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**SUB HEAD : 7.0**  
**STONE WORK**

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## BCD Analysis of Rates 2022

### BUILDING WORK 7.0 Stone work

Item No.	Description	Unit	Qty	Rate	Rate Code.	Cost Rs.
<b>A7.1</b>	<b>Dressing of sand stone for ashlar cyclopean-</b>					
	Details of cost for 10 Cudm					
	<b>Labour:</b>					
	Stone mason (plane work) 2 nd class	per day	0.088	369.00	(0125)	32.47
	Blacksmith 1st class	per day	0.006	413.00	(0102)	2.48
	Beldar	per day	0.044	306.00	(0114)	13.46
	Coolie	per day	0.022	318.00	(0115)	7.03
	Bandhani	per day	0.044	325.00	(0100)	14.30
	Cost of 10 cudm					<b>Rs.69.70</b>
<b>A7.2</b>	<b>Dressing of sand stone for moulded work</b>					
	Details of cost for 10 cudm					
	<b>Labour:</b>					
	Stone mason (plane work ) 2nd class	per day	0.291	369.00	(0125)	107.38
	Blacksmith 1 st class	per day	0.006	413.00	(0102)	2.48
	Beldar	per day	0.044	306.00	(0114)	13.46
	Coolie	per day	0.022	318.00	(0115)	7.03
	Bandhani	per day	0.044	325.00	(0100)	14.30
	Cost of 10 cudm					<b>Rs.144.60</b>
<b>A7.3</b>	<b>Dressing of sand stone for ashlar punched</b>					
	Details of cost for 10 cudm					
	<b>Labour:</b>					
	Stone mason (plane work ) 2nd class	per day	0.059	369.00	(0125)	21.77
	Blacksmith 1 st class	per day	0.006	413.00	(0102)	2.48
	Beldar	per day	0.044	306.00	(0114)	13.46
	Coolie	per day	0.022	318.00	(0115)	7.04
	Bandhani	per day	0.044	325.00	(0100)	14.30
	Cost of 10 cudm					<b>Rs.59.06</b>
<b>A7.4</b>	<b>Dressing of sand stone in arch dome's or circular moulded work</b>					
	Details of cost for 10 cudm					
	<b>Labour:</b>					
	Stone mason (plane work) 2nd class	per day	0.176	369.00	(0125)	64.94
	Blacksmith 1 st class	per day	0.006	413.00	(0102)	2.48
	Stone mason (ornamental work )	per day	0.176	413.00	(0126)	72.69
	Beldar	per day	0.044	306.00	(0114)	13.46
	Coolie	per day	0.022	318.00	(0115)	7.00
	Bandhani	per day	0.044	325.00	(0100)	14.30
	Cost of 10 cudm					<b>Rs.174.90</b>
<b>A7.5</b>	<b>Dressing of sand stone for ashlar moulded and curved colonic</b>					
	Details of cost 10 cudm					
	<b>Labour:</b>					
	stone mason (ornamental work ) 1st class	per day	0.485	413.00	(0126)	200.31
	Blacksmith 1st class	per day	0.006	413.00	(0102)	2.48
	Beldar	per day	0.044	306.00	(0114)	13.46
	Coolie	per day	0.022	318.00	(0115)	7.00
	Bandhani	per day	0.044	325.00	(0100)	14.30
	Cost of 10 cudm					<b>Rs.237.50</b>

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Item No.	Description	Unit	Qty	Rate	Rate Code.	Cost Rs.
<b>A7.5</b>	<b>Dressing of sand stone</b>					
	Details of cost for 1 sqm					
	Labour:					
	Stone mason (plane work ) 2nd class	per day	1.350	369.000	(0125)	498.15
	Blackmith 1 st class	per day	0.032	413.000	(0102)	13.22
	Beldar	per day	0.224	306.000	(0114)	68.54
	Coolie	per day	0.112	318.000	(0115)	35.62
	Bandhani	per day	0.224	325.000	(0100)	72.80
	Cost of 1 sqm					<u>Rs.688.30</u>
<b>A7.7</b>	<b>Fixing charges for stone work including pointing</b>					
	Details of cost for 10 cudm					
	Labour:					
	Stone mason ( plane work ) 2nd Class	per day	0.044	369.000	(0125)	16.24
	Blacksmith 1 st class	per day	0.006	413.000	(0102)	2.48
	Beldar	per day	0.022	306.000	(0114)	6.73
	coolie	per day	0.022	318.000	(0115)	7.00
	Bandhani	per day	0.022	325.000	(0100)	7.15
	Bhishti	per day	0.022	332.000	(0101)	7.34
	Scaffolding	1 time	2.730	2.120	(9999)	5.79
	Mortar for laying and pointing	1 time	8.060	2.120	(9999)	17.09
	Cost of 10 cudm					<u>Rs.69.80</u>
<b>A7.8</b>	<b>Fixing charges for stone in veneer work .</b>					
	Details of cost for 1 sqm					
	Labour:					
	Stone mason (for plain work ) 2nd class	per day	0.448	369.000	(0125)	165.31
	Bandhani	per day	0.336	325.000	(0100)	109.20
	Beldar	per day	0.336	306.000	(0114)	102.82
	Coolie	per day	0.336	318.000	(0115)	106.85
	Bhisti	per day	0.336	332.000	(0101)	111.59
	Scaffolding	1 time	19.760	2.120	(9999)	41.89
	Mortar for laying and pointing	1 time	80.730	2.120	(9999)	171.15
	Cost of 1 sqm					<u>Rs.808.80</u>
<b><u>RANDOM RUBBLE MASONRY</u></b>						
<b>7.1</b>	<b>Random rubble masonry with hard stone in fourdation and plinth including leveling up with cement concrete 1:6:12 (1 cement: 6 coarse sand : 12 graded stone aggregate 20 mm nominal size ) at plinth level with .</b>					
<b>7.1.1</b>	<b>Cement mortar 1:6 (1 cement : 6 coarse sand)</b>					
	Details of cost for 1 cum					
	Materials :					
	Stone at quany	cum	1.000	1100.000	(1157)	1100.00
	Through and bond stones 7 nos.	100 Nos	0.070	5000.000	(1154)	350.00
	Carriage of stone 7.00 x24cm x 24 cm X 39 cm x =					
	0.16 cum , 1.00 cum + 0.16 cum = 1.16 cum	cum	1.160	192.860	(2215)	223.72
	Cement mortar 1:6 (1 cement : 6 coarse sand)	cum	0.330	1664.988	(2115)	549.45
	Labour:					
	Masons 2nd class	per day	1.070	369.000	(0125)	394.83 (A)
	Beldar	per day	1.070	306.000	(0114)	327.42 (A)
	Coolie	per day	0.710	318.000	(0115)	225.78 (A)
	Bhishti	per day	0.090	332.000	(0101)	29.88 (A)

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Item No.	Description	Unit	Qty	Rate	Rate Code.	Cost Rs.
	Cement concrete 1:6:12	1 lime	45.760	2.120	(9999)	97.01
	Sundries	1 lime	4.420	2.120	(9999)	9.37
	Total					3307.46
	Add for water charges @ 1 %					33.07
	Total					3340.53 (X)
	Add GST 12% on "X"( multiplying factor 0.1405)					469.34
	Total					3809.87 (Y)
	Add 15% for contractor's profit and overheads on "Y"					571.48
	Cost of 1 cum					4381.36
	Add labour cess @ 1%					43.81
	Rate including labour cess					4425.17
	<b>Say</b>					<b>Rs.4425.20 per cum</b>

