of 10 nos wheels				2200.43
	Cost per wheel				220.04
	Add labour cess 1%				2.20
	Rate including labour cess				222.24
	Say				222.20
14.23	Pumping out water caused by springs, tidal or river seepage, broken water mains or drains and the like.				
	Details for 10.91 kilolitre Pumping hours 3 hrs. or 0.375 days				
0011	Hire charges of Pumpset of capacity 4000 litres/hour.	day	0.38	700.00	262.50
0114	Beldar for clearing slush	day	2.00	306.00	612.00
	TOTAL				874.50
	Add 1 % Water charges				8.75

*Handwritten signatures and initials:* *PLL*, *B*, *(R)*

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*Handwritten signatures and initials:* *Q/A*, *B*

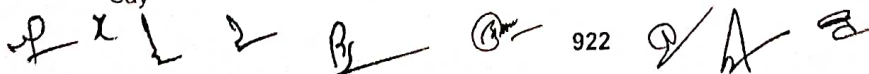
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## BCD Analysis of Rates 2022

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL				883.25 (X)
	Add GST 12% on "X" ( multiplying factor 0.1405)				124.10
	Total				1007.34 (Y)
	Add 15 % Contractor's profit and overheads on "Y"				151.10
	Cost of 10.91 kilolitre				1158.44
	Cost of 1 kilolitre				106.18
	Add labour cess 1%				1.06
	Rate including labour cess				107.24
	Say				107.20
<b>14.24</b>	<b>Mud mortar made with local clay good earth</b>				
	Detail of cost for 1 cum				
	MATERIAL				
0811	Mud (dry)	cum	1.08	165.00	178.20
	LABOUR				
0114	Beldar	day	0.63	306.00	192.78
0101	Bhisti	day	0.32	332.00	104.58
9999	Sundries	L.S.	6.45	2.12	13.67
	TOTAL				489.23
	Add 1 % Water charges				4.89
	TOTAL				494.13 (X)
	Add GST 12% on "X" ( multiplying factor 0.1405)				69.42
	Total				563.55 (Y)
	Add 15 % Contractor's profit and overheads on "Y"				84.53
	Cost of 1cum				648.08
	Add labour cess 1%				6.48
	Rate including labour cess				654.56
	Say				654.60
<b>14.25</b>	<b>Brick work with common burnt clay bricks of class designation 7.5 in mud mortar</b>				
	Details of cost for 1 cum.				
	MATERIAL				
2602	Common burnt clay F.P.S. (non modular) bricks class designation 7.5	1000 Nos	0.49	4436.00	2191.38
	Mud mortar				
14.24	Rate as per Item Number 3.18 of SH: Mortars	cum	0.25	648.08	162.02 A
2201	Carriage of Bricks	1000 Nos	0.49	0.00	0.00
9999	Sundries	L.S.	2.73	2.12	5.79
	LABOUR				
0123	Mason (brick layer) 1st class	day	0.36	413.00	148.68
0124	Mason (brick layer) 2nd class	day	0.36	369.00	132.84
0115	Coolie	day	1.37	318.00	435.66
0101	Bhisti	day	0.20	332.00	66.40
	TOTAL				3142.77
	Add 1 % Water charges				29.81
	TOTAL				3172.58 (X)
	Add GST 12% on "X" ( multiplying factor 0.1405)				422.98
	Total				3595.56 (Y)
	Add 15 % Contractor's profit and overheads on "Y"				515.03
	Cost of 1 Cum.				4110.60
	Add labour cess 1%				41.11
	Rate including labour cess				4151.70
	Say				4151.70

## BCD Analysis of Rates 2022

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
14.26	Providing and fixing 25 mm thick shutters for cup board etc. :				
14.26.1	Panelled or panelled & glazed shutters :				
14.26.1.1	Superior class teak wood including nickel plated bright finished M.S. piano hinges with necessary screws.				
	Details of cost for shutter of cup-board 200x108cm = 2.16 sqm. MATERIAL Styles 4x200x8.0x2.5cm = 0.016 cum+ Rails Top rail 1x110.5x8.0x2.5cm = 0.0022cum+ Lock and bottom rails 2x110.5x8.0x2.5 cm = 0.0044 cum Panels 2x48x41x1.6cm = 0.006cum+ Sash bars 2x114x3.8x2.5cm = 0.003cum+ 6x48x3.8x2.5cm = 0.003 cum+ Beading 16x92x1.4x1.2cm = 0.002cum Total = 0.0366 Add for wastage @ 10% = 0.0037 cum. Grand Total = 0.0403 cum = 40.30 cudm say 40 cudm				
1186	Superior class teak wood such as Dandeli, Balارشah or Malabar in planks	10 cudm	4.00	1100.00	4400.00
2204	Carriage of Timber	cum	0.04	187.35	7.49
2406	Float glass sheet of nominal thickness 4 mm (weight not less than 10kg/sqm).	sqm	0.99	309.00	305.91
	<b>Fittings-</b>				
0608	Nickel plated mild steel piano hinges 1 mm thick 25 mm wide	metre	4.00	39.00	156.00
0639	Bright finished or black enamelled mild steel screws 25 mm	100 Nos	1.20	40.00	48.00
	<b>LABOUR</b>				
0111	Carpenter 1st class	day	2.40	413.00	991.20
0119	Glazier	day	0.18	344.00	61.92
0114	Beldar	day	0.77	306.00	235.62
9999	Sundries	L.S.	40.43	2.12	85.71
	<b>TOTAL</b>				6291.86
	Add 1 % Water charges				62.92
	<b>TOTAL</b>				6354.77 (X)
	Add GST 12% on "X" ( multiplying factor 0.1405)				892.85
	<b>Total</b>				7247.62 (Y)
	Add 15 % Contractor's profit and overheads on "Y"				1087.14
	Cost of 2.16 sqm.				8334.76
	Cost of 1 sqm.				3858.69
	Add labour cess 1%				38.59
	Rate including labour cess				3897.27
	Say				<b>3897.30</b>



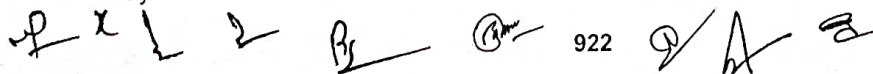
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## BCD Analysis of Rates 2022

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
14.26	Providing and fixing 25 mm thick shutters for cup board etc. :				
14.26.1	Panelled or panelled & glazed shutters :				
14.26.1.1	Superior class teak wood including nickel plated bright finished M.S. piano hinges with necessary screws.				
	Details of cost for shutter of cup-board 200x108cm = 2.16 sqm. MATERIAL Styles 4x200x8.0x2.5cm = 0.016 cum+ Rails Top rail 1x110.5x8.0x2.5cm = 0.0022cum+ Lock and bottom rails 2x110.5x8.0x2.5 cm = 0.0044 cum Panels 2x48x41x1.6cm = 0.006cum+ Sash bars 2x114x3.8x2.5cm = 0.003cum+ 6x48x3.8x2.5cm = 0.003 cum+ Beading 16x92x1.4x1.2cm = 0.002cum Total = 0.0366 Add for wastage @ 10% = 0.0037 cum. Grand Total = 0.0403 cum = 40.30 cudm say 40 cudm				
1186	Superior class teak wood such as Dandeli, Balarshah or Malabar in planks	10 cudm	4.00	1100.00	4400.00
2204	Carriage of Timber	cum	0.04	187.35	7.49
2406	Float glass sheet of nominal thickness 4 mm (weight not less than 10kg/sqm).	sqm	0.99	309.00	305.91
	<b>Fittings-</b>				
0608	Nickel plated mild steel piono hinges 1 mm thick 25 mm wide	metre	4.00	39.00	156.00
0639	Bright finished or black enamelled mild steel screws 25 mm	100 Nos	1.20	40.00	48.00
	<b>LABOUR</b>				
0111	Carpenter 1st class	day	2.40	413.00	991.20
0119	Glazier	day	0.18	344.00	61.92
0114	Beldar	day	0.77	306.00	235.62
9999	Sundries	L.S.	40.43	2.12	85.71
	<b>TOTAL</b>				6291.86
	Add 1 % Water charges				62.92
	<b>TOTAL</b>				6354.77 (X)
	Add GST 12% on "X" ( multiplying factor 0.1405)				892.85
	<b>Total</b>				7247.62 (Y)
	Add 15 % Contractor's profit and overheads on "Y"				1087.14
	Cost of 2.16 sqm.				8334.76
	Cost of 1 sqm.				3858.69
	Add labour cess 1%				38.59
	Rate including labour cess				3897.27
	Say				<b>3897.30</b>



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## BCD Analysis of Rates 2022

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
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**14.26.1.2** 1st class teak wood including nickel plated bright finished M.S. piano hinges with necessary screws.

Details of cost for shutters of a cup-board  
(half glazed and half panelled) 200x108cm  
= 2.16 sqm.

MATERIAL

Styles

4x200x8.0x2.5cm = 0.016 cum+

Rails

Top rail

1x110.5x8.0x2.5cm = 0.0022cum+

Lock and bottom rail

2x110.5x8.0x2.5cm = 0.0044 cum.

Panels

2x48x41x1.6cm = 0.006cum+

Sash bars

2x114x3.8x2.5cm = 0.003cum+

6x48x3.8x2.5cm = 0.003 cum+

Beading

16x92x1.4x1.2cm = 0.002cum

Total = 0.0366

Add for wastage @ 10% = 0.0037 cum.

Grand Total = 0.0403 cum = 40.30 cudm

say 40 cudm

1188	First class teak wood in planks	10 cudm	4.00	850.00	3400.00
2204	Carriage of Timber	cum	0.04	187.35	7.49
2406	Float glass sheet of nominal thickness 4 mm (weight not less than 10kg/sqm).	sqm	0.99	309.00	305.91
<b>Fittings</b>					
0608	Nickel plated mild steel piano hinges 1 mm thick 25 mm wide	metre	4.00	39.00	156.00
0639	Bright finished or black enamelled mild steel screws 25 mm	100 Nos	1.20	40.00	48.00
<b>LABOUR</b>					
0111	Carpenter 1st class	day	2.40	413.00	991.20
0119	Glazier	day	0.18	344.00	61.92
0114	Beldar	day	0.77	306.00	235.62
9999	Sundries	L.S.	40.43	2.12	85.71
<b>TOTAL</b>					5291.86
Add 1 % Water charges					52.92
<b>TOTAL</b>					5344.77 (X)
Add GST 12% on "X" ( multiplying factor 0.1405)					750.94
Total					6095.71 (Y)
Add 15 % Contractor's profit and overheads on "Y"					914.36
Cost of 2.16 sqm.					7010.07
Cost of 1 sqm.					3245.40
Add labour cess 1%					32.45
Rate including labour cess					3277.86
Say					3277.90

**14.26.2** Glazed shutters :

**14.26.2.1** Superior class teak wood including nickel plated bright finished M.S. piano hinges with necessary screws.

Details of cost for shutter of cup-board  
200x108cm = 2.16 sqm.

MATERIAL

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## BCD Analysis of Rates 2022

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	(i) Teak wood first class Styles : 4x200x9.5x2.5 cm = 0.019 cum Rails Top & intermediate rails 2x110.5x9.5x2.5 cm = 0.006 cum Lock and bottom rails 2x110.5x19.7x2.5 cm = 0.011 cum Beadings- 2x186.1x1.9x1.2cm = 0.001cum+ 4x171.70x1.9x1.2cm = 0.002cum. Total = 0.039 cum. Add for wastage @ 10% = 0.004 cum. Grand Total = 0.043 cum = 43 cudm				
1186	Superior class teak wood such as Dandeli, Balarshah or Malabar in planks	10 cudm	4.30	1100.00	4730.00
2406	Float glass sheet of nominal thickness 4 mm (weight not less than 10kg/sqm).	sqm	1.27	309.00	392.43
0608	Nickel plated mild steel piono hinges 1 mm thick 25 mm wide 75x45x3.2 mm	metre	4.00	39.00	156.00
0639	Bright finished or black enamelled mild steel screws 25 mm	100 Nos	1.20	40.00	48.00
0597	Bright finished or black enamelled mild steel butt hinges 50x37x1.50 mm	10 Nos	0.20	49.00	9.80
0640	Bright finished or black enamelled mild steel screws 20 mm	100 Nos	0.08	35.00	2.80
2204	Carriage of Timber LABOUR	cum	0.04	187.35	8.06
0156	Carpenter (average)	day	1.83	369.00	675.27
0119	Glazier	day	0.23	344.00	79.12
0114	Beldar	day	0.77	306.00	235.62
9999	Sundries	L.S.	40.43	2.12	85.71
	TOTAL				6422.81
	Add 1 % Water charges				64.23
	TOTAL				6487.04 (X)
	Add GST 12% on "X" ( multiplying factor 0.1405)				911.43
	Total				7398.46 (Y)
	Add 15 % Contractor's profit and overheads on "Y"				1109.77
	Cost of 2.16 sqm.				8508.23
	Cost of 1 sqm.				3939.00
	Add labour cess 1%				39.39
	Rate including labour cess				3978.39
	Say				3978.40

**14.26.2.2 1st class teak wood including nickel plated bright finished M.S. piano hinges with necessary screws.**

Details of cost for shutter of cup-board  
200x108cm = 2.16 sqm.

MATERIAL

(i) Teak wood first class

## BCD Analysis of Rates 2022

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Styles : 4x200x9.5x2.5 cm = 0.019 cum				
	Rails				
	Top & intermediate rails				
	2x110.5x9.5x2.5 cm = 0.006 cum				
	Lock and bottom rails				
	2x110.5x19.7x2.5 cm = 0.011 cum				
	Beadings-				
	2x186.1x1.9x1.2cm = 0.001cum+				
	4x171.70x1.9x1.2cm = 0.002cum.				
	Total = 0.039 cum.				
	Add for wastage @ 10% = 0.004 cum.				
	Grand Total = 0.043 cum = 43 cudm				
1188	First class teak wood in planks	10 cudm	4.30	850.00	3655.00
2406	Float glass sheet of nominal thickness 4 mm (weight not less than 10kg/sqm).	sqm	1.27	309.00	392.43
0608	Nickel plated mild steel piono hinges 1 mm thick 25 mm wide	metre	4.00	39.00	156.00
0639	Bright finished or black enamelled mild steel screws 25 mm	100 Nos	1.20	40.00	48.00
0597	Bright finished or black enamelled mild steel butt hinges 50x37x1.50 mm	10 Nos	0.20	49.00	9.80
0640	Bright finished or black enamelled mild steel screws 20 mm	100 Nos	0.08	35.00	2.80
2204	Carriage of Timber	cum	0.04	187.35	8.06
	LABOUR				0.00
0156	Carpenter (average)	day	1.83	369.00	675.27
0119	Glazier	day	0.23	344.00	79.12
0114	Beldar	day	0.77	306.00	235.62
9999	Sundries	L.S.	40.43	2.12	85.71
	TOTAL				5347.81
	Add 1 % Water charges				53.48
	TOTAL				5401.29 (X)
	Add GST 12% on "X" ( multiplying factor 0.1405)				758.88
	Total				6160.17 (Y)
	Add 15 % Contractor's profit and overheads on "Y"				924.02
	Cost of 2.16 sqm.				7084.19
	Cost of 1 sqm.				3279.72
	Add labour cess 1%				32.80
	Rate including labour cess				3312.52
	Say				3312.50
14.27	<b>Providing and fixing plain jaffri door and window shutters including bright or/and black enamelled M.S. butt hinges with necessary screws 35x10 mm laths placed 35 mm apart (frames to be paid separately), including fixing 50x12 mm beading complete with :</b>				
14.27.1	<b>Second class teak wood</b>				
	Details of cost of a jaffri shutter 176x86 cm				
	= 1.51 sqm				
	MATERIAL				
	Teak wood 2nd class				
	Styles 2x176x7.5x3.5 cm = 0.0092 cum				
	Rails 3x86x7.5x3.5 = 0.0068 cum				
	Total 0.0160 cum				
	Add wastage @ 10 % =0.0016 cum				
	Total = 0.0176 cum Say 18 cudm				
1190	Second class teak wood in planks	10 cudm	1.80	791.00	1423.80
2204	Carriage of Timber Palain Jaffri work	cum	0.02	187.35	3.37

## BCD Analysis of Rates 2022

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9.41.1	Rate as per Item Number 9.41.1 of SH:Wood and PVC work	sqm	1.51	2090.12	3156.08 (A)
595	Bright finished or black enamelled mild steel butt hinges 100x58x1.90 mm	10 Nos	0.60	80.00	48.00
597	Bright finished or black enamelled mild steel butt hinges 50x37x1.50 mm	10 Nos	0.20	49.00	9.80
637	Bright finished or black enamelled mild steel screws 40 mm	100 Nos	0.48	60.00	28.80
640	Bright finished or black enamelled mild steel screws 20 mm	100 Nos	0.08	35.00	2.80
112	LABOUR For making frame and fixing fitting Carpenter 2nd class	day	0.30	369.00	110.70
	TOTAL				4783.36
	Add 1 % Water charges on all except (A) i.e. on (4783.36-3156.08)				
	TOTAL				4799.63 (X)
	Add GST 12% on "X" except "A" ( multiplying factor 0.1405) (4799.63-3156.08)				230.92
	TOTAL				5030.55 (Y)
	Add 15 % Contractor's profit and overheads on "Y" except (A) i.e. On (5030.55-3156.08)				281.17
	Cost of 1.51 sqm.				5311.72
	Cost of 1 sqm.				3517.69
	Add labour cess 1%				35.18
	Rate including labour cess				3552.87
	Say				3552.90
14.28	Providing and fixing brass curtain rods of wall thickness 1.25 mm with two brass brackets fixed with brass screws and wooden plugs etc. wherever necessary complete				
14.28.1	20 mm diameter. Detail of cost for 2 metre long				
	MATERIAL				
444	Brass curtain rod 20 mm dia 1.25 mm thick	metre	2.00	140.00	280.00
446	Brass brackets (curtain rods) 20 mm	each	2.00	45.00	90.00
9999	Screws	L.S.	2.73	2.12	5.79
9977	Carriage	L.S.	1.56	2.12	3.31
	Wooden plugs including cutting brick work and fixing in cement mortar				
9.32	Rate as per item no 9.32 of SH : Wood work	each	2.00	24.87	49.75 (A)
9999	LABOUR	L.S.	2.73	2.12	5.79
9999	Sundries	L.S.	1.56	2.12	3.31
	TOTAL				437.94
	Add 1 % Water charges on all except (A) i.e. on (437.94-49.75)				
	TOTAL				441.82 (X)
	Add GST 12% on "X" except "A" ( multiplying factor 0.1405) (441.82-49.75)				55.09
	TOTAL				496.91 (Y)
	Add 15 % Contractor's profit and overheads on "Y" except (A) i.e. On (496.91-49.75)				67.07
	Cost of 2 metres				563.98
	Cost of 1 metre				281.99


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Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add labour cess 1%				2.82
	Rate including labour cess				284.81
	Say				284.80
<b>14.28.2</b>	<b>25 mm diameter.</b>				
	Detail of cost for 2 metre long				
	MATERIAL				
445	Brass curtain rod 25 mm dia 1.25 mm thick	metre	2.00	190.00	380.00
446	Brass brackets (curtain rods) 20 mm	each	2.00	45.00	90.00
9999	Screws	L.S.	2.73	2.12	5.79
9977	Carriage	L.S.	1.56	2.12	3.31
	Wooden plugs including cutting brick work and fixing in cement mortar				
9.32	Rate as per item no 9.32 of SH : Wood work	each	2.00	24.87	49.75 (A)
9999	LABOUR	L.S.	2.73	2.12	5.79
9999	Sundries	L.S.	1.56	2.12	3.31
	TOTAL				537.94
	Add 1 % Water charges on all except (A) i.e. on (537.94-49.75)				
	TOTAL				542.82 (X)
	Add GST 12% on "X" except "A" ( multiplying factor 0.1405)				69.28
	(542.82-49.75)				
	TOTAL				612.10 (Y)
	Add 15 % Contractor's profit and overheads on "Y" except (A) i.e. On (612.1-49.75)				84.35
	Cost of 2 metres				696.45
	Cost of 1 metre				348.22
	Add labour cess 1%				3.48
	Rate including labour cess				351.71
	Say				351.70
<b>14.29</b>	<b>Providing and fixing M.S. round or square bars with M.S. flats at required spacing in wooden frames of windows and clerestory windows.</b>				
	Details of cost for window -140x110cm				
	MATERIAL				
	M.S. bar 16 mm dia 13x136 cm = 17.68 m @ 1.58 kg/m = 27.93 kg Add for wastage @ 10% = 2.79 kg Total = 30.72 kg or 0.307 q				
1003	Mild steel round bar above 12 mm dia M.S. flat 40x6mm 2x96cm = 192cm+ 1x110cm = 110cm = 302cm+	quintal	0.307	5860.00	1799.02
	Add wastage @ 10% = 30cm				
	Total = 332cm.@ 1.90 kg/m = 6.31 kg Say 0.063 q				
1008	Flats upto 10 mm in thickness	quintal	0.06	4850.00	305.55
2205	Carriage of Steel (0.307+0.063 = 0.37 q = 0.037 t)	tonne	0.04	145.72	5.39
9999	Sundries	L.S.	26.91	2.12	57.05
	LABOUR				
103	Blacksmith 2nd class	day	0.35	369.00	129.15
112	-Carpenter	day	0.20	369.00	73.80
114	2nd class Beldar	day	0.45	306.00	137.70
	TOTAL				2507.66
	Add 1 % Water charges				25.08
	TOTAL				2532.74 (X)



## BCD Analysis of Rates 2022

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add GST 12% on "X" ( multiplying factor 0.1405)				355.85
	Total				2888.59 (Y)
	Add 15 % Contractor's profit and overheads on "Y"				433.29
	Cost of 33.67 kg.(5.74+27.93=33.67kg)				3321.88
	Cost of 1 kg.				98.66
	Add labour cess 1%				0.99
	Rate including labour cess				99.65
	Say				99.60
<b>14.30</b>	<b>Providing joists (karries) including hoisting, fixing in position and applying wood preservative on unexposed surface etc. complete with :</b>				
<b>14.30.1</b>	<b>Sal wood</b>				
	Details of cost for 300cudm.				
	MATERIAL				
	Sal wood 10x0.1mx0.1mx3.0m = 0.30 cum. or = 300 cudm				
	Add wastage @ 2% = 6.00 cudm.				
	Total = 306 cudm.				
<b>1199</b>	Sal wood in scantling	10 cudm	30.60	600.00	18360.00
<b>2204</b>	Carriage of Timber	cum	0.31	187.35	57.33
	LABOUR				
<b>112</b>	Carpenter 2nd class	day	0.70	369.00	258.30
<b>114</b>	Beldar	day	1.45	306.00	443.70
<b>100</b>	Bandhani	day	0.70	325.00	227.50
	Priming coat (Wood preservative)				
<b>13.81.1</b>	Rate as per item no 13.57.1 SH : Finishing	sqm	0.80	39.32	31.45 (A)
<b>9999</b>	Sundries	L.S.	26.91	2.12	57.05
	TOTAL				19435.33
	Add 1 % Water charges on all except (A) i.e. on (19435.33-31.45)				
	TOTAL				19629.37 (X)
	Add GST 12% on "X" except "A" ( multiplying factor 0.1405)				2753.51
	(19629.37-31.45)				
	TOTAL				22382.88 (Y)
	Add 15 % Contractor's profit and overheadson"Y" except (A) i.e. On (22382.88-31.45)				
	Cost of 300 cudm.				25735.59
	Cost of 1 cum.				85785.30
	Add labour cess 1%				857.85
	Rate including labour cess				86643.15
	Say				86643.20
<b>14.30.2</b>	<b>Hollock wood</b>				
	Details of cost for 300cudm.				
	MATERIAL				
	Hollock wood in scantling				
	10x0.1mx0.1mx3.0m = 0.30 cum. or = 300 cudm				
	Add wastage @ 2% = 6.00 cudm.				
	Total = 306 cudm.				
<b>2466</b>	Hollock wood in scantling	10 cudm	30.60	357.00	10924.20
<b>2204</b>	Carriage of Timber	cum	0.31	187.35	57.33
	LABOUR				
<b>112</b>	Carpenter 2nd class	day	0.70	369.00	258.30


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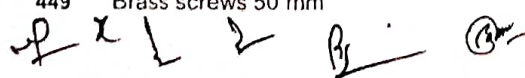
## BCD Analysis of Rates 2022

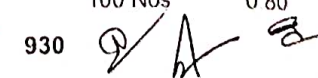
Code	Description	Unit	Quantity	Rate ₹	Amount ₹
114	Beldar	day	1.45	306.00	443.70
100	Bandhani	day	0.70	325.00	227.50
	Priming coat (Wood preservative)				
13.81.1	Rate as per item no 13.57.1 SH : Finishing	sqm	0.80	39.32	31.45 (A)
9999	Sundries	L.S.	26.91	2.12	57.05
	TOTAL				11999.53
	Add 1 % Water charges on all except (A) i.e. on (11999.53-31.45)				
	TOTAL				12119.21 (X)
	Add GST 12% on "X" except "A" ( multiplying factor 0.1405)				1698.33
	(12119.21-31.45)				
	TOTAL				13817.54 (Y)
	Add 15 % Contractor's profit and overheads "Y" except (A) i.e. On (13817.54-31.45)				
	Cost of 300 cum.				15885.45
	Cost of 1 cum.				52951.52
	Add labour cess 1%				529.52
	Rate including labour cess				53481.03
	Say				53481.00
14.31	<b>Providing and fixing bright finished brass single acting spring hinges with necessary brass screws etc. complete :</b>				
14.31.1	<b>150 mm</b>				
	Details of cost for 10 nos.				
	MATERIAL				
389	Brass single acting spring hinges 150 mm	each	10.00	425.00	4250.00
449	Brass screws 50 mm	100 Nos	0.80	220.00	176.00
9977	Carriage of materials	L.S.	3.64	2.12	7.72
	LABOUR				
111	Carpenter 1st class	day	0.40	413.00	165.20
114	Beldar	day	0.20	306.00	61.20
	TOTAL				4660.12
	Add 1 % Water charges				46.60
	TOTAL				4706.72 (X)
	Add GST 12% on "X" ( multiplying factor 0.1405)				661.29
	Total				5368.01 (Y)
	Add 15 % Contractor's profit and overheads on "Y"				805.20
	Cost of 10 hinges				6173.21
	Cost of each				617.32
	Add labour cess 1%				6.17
	Rate including labour cess				623.49
	Say				623.50
14.31.2	<b>125 mm</b>				
	Details of cost for 10 nos.				
	MATERIAL				
390	Brass single acting spring hinges 125 mm	each	10.00	285.00	2850.00
449	Brass screws 50 mm	100 Nos	0.80	220.00	176.00
9977	Carriage of materials	L.S.	3.64	2.12	7.72
	LABOUR				
111	Carpenter 1st class	day	0.40	413.00	165.20
114	Beldar	day	0.20	306.00	61.20
	TOTAL				3260.12
	Add 1 % Water charges				32.60
	TOTAL				3292.72 (X)
	Add GST 12% on "X" ( multiplying factor 0.1405)				462.63