**7.2 Extra for random rubble masonry with hard stone in superstructure above plinth level and upto floor five level. including leveling up with cement concrete 1:6:12 (1 cement: 6 coarse sand : 12 graded stone aggregate 20 mm nominal size ) at window sills , ceiling level and the like . Details of cost for 1 cum**

	Scaffolding etc. .	1 time	25.900	2.120	(9999)	54.91
	<b>Labour:</b>					
	labour for laying cement concrete	1 time	4.150	2.120	(9999)	8.80
	mason (2nd class)	per day	0.270	369.000	(0125)	99.63
	Beldar	per day	0.380	306.000	(0114)	116.28
	Extra labour for lifting of materials upto floor v level 0.75x1.50=1.13					
	Coolie	per day	1.130	318.000	(0115)	359.34
	Total					638.96
	Add for water charges @ 1 %					6.39
	Total					645.35 (X)
	Add GST 12% on "X"( multiplying factor 0.1405)					90.67
	Total					736.02 (Y)
	Add 15% for contractor's profit and overheads on "Y"					110.40
	Cost of 1 cum					846.42
	Add labour cess @ 1%					8.46
	Rate including labour cess					854.88
	<b>Say</b>					<b>Rs.854.90 per cum</b>

**7.3 Extra for random rubble masonry with hard stone in superstructure above floor V level for every four floors or part thereof.**

	Details of cost per cum					
	<b>Labour:</b>					
	Required for lifting of material 1.0x2.00=2.00					
	Beldar	per day	2.000	306.000	(0114)	612.00
	Add for water charges @ 1 %					6.12
	Total					618.12 (X)
	Add GST 12% on "X"( multiplying factor 0.1405)					86.85
	Total					704.97 (Y)
	Add 15% for contractor's profit and overheads on "Y"					105.74



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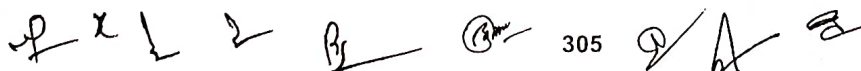
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Item No.	Description	Unit	Qty	Rate	Rate Code.	Cost Rs.
	Cost of 1 cum					810.71
	Add labour cess @ 1%					8.11
	Rate including labour cess					818.82
			Say			Rs.818.80 per cum
<b>7.4</b>	<b>Extra for random rubble masonry with hard stone in .</b>					
<b>7.4.1</b>	<b>Square or rectangular pillars</b>					
	Details of cost for 1 cum					
	Labour:					
	Mason (2nd class)	per day	0.580	369.000	(0125)	214.02
	Coolie	per day	0.270	318.000	(0115)	85.86
	Total					299.88
	Add for water charges @ 1 %					3.00
	Total					302.88 (X)
	Add GST 12% on "X"( multiplying factor 0.1405)					42.55
	Total					345.43 (Y)
	Add 15% for contractor's profit and overheads on "Y"					51.81
	Cost of 1 cum					397.25
	Add labour cess @ 1%					3.97
	Rate including labour cess					401.22
			Say			Rs.401.20 per cum
<b>7.4.2</b>	<b>Circular pillars</b>					
	Details of cost for 1 cum					
	-Extra stone	cum	0.290	1100.000	(1157)	319.00
	Carriage	cum	0.290	192.860	(2215)	55.93
	Labour:					
	Labour for cutting and dressing stones					
	mason (2nd class)	per day	1.420	369.000	(0125)	523.98
	Coolie	per day	0.350	318.000	(0115)	111.30
	Total					1010.21
	Add for water charges @ 1 %					10.10
	Total					1020.31 (X)
	Add GST 12% on "X"( multiplying factor 0.1405)					143.35
	Total					1163.67 (Y)
	Add 15% for contractor's profit and overheads on "Y"					174.55
	Cost of 1 cum					1338.22
	Add labour cess @ 1%					13.38
	Rate including labour cess					1351.60
			Say			Rs.1351.60 per cum
<b>7.5</b>	<b>Extra for random rubble masonry with hard stone curved on plan for a mean radius not exceeding 6m.</b>					
	Details of cost for 1 cum					
	Extra stone	cum	0.100	1100.000	(1157)	110.00
	Carriage of stones	cum	0.100	192.860	(2215)	19.29
	Labour for cutting and dressing stones-					
	Mason (2nd class)	per day	0.270	369.000	(0125)	99.63
	Coolie	per day	0.530	318.000	(0115)	168.54

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Item No.	Description	Unit	Qty	Rate	Rate Code.	Cost Rs.
	Total					397.46
	Add for water charges @ 1%					3.97
	Total					401.43 (X)
	Add GST 12% on "X"( multiplying factor 0.1405)					56.40
	Total					457.83 (Y)
	Add 15% for contractor's profit and overheads on "Y"					68.67
	Cost of 1 cum					526.51
	Add labour cess @ 1%					5.27
	Rate including labour cess					531.78
			<b>Say</b>	<b>Rs.531.80 per cum</b>		
	<b><u>COURSED RUBBLE MASONRY</u></b>					
7.6	<b>Coursed rubble masonry (first sort) with stone in foundation and plinth with</b>					
7.6.1	<b>Cement mortar 1:6(1 cement: 6 coarse sand)</b>					
	Details of cost for 1 cum					
	Cement mortar 1:6	cum	0.300	1664.988	(2115)	499.50
	Stone at quarry	cum	1.210	1100.000	(1157)	1331.00
	Through and bond stone 7 nos.	100 Nos	0.070	5000.000	(1154)	350.00
	Carriage of stone 7.00 x 24 cm x 24 cm 39 cm = 0.16 cum 1.21+0.16=1.37 cum	cum	1.370	192.860	(2215)	264.22
	Labour:					
	Mason (2nd class )	per day	2.120	369.000	(0125)	782.28
	Beldar	per day	1.240	306.000	(0114)	379.44
	Coolie	per day	0.710	318.000	(0115)	225.78
	Bhisti	per day	0.090	332.000	(0101)	29.88
	Sundries	1 time	13.520	2.120	(9999)	28.66
	Total					3890.76
	Add for water charges @ 1 %					38.91
	Total					3929.66 (X)
	Add GST 12% on "X"( multiplying factor 0.1405)					552.12
	Total					4481.78 (Y)
	Add 15% for contractor's profit and overheads on "Y"					672.27
	Cost of 1 cum					5154.05
	Add labour cess @ 1%					51.54
	Rate including labour cess					5205.59
			<b>Say</b>	<b>Rs.5205.60 per cum</b>		
7.7	<b>Coursed rubble masonry (second sort ) with hard stone in foundation &amp; plinth with :-</b>					
7.7.1	<b>Cement mortar 1:6 (1 cement : 6 coarse sand )</b>					
	Details of cost for 1 cum					
	Materials :					
	Cement mortar 1:6	cum	0.300	1664.988	(2115)	499.50
	Stone at quarry	cum	1.100	1100.000	(1157)	1210.00 (Y)
	Through and bond stones 7 nos.	100 Nos	0.070	5000.000	(1154)	350.00 (Y)
						2059.50
	Carriage of stone 7.00 x 24 cm x 24 cm 39 cm = 0.16 cum 1.10+0.16=1.26 cum	cum	1.260	192.860	(2215)	243.00 (Y)
	Labour					(Y)