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Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Total				3755.34 (Y)
	Add 15 % Contractor's profit and overheads on "Y"				563.30
	Cost of 10 hinges				4318.65
	Cost of each				431.86
	Add labour cess 1%				4.32
	Rate including labour cess				436.18
	Say				436.20
<b>14.31.3</b>	<b>100 mm</b>				
	Details of cost for 10 nos.				
	MATERIAL				
391	Brass single acting spring hinges 100 mm	each	10.00	250.00	2500.00
450	Brass screws 40 mm	100 Nos	0.80	170.00	136.00
9977	Carriage of materials	L.S.	3.64	2.12	7.72
	LABOUR				
111	Carpenter 1st class	day	0.40	413.00	165.20
114	Beldar	day	0.20	306.00	61.20
	TOTAL				2870.12
	Add 1 % Water charges				28.70
	TOTAL				2898.82 (X)
	Add GST 12% on "X" ( multiplying factor 0.1405)				407.28
	Total				3306.10 (Y)
	Add 15 % Contractor's profit and overheads on "Y"				495.92
	Cost of 10 hinges				3802.02
	Cost of each				380.20
	Add labour cess 1%				3.80
	Rate including labour cess				384.00
	Say				384.00
<b>14.32</b>	<b>Providing and fixing bright finished brass double acting spring hinges with necessary brass screws etc. complete :</b>				
<b>14.32.1</b>	<b>150 mm</b>				
	Details of cost for 10 nos.				
	MATERIAL				
392	Brass double acting spring hinges 150 mm	each	10.00	480.00	4800.00
449	Brass screws 50 mm	100 Nos	0.80	220.00	176.00
9977	Carriage of materials	L.S.	3.64	2.12	7.72
	LABOUR				
111	Carpenter 1st class	day	0.40	413.00	165.20
114	Beldar	day	0.20	306.00	61.20
	TOTAL				5210.12
	Add 1 % Water charges				52.10
	TOTAL				5262.22 (X)
	Add GST 12% on "X" ( multiplying factor 0.1405)				739.34
	Total				6001.56 (Y)
	Add 15 % Contractor's profit and overheads on "Y"				900.23
	Cost of 10 hinges				6901.79
	Cost of each				690.18
	Add labour cess 1%				6.90
	Rate including labour cess				697.08
	Say				697.10
<b>14.32.2</b>	<b>125 mm</b>				
	Details of cost for 10 nos.				
	MATERIAL				
393	Brass double acting spring hinges 125 mm	each	10.00	400.00	4000.00
449	Brass screws 50 mm	100 Nos	0.80	220.00	176.00
	LABOUR				
	TOTAL				4176.00
	Add 1 % Water charges				41.76
	TOTAL				4217.76 (X)
	Add GST 12% on "X" ( multiplying factor 0.1405)				593.12
	Total				4810.88 (Y)
	Add 15 % Contractor's profit and overheads on "Y"				721.63
	Cost of 10 hinges				4099.25
	Cost of each				409.92
	Add labour cess 1%				4.09
	Rate including labour cess				414.11
	Say				414.11



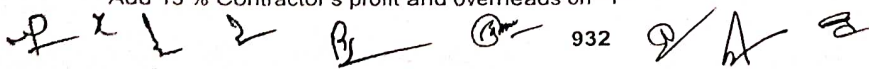


## BCD Analysis of Rates 2022

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9977	Carriage of materials	L.S.	3.64	2.12	7.72
	LABOUR				
111	Carpenter 1st class	day	0.40	413.00	165.20
114	Beldar	day	0.20	306.00	61.20
	TOTAL				4410.12
	Add 1 % Water charges				44.10
	TOTAL				4454.22 (X)
	Add GST 12% on "X" ( multiplying factor 0.1405)				625.82
	Total				5080.04 (Y)
	Add 15 % Contractor's profit and overheads on "Y"				762.01
	Cost of 10 hinges				5842.04
	Cost of each				584.20
	Add labour cess 1%				5.84
	Rate including labour cess				590.05
	Say				<b>590.00</b>
<b>14.32.3</b>	<b>100 mm</b>				
	Details of cost for 10 nos.				
	MATERIAL				
394	Brass double acting spring hinges 100 mm	each	10.00	390.00	3900.00
450	Brass screws 40 mm	100 Nos	0.80	170.00	136.00
9977	Carriage of materials	L.S.	3.64	2.12	7.72
	LABOUR				
111	Carpenter 1st class	day	0.40	413.00	165.20
114	Beldar	day	0.20	306.00	61.20
	TOTAL				4270.12
	Add 1 % Water charges				42.70
	TOTAL				4312.82 (X)
	Add GST 12% on "X" ( multiplying factor 0.1405)				605.95
	Total				4918.77 (Y)
	Add 15 % Contractor's profit and overheads on "Y"				737.82
	Cost of 10 hinges				5656.58
	Cost of each				565.66
	Add labour cess 1%				5.66
	Rate including labour cess				571.32
	Say				<b>571.30</b>
<b>14.33</b>	<b>Providing and fixing bright finished brass flush bolts with necessary brass screws etc. complete</b>				
<b>14.33.1</b>	<b>250 mm</b>				
	Details of cost for 10 nos.				
	MATERIAL				
404	Brass flush bolt 250 mm	each	10.00	150.00	1500.00
452	Brass screws 25 mm	100 Nos	0.60	100.00	60.00
9977	Carriage of materials	L.S.	3.64	2.12	7.72
	LABOUR				
111	Carpenter 1st class	Day	0.20	413.00	82.60
	TOTAL				1650.32
	Add 1 % Water charges				16.50
	TOTAL				1666.82 (X)
	Add GST 12% on "X" ( multiplying factor 0.1405)				234.19
	Total				1901.01 (Y)
	Add 15 % Contractor's profit and overheads on "Y"				285.15
	Cost of 10 hinges				2186.16
	Cost of each				218.62
	Add labour cess 1%				2.19
	Rate including labour cess				220.80
	Say				<b>220.80</b>

## BCD Analysis of Rates 2022

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
<b>14.33.2</b>	<b>150 mm</b>				
	Details of cost for 10 nos.				
	MATERIAL				
405	Brass flush bolt 150 mm	each	10.00	130.00	1300.00
452	Brass screws 25 mm	100 Nos	0.60	100.00	60.00
9977	Carriage of materials	L.S.	2.73	2.12	5.79
	LABOUR				
111	Carpenter 1st class	day	0.17	413.00	70.21
	TOTAL				1436.00
	Add 1 % Water charges				14.36
	TOTAL				1450.36 (X)
	Add GST 12% on "X" ( multiplying factor 0.1405)				203.78
	Total				1654.13 (Y)
	Add 15 % Contractor's profit and overheads on "Y"				248.12
	Cost of 10 hinges				1902.25
	Cost of each				190.23
	Add labour cess 1%				1.90
	Rate including labour cess				192.13
	Say				192.10
<b>14.33.3</b>	<b>100 mm</b>				
	Details of cost for 10 nos.				
	MATERIAL				
406	Brass flush bolt 100 mm	each	10.00	90.00	900.00
452	Brass screws 25 mm	100 Nos	0.60	100.00	60.00
9977	Carriage of materials	L.S.	2.73	2.12	5.79
	LABOUR				
111	Carpenter 1st class	day	0.17	413.00	70.21
	TOTAL				1036.00
	Add 1 % Water charges				10.36
	TOTAL				1046.36 (X)
	Add GST 12% on "X" ( multiplying factor 0.1405)				147.01
	Total				1193.37 (Y)
	Add 15 % Contractor's profit and overheads on "Y"				179.01
	Cost of 10 hinges				1372.38
	Cost of each				137.24
	Add labour cess 1%				1.37
	Rate including labour cess				138.61
	Say				138.60
<b>14.34</b>	<b>Providing and fixing 150 mm bright finished floor brass door stopper with rubber cushion, necessary brass screws etc. to suit shutter thickness complete</b>				
	Details of cost for 10 nos.				
	MATERIAL				
417	Brass 150 mm floor door stopper (0.357kg)	each	10.00	160.00	1600.00
450	Brass screws 40 mm	100 Nos	0.40	170.00	68.00
9977	Carriage of material	L.S.	2.73	2.12	5.79
	LABOUR				
111	Carpenter 1st class	day	0.07	413.00	28.91
9999	Sundries (wooden plugs including fixing in the floor)	L.S.	6.37	2.12	13.50
	TOTAL				1716.20
	Add 1 % Water charges				17.16
	TOTAL				1733.36 (X)
	Add GST 12% on "X" ( multiplying factor 0.1405)				243.54
	Total				1976.90 (Y)
	Add 15 % Contractor's profit and overheads on "Y"				296.54

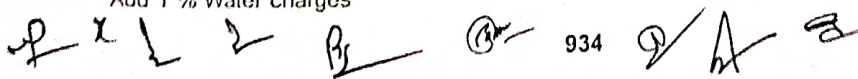


## BCD Analysis of Rates 2022

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Cost of 10 hinges				2273.44
	Cost of each				227.34
	Add labour cess 1%				2.27
	Rate including labour cess				229.62
	Say				<b>229.60</b>
<b>14.35</b>	<b>Providing and fixing bright finished brass hard drawn hooks and eyes :</b>				
<b>14.35.1</b>	<b>300 mm</b>				
	Details of cost for 10 nos.				
	MATERIAL				
<b>418</b>	Brass hard drawn hooks and eyes 300 mm	10 Nos	1.00	600.00	600.00
<b>9977</b>	Carriage of material	L.S.	0.91	2.12	1.93
	LABOUR				
<b>111</b>	Carpenter 1st class	day	0.06	413.00	24.78
	TOTAL				626.71
	Add 1 % Water charges				6.27
	TOTAL				632.98 (X)
	Add GST 12% on "X" ( multiplying factor 0.1405)				88.93
	Total				721.91 (Y)
	Add 15 % Contractor's profit and overheads on "Y"				108.29
	Cost of 10 Nos				830.20
	Cost of each				83.02
	Add labour cess 1%				0.83
	Rate including labour cess				83.85
	Say				<b>83.80</b>
<b>14.35.2</b>	<b>250 mm</b>				
	Details of cost for 10 nos.				
	MATERIAL				
<b>419</b>	Brass hard drawn hooks and eyes 250 mm	10 Nos	1.00	574.00	574.00
<b>9977</b>	Carriage of material	L.S.	0.91	2.12	1.93
	LABOUR				
<b>111</b>	Carpenter 1st class	day	0.06	413.00	24.78
	TOTAL				600.71
	Add 1 % Water charges				0.00
	TOTAL				600.71 (X)
	Add GST 12% on "X" ( multiplying factor 0.1405)				84.40
	Total				685.11 (Y)
	Add 15 % Contractor's profit and overheads on "Y"				102.77
	Cost of 10 hooks and eyes				787.88
	Cost of 1 hook and eye				78.79
	Add labour cess 1%				0.79
	Rate including labour cess				79.58
	Say				<b>79.60</b>
<b>14.35.3</b>	<b>200 mm</b>				
	Details of cost for 10 nos.				
	MATERIAL				
<b>420</b>	Brass hard drawn hooks and eyes 200 mm	10 Nos	1.00	510.00	510.00
<b>9977</b>	Carriage of material	L.S.	0.91	2.12	1.93
	LABOUR				
<b>111</b>	Carpenter 1st class	day	0.06	413.00	24.78
	TOTAL				536.71
	Add 1 % Water charges				5.37
	TOTAL				542.08 (X)
	Add GST 12% on "X" ( multiplying factor 0.1405)				76.16
	Total				618.24 (Y)

## BCD Analysis of Rates 2022

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add 15 % Contractor's profit and overheads on "Y"				92.74
	Cost of 10 Nos				710.97
	Cost of each				71.10
	Add labour cess 1%				0.71
	Rate including labour cess				71.81
	Say				71.80
<b>14.35.4</b>	<b>150 mm</b>				
	Details of cost for 10 nos.				
	MATERIAL				
<b>421</b>	Brass hard drawn hooks and eyes 150 mm	10 Nos	1.00	400.00	400.00
<b>9977</b>	Carriage of material	L.S.	0.91	2.12	1.93
	LABOUR				
<b>111</b>	Carpenter 1st class	day	0.06	413.00	24.78
	TOTAL				426.71
	Add 1 % Water charges				4.27
	TOTAL				430.98 (X)
	Add GST 12% on "X" ( multiplying factor 0.1405)				60.55
	Total				491.53 (Y)
	Add 15 % Contractor's profit and overheads on "Y"				73.73
	Cost of 10 Nos				565.26
	Cost of each				56.53
	Add labour cess 1%				0.57
	Rate including labour cess				57.09
	Say				57.10
<b>14.35.5</b>	<b>100 mm</b>				
	Details of cost for 10 nos.				
	MATERIAL				
<b>422</b>	Brass hard drawn hooks and eyes 100 mm	10 Nos	1.00	345.00	345.00
<b>9977</b>	Carriage of material	L.S.	0.91	2.12	1.93
	LABOUR				
<b>111</b>	Carpenter 1st class	day	0.06	413.00	24.78
	TOTAL				371.71
	Add 1 % Water charges				3.72
	TOTAL				375.43 (X)
	Add GST 12% on "X" ( multiplying factor 0.1405)				52.75
	Total				428.17 (Y)
	Add 15 % Contractor's profit and overheads on "Y"				64.23
	Cost of 10 Nos				492.40
	Cost of each				49.24
	Add labour cess 1%				0.49
	Rate including labour cess				49.73
	Say				49.70
<b>14.36</b>	<b>Providing and fixing bright finished brass fan light pivot with necessary brass screws etc. complete.</b>				
	Details of cost for 10 nos.				
	MATERIAL				
<b>429</b>	Brass fanlight pivot	10 Nos	1.00	168.00	168.00
<b>450</b>	Brass screws 40 mm	100 Nos	0.40	170.00	68.00
<b>9977</b>	Carriage of material	L.S.	0.91	2.12	1.93
	LABOUR				
<b>111</b>	Carpenter 1st class	day	0.08	413.00	33.04
	TOTAL				270.97
	Add 1 % Water charges				2.71



## BCD Analysis of Rates 2022

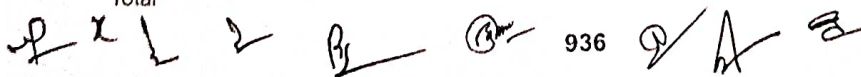
Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL				273.68 (X)
	Add GST 12% on "X" ( multiplying factor 0.1405)				38.45
	Total				312.13 (Y)
	Add 15 % Contractor's profit and overheads on "Y"				46.82
	Cost of 10 Nos				358.95
	Cost of each				35.90
	Add labour cess 1%				0.36
	Rate including labour cess				36.25
	Say				36.30
<b>14.37</b>	<b>Providing and fixing 300 mm long bright finished brass chain with hook for fan light including necessary brass screws etc. complete.</b>				
	Details of cost for 10 nos.				
	MATERIAL				
430	Brass chain with hook for fan light catch	each	10.00	36.00	360.00
452	Brass screws 25 mm	100 Nos	0.40	100.00	40.00
9977	Carriage of material	L.S.	0.91	2.12	1.93
	LABOUR				
111	Carpenter 1st class	day	0.10	413.00	41.30
	TOTAL				443.23
	Add 1 % Water charges				4.43
	TOTAL ;				447.66 (X)
	Add GST 12% on "X" ( multiplying factor 0.1405)				62.90
	Total				510.56 (Y)
	Add 15 % Contractor's profit and overheads on "Y"				76.58
	Cost of 10 Nos				587.14
	Cost of each				58.71
	Add labour cess 1%				0.59
	Rate including labour cess				59.30
	Say				59.30
<b>14.38</b>	<b>Providing and fixing bright finished brass quadrant stay 300 mm long with necessary brass screws etc. complete.</b>				
	Details of cost for 10 nos.				
	MATERIAL				
427	Brass quadrant stays 300 mm	each	10.00	110.00	1100.00
452	Brass screws 25 mm	100 Nos	0.40	100.00	40.00
9977	Carriage of material	L.S.	0.91	2.12	1.93
	LABOUR				
111	Carpenter 1st class	day	0.10	413.00	41.30
	TOTAL				1183.23
	Add 1 % Water charges				11.83
	TOTAL				1195.06 (X)
	Add GST 12% on "X" ( multiplying factor 0.1405)				167.91
	Total				1362.97 (Y)
	Add 15 % Contractor's profit and overheads on "Y"				204.45
	Cost of 10 quadrant stays				1567.41
	Cost of each				156.74
	Add labour cess 1%				1.57
	Rate including labour cess				158.31
	Say				158.30
<b>14.39</b>	<b>Providing and fixing bright finished brass helical door spring (superior quality).</b>				
	Details of cost for 10 nos.				
	MATERIAL				
442	Brass helical spring 150 mm	each	10.00	290.00	2900.00

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## BCD Analysis of Rates 2022

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
449	Brass screws 50 mm	100 Nos	0.40	220.00	88.00
452	Brass screws 25 mm	100 Nos	0.20	100.00	20.00
9977	Carriage of material	L.S.	3.84	2.12	8.14
	LABOUR				
111	Carpenter 1st class	day	0.40	413.00	165.20
114	Beldar	day	0.20	306.00	61.20
	TOTAL				3242.54
	Add 1 % Water charges				32.43
	TOTAL				3274.97 (X)
	Add GST 12% on "X" ( multiplying factor 0.1405)				460.13
	Total				3735.10 (Y)
	Add 15 % Contractor's profit and overheads on "Y"				560.26
	Cost of 10 Nos				4295.36
	Cost of each				429.54
	Add labour cess 1%				4.30
	Rate including labour cess				433.83
	Say				433.80
14.40	<b>Providing and fixing chromium plated brass butt hinges with necessary chromium plated brass screws etc. complete.</b>				
14.40.1	<b>125x70x4 mm (ordinary type)</b>				
	Details of cost for 10 nos.				
	MATERIAL				
525	Chromium plated Brass butt hinges (light/ordinary) type 125x70x4 mm	10 Nos	1.00	805.00	805.00
585	Chromium plated Brass screws 50 mm	100 Nos	1.00	300.00	300.00
9977	Carriage of material	L.S.	3.64	2.12	7.72
	LABOUR				
111	Carpenter 1st class	day	0.14	413.00	57.82
114	Beldar	day	0.10	306.00	30.60
	TOTAL				1201.14
	Add 1 % Water charges				12.01
	TOTAL				1213.15 (X)
	Add GST 12% on "X" ( multiplying factor 0.1405)				170.45
	Total				1383.60 (Y)
	Add 15 % Contractor's profit and overheads on "Y"				207.54
	Cost of 10 Nos				1591.13
	Cost of each				159.11
	Add labour cess 1%				1.59
	Rate including labour cess				160.70
	Say				160.70
14.40.2	<b>100x70x4 mm (ordinary type)</b>				
	Details of cost for 10 nos.				
	MATERIAL				
526	Chromium plated Brass butt hinges (light/ordinary) type 100x70x4 mm	10 Nos	1.00	690.00	690.00
586	Chromium plated Brass screws 40 mm	100 Nos	0.80	290.00	232.00
9977	Carriage of material	L.S.	3.64	2.12	7.72
	LABOUR				
111	Carpenter 1st class	day	0.14	413.00	57.82
114	Beldar	day	0.10	306.00	30.60
	TOTAL				1018.14
	Add 1 % Water charges				10.18
	TOTAL				1028.32 (X)
	Add GST 12% on "X" ( multiplying factor 0.1405)				144.48
	Total				1172.80 (Y)



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## BCD Analysis of Rates 2022

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add 15 % Contractor's profit and overheads on "Y"				175.92
	Cost of 10 Nos				1348.72
	Cost of each				134.87
	Add labour cess 1%				1.35
	Rate including labour cess				136.22
	Say				136.20
<b>14.40.3</b>	<b>75x65x4 mm (heavy type)</b>				
	Details of cost for 10 nos.				
	MATERIAL				
524	Chromium plated Brass butt hinges (heavy) type 75x65x4 .0 mm (200gms)	10 Nos	1.00	905.00	905.00
587	Chromium plated Brass screws 30 mm	100 Nos	0.60	240.00	144.00
9977	Carriage of material	L.S.	1.82	2.12	3.86
	LABOUR				
111	Carpenter 1st class	day	0.14	413.00	57.82
114	Beldar	day	0.10	306.00	30.60
	TOTAL				1141.28
	Add 1 % Water charges				11.41
	TOTAL				1152.69 (X)
	Add GST 12% on "X" ( multiplying factor 0.1405)				161.95
	Total				1314.64 (Y)
	Add 15 % Contractor's profit and overheads on "Y"				197.20
	Cost of 10 Nos				1511.84
	Cost of each				151.18
	Add labour cess 1%				1.51
	Rate including labour cess				152.70
	Say				152.70
<b>14.40.4</b>	<b>75x40x2.5 mm (ordinary type)</b>				
	Details of cost for 10 nos.				
	MATERIAL				
527	Chromium plated Brass butt hinges (light/ordinary) type 75x40x2.5 mm	10 Nos	1.00	421.00	421.00
587	Chromium plated Brass screws 30 mm	100 Nos	0.60	240.00	144.00
9977	Carriage of material	L.S.	1.82	2.12	3.86
	LABOUR				
111	Carpenter 1st class	day	0.14	413.00	57.82
114	Beldar	day	0.10	306.00	30.60
	TOTAL				657.28
	Add 1 % Water charges				6.57
	TOTAL				663.85 (X)
	Add GST 12% on "X" ( multiplying factor 0.1405)				93.27
	Total				757.12 (Y)
	Add 15 % Contractor's profit and overheads on "Y"				113.57
	Cost of 10 Nos				870.69
	Cost of each				87.07
	Add labour cess 1%				0.87
	Rate including labour cess				87.94
	Say				87.90
<b>14.40.5</b>	<b>50x40x2.5 mm (ordinary type)</b>				
	Details of cost for 10 nos.				
	MATERIAL				
528	Chromium plated Brass butt hinges (light/ordinary) type 50x40x2.5 mm	10 Nos	1.00	180.00	180.00
589	Chromium plated Brass screws 20 mm	100 Nos	0.40	160.00	64.00

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## BCD Analysis of Rates 2022

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9977	Carriage of material LABOUR	L.S.	0.91	2.12	1.93
111	Carpenter 1st class TOTAL	day	0.08	413.00	33.04 278.97
	Add 1 % Water charges TOTAL				2.79 281.76 (X)
	Add GST 12% on "X" ( multiplying factor 0.1405) Total				39.59 321.35 (Y)
	Add 15 % Contractor's profit and overheads on "Y" Cost of 10 Nos				48.20 369.55
	Cost of each Add labour cess 1%				36.95 0.37
	Rate including labour cess Say				37.32 37.30
<b>14.41</b>	<b>Providing and fixing 85x42 mm chromium plated brass pull bolt lock with necessary chromium plated brass screws, nuts, bolts and washers etc. complete.</b>				
	Details of cost for 10 Nos MATERIAL				
2467	Chromium plated Brass pull bolt lock (locking bolt) of size 85 mmx42 mm with screws,bolts,nuts and washers complete	each	10.00	172.00	1720.00
9988	Carriage of materials & sundries LABOUR	L.S.	6.37	2.12	13.50
112	Carpenter 2nd class TOTAL	day	0.25	369.00	92.25 1825.75
	Add 1 % Water charges TOTAL				18.26 1844.01 (X)
	Add GST 12% on "X" ( multiplying factor 0.1405) Total				259.08 2103.10 (Y)
	Add 15 % Contractor's profit and overheads on "Y" Cost of 10 Nos				315.46 2418.56
	Cost of each Add labour cess 1%				241.86 2.42
	Rate including labour cess Say				244.27 244.30
<b>14.47</b>	<b>Painting on G.S. sheet with synthetic enamel paint of approved brand and manufacture of required colour to give an even shade :</b>				
<b>14.47.1</b>	<b>Old work (one or more coats)</b>				
	Details of cost for 10 sqm. MATERIAL				
845	Roofing paint for iron sheets in red colour	litre	0.46	120.00	55.20
9977	Carriage LABOUR	L.S.	0.52	2.12	1.10
131	Painter	day	0.36	391.00	140.76
115	Coolie	day	0.36	318.00	114.48
9999	Putty, brushes sand paper etc.	L.S.	6.76	2.12	14.33
9999	Sundries TOTAL	L.S.	8.06	2.12	17.09 342.96
	Add 1 % Water charges TOTAL				3.43 346.39 (X)
	Add GST 12% on "X" ( multiplying factor 0.1405) Total				48.67 395.06 (Y)
	Add 15 % Contractor's profit and overheads on "Y" Cost of 10.00 sqm				59.26 454.32


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## BCD Analysis of Rates 2022