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Item No.	Description	Unit	Qty	Rate	Rate Code.	Cost Rs.
	Mason (2nd class)	per day	1.760	369.000	(0125)	649.44 (Y)
	Beldar	per day	1.240	306.000	(0114)	379.44 (Y)
	Coolie	per day	0.710	318.000	(0115)	225.78 (Y)
	Bhisti	per day	0.090	332.000	(0101)	29.88 (Y)
	Sundries	1 time	13.520	2.120	(9999)	28.66 (Y)
	Total					3615.70
	Add for water charges @ 1%					36.16
	Total					3651.86 (X)
	Add GST 12% on "X"( multiplying factor 0.1405)					513.09
	Total					4164.95 (Z)
	Add 15% for contractor's profit and overheads on "Z"					624.74
	Cost of 1 cum					4789.69
	Add labour cess @ 1%					47.90
	Rate including labour cess					4837.59

Say Rs.4837.60 per cum

**7.8 Extra for coursed rubble masonry with hard stone (first or second sort) in superstructure above plinth level and upto floor five level.**

**Details of cost for 1 cum**

Scaffolding etc.	1 time	24.180	2.120	(9999)	51.26
<b>- Labour:</b>					
Mason (2nd class)	per day	0.260	369.000	(0125)	95.94
Beldar	per day	0.350	306.000	(0114)	107.10
Extra labour for lifting of materials upto floor V level 1.00x1.50=1.50					
Coolie	per day	1.500	318.000	(0115)	477.00
Total					731.30
Add for water charges @ 1 %					7.31
Total					738.61 (X)
Add GST 12% on "X"( multiplying factor 0.1405)					103.78
Total					842.39 (Y)
Add 15% for contractor's profit and overheads on "Y"					126.36
Cost of 1 cum					968.75
Add labour cess @ 1%					9.69
Rate including labour cess					978.44

Say Rs.978.40 per cum

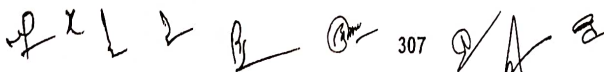
**7.9 Extra for coursed rubble masonry with hard stone (first or second sort) in superstructure above floor V level for every four floor's or part thereof. Details of cost per floor per cum**

Labour required for lifting of material 1.00x2.00=2.00					
Beldar	per day	2.000	306.000	(0114)	612.00
Add for water charges @ 1%					6.12
Total					618.12 (X)
Add GST 12% on "X"( multiplying factor 0.1405)					86.85
Total					704.97 (Y)
Add 15% for contractor's profit and overheads on "Y"					105.74
Cost of 1 cum					810.71
Add labour cess @ 1%					8.11
Rate including labour cess					818.82

Say 818.80 per cum

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Item No.	Description	Unit	Qty	Rate	Rate Code.	Cost Rs.
7.10	<b>Extra for coursed rubble masonry with hard stone (first or second sort) in :</b>					
7.10.1	<b>Square or rectangular pillars</b>					
	Details of cost for 1 cum					
	Labour:					
	Mason (2nd class)	per day	0.670	369.000	(0125)	247.23
	Coolie	per day	0.270	318.000	(0115)	85.86
	Total					333.09
	Add for water charges @ 1 %					3.33
	Total					336.42 (X)
	Add GST 12% on "X" ( multiplying factor 0.1405)					47.27
	Total					383.69 (Y)
	Add 15% for contractor's profit and overheads on "Y"					57.55
	- Cost of 1 cum					441.24
	Add labour cess @ 1%					4.41
	Rate including labour cess					445.65
	<b>Say</b>					<b>Rs.445.70 per cum</b>
7.10.2	<b>Circular pillars</b>					
	Details of cost for 1 cum					
	Extra stones	cum	0.320	1100.000	(1157)	352.00
	Carriage of stones	cum	0.320	192.860	(2215)	61.72
	Labour for cutting and dressing					
	Mason (2nd class)	per day	1.670	369.000	(0125)	616.23
	Coolie	per day	0.350	318.000	(0115)	111.30
	Total					1141.25
	Add for water charges @ 1 %					11.41
	Total					1152.66 (X)
	Add GST 12% on "X" ( multiplying factor 0.1405)					161.95
	Total					1314.61 (Y)
	Add 15% for contractor's profit and overheads on "Y"					197.19
	Cost of 1 cum					1511.80
	Add labour cess @ 1%					15.12
	Rate including labour cess					1526.92
	<b>Say</b>					<b>Rs. 1526.90 per cum</b>
7.11	<b>Extra for coursed rubble masonry with hard stone (first or second sort) curved on plan for a mean radius not exceeding 6m.</b>					
	Details of cost for 1 cum					
	<b>Materials :</b>					
	Extra stones	cum	0.110	1100.000	(1157)	121.00
	Carriage of stones	cum	0.110	192.860	(2215)	21.21
	Labour for cutting and dressing stones :					
	Mason (1st class)	per day	0.330	369.000	(0125)	121.77
	Coolie	per day	0.530	318.000	(0115)	168.54
	Total					432.52
	Add for water charges @ 1 %					4.33
	Total					436.85 (X)


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Item No.	Description	Unit	Qty	Rate	Rate Code.	Cost Rs.
	Add GST 12% on "X"( multiplying factor 0.1405)					61.38
	Total					498.23 (Y)
	Cost of 1 cum					559.60
	Add labour cess @ 1%					5.60
	Rate including labour cess					565.20
	<b>ASHLAR MASONRY</b>					
<b>7.12</b>	<b>Stone work in plain ashlar in super structure upto floor five level in cement mortar 1:6 ( 1 cement: 6 coarse sand ) including pointing with cement mortar 1:2 (1 white cement: 2 stone dust) with an admixture of pigment matching the stone shade .</b>					
<b>7.12.1</b>	<b>one face dressed</b>					
<b>7.12.1.1</b>	<b>Red sand stone</b>					
	Details of cost for 10 cum					
	<b>Materials :</b>					
	Red sand stone					
	Finished work =10 cum					
	Add wastage @ 33 % = 3.33 cum					
	Total =13.33 cum					
	Cost of stone	10 cum	1.333	80.00	(1160)	106.64
	Carriage of stone @ 2.30 kg/cum = 13.33 x2.30 =60.659 kg = 0.03065 kg say 0.031 t.	tonne	0.031	145.720	(2216)	4.52
	Cement mortar:					
	Extra labour for lifting of materials upto floor V level 0.01 x 1.50 = 0.015					
	Coolie	per day	0.015	318.000	(0115)	4.77
	Dressing charges as per item no (A1)	cum	1.000	69.700	(A7.1)	69.70
	Fixing charges (as per item no. A7 )	cum	1.000	69.800	(A7.7)	69.80
	Total					255.43
	Add for water charges @ 1 %					2.55
	Total					257.98 (X)
	Add GST 12% on "X"( multiplying factor 0.1405)					36.25
	Total					294.23 (Y)
	Add for contractor's profit and over-heads @ 15% on "Y"					44.13
	Cost of 0.010 cum					338.36
	Cost of 1 cum					33836.22
	Add labour cess @ 1%					338.36
	Rate including labour cess					34174.58
	<b>Say Rs. 34174.60 per cum</b>					
<b>7.12.1.2</b>	<b>White sand stone</b>					
	Details of cost for 10 cum					
	<b>Materials :</b>					
	White sand stone					
	Finished work =10 cum					
	Add wastage 33.3 % =3.33 cum					
	Total =13.33 cum					
	Cost of stone	10cum	1.3332	205.000	(1161)	273.31
	Carriage of stone @ 2.30 kg/cum = 13.33 x 2.30 = 30.659 kg = 0.03065 kg 0.031 t.	tonne	0.031	145.720	(2216)	4.52
	Dressing charges as per item no. (A1)	cum	1	69.700	(A7.1)	69.70
	Fixing charges (as per item no. A7 )	cum	1	69.800	(A7.7)	69.80
	Total					417.32