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Cost of 1.00 sqm				45.43
	Add labour cess 1%				0.45
	Rate including labour cess				45.89
	Say				45.90
<b>14.50</b>	<b>Painting (two or more coats) on rain water, soil, waste and vent pipes and fittings with aluminium paint of approved brand and manufacture over a priming coat of ready mixed zinc chromate yellow primer on new work :</b>				
<b>14.50.1</b>	<b>75 mm diameter pipes</b>				
	Detail of cost for 30 metres				
	Area=22/7 x0.0814m x30m =7.67 sqm				
	MATERIAL				
4202	Red oxide Zinc chromate primer	litre	0.41	120.00	49.20
9977	Carriage	L.S.	0.39	2.12	0.83
	LABOUR				
131	Painter	day	0.18	391.00	70.38
115	Coolie	day	0.18	318.00	57.24
9999	Sundries	L.S.	8.19	2.12	17.36
	MATERIAL				
826	Aluminium paint	litre	0.61	150.00	91.50
9977	Carriage	L.S.	1.04	2.12	2.20
9999	Putty, sand paper etc	L.S.	4.16	2.12	8.82
	LABOUR				
131	Painter	day	0.41	391.00	160.31
115	Coolie	day	0.41	318.00	130.38
9999	Sundries	L.S.	5.20	2.12	11.02
9999	Wire brushes for cleaning	L.S.	9.10	2.12	19.29
9999	Extra for delays	L.S.	44.85	2.12	95.08
	TOTAL				713.62
	Add 1 % Water charges				7.14
	TOTAL				720.76 (X)
	Add GST 12% on "X" ( multiplying factor 0.1405)				101.27
	Total				822.02 (Y)
	Add 15 % Contractor's profit and overheads on "Y"				123.30
	Cost of 30.00 metres				945.33
	Cost of 1.00 metre				31.51
	Add labour cess 1%				0.32
	Rate including labour cess				31.83
	Say				31.80
<b>14.50.2</b>	<b>100 mm diameter pipes</b>				
	Detail of cost for 30 metres				
	Area=22/7 x106.4x30m =10.032sqm				
	MATERIAL				
4202	Red oxide Zinc chromate primer	litre	0.54	120.00	64.80
9977	Carriage	L.S.	0.52	2.12	1.10
	LABOUR				
131	Painter	day	0.24	391.00	93.84
	0.18 x 10.032 / 7.67 = 0.24				
115	Coolie	day	0.24	318.00	76.32
9999	Sundries	L.S.	10.79	2.12	22.87
	MATERIAL				
826	Aluminium paint -	litre	1.16	150.00	174.00
	0.61 x 10.032 / 7.67 = 0.80				
9977	Carriage	L.S.	1.43	2.12	3.03
9999	Putty, sand paper etc	L.S.	5.33	2.12	11.30
	LABOUR				

## BCD Analysis of Rates 2022

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
131	Painter $0.41 \times 10.032 / 7.67 = 0.54$	day	0.54	391.00	211.14
115	Coolie	day	0.54	318.00	171.72
9999	Sundries	L.S.	6.76	2.12	14.33
9999	Wire brushes for cleaning	L.S.	11.96	2.12	25.36
9999	Extra for delays	L.S.	66.43	2.12	140.83
	TOTAL				1010.65
	Add 1 % Water charges				10.11
	TOTAL				1020.75 (X)
	Add GST 12% on "X" ( multiplying factor 0.1405)				143.42
	Total				1164.17 (Y)
	Add 15 % Contractor's profit and overheads on "Y"				174.63
	Cost of 30.00 metres				1338.79
	Cost of 1.00 metre				44.63
	Add labour cess 1%				0.45
	Rate including labour cess				45.07
	Say				45.10
<b>14.50.3 150 mm diameter pipes</b>					
Detail of cost for 30 metres					
Area= $22/7 \times 157.12 \times 30m = 14.82$ sqm					
MATERIAL					
4202	Red oxide Zinc chromate primer	litre	0.80	120.00	96.00
9977	Carriage	L.S.	0.65	2.12	1.38
LABOUR					
131	Painter $0.18 \times 14.82 / 7.67 = 0.36$	Day	0.36	391.00	140.76
115	Coolie	Day	0.36	318.00	114.48
9999	Sundries	L.S.	15.99	2.12	33.90
MATERIAL					
826	Aluminium paint $0.61 \times 14.82 / 7.67 = 1.72$	litre	1.72	150.00	258.00
9977	Carriage	L.S.	2.08	2.12	4.41
9999	Putty, sand paper etc	L.S.	7.93	2.12	16.81
LABOUR					
131	Painter $0.41 \times 14.82 / 7.67 = 0.80$	day	0.80	391.00	312.80
115	Coolie	day	0.80	318.00	254.40
9999	Sundries	L.S.	10.01	2.12	21.22
9999	Wire brushes for cleaning	L.S.	17.81	2.12	37.76
9999	Extra for delays	L.S.	101.40	2.12	214.97
	TOTAL				1506.88
	Add 1 % Water charges				15.07
	TOTAL				1521.95 (X)
	Add GST 12% on "X" ( multiplying factor 0.1405)				213.83
	Total				1735.79 (Y)
	Add 15 % Contractor's profit and overheads on "Y"				260.37
	Cost of 30.00 metres				1996.16
	Cost of 1.00 metre				66.54
	Add labour cess 1%				0.67
	Rate including labour cess				67.20
	Say				67.20
<b>14.51 Painting (one or more coats) on rain water, soil, waste and vent pipes and fittings with synthetic enamel paint of approved brand and manufacture and required colour on old work :</b>					
<b>14.51.1 75 mm diameter pipes</b>					
Details of cost for 30 metres					
Area = $22/7 \times 0.0814 \text{ mm} \times 30 \text{ m} = 7.67$ sqm					
MATERIAL					
826	Aluminium paint	litre	0.35	150.00	52.50

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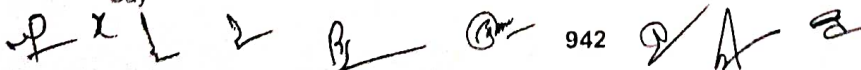
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## BCD Analysis of Rates 2022

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	Putty, sand paper etc.	L.S.	0.39	2.12	0.83
9977	Carriage	L.S.	2.08	2.12	4.41
	LABOUR				
131	Painter	day	0.28	391.00	109.48
115	Coolie	day	0.28	318.00	89.04
9999	Putty, sand paper brushes etc.	L.S.	4.16	2.12	8.82
9999	Sundries	L.S.	6.24	2.12	13.23
9999	Wire brushes for cleaning	L.S.	4.42	2.12	9.37
9999	Extra for delay	L.S.	26.91	2.12	57.05
	TOTAL				344.72
	Add 1 % Water charges				3.45
	TOTAL				348.17 (X)
	Add GST 12% on "X" ( multiplying factor 0.1405)				48.92
	Total				397.09 (Y)
	Add 15 % Contractor's profit and overheads on "Y"				59.56
	Cost of 30.00 metres				456.65
	Cost of 1.00 metre				15.22
	Add labour cess 1%				0.15
	Rate including labour cess				15.37
	Say				15.40
<b>14.51.2</b>	<b>100 mm diameter pipes</b>				
	Details of cost for 30 metres				
	Area = 22/7x106.4 mmx30 m = 10.032 sqm				
	MATERIAL				
826	Aluminium paint	litre	0.46	150.00	69.00
9999	Putty, sand paper etc.	L.S.	0.52	2.12	1.10
9977	Carriage	L.S.	2.73	2.12	5.79
	LABOUR				
131	Painter	day	0.36	391.00	140.76
115	Coolie	day	0.36	318.00	114.48
9999	Putty, sand paper brushes etc.	L.S.	5.33	2.12	11.30
9999	Sundries	L.S.	8.06	2.12	17.09
9999	Wire brushes for cleaning	L.S.	5.33	2.12	11.30
9999	Extra for delay	L.S.	34.06	2.12	72.21
	TOTAL				443.02
	Add 1 % Water charges				4.43
	TOTAL				447.45 (X)
	Add GST 12% on "X" ( multiplying factor 0.1405)				62.87
	Total				510.32 (Y)
	Add 15 % Contractor's profit and overheads on "Y"				76.55
	Cost of 30.00 metres				586.87
	Cost of 1.00 metre				19.56
	Add labour cess 1%				0.20
	Rate including labour cess				19.76
	Say				19.80
<b>14.51.3</b>	<b>150 mm diameter pipes</b>				
	Details of cost for 30 metres Area =				
	22/7x157.2 mmx30 m = 14.82 sqm				
	MATERIAL				
826	Aluminium paint	litre	0.68	150.00	102.00
9999	Putty, sand paper etc.-	L.S.	0.65	2.12	1.38
9977	Carriage	L.S.	3.90	2.12	8.27
	LABOUR				
131	Painter	day	0.53	391.00	207.23
115	Coolie	day	0.53	318.00	168.54

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Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	Putty, sand paper brushes etc.	L.S.	7.93	2.12	16.81
9999	Sundries	L.S.	11.96	2.12	25.36
9999	Wire brushes for cleaning	L.S.	7.15	2.12	15.16
9999	Extra for delay	L.S.	40.30	2.12	85.44
	TOTAL				630.18
	Add 1 % Water charges				6.30
	TOTAL				636.48 (X)
	Add GST 12% on "X" ( multiplying factor 0.1405)				89.43
	Total				725.90 (Y)
	Add 15 % Contractor's profit and overheads on "Y"				108.89
	Cost of 30.00 metres				834.79
	Cost of 1.00 metre				27.83
	Add labour cess 1%				0.28
	Rate including labour cess				28.10
	Say				28.10
<b>14.61</b>	<b>Painting (one or more coats) with black Japan paint of approved brand and manufacture to give an even shade.</b>				
	Detail of cost for 10 sqm				
	MATERIAL				
829	Black Japan paint	litre	0.70	90.00	63.00
9977	Carriage	L.S.	0.52	2.12	1.10
9999	Putty etc.	L.S.	2.73	2.12	5.79
	LABOUR				
131	Painter	day	0.36	391.00	140.76
115	Coolie	day	0.36	318.00	114.48
9999	Brushes, sand paper etc.	L.S.	5.33	2.12	11.30
9999	Sundries	L.S.	8.06	2.12	17.09
	TOTAL				353.52
	Add 1 % Water charges				3.54
	TOTAL				357.05 (X)
	Add GST 12% on "X" ( multiplying factor 0.1405)				50.17
	Total				407.22 (Y)
	Add 15 % Contractor's profit and overheads on "Y"				61.08
	Cost of 10.00 sqm				468.30
	Cost of 1.00 sqm				46.83
	Add labour cess 1%				0.47
	Rate including labour cess				47.30
	Say				47.30
<b>14.62</b>	<b>Providing and fixing C.P. brass chain and rubber plug complete for sink or wash basin:</b>				
<b>14.62.1</b>	<b>32 mm dia</b>				
	Detail of cost for 1 no.				
	MATERIAL				
1314	C.P.brass chain with 32 mm dia rubber plug	each	1.00	40.00	40.00
9988	Carriage of materials and fixing charges	L.S.	8.06	2.12	17.09
	TOTAL				53.94
	Add 1 % Water charges				0.54
	TOTAL				57.09 (X)
	Add GST 12% on "X" ( multiplying factor 0.1405)				8.02
	Total				65.11 (Y)
	Add 15 % Contractor's profit and overheads on "Y"				9.77
	Cost of each				62.65
	Add labour cess 1%				0.63
	Rate including labour cess				63.28
	Say				63.30



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Code	Description	Unit	Quantity	Rate ₹	Amount ₹
14.62.2	40 mm dia Detail of cost for 1 no.				
	MATERIAL				
1315	C.P.brass chain with 40 mm dia rubber plug	each	1.00	40.00	40.00
9988	Carriage of materials and fixing charges	L.S.	8.06	2.12	17.09
	TOTAL				57.09
	Add 1 % Water charges				0.57
	TOTAL				57.09 (X)
	Add GST 12% on "X" ( multiplying factor 0.1405)				8.02
	Total				65.11 (Y)
	Add 15 % Contractor's profit and overheads on "Y"				9.77
	Cost of each				62.65
	Add labour cess 1%				0.63
	Rate including labour cess				63.28
	Say				63.30
14.63	<b>Distemping with 1st quality acrylic washable distemper (ready made) of approved manufacturer and of required shade and colour complete. as per manufacturer's specification.</b>				
14.63.1	<b>One or more coats on old work</b>				
	Detail of cost for 10 sqm				
	MATERIAL				
816	Oil bound washable distemper/ Acrylic distemper	kilogram	1.00	50.00	50.00
9999	Brushes, putty etc	L.S.	0.52	2.12	1.10
9988	Sundries including carriage of material	L.S.	10.76	2.12	22.81
	LABOUR				
131	Painter	day	0.22	391.00	86.02
114	Beldar	day	0.22	306.00	67.32
9999	Sundries	L.S.	7.15	2.12	15.16
	TOTAL				242.41
	Add 1 % Water charges				2.42
	TOTAL				244.84 (X)
	Add GST 12% on "X" ( multiplying factor 0.1405)				34.40
	Total				279.24 (Y)
	Add 15 % Contractor's profit and overheads on "Y"				41.89
	Cost of 10.00 sqm				321.12
	Cost of 1.00 sqm				32.11
	Add labour cess 1%				0.32
	Rate including labour cess				32.43
	Say				32.40
14.64	<b>Finishing walls with water proofing cement paint of required shade :</b>				
14.64.1	<b>Old work (one or more coats applied @ 2.20 kg/10 sqm) over priming coat of primer applied @ 0.80 litres/10 sqm complete including cost of Priming coat.</b>				
	Detail of cost for 10 sqm				
	MATERIAL				
851	Water proofing cement paint	kilogram	2.20	38.00	83.60
8508	Primer for cement paint	litre	0.80	90.00	72.00
9977	Carriage of material	L.S.	1.56	2.12	3.31
	LABOUR				
131	Painter	day	0.46	391.00	179.86
115	Coolie	day	0.23	318.00	73.14
101	Bhisti	day	0.05	332.00	16.60
9999	Brushes, sand paper etc	L.S.	7.15	2.12	15.16
9999	Sundries	L.S.	8.06	2.12	17.09
	TOTAL				460.75