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Item No.	Description	Unit	Qty	Rate	Rate Code.	Cost Rs.
	Add for water charges @ 1%					4.17
	Total					421.50 (X)
	Add GST 12% on "X"( multiplying factor 0.1405)					59.22
	Total					480.72 (Y)
	Add for contractor's profit and over-heads @ 15% on "Y"					72.11
	Cost of 0.010 cum					552.82
	Cost of 1 cum					55282.43
	Add labour cess @ 1%					552.82
	Rate including labour cess					55835.25
<b>Say Rs. 55835.30 per cum</b>						

### 7.12.2 Both face dressed

#### 7.12.2.1 Red sand stone

Details of cost for 10 cudm

**Materials :**

Red sand stone

Finished work =10 cudm

Add wastage @ 33 % = 3.33 cudm

Total =13.33 cudm

Cost of stone	10 cudm	1.333	80.00	(1160)	106.64
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Carriage of stone @ 2.30 kg/cudm = 13.33 x2.30 =60.659 kg = 0.03065 kg say 0.031 t.	tonne	0.031	145.720	(2216)	4.52
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Cement mortar:

Extra labour for lifting of materials upto floor V level 0.01 x 1.50 = 0.015

Coolie	per day	0.015	318.000	(0115)	4.77
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Dressing charges as per item no (A1) x 2	cudm	2.000	69.700	(A7.1)	139.40
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Fixing charges (as per item no. A7 )	cudm	1.000	69.800	(A7.7)	69.80
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Total 325.13

Add for water charges @ 1 % 3.25

Total 328.38 (X)

Add GST 12% on "X"( multiplying factor 0.1405) 46.14

Total 374.52 (Y)

Add for contractor's profit and over-heads @ 15% on "Y" 56.18

Cost of 0.010 cum 430.69

Cost of 1 cum 43069.32

Add labour cess @ 1% 430.69

Rate including labour cess 43500.01

**Say Rs. 43500.00 per cum**

#### 7.12.2.2 White sand stone

Details of cost for 10 cudm

**Materials :**

White sand stone

Finished work =10 cudm


Add wastage 33.3 % =3.33 cudm

Total =13.33 cudm

Cost of stone	10cudm	1.3332	205.000	(1161)	273.31
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Carriage of stone @ 2.30 kg/cudm = 13.33 x 2.30 = 30.659 kg = 0.03065 kg 0.031 t.	tonne	0.031	145.720	(2216)	4.52
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Dressing charges as per item no. (A1) x 2	cudm	2	69.700	(A7.1)	139.40
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Item No.	Description	Unit	Qty	Rate	Rate Code.	Cost Rs.
	Fixing charges (as per item no. A7 )	cudm	1	69.800	(A7.7)	69.80
	Total					487.02
	Add for water charges @ 1%					4.87
	Total					491.89 (X)
	Add GST 12% on "X"( multiplying factor 0.1405)					69.11
	Total					561.00 (Y)
	Add for contractor's profit and over-heads @ 15% on "Y"					84.15
	Cost of 0.010 cum					645.16
	Cost of 1 cum					64515.53
	Add labour cess @ 1%					645.16
	Rate including labour cess					65160.69
	<b>Say Rs.65160.70 per cum</b>					

**7.13 Stone work plain ashlar in arches in cement mortar 1:3 (1 cement: 3 coarse sand ) including centring, shuttering and pointing with white cement mortar 1:2(1 white cement: 2 stone dust) with an admixture of pigment matching the stone shade .**

**7.13.1 one face dressed**

**7.13.1.1 Red sand stone**

Details of cost for 10 cudm

Materials

Red sand stone

Finished work = 10 cudm

Add wastage @ 33.3 % = 3.33 cudm

Total = 13.33 cudm

Cost of stone	10 cudm	1.333	80.000	(1160)	106.64	
Carriage of stone @ 2.30 kg /cudm = 13.33 x 2.30						
= 30.659 kg = 0.03065 kg say 0.031 t.	tonne	0.031	145.720	(2216)	4.52	
Dressing charges as per item no. (A1)	cudm	1	69.700	(A7.1)	69.70	
Fixing charges (as per item no. A7 )	cudm	1	69.800	(A7.7)	69.80	
Centring and shuttering	1 time	13.52	2.120	(9999)	28.66	
Extra for using white cement	1 time	8.06	2.120	(9999)	17.09	
Total					296.41	
Add for water charges @ 1 %					2.96	
Total					299.37 (X)	
Add GST 12% on "X"( multiplying factor 0.1405)					42.06	
Total					341.43 (Y)	
Add for contractor's profit and over-heads @ 15% on "Y"					51.21	
Cost of 0.010 cum					392.65	
Cost of 1 cum					39264.75	
Add labour cess @ 1%					392.65	
Rate including labour cess					39657.40	
	<b>Say Rs.39657.40 per cum</b>					

**7.13.1.2 White sand stone**

Details of cost for 10 cudm

Materials :

White sand stone]

Finished work = 10cudm

Add wastage @ 33.3% = 3.33cudm

Total = 13.33 cudm

## BCD Analysis of Rates 2022

Item No.	Description	Unit	Qty	Rate	Rate Code.	Cost' Rs.
	Cost of stone	10 cudm	1.333	205.000	(1161)	273.27
	Carriage of stone @ 2.30 kg/cudm= 13.33 x 2.30 = 30.659 kg = 0.03065 kg say 0.031 t.	tonne	0.031	145.720	(2216)	4.52
	Dressing charges as per item no. (A1)	cudm	1.000	69.700	(A7.1)	69.70
	Fixing charges (as per item no. A7)	cudm	1.000	69.800	(A7.7)	69.80
	Centring and shuttering	1 time	13.560	2.120	(9999)	28.75
	Extra for using white cement	1 lime	8.060	2.120	(9999)	17.09
	Total					463.12
	Add for water charges @ 1 %					4.63
	Total					467.75 (X)
	Add GST 12% on "X"( multiplying factor 0.1405)					65.72
	Total					533.47 (Y)
	Add for contractor's profit and over-heads @ 15% on "Y"					80.02
	Cost of 0.010 cum					613.49
	Cost of 1 cum					61348.64
	Add labour cess @ 1%					613.49
	Rate including labour cess					61962.13
				Say		Rs.61962.10 per cum