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Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add 1 % Water charges				4.61
	TOTAL				465.36 (X)
	Add GST 12% on "X" ( multiplying factor 0.1405)				65.38
	Total				530.74 (Y)
	Add 15 % Contractor's profit and overheads on "Y"				79.61
	Cost of 10.00 sqm				610.35
	Cost of 1.00 sqm				61.04
	Add labour cess 1%				0.61
	Rate including labour cess				61.65
	Say				61.60
<b>14.65</b>	<b>Finishing walls with textured exterior paint of required shade :</b>				
<b>14.65.1</b>	<b>Old work (Two or more coats on existing cement paint surface applied @ 3.28 ltr/10 sqm.</b>				
	Detail of cost for 10 sqm MATERIAL				
<b>8507</b>	Textured exterior paint	litre	3.28	280.00	918.40
<b>9977</b>	Carriage of material	L.S.	1.56	2.12	3.31
	LABOUR				0.00
<b>131</b>	Painter	day	0.46	391.00	179.86
<b>115</b>	Coolie	day	0.23	318.00	73.14
<b>9999</b>	Brushes, sand paper etc	L.S.	7.15	2.12	15.16
<b>9999</b>	Sundries	L.S.	8.06	2.12	17.09
	TOTAL				1206.95
	Add 1 % Water charges				12.07
	TOTAL				1219.02 (X)
	Add GST 12% on "X" ( multiplying factor 0.1405)				171.27
	Total				1390.29 (Y)
	Add 15 % Contractor's profit and overheads on "Y"				208.54
	Cost of 10.00 sqm				1598.84
	Cost of 1.00 sqm				159.88
	Add labour cess 1%				1.60
	Rate including labour cess				161.48
	Say				161.50
<b>14.65.2</b>	<b>Old work (One or more coats) applied @ 1.82 ltr/10 sqm.</b>				
	Detail of cost for 10 sqm				
	MATERIAL				
<b>8507</b>	Textured exterior paint	litre	1.82	280.00	509.60
<b>9977</b>	Carriage of material	L.S.	0.52	2.12	1.10
	LABOUR				0.00
<b>131</b>	Painter	day	0.33	391.00	129.03
<b>115</b>	Coolie	day	0.17	318.00	54.06
<b>9999</b>	Brushes, sand paper etc	L.S.	7.15	2.12	15.16
<b>9999</b>	Sundries	L.S.	8.06	2.12	17.09
	TOTAL				726.04
	Add 1 % Water charges				7.26
	TOTAL				733.30 (X)
	Add GST 12% on "X" ( multiplying factor 0.1405)				103.03
	Total				836.33 (Y)
	Add 15 % Contractor's profit and overheads on "Y"				125.45
	Cost of 10.00 sqm				961.78
	Cost of 1.00 sqm				96.18
	Add labour cess 1%				0.96
	Rate including labour cess				97.14
	Say				97.10



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Code	Description	Unit	Quantity	Rate ₹	Amount ₹
14.66	<b>Finishing walls with Acrylic Smooth exterior paint of required shade :</b>				
14.66.1	<b>Old work (Two or more coat applied @ 1.67 ltr/ 10 sqm) on existing cement paint</b>				
	Detail of cost for 10 sqm				
	MATERIAL				
8505	Acrylic exterior paint	litre	1.67	200.00	334.00
9977	Carriage of material	L.S.	0.91	2.12	1.93
	LABOUR				
131	Painter	day	0.46	391.00	179.86
115	Coolie	day	0.23	318.00	73.14
9999	Brushes, sand paper etc	L.S.	4.81	2.12	10.20
9999	Sundries	L.S.	5.33	2.12	11.30
	TOTAL				
	Add 1 % Water charges				
	TOTAL				
	Add GST 12% on "X" ( multiplying factor 0.1405)				
	Total				
	Add 15 % Contractor's profit and overheads on "Y"				
	Cost of 10.00 sqm				
	Cost of 1.00 sqm				
	Add labour cess 1%				
	Rate including labour cess				
	Say				
14.66.2	<b>Old work (One or more coat applied @ 0.90 ltr/10 sqm).</b>				
	Detail of cost for 10 sqm				
	MATERIAL				
8505	Acrylic exterior paint	litre	0.90	200.00	180.00
9977	Carriage of material	L.S.	0.52	2.12	1.10
	LABOUR				
131	Painter	day	0.33	391.00	129.03
115	Coolie	day	0.17	318.00	54.06
9999	Brushes, sand paper etc	L.S.	7.15	2.12	15.16
9999	Sundries	L.S.	8.06	2.12	17.09
	TOTAL				
	Add 1 % Water charges				
	TOTAL				
	Add GST 12% on "X" ( multiplying factor 0.1405)				
	Total				
	Add 15 % Contractor's profit and overheads on "Y"				
	Cost of 10.00 sqm				
	Cost of 1.00 sqm				
	Add labour cess 1%				
	Rate including labour cess				
	Say				
14.67	<b>Finishing walls with Premium Acrylic Smooth exterior paint with Silicone additives of required shade</b>				
14.67.1	<b>Old work (Two or more coats applied @ 1.43 ltr/ 10 sqm) over existing cement paint surface</b>				
	Detail of cost for 10 sqm				
	MATERIAL				
8506	Premium Acrylic exterior paint	litre	1.43	210.00	300.30
9977	Carriage of material	L.S.	1.04	2.12	2.20
	LABOUR				
131	Painter	day	0.46	391.00	179.86
115	Coolie	day	0.23	318.00	73.14
9999	Brushes, sand paper etc	L.S.	7.15	2.12	15.16
9999	Sundries	L.S.	8.06	2.12	17.09



## BCD Analysis of Rates 2022

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL				587.75
	Add 1 % Water charges				5.88
	TOTAL				593.63 (X)
	Add GST 12% on "X" ( multiplying factor 0.1405)				83.40
	Total				677.03 (Y)
	Add 15 % Contractor's profit and overheads on "Y"				101.55
	Cost of 10.00 sqm				778.59
	Cost of 1.00 sqm				77.86
	Add labour cess 1%				0.78
	Rate including labour cess				78.64
	Say				78.60
<b>14.67.2</b>	<b>Old work (one or more coats applied @ 0.83 ltr/10 sqm).</b>				
	Detail of cost for 10 sqm				
	MATERIAL				
<b>8506</b>	Premium Acrylic exterior paint	litre	0.83	210.00	174.30
<b>9977</b>	Carriage of material	L.S.	0.91	2.12	1.93
	LABOUR				0.00
<b>131</b>	Painter	day	0.33	391.00	129.03
<b>115</b>	Coolie	day	0.17	318.00	54.06
<b>9999</b>	Brushes, sand paper etc	L.S.	7.15	2.12	15.16
<b>9999</b>	Sundries	L.S.	8.06	2.12	17.09
	TOTAL				391.56
	Add 1 % Water charges				3.92
	TOTAL				395.48 (X)
	Add GST 12% on "X" ( multiplying factor 0.1405)				55.56
	Total				451.04 (Y)
	Add 15 % Contractor's profit and overheads on "Y"				67.66
	Cost of 10.00 sqm				518.70
	Cost of 1.00 sqm				51.87
	Add labour cess 1%				0.52
	Rate including labour cess				52.39
	Say				52.40
<b>14.69</b>	<b>Varnishing with varnish of approved brand and manufacture:</b>				
<b>14.69.1</b>	<b>One or more coats with copal varnish</b>				
	Detail of cost for 10 sqm				
	MATERIAL				
<b>857</b>	Superior copal varnish	litre	0.70	115.00	80.50
<b>9977</b>	Carriage	L.S.	0.52	2.12	1.10
<b>9999</b>	Repair to the surface	L.S.	2.73	2.12	5.79
	LABOUR				0.00
<b>131</b>	Painter	day	0.36	391.00	140.76
<b>115</b>	Coolie	day	0.36	318.00	114.48
<b>9999</b>	Brushes, sand paper etc	L.S.	5.33	2.12	11.30
<b>9999</b>	Sundries	L.S.	2.73	2.12	5.79
	TOTAL				359.72
	Add 1 % Water charges				3.60
	TOTAL				363.31 (X)
	Add GST 12% on "X" ( multiplying factor 0.1405)				51.05
	Total				414.36 (Y)
	Add 15 % Contractor's profit and overheads on "Y"				62.15
	Cost of 10.00 sqm				476.51
	Cost of 1.00 sqm				47.65
	Add labour cess 1%				0.48
	Rate including labour cess				48.13
	Say				48.10


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## BCD Analysis of Rates 2022

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
<b>14.69.2</b>	<b>One or more coats with spar varnish</b>				
	Detail of cost for 10 sqm				
	MATERIAL				
858	Superior spar varnish	litre	0.75	115.00	86.25
9977	Carriage	L.S.	0.52	2.12	1.10
9999	Repair etc	L.S.	2.73	2.12	5.79
	LABOUR				0.00
131	Painter	day	0.36	391.00	140.76
115	Coolie	day	0.36	318.00	114.48
9999	Brushes, sand paper etc	L.S.	2.73	2.12	5.79
9999	Sundries	L.S.	4.16	2.12	8.82
	TOTAL				362.99
	Add 1 % Water charges				3.63
	TOTAL				366.62 (X)
	Add GST 12% on "X" ( multiplying factor 0.1405)				51.51
	Total				418.13 (Y)
	Add 15 % Contractor's profit and overheads on "Y"				62.72
	Cost of 10.00 sqm				480.85
	Cost of 1.00 sqm				48.08
	Add labour cess 1%				0.48
	Rate including labour cess				48.57
	Say				48.60
<b>14.70</b>	<b>Melamine polishing on wood work (one or more coat).</b>				
	Detail of cost for 10 sqm				
	MATERIAL				
7241	Melamine polish	litre	0.65	300.00	195.00
6	Hire charges of Spraying machine including electric charges	day	0.78	250.00	195.00
9988	Carriage charge of Machine & Material	L.S.	4.42	2.12	9.37
	LABOUR				0.00
131	Painter	day	0.35	391.00	136.85
114	Beldar	day	0.35	306.00	107.10
9999	Sundries	L.S.	4.42	2.12	9.37
	TOTAL				652.69
	Add 1 % Water charges				6.53
	TOTAL				659.22 (X)
	Add GST 12% on "X" ( multiplying factor 0.1405)				92.62
	Total				751.84 (Y)
	Add 15 % Contractor's profit and overheads on "Y"				112.78
	Cost of 10.00 sqm				864.61
	Cost of 1.00 sqm				86.46
	Add labour cess 1%				0.86
	Rate including labour cess				87.33
	Say				87.30
<b>14.71</b>	<b>Varnishing with flatting varnish of approved brand and manufacture one or more coats on old work.</b>				
	Detail of cost for 10 sqm				
	MATERIAL				
856	Ordinary varnish	litre	0.70	100.00	70.00
9999	Glue, putty etc	L.S.	2.73	2.12	5.79
9977	Carriage	L.S.	1.82	2.12	3.86
9999	Painting brushes, turpentine, stencil etc	L.S.	24.18	2.12	51.26
	LABOUR				0.00
131	Painter	day	0.36	391.00	140.76
115	Coolie	day	0.36	318.00	114.48

## BCD Analysis of Rates 2022

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL				386.15
	Add 1 % Water charges				3.86
	TOTAL				390.01 (X)
	Add GST 12% on "X" ( multiplying factor 0.1405)				54.80
	Total				444.81 (Y)
	Add 15 % Contractor's profit and overheads on "Y"				66.72
	Cost of 10.00 sqm				511.53
	Cost of 1.00 sqm				51.15
	Add labour cess 1%				0.51
	Rate including labour cess				51.66
	Say				51.70
14.72	<p><b>Providing and fixing double scaffolding system (cup lock type) on the exterior side, up to seven story height made with 40 mm dia M.S. tube 1.5 m centre to centre, horizontal &amp; vertical tubes joining with cup &amp; lock system with M.S. tubes, M.S. tube challies, M.S. clamps and M.S. staircase system in the scaffolding for working platform etc. and maintaining it in a serviceable condition for the required duration as approved and removing it there after .The scaffolding system shall be stiffened with bracings, runners, connection with the building etc wherever required for inspection of work at required locations with essential safety features for the workmen etc. complete as per directions and approval of Engineer-in-charge .The elevational area of the scaffolding shall be measured for payment purpose .The payment will be made once irrespective of duration of scaffolding. Note: - This item to be used for maintenance work judicially, necessary deduction for scaffolding in the existing item to be done.</b></p> <p>Details of cost for area 22.5m x 9.0m =202.5 sqm</p>				
14.72X	Rate as per Item No.14.72X of SH:Repairs to Buildings	each	1.00	7911.84	7911.84
2205	Carriage of Steel	tonne	6.05	145.72	882.19
	40mm dia MS pipe = 3765.42 kg				
	25mm spigot = 123.98 kg				
	Nuts & bolts = 37.80 kg				
	Clamp = 120 nos @ 1.00kg each = 120.00 kg				
	Challies = 90 nos @ 15.00kg each = 1350.00 kg				
	Cup locks = 1314 nos @ 0.50kg each = 657.00 kg				
	Total = 6054.20 kg = 6.054 tonne				
	LABOUR				
116	Fitter (grade 1)	day	15.50	420.00	6510.00
114	Beldar	day	31.00	306.00	9486.00
9999	Sundries	L.S.	1035.00	2.12	2194.20
	TOTAL				26984.23
	Add 1 % Water charges				269.84
	TOTAL				27254.07 (X)
	Add GST 12% on "X" ( multiplying factor 0.1405)				3829.20
	Total				31083.27 (Y)
	Add 15 % Contractor's profit and overheads on "Y"				4662.49
	Cost of 202.50 sqm.				35745.76
	Cost of 1 sqm.				176.52
	Add labour cess 1%				1.77
	Rate including labour cess				178.29
	Say				178.30