### 7.13.2 Both face dressed

#### 7.13.2.1 Red sand stone

Details of cost for 10 cudm

Materials

Red sand stone

Finished work =10 cudm

Add wastage @ 33.3 % = 3.33 cudm

Total =13.33 cudm

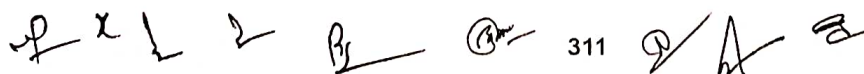
	Cost of stone	10 cudm	1.333	80.000	(1160)	106.64
	Carriage of stone @ 2.30 kg /cudm = 13.33 x 2.30 = 30.659 kg = 0.03065 kg say 0.031 t.	tonne	0.031	145.720	(2216)	4.52
	Dressing charges as per item no. (A1) X 2	cudm	2	69.700	(A7.1)	139.40
	Fixing charges (as per item no. A7 )	cudm	1	69.800	(A7.7)	69.80
	Centring and shuttering	1 time	13.52	2.120	(9999)	28.66
	Extra for using white cement	1 time	8.06	2.120	(9999)	17.09
	Total					366.11
	Add for water charges @ 1 %					3.66
	Total					369.77 (X)
	Add GST 12% on "X"( multiplying factor 0.1405)					51.95
	Total					421.72 (Y)
	Add for contractor's profit and over-heads @ 15% on "Y"					63.26
	Cost of 0.010 cum					484.98
	Cost of 1 cum					48497.85
	Add labour cess @ 1%					484.98
	Rate including labour cess					48982.83
				Say		Rs.48982.80 per cum

#### 7.13.2.2 White sand stone

Details of cost for 10 cudm

Materials :

White sand stone]

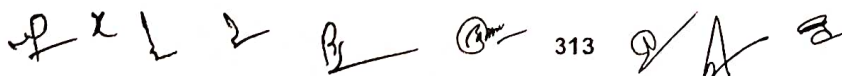
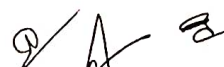

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Item No.	Description	Unit	Qty	Rate	Rate Code.	Cost Rs.
	Finished work = 10cudm					
	Add wastage @ 33.3% = <u>3.33cudm</u>					
	Total = 13.33 cudm					
	Cost of stone	10 cudm	1.333	205.000	(1161)	273.27
	Carriage of stone @ 2.30 kg/cudm= 13.33 x 2.30 = 30.659 kg = 0.03065 kg say 0.031 t.	tonne	0.031	145.720	(2216)	4.52
	Dressing charges as per item no. (A1) X 2	cudm	2.000	69.700	(A7.1)	139.40
	Fixing charges (as per item no. A7)	cudm	1.000	69.800	(A7.7)	69.80
	Centring and shuttering	1 time	13.520	2.120	(9999)	28.66
	Extra for using white cement	1 time	8.060	2.120	(9999)	17.09
	Total					532.73
	Add for water charges @ 1 %					5.33
	Total					538.06 (X)
	Add GST 12% on "X"( multiplying factor 0.1405)					75.60
	Total					613.66 (Y)
	Add for contractor's profit and over-heads @ 15% on "Y"					92.05
	Cost of 0.010 cum					705.71
	Cost of 1 cum					70570.50
	Add labour cess @ 1%					705.71
	Rate including labour cess					71276.21
	<b>Say</b>					<b>Rs.71276.20 per cum</b>
<b>7.14</b>	<b>Stone work plain ashlar in domes in cement mortar 1:3 (1 cement: 3 coarse sand ) including centring, shuttering and pointing with white cement mortar 1:2 (1 white cement: 2 stone dust) with an admixture of pigment matching the stone shade .</b>					
<b>7.14.1</b>	<b>One face dressed</b>					
<b>7.14.1.1</b>	<b>Red sand stone</b>					
	Details of cost for 10 cudm					
	Materials :					
	Red sand stone					
	Finished work =10 cudm					
	Add wastage @ 33.3 % = <u>3.33 cudm</u>					
	Total =13.33 cudm					
	Cost of stone	10 cudm	1.333	80.000	(1160)	106.67
	Carriage of stone @ 2.30 kg /cudm = 13.33 x 2.30 = 30.659 kg = 0.03065 kg say 0.031 t.	tonne	0.031	145.720	(2216)	4.52
	Cement mortar					
	Dressing charges as per item no. (A4)	cudm	1.000	174.90	(A7.4)	174.90
	Fixing charges (asper item no. A7 )	cudm	1.000	69.800	(A7.7)	69.80
	Centring and shuttering	1 time	33.150	2.120	(9999)	70.28
	Extra for using white cement	1 time	8.060	2.120	(9999)	17.09
	Total					443.26
	Add for water charges @ 1 %					4.43
	Total					447.69 (X)
	Add GST 12% on "X"( multiplying factor 0.1405)					62.90
	Total					510.59 (Y)
	Add for contractor's profit and over-heads @ 15% on "Y"					76.59
	Cost of 0.010 cum					587.18
	Cost of 1 cum					58717.83
	Add labour cess @ 1%					587.18
	Rate including labour cess					59305.01
	<b>Say</b>					<b>59305.00 per cum</b>

## BCD Analysis of Rates 2022

Item No.	Description	Unit	Qty	Rate	Rate Code.	Cost Rs.
<b>7.14.1.2 White sand stone</b>						
	Details of cost for 10 cudm					
	Materials :					
	White sand stone					
	Finished work		=10 cudm			
	Add wastage @ 33.3 %		= 3.33 cudm			
	Total		= 13.33 cudm			
	Cost of stone	10 cudm	1.333	205.000	(1161)	273.27
	Carriage of stone @ 2.30 kg /cudm = 13.33 x 2.30					
	= 30.659 kg = 0.03065 kg say 0.031 t.	tonne	0.031	145.720	(2216)	4.52
	Dressing charges as per item no. (A1)	cudm	1.000	174.900	(A7.4)	174.90
	Fixing charges ( as per item no. A7 )	cudm	1.000	69.800	(A7.7)	69.80
	Centring and shuttering	1 time	33.150	2.120	(9999)	70.28
	Extra for using white cement	1 time	8.060	2.120	(9999)	17.09
	Total					609.85
	Add for water charges @ 1%					6.10
	Total					615.95 (X)
	Add GST 12% on "X"( multiplying factor 0.1405)					86.54
	Total					702.49 (Y)
	Add for contractor's profit and over-heads @ 15% on "Y"					105.37
	Cost of 0.010 cum					807.86
	Cost of 1 cum					80785.94
	Add labour cess @ 1%					807.86
	Rate including labour cess					81593.80
				Say Rs.		81593.80 per cum
<b>7.14.2 Both face dressed</b>						
<b>7.14.2.1 Red sand stone</b>						
	Details of cost for 10 cudm					
	Materials :					
	Red sand stone					
	Finished work		=10 cudm			
	Add wastage @ 33.3 %		= 3.33 cudm			
	Total		=13.33 cudm			
	Cost of stone	10 cudm	1.333	80.000	(1160)	106.67
	Carriage of stone @ 2.30 kg /cudm = 13.33 x 2.30					
	= 30.659 kg = 0.03065 kg say 0.031 t.	tonne	0.031	145.720	(2216)	4.52
	Cement mortar					
	Dressing charges as per item no. (A4) X 2	cudm	2.000	174.90	(A7.4)	349.80
	Fixing charges (asper item no. A7 )	cudm	1.000	69.800	(A7.7)	69.80
	Centring and shuttering	1 time	33.150	2.120	(9999)	70.28
	Extra for using white cement	1 time	8.060	2.120	(9999)	17.09
	Total					618.16
	Add for water charges @ 1 %					6.18
	Total					624.34 (X)
	Add GST 12% on "X"( multiplying factor 0.1405)					87.72
	Total					712.06 (Y)
	Add for contractor's profit and over-heads @ 15% on "Y"					106.81
	Cost of 0.010 cum					818.87


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Item No.	Description	Unit	Qty	Rate	Rate Code.	Cost Rs.
	Cost of 1 cum					81886.68
	Add labour cess @ 1%					818.87
	Rate including labour cess					82705.55

Say Rs.82705.50 per cum

### 7.14.2.2 White sand stone

Details of cost for 10 cum

Materials :

White sand stone

Finished work =10 cum

Add wastage @ 33.3 % = 3.33 cum

Total = 13.33 cum

Cost of stone	10 cum	1.333	205.000	(1161)	273.27
Carriage of stone @ 2.30 kg /cum = 13.33 x 2.30 = 30.659 kg = 0.03065 kg say 0.031 t.	tonne	0.031	145.720	(2216)	4.52
Dressing charges as per item no. (A1) x 2	cum	2.000	174.900	(A7.4)	349.80
Fixing charges ( as per item no. A7 )	cum	1.000	69.800	(A7.7)	69.80
Centring and shuttering	1 time	33.150	2.120	(9999)	70.28
Extra for using white cement	1 time	8.060	2.120	(9999)	17.09
Total					784.75
Add for water charges @ 1%					7.85
Total					792.59 (X)
Add GST 12% on "X"( multiplying factor 0.1405)					111.36
Total					903.95 (Y)
Add for contractor's profit and over-heads @ 15% on "Y"					135.59
Cost of 0.010 cum					1039.55
Cost of 1 cum					103954.78
Add labour cess @ 1%					1039.55
Rate including labour cess					104994.33

Say Rs. 104994.30 per cum

**7.15 Stone work ashlar punched (ordinary) in superstructure upto floor five level in cement mortar 1:6 (1 white cement: 6 coarse sand ) including pointing with cement mortar 1:2 (1 cement ;2 stone dust) with an admixture of pigment matching the stone shade .**

### 7.15.1 One face punched

#### 7.15.1.1 Red sand stone

Details of cost for 10 cum.

Materials:

Red sand stone

Finished work =10 cum

Add wastage @ 33.3 % = 3.33 cum

Total =13.33 cum

Cost of stone	10 cum	1.333	80.000	(1160)	106.64
Carriage of stone @ 2.30 kg /cum = 13.33 x 2.30 = 30.659 kg = 0.03065 kg say 0.031 t.	tonne	0.031	145.720	(2216)	4.52
Cement mortar					
Dressing charges as per item no. (A3)	cum	1.000	59.057	(A7.3)	59.06
Fixing charges ( as per item no. A7 )	cum'	1.000	69.800	(A7.7)	69.80
Extra labour for lifting of materials upto floor V level 0.01 x 1.50 = 0.015					
Coolie	per day	0.015	318.000	(0115)	4.77
Total					244.78
Add for water charges @ 1 %					2.45
Total					247.23 (X)

## BCD Analysis of Rates 2022

Item No.	Description	Unit	Qty	Rate	Rate Code.	Cost Rs.
	Add GST 12% on "X"( multiplying factor 0.1405)					34.74
	Total					281.97 (Y)
	Add for contractor's profit and over-heads @ 15% on "Y"					42.30
	Cost of 0.010 cum					324.26
	Cost of 1 cum					32426.31
	Add labour cess @ 1%					324.26
	Rate including labour cess					32750.57

Say Rs. 32750.60 per cum

### 7.15.1.2 White sand stone

Details of cost for 10 cum

White sand stone

Finished work =10 cum

Add wastage @ 33.3 % = 3.33 cum

Total =13.33 cum

Cost of stone	10 cum	1.333	205.000	(1161)	273.27
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Carriage of stone @ 2.30 kg /cum = 13.33 x 2.30

= 30.659 kg = 0.03065 kg say 0.031 t.	tonne	0.031	145.720	(2216)	4.52
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Dressing charges as per item no. (A3)	cum	1.000	59.057	(A7.3)	59.06
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Fixing charges ( as per item no. A7 )	cum	1.000	69.800	(A7.7)	69.80
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Extra labour for lifting of materials upto floor V level

0.01 x 1.50 = 0.015

Coolie	per day	0.150	318.000	(0115)	47.70
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Total					454.34
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Add for water charges @ 1%					4.54
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Total					458.88 (X)
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Add GST 12% on "X"( multiplying factor 0.1405)					64.47
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Total					523.36 (Y)
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Add for contractor's profit and over-heads @ 15% on "Y"					78.50
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Cost of 0.010 cum					601.86
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Cost of 1 cum					60185.87
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Add labour cess @ 1%					601.86
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Rate including labour cess					60787.73
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Say Rs. 60787.70 per cum

### 7.15.2 Both face punched

#### 7.15.2.1 Red sand stone

Details of cost for 10 cum

Materials:

Red sand stone

Finished work =10 cum

Add wastage @ 33.3 % = 3.33 cum

Total =13.33 cum

Cost of stone	10 cum	1.333	80.000	(1160)	106.64
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Carriage of stone @ 2.30 kg /cum = 13.33 x 2.30

= 30.659 kg = 0.03065 kg say 0.031 t.	tonne	0.031	174.900	(2216)	5.42
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Cement mortar

Dressing charges as per item no. (A3) x 2	cum	2.000	59.057	(A7.3)	118.11
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Fixing charges ( as per item no. A7 )	cum'	1.000	69.800	(A7.7)	69.80
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Extra labour for lifting of materials upto floor V

level 0.01 x 1.50 = 0.015

Coolie	per day	0.015	318.000	(0115)	4.77
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Item No.	Description	Unit	Qty	Rate	Rate Code.	Cost Rs.
	Total					304.75
	Add for water charges @ 1 %					3.05
	Total					307.79 (X)
	Add GST 12% on "X"( multiplying factor 0.1405)					43.24
	Total					351.04 (Y)
	Add for contractor's profit and over-heads @ 15% on "Y"					52.66
	Cost of 0.010 cum					403.69
	Cost of 1 cum					40369.33
	Add labour cess @ 1%					403.69
	Rate including labour cess					40773.02
<b>Say Rs. 40773.00 per cum</b>						

### 7.15.2.2 White sand stone

Details of cost for 10 cum

White sand stone

Finished work = 10 cum

Add wastage @ 33.3 % = 3.33 cum

Total = 13.33 cum

Cost of stone	10 cum	1.333	205.000	(1161)	273.27
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Carriage of stone @ 2.30 kg /cum = 13.33 x 2.30