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## BCD Analysis of Rates 2022

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL				386.15
	Add 1 % Water charges				3.86
	TOTAL				390.01 (X)
	Add GST 12% on "X" ( multiplying factor 0.1405)				54.80
	Total				444.81 (Y)
	Add 15 % Contractor's profit and overheads on "Y"				66.72
	Cost of 10.00 sqm				511.53
	Cost of 1.00 sqm				51.15
	Add labour cess 1%				0.51
	Rate including labour cess				51.66
	Say				51.70
<b>14.72</b>	<b>Providing and fixing double scaffolding system (cup lock type) on the exterior side, up to seven story height made with 40 mm dia M.S. tube 1.5 m centre to centre, horizontal &amp; vertical tubes joining with cup &amp; lock system with M.S. tubes, M.S. tube challies, M.S. clamps and M.S. staircase system in the scaffolding for working platform etc. and maintaining it in a serviceable condition for the required duration as approved and removing it there after .The scaffolding system shall be stiffened with bracings, runners, connection with the building etc wherever required for inspection of work at required locations with essential safety features for the workmen etc. complete as per directions and approval of Engineer-in-charge .The elevational area of the scaffolding shall be measured for payment purpose .The payment will be made once irrespective of duration of scaffolding. Note: - This item to be used for maintenance work judicially, necessary deduction for scaffolding in the existing item to be done.</b>				
	Details of cost for area 22.5m x 9.0m =202.5 sqm				
<b>14.72X</b>	Rate as per Item No.14.72X of SH:Repairs to Buildings	each	1.00	7911.84	7911.84
<b>2205</b>	Carriage of Steel 40mm dia MS pipe = 3765.42 kg 25mm spigot = 123.98 kg Nuts & bolts = 37.80 kg Clamp = 120 nos @ 1.00kg each = 120.00 kg Challies = 90 nos @ 15.00kg each = 1350.00 kg Cup locks = 1314 nos @ 0.50kg each = 657.00 kg Total = 6054.20 kg = 6.054 tonne	tonne	6.05	145.72	882.19
	<b>LABOUR</b>				
<b>116</b>	Fitter (grade 1)	day	15.50	420.00	6510.00
<b>114</b>	Beldar	day	31.00	306.00	9486.00
<b>9999</b>	Sundries	L.S.	1035.00	2.12	2194.20
	TOTAL				26984.23
	Add 1 % Water charges				269.84
	TOTAL				27254.07 (X)
	Add GST 12% on "X" ( multiplying factor 0.1405)				3829.20
	Total				31083.27 (Y)
	Add 15 % Contractor's profit and overheads on "Y"				4662.49
	Cost of 202.50 sqm.				35745.76
	Cost of 1 sqm.				176.52
	Add labour cess 1%				1.77
	Rate including labour cess				178.29
	Say				178.30

**14.72X Scaffolding**

Details of cost for area 22.5 x 9.0= 202.50 sqm

**MATERIAL**

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## BCD Analysis of Rates 2022

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Assuming shuttering material will become unserviceable after use of 40 times				
7397	Base jack 7x2=14 nos	each	14.00	145.00	2030.00
4009	Mild steel tubes hot finished welded type 40mm dia M.S. Tube Vertical standard 2.5m length = 7x2x9x2.5 = 315.00 m Bracing ladder 1.5m length = 7x2x9x4.0873 = 513.00 m Side support 6.00m length = 3x2x6.00 = 36.00 m Horizontal support 3.00m length = 18x3x3.00 = 162.00 m Total = 1026.00m @ 3.67 kg/m = 3765.42 kg	kilogram	3765.42	60.00	225925.20
7387	Spigot for standard jointing 7x2x9 = 126 nos x 0.40m length = 50.40m 50.40m @ 2.46kg/m = 123.98kg	kg	123.98	40.00	4959.20
1034	Bolts and nuts upto 300 mm in length 2x7x2x9 = 252 nos @ 0.15 kg each = 37.80 kg = 0.378 q	quintal	0.38	5200.00	1965.60
7346	Double coupler 2x3x2 + 2x18x3 = 120 nos	each	120.00	46.00	5520.00
7398	Challies 3 nos x 18 lines = 54 nos Two level plate challies = 2x 18 lines = 36 nos, Total = 90 nos	each	90.00	765.00	68850.00
7399	Cup lock Vertical standards 5x7x2x9 = 630.00 Nos. 2x18x19 = 684 Nos. Total = 1314 Nos.	each	1314.00	48.00	63072.00
	TOTAL				372322.00 (P)
	Add 10% for maintenance on P				37232.20 (Q)
	Less 25% salvage value on P				-93080.50 R
	TOTAL (P+Q+R)				316473.70
	Considering that scaffolding shall be unserviceable after using 40 times, cost of using once				7911.84
	Say				<b>7911.80</b>
14.73	<b>Providing and fixing bright finished brass casement window fasteners or peg stays to windows/ventilators with necessary welding and machine screws etc. complete.</b>				
	Details of cost for 10 nos (10 x 0.20 = 2.00 kg)				
	MATERIAL				
423	Brass casement window fastener	each	10.00	45.00	450.00
9999	Fixing charges including welding and materials etc.	L.S.	125.58	2.12	266.23
9977	Carriage of materials	L.S.	3.64	2.12	7.72
	TOTAL				723.95
	Add 1 % Water charges				7.24
	TOTAL				731.19 (X)
	Add GST 12% on "X" ( multiplying factor 0.1405)				102.73
	Total				833.92 (Y)
	Add 15 % Contractor's profit and overheads on "Y"				125.09
	Cost of 2.00kg window fasteners				959.01
	Cost of 1 kg window fastener				479.50
	Add labour cess 1%				4.80



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## BCD Analysis of Rates 2022

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Rate including labour cess				484.30
	Say				484.30
<b>14.74</b>	<b>Providing and fixing 14 mm bright finished brass spring catch to steel centro hung ventilators with necessary welding and machine screws etc. complete.</b>				
	Details of cost for 10 nos				
	MATERIAL				
<b>428</b>	Brass fanlight catch	10 Nos	1.00	170.00	170.00
<b>9999</b>	Fixing charges including welding and materials etc.	L.S.	125.58	2.12	266.23
<b>9977</b>	Carriage of materials	L.S.	3.64	2.12	7.72
	TOTAL				443.95
	Add 1 % Water charges				4.44
	TOTAL				448.39 (X)
	Add GST 12% on "X" ( multiplying factor 0.1405)				63.00
	Total				511.38 (Y)
	Add 15 % Contractor's profit and overheads on "Y"				76.71
	Cost of 10 window fasteners				588.09
	Cost of each				58.81
	Add labour cess 1%				0.59
	Rate including labour cess				59.40
	Say				59.40
<b>14.75</b>	<b>Repair to plaster of thickness 12mm to 20 mm in patches of area 2.5 sqm and under, including cutting the patch in proper shape, raking out joints and preparing plastering the wall surface with white cement based polymer modified self curing mortar, including disposal of rubbish, all complete as per the direction of Engineer-In-Charge.</b>				
	Details of cost for 10 sqm				
	MATERIAL				
<b>772</b>	White cement based polymer modified self curing compound in powder form i/c 2% wastage	kg	125.00	15.00	1875.00
<b>9977</b>	Carriage of white cement based polymer modified self curing compound in powder form	L.S.	21.10	2.12	44.73
	LABOUR				
<b>155</b>	Mason (average)	day	1.21	369.00	446.49
<b>114</b>	Beldar	day	0.54	306.00	165.24
<b>115</b>	Coolie	day	1.29	318.00	410.22
<b>9999</b>	Scaffolding and sunderies	L.S.	15.21	2.12	32.25
	TOTAL				2973.93
	Add 1 % Water charges				29.74
	TOTAL				3003.67 (X)
	Add GST 12% on "X" ( multiplying factor 0.1405)				422.02
	Total				3425.68 (Y)
	Add 15 % Contractor's profit and overheads on "Y"				513.85
	Cost of 10.00 sqm				3939.53
	Cost of 1.00 sqm				393.95
	Add labour cess 1%				3.94
	Rate including labour cess				397.89
	Say				397.90

## BCD Analysis of Rates 2022

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
14.75A	Cleaning of terrace/loft water storage tank (inside surface area) upto 2000 litre capacity at all heights with coconut brushes, duster etc., removal of silt, rubbish from the tank and cleaning the tank with fresh water disinfecting with bleaching powder @ 0.5gm per litre capacity of tank including marking the date of cleaning on the side of tank body with the help of stencil and paint and disposing of malba all complete as per direction of Engineer-in-Charge. (The old date already written on tank should be removed with paint remover or black paint and if date is not written with the stencil or old date is not removed deduction will be made @ Rs. 0.10 per litre) (if during cleaning any GI fittings or ball cock is damaged that is to be repaired by contractor at his own cost and nothing extra will be paid on this account)				
	Details of cost for 10 tanks 1 tank is of 500 litres capacity i.e. 5000 litres				
	MATERIAL				
1301	Bleaching powder	quintal	0.03	1800.00	45.00
2264	Carriage of Rubbish (assuming 0.040m depth of silt)	cum	0.25	163.93	40.98
					0.00
9999	Marking with paint i/c removal of existing markings				0.00
	LABOUR	L.S.	30.00	2.12	63.60
					0.00
117	Assistant Fitter or 2nd class Fitter for opening ball cock wheel valve and other fittings	day	1.00	369.00	369.00
114	Beldar for cleaning disinfecting etc	day	1.00	306.00	306.00
	TOTAL				824.58
	Add 1 % Water charges				8.25
	TOTAL				832.83 (X)
	Add GST 12% on "X" ( multiplying factor 0.1405)				117.01
	Total				949.84 (Y)
	Add 15 % Contractor's profit and overheads on "Y"				142.48
	Cost of 5000 litres				1092.32
	Cost of 1 litre				0.22
	Add labour cess 1%				0.00
	Rate including labour cess				0.22
	Say				0.20
14.76	Cleaning and desilting of gully trap chamber, including removal of rubbish mixed with earth etc. and disposal of same, all as per the direction of Engineer-in-charge.				
	Details of cost for 10 Nos.				
	LABOUR				
129	Sewerman	day	1.00	388.00	388.00
9999	T & P Bamboo, bucket, wheel barrow etc.	L.S.	11.20	2.12	23.74
	TOTAL				411.74
	Add 1 % Water charges				4.12
	TOTAL				415.86 (X)
	Add GST 12% on "X" ( multiplying factor 0.1405)				58.43
	Total				474.29 (Y)
	Add 15 % Contractor's profit and overheads on "Y"				71.14
	Cost of 10 nos				545.43
	Cost of each				54.54
	Add labour cess 1%				0.55
	Rate including labour cess				55.09
	Say				55.10