= 30.659 kg = 0.03065 kg say 0.031 t.	tonne	0.031	174.900	(2216)	5.42
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Dressing charges as per item no. (A3) x 2	cum	2.000	59.057	(A7.3)	118.11
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Fixing charges ( as per item no. A7 )	cum	1.000	69.800	(A7.7)	69.80
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Extra labour for lifting of materials upto floor V level

0.01 x 1.50 = 0.015

Coolie	per day	0.150	318.000	(0115)	47.70
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Total					514.30
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Add for water charges @ 1%					5.14
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Total					519.44 (X)
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Add GST 12% on "X"( multiplying factor 0.1405)					72.98
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Total					592.43 (Y)
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Add for contractor's profit and over-heads @ 15% on "Y"					88.86
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Cost of 0.010 cum					681.29
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Cost of 1 cum					68128.89
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Add labour cess @ 1%					681.29
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Rate including labour cess					68810.18
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**Say Rs. 68810.20 per cum**

### 7.16 Extra for stone work, plain ashlar or ashlar punched above floor V for every four floors or part there of.

Details of cost for 10 cum per floor V level

Labour required for lifting of material (above floor

five level for each additional five floors), Extra

labour for lifting of materials upto floor V level)

0.01 x 2.0 = 0.020

Beldar	per day	0.020	306.000	(0114)	6.12
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Add for water charges @ 1 %					0.06
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Total					6.18 (X)
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Add GST 12% on "X"( multiplying factor 0.1405)					0.87
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Total					7.05 (Y)
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## BCD Analysis of Rates 2022

Item No.	Description	Unit	Qty	Rate	Rate Code.	Cost Rs.
	Add for contractor's profit and over-heads @ 15% on "Y"					1.06
	Cost of 0.010 cum					8.11
	Cost of 1 cum					810.71
	Add labour cess @ 1%					8.11
	Rate including labour cess					818.82
						<b>Say Rs. 818.80 per cum</b>

### 7.17 Extra for plain ashlar or ashlar punched in :

#### 7.17.1 Square or rectangular pillars

Details of cost for 10 cum

##### Labour and materials

1 time 8.970 2.120 (9999) 19.02

Add for water charges @ 1%

0.19

Total

19.21 (X)

Add GST 12% on "X" (multiplying factor 0.1405)

2.70

Total

21.91 (Y)

Add for contractor's profit and over-heads @

3.29

15% on "Y"

Cost of 0.010 cum

25.19

Cost of 1 cum

2519.08

Add labour cess @ 1%

25.19

Rate including labour cess

2544.27

**Say Rs. 2544.30 per cum**

### 7.18 Extra for stone work; plain ashlar or ashlar punched curved on plan with a mean radius not exceeding 6 m.

Details of cost for 10 cum

##### Labour and materials

1 time 6.240 2.120 (9999) 13.23

Add for water charges @ 1%

0.13

Total

13.36 (X)

Add GST 12% on "X" (multiplying factor 0.1405)

1.88

Total

15.24 (Y)

Add for contractor's profit and over-heads @

2.29

15% on "Y"

Cost of 0.010 cum

17.52

Cost of 1 cum

1752.41

Add labour cess @ 1%

17.52

Rate including labour cess

1769.93

**Say Rs. 1769.90 per cum**

### 7.19 Extra for additional cost of centering for arches exceeding 6m span including all strutting, bolting, wedging etc, and removal (area of soffit to be measured).

Analysis is same as for item no

6.17 subhead brick

work .

1.000 562.551 (6.17) 562.55


Add labour cess @ 1%

5.63

Rate including labour cess

568.18

**Say Rs. 568.20 per cum**


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## BCD Analysis of Rates 2022

Item No.	Description	Unit	Qty	Rate	Rate Code.	Cost Rs.
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7.20 Stone work sunk or moulded or sunk and moulded upto floor five level in cement mortar 1:6 (1 cement: 6 coarse sand ) including pointing with white cement mortar 1:2 (1 cement: 2 stone dust) with an admixture of pigment matching the stone shade:

**7.20.1 Red sand stone**

Details of cost for 10 cu dm

**Materials :**

Red sand stone -

Finished work = 10 cu dm

Add wastage @ 33.3 % = 3.33 cu dm

Total = 13.33 cu dm

Cost of stone	10 cu dm	1.333	80.000	(1160)	106.64
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Cement mortar .

Carriage of stone @ 2.30 kg /cu dm = 13.33 x 2.30

= 30.659 kg = 0.03065 kg say 0.031 t.	tonne	0.031	145.720	(2216)	4.52
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Extra for using white cement	1 time	3.100	2.120	(9999)	6.57
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Dressing charges as per item no. (A2)	cu dm	1.000	144.600	(A7.2)	144.60
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Fixing charges (as per item no. A7)	cu dm	1.000	69.800	(A7.7)	69.80
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Extra labour for lifting of materials upto floor V level

0.01 x 1.50 = 0.015

Coolie	per day	0.150	318.000	(0115)	47.70
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Total	379.83				
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Add for water charges @ 1 %	3.80				
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Total	383.63 (X)				
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Add GST 12% on "X"( multiplying factor	53.90				
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0.1405)	53.90				
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Total	437.53 (Y)				
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Add for contractor's profit and over-heads @	65.63				
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15% on "Y"	65.63				
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Cost of 0.010 cum	503.16				
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Cost of 1 cum	50315.64				
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Add labour cess @ 1%	503.16				
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Rate including labour cess	50818.80				
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Say Rs. 50818.80 per cum

**7.20.2 White sand stone**

Details of cost for 10 cu dm

White sand stone-

Finished work = 10 cu dm

Add wastage @ 33.3 % = 3.33 cu dm

Total = 13.33 cu dm

Cost of stone	10 cu dm	1.333	80.000	(1161)	106.64
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Carriage of stone @ 2.30 kg /cu dm = 13.33 x 2.30

= 30.659 kg = 0.03065 kg say 0.031 t.	tonne	0.031	192.860	(2215)	5.98
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Extra using white cement	1 time	3.100	2.120	(9999)	6.57
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Dressing charges as per item no. (A2)	cu dm	1.000	144.600	(A7.2)	144.60
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Fixing charges ( as per item no. A7 )	cu dm	1.000	69.800	(A7.7)	69.80
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Extra labour for lifting of materials upto floor V level

0.01 x 1.50 = 0.015

Coolie	per day	0.500	318.000	(0115)	159.00
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Total	492.59				
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Add for water charges @ 1 %	4.93				
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Total	497.52 (X)				
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Add GST 12% on "X"( multiplying factor	69.90				
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0.1405)	69.90				
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Item No.	Description	Unit	Qty	Rate	Rate Code.	Cost Rs.
	Total					567.42 (Y)
	Add for contractor's profit and over-heads @ 15% on "Y"					85.11
	Cost of 0.010 cum					652.53
	Cost of 1 cum					65253.03
	Add labour cess @ 1%					652.53
	Rate including labour cess					65905.56
	<b>Say Rs. 65905.60 per cum</b>					