## BCD Analysis of Rates 2022

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
14.77	Cleaning of choked sewer line by diesel running vehicle mounting hydraulic operated high pressure suction cum jetting sewer cleaning machine fitted with pump having 4000 litres suction capacity and 6000 litres water jetting tank capacity including skilled operator, supervising engineer etc. for cleaning and partial desilting of manholes and dechocking of sewer lines. Dechocking and flushing of sewer line from one manhole to another by high pressure jetting system of 2200 PSI for sewer line from 150mm dia upto 300mm dia for all depth.				
	Details of Cost for 208 metres				
	MATERIAL				
9999	Soap, brush, cloths & sundries	L.S.	345.00	2.12	731.40
8500	Water for jetting / blowback Machinerics	1000 litre	0.00	1500.00	3.00
0087	Hire Charges of Suction Jetting machine 2200 PSI machine i/c POL and operator	day	1.00	40000.00	40000.00
	LABOUR				0.00
0139	Skilled Beldar (for floor rubbing etc.)	day	4.00	369.00	1476.00
0160	Technician	day	1.00	531.00	531.00
	TOTAL				42741.40
	Add 1 % Water charges				427.41
	TOTAL				43168.81 (X)
	Add GST 12% on "X" ( multiplying factor 0.1405)				6065.22
	Total				49234.03 (Y)
	Add 15 % Contractor's profit and overheads on "Y"				7385.10
	Cost of 208 metres				56619.14
	Cost of 1.00 metre				272.21
	Add labour cess 1%				2.72
	Rate including labour cess				274.93
	Say				274.90
14.78	Cleaning of under ground sump, Over Head R.C.C. Tank ( independent staging) including disposal of slit and rubbish, all as per direction of Engineer-in-Charge. The cleaning shall consist following operations:-				
	(i) Tank shall be emptied of water by pumping & bottom shall be cleaned of slit and other deposits.				
	(ii) Entire surface area of the sump shall then scrubbed thoroughly with wire brush etc. and pressure washed with water.				
	(iii) Chlorination of RCC internal surface by liquid chlorine.				
	(iv) The treated surface shall be dried using air jetting and all loose particles shall be removal from the surface.				
	(v) Finally the surface shall be treated with ultraviolet radiation etc. as per direction of Engineer-in-Charge.				
	Let a underground tank of capacity 272000 litre or 272 KL and area of tank is 570sqm				
	(a) Dewater and slit cleaning				
	Considering through pumping 20% of water to be lifted, water discharge = $(272 \times 20 / 100 = 54.40 \text{KL})$				
	Cost of pumping water with pump of capacity 4000 litres per hours , = $(54.4 / 4 = 13.6 \text{ hours} = @ 8 \text{ hours/ day} = 1.7 \text{ day})$				
0011	Hire charges of Pump set of capacity 4000 litres/hour	day	1.70	700.00	1190.00
0114	Beldar	day	10.88	306.00	3329.28
	(b) Scrabing the internal surface of tank				
0114	Beldar	day	5.13	306.00	1569.78
0115	Coolie	day	2.28	318.00	725.04
0101	Bhisti	day	2.28	332.00	756.96

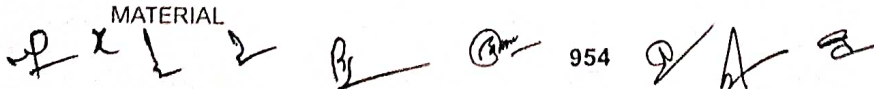
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## BCD Analysis of Rates 2022

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	Sundries	L.S.	142.50	2.12	302.10
	(c) Bleaching				
1301	Bleaching powder	quintal	0.57	1800.00	1026.00
0006	Hire charges of Spraying machine including electric charges	day	14.25	250.00	3562.50
0138	Sprayer (for bitumen, tar etc.)	day	14.25	322.00	4588.50
	(d) Air jetting				
0058	Air compressor	hour	2.00	200.00	400.00
0114	Beldar	day	0.25	306.00	76.50
	(e) Ultra Violet Radiation				
0085	Using cost of Ultra Violet Radiation tube	hour	0.50	190.00	95.00
0114	Beldar	day	0.06	306.00	19.13
	TOTAL				17640.79
	Add 1 % Water charges				176.41
	TOTAL				17817.19 (X)
	Add GST 12% on "X" ( multiplying factor 0.1405)				2503.32
	Total				20320.51 (Y)
	Add 15 % Contractor's profit and overheads on "Y"				3048.08
	Cost of 570 sqm				23368.58
	Cost of 1 sqm				41.00
	Add labour cess 1%				0.41
	Rate including labour cess				41.41
	Say				41.40
<b>14.79</b>	<b>Disconnecting damaged overhead/terrace PVC water storage tank of any size from water supply line and removing from the terrace including shifting at ground level as per direction of Engineer-in-charge.</b>				
	Details of cost for 1 No				
	LABOUR				
	For disconnecting & dismantling of existing W/s line of water storage tanks on terrace of Qtrs.				
117	Assistant Fitter or 2nd class Fitter	day	0.10	369.00	36.90
114	Beldar	day	0.10	306.00	30.60
	For Bringing the tank at Ground Level				0.00
114	Beldar	day	0.20	306.00	61.20
9999	Sundries	L.S.	1.10	2.12	2.33
	TOTAL				131.03
	Add 1 % Water charges				1.31
	TOTAL				132.34 (X)
	Add GST 12% on "X" ( multiplying factor 0.1405)				18.59
	Total				150.94 (Y)
	Add 15 % Contractor's profit and overheads on "Y"				22.64
	Cost for each				173.58
	Add labour cess 1%				1.74
	Rate including labour cess				175.31
	Say				175.30
<b>14.80</b>	<b>Providing &amp; fixing White vitreous china water closet squatting pan (Indian type) along with "S" or "P" trap including dismantling of old WC seat and "S" or "P" trap at site complete with all operations including all necessary materials, labour and disposal of dismantled material i/c malba, all complete as per the direction of Engineer-in charge.</b>				
<b>14.80.1</b>	<b>Long pattern W.C Pan of size 580x440 mm</b>				
	Details of cost for 1 no.				
	MATERIAL				



## BCD Analysis of Rates 2022

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
1953	Vitreous china Indian type W.C. pan size 580 mm	each	1.00	475.00	475.00
1970	Vitreous china foot rests 250x125x25 mm	pair	1.00	103.00	103.00
1890	Centrifugally sand cast (spun) S&S "P" or "S" trap	each	1.00	325.00	325.00
9999	Cement sand & grit etc.	L.S.	13.36	2.12	28.32
9977	Carriage of materials Less for	L.S.	13.52	2.12	28.66
1880		kg	-2.00	25.00	-50.00
	LABOUR				0.00
	(a) For dismantling WC seat and P or S trap				0.00
129	Sewerman	day	0.05	388.00	19.40
114	Beldar	day	0.20	306.00	61.20
	(b) For Fixing WC seat and "P" or "S" trap				0.00
126	Mason 1st class	day	0.80	413.00	330.40
114	Beldar	day	0.80	306.00	244.80
	TOTAL				1565.79
	Add 1 % Water charges				15.66
	TOTAL				1581.44 (X)
	Add GST 12% on "X" ( multiplying factor 0.1405)				222.19
	Total				1803.64 (Y)
	Add 15 % Contractor's profit and overheads on "Y"				270.55
	Cost for each				2074.18
	Add labour cess 1%				20.74
	Rate including labour cess				2094.92
	Say				2094.90
<b>14.80.2</b>	<b>Orissa pattern W.C Pan of size 580x440 mm</b>				
	<b>Details of cost for 1 no.</b>				
	<b>MATERIAL</b>				
1954	Vitreous china orrisa type W.C. pan size 580 mm	each	1.00	1290.00	1290.00
1890	Centrifugally sand cast (spun) S&S "P" or "S" trap	each	1.00	325.00	325.00
9999	Cement sand & grit etc.	L.S.	13.36	2.12	28.32
9977	Carriage of materials Less for	L.S.	13.52	2.12	28.66
1880	Dismantled "P" or "S" trap scrap (app. Wt 2 kg.)	kg	-2.00	25.00	-50.00
	LABOUR				0.00
	(a) For dismantling WC seat and P or S trap				0.00
0129	Sewerman	day	0.05	388.00	19.40
0114	Beldar	day	0.13	306.00	38.25
	(b) For Fixing WC seat and "P" or "S" trap				0.00
0126	Mason 1st class	day	0.80	413.00	330.40
0114	Beldar	day	0.80	306.00	244.80
	TOTAL				2254.84
	Add 1 % Water charges				22.55
	TOTAL				2277.38 (X)
	Add GST 12% on "X" ( multiplying factor 0.1405)				319.97
	Total				2597.36 (Y)
	Add 15 % Contractor's profit and overheads on "Y"				389.60
	Cost for each				2986.96
	Add labour cess 1%				29.87
	Rate including labour cess				3016.83
	Say				3016.80
<b>14.81</b>	<b>Cutting holes of required size in brick masonry wall for fixing of exhaust fan including providing and fixing 300 mm dia PVC pipe conforming BIS-12818 and making good the same etc. complete as per direction of Engineer-in-charge.</b>				
	<b>Detail of Cost for 10 holes</b>				
	<b>Size 0.30x0.30x0.23 m wall</b>				

## BCD Analysis of Rates 2022

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<b>MATERIAL</b>				
	12 mm plaster 1:4 (1 Cement: 4 Coarse sand)				
	Actual Area (10x4x0.3x0.23) = 0.296 + 0.24				
	L.S. For corners/sides = 3.00 Sqm				
13.4.1	Rate as per Item No.13.4.1 of SH:FINISHING	sqm	3.00	151.40	454.20 A
7752	PVC slotted pipe 200 mm dia as per IS: 12818	metro	0.25	810.00	202.50
9999	Sundries	L.S.	8.06	2.12	17.09
	LABOUR				0.00
	Proportionate labour taken as actually required at site				0.00
0123	Mason (brick layer) 1st class (0.16/0.0306)= 0.11 Nos.	day	0.11	413.00	45.43
0124	Mason (brick layer) 2nd class (0.16/0.030)x0.207 = 0.11 Nos.	day	0.11	369.00	40.59
0114	Beldar (1.25x0.207)/0.0306 =1.10 Nos.	day	1.10	306.00	336.60
9999	Add L.S. For Delay	L.S.	16.12	2.12	34.17
	<b>TOTAL</b>				1130.58
	Add 1 % Water charges on all except (A) i.e. on (1130.58 - 454.2) =676.38				6.76
	<b>TOTAL</b>				1137.34 (X)
	Add GST 12% on "X" ( multiplying factor 0.1405)				95.98
	<b>Total</b>				1233.33 (Y)
	Add 15 % Contractor's profit and overheads on all except (A) i.e. on (1274.27- 542.55) = 731.72				116.87
	Cost of 10 nos				1350.20
	Cost of each				135.02
	Add labour cess 1%				1.35
	Rate including labour cess				136.37
	Say				136.40
14.82	<b>Dismantling W.C. Pan of all sizes including disposal of dismantled materials i/c malba all complete as per directions of Engineer-in-Charge.</b>				
	Details of cost for 1 no.				
	LABOUR				
0114	Beldar	day	0.13	306.00	38.25
9999	Sundries	L.S.	1.00	2.12	2.12
	<b>TOTAL</b>				40.37
	Add 1 % Water charges				0.40
	<b>TOTAL</b>				40.77 (X)
	Add GST 12% on "X" ( multiplying factor 0.1405)				5.73
	<b>Total</b>				46.50 (Y)
	Add 15 % Contractor's profit and overheads on "Y"				6.98
	Cost for each				53.48
	Add labour cess 1%				0.53
	Rate including labour cess				54.01
	Say				54.00
14.83	<b>Hacking of CC flooring including cleaning for surface etc. complete as per direction of the Engineer-in-Charge.</b>				
	Details of cost for 10 sqm				
	LABOUR				
0114	Beldar	day	0.03	306.00	9.18
9999	Sundries	L.S.	1.00	2.12	2.12
	<b>TOTAL</b>				11.30



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## BCD Analysis of Rates 2022

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add 1 % Water charges				0.11
	TOTAL				11.41 (X)
	Add GST 12% on "X" ( multiplying factor 0.1405)				1.60
	Total				13.02 (Y)
	Add 15 % Contractor's profit and overheads on "Y"				1.95
	Cost of 10 sqm				14.97
	Cost of 1 sqm				1.50
	Add labour cess 1%				0.01
	Rate including labour cess				1.51
	Say				1.50
14.84	<b>Dismantling 15 to 40 mm dia G.I. pipe including stacking of dismantled pipes (within 50 metres lead) as per direction of Engineer-in-Charge.</b>				
	(a) Internal Work- Exposed on wall				
	<b>Details of cost for 10 metre</b>				
	LABOUR				
9999	Dismantling of G.I. Pipe and stacking etc	L.S.	10.00	2.12	21.20
	TOTAL				21.20
	Add 1 % Water charges				0.21
	TOTAL				21.41 (X)
	Add GST 12% on "X" ( multiplying factor 0.1405)				3.01
	Total				24.42 (Y)
	Add 15 % Contractor's profit and overheads on "Y"				3.66
	Cost of 10 sqm				28.08
	Cost of 1 sqm				2.81
	Add labour cess 1%				0.03
	Rate including labour cess				2.84
	Say				2.80
14.85	<b>Taking out existing wooden door shutter, repair by cutting, painting etc. and refixing of repaired door shutters to existing door frames, including replacement of hinges with screws, etc. as required, all complete as per the direction of the Engineer-in-charge.</b>				
	<b>Details of cost for one shutter (2.2 sqm)</b>				
	<b>Normal exiting size of shutter 1.00x2.02m</b>				
	<b>=2.02sqm</b>				
	MATERIAL				
0637	Bright finished or black enameled mild steel screws 40 mm	100 Nos	0.24	60.00	14.40
	Assuming old hinges fixed in Tee iron frames				
	Half qty = 48/2=24 needs replacement				
	LABOUR				
0156	Carpenter (average)	day	0.18	369.00	66.42
0114	Beldar	day	0.18	306.00	55.08
	TOTAL				135.90
	Add 1 % Water charges				1.36
	TOTAL				137.26 (X)
	Add GST 12% on "X" ( multiplying factor 0.1405)				19.28
	Total				156.54 (Y)
	Add 15 % Contractor's profit and overheads on "Y"				23.48
	Cost for 2.2 sqm or each shutter				180.03
	Cost for 2.02 sqm or each shutter				165.30
	Add labour cess 1%				1.65
	Rate including labour cess				166.95
	Say				166.90