### 7.21 Extra for stone work sunk or moulded or sunk and moulded or carved in .

#### 7.21.1 Triangular or Square or rectangular pillars Details of cost for 10 cudm

Labour	1 time	11.700	2.120	(9999)	24.80
Add for water charges @ 1%					0.25
Total					25.05 (X)
Add GST 12% on "X"( multiplying factor 0.1405)					3.52
Total					28.57 (Y)
Add for contractor's profit and over-heads @ 15% on "Y"					4.29
Cost of 0.010 cum					32.86
Cost of 1 cum					3285.76
Add labour cess @ 1%					32.86
Rate including labour cess					3318.62
	<b>Say Rs. 3318.60 per cum</b>				

#### 7.21.2 Circular or polygonal pillars


Details of cost for 10 cudm

Labour	1 time	33.150	2.120	(9999)	70.28
Add for water charges @ 1 %					0.70
Total					70.98 (X)
Add GST 12% on "X"( multiplying factor 0.1405)					9.97
Total					80.95 (Y)
Add for contractor's profit and over-heads @ 15% on "Y"					12.14
Cost of 0.010 cum					93.10
Cost of 1 cum					9309.66
Add labour cess @ 1%					93.10
Rate including labour cess					9402.76
	<b>Say Rs. 9402.80 per cum</b>				

### 7.22 Extra for stone work sunk or moulded in cornices .

Details of cost for a cornice 30 cm long 60 cm deep and 15 cm projection

Extra labour					
Stone mason (2nd class)	per day	0.500	369.000	(0125)	184.50 (Y)
Beldar	per day	0.750	306.000	(0114)	229.50 (Y)
Total					414.00
Add for water charges @ 1 %					4.14 (Y)
Total					418.14 (X)
Add GST 12% on "X"( multiplying factor 0.1405)					58.75


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Item No.	Description	Unit	Qty	Rate	Rate Code.	Cost Rs.
	Total					476.89 (M)
	Add GST 12% on "X"( multiplying factor 0.1405)					67.00
	Total					543.89 (Y)
	Add for contractor's profit and over-heads @ 15% on "Y"					81.58
	Cost of 30cm long 60cm deep and 15cm girth					625.48
	Cost of per metre per cm girth (60cm deep)					138.99
	Add labour cess @ 1%					1.39
	Rate including labour cess					140.38

Say Rs. 140.40 per metre per cm girth

### MISCELLANEOUS STONE WORK

**7.23 Stone work (machine cut edge) for wall lining etc. (vener work) upto 10m height,backing filled with a grout of average 12 mm thick bed of cement mortar 1:3 (1cement:3coarse sand) including pointing in white cement mortar 1:2 (1 white cement: 2 stone dust) with an admixture of pigment matching the stone shade: (To be secured to the backing by means of cramps which shall be paid for separately)**

**7.23.1 Red sand stone- exposed face fine dressed with rough backing**

**7.23.1.1 70 mm thick**

Details of cost for 1 sqm

Finished work = .70 cudm  
Add wastage @ 33.3 % = 23.33 cudm  
Total = 93.33 cudm

Cost of stone	10 cudm	9.333	80.000	(1160)	746.64
Carriage of stone @ 2.30 kg /cudm .	tonne	0.215	145.720	(2216)	31.33
Cement mortar					
Extra using white cement	1 time	26.910	2.120	(9999)	57.05
Dressing charges as per item no. (A6)	sqm	1.000	688.300	(A7.6)	688.30
Fixing charges as per item no. (A8 )	sqm	1.000	808.800	(A7.8)	808.80
Total					2332.12
Add for water charges @ 1 %					23.32
Total					2355.44 (X)
Add GST 12% on "X"( multiplying factor 0.1405)					330.94
Total					2686.38 (Y)
Add for contractor's profit and over-heads @ 15% on "Y"					402.96
Cost of 1 sqm					3089.34
Add labour cess @ 1%					30.89
Rate including labour cess					3120.23

Say Rs. 3120.20 per sqm

**7.23.1.2 60 mm thick**

Details of cost for 1 sqm

Finished work = 60 cudm  
Add wastage @ 33.3% = 20 cudm  
Total = 80 cudm

Cost of stone	10 cudm	8.000	80.000	(1160)'	640.00
Carriage of stone @ 2.30 kg / cudm	tonne	0.184	145.720	(2216)	26.81
Extra for using white cement	1 time	26.910	2.120	(9999)	57.05
Dressing charges as per item no (A6)	sqm	1.000	688.300	(A7.6)	688.30

## BCD Analysis of Rates 2022

Item No.	Description	Unit	Qty	Rate	Rate Code.	Cost Rs.
	Fixing charges as per item no (A8)	sqm	1.000	808.800	(A7.8)	808.80
	Total					2220.96
	Add for water charges @ 1 %					22.21
	Toatal					2243.17 (X)
	Add GST 12% on "X"( multiplying factor 0.1405)					315.17
	Total					2558.34 (Y)
	Add for contractor's profit and over-heads @ 15% on "Y"					383.75
	Cost of 1 sqm					2942.09
	Add labour cess @ 1%					29.42
	Rate including labour cess					2971.51
<b>Say Rs. 2971.50 per sqm</b>						

### 7.23.1.3 50 mm thick

Details of cost for 1 sqm						
Finished work	= 50	cudm				
Add wastage @ 33.3%	= 16.7	cudm				
Total	= 66.7	cudm				
Cost of stone	10	cudm	6.670	80.000	(1160)	533.60
Carriage of stone @ 2.30 kg / cudm	tonne	0.153	145.720	(2216)		22.30
Extra for using white cement	1	time	26.910	2.120	(9999)	57.05
Dressing charges as per item no (A6)	sqm	1.000	688.300	(A7.6)		688.30
Fixing charges as per item no (A8)	sqm	1.000	808.800	(A7.8)		808.80
Total						2110.04
Add for water charges @ 1 %						21.10
Total						2131.14 (X)
Add GST 12% on "X"( multiplying factor 0.1405)						299.43
Total						2430.57 (Y)
Add for contractor's profit and over-heads @ 15% on "Y"						364.59
Cost of 1 sqm						2795.16
Add labour cess @ 1%						27.95
Rate including labour cess						2823.11
<b>Say Rs. 2823.10 per sqm</b>						

### 7.23.1.4 40 mm thick

Details of cost for 1 sqm						
Finished work	= 40	cudm				
Add wastage @ 33.3%	= 13.33	cudm				
Total	= 53.33	cudm				
Cost of stone	10	cudm	5.333	80.000	(1160)	426.64
Carriage of stone @ 2.30 kg / cudm	tonne	0.123	145.720	(2216)		17.92
Extra for using white cement	1	time	26.910	2.120	(9999)	57.05
Dressing charges as per item no (A6)	sqm	1.000	688.300	(A7.6)		688.30
Fixing charges as per item no (A8)	sqm	1.000	808.800	(A7.8)		808.80
Total						1998.71
Add for water charges @ 1 %						19.99
Total						2018.70 (X)
Add GST 12% on "X"( multiplying factor 0.1405)						283.63
Total						2302.33 (Y)
Add for contractor's profit and over-heads @ 15% on "Y"						345.35
Cost of 1 sqm						2647.68
Add labour cess @ 1%						26.48
Rate including labour cess						2674.16
<b>Say Rs. 2674.20 per sqm</b>						


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Item No.	Description	Unit	Qty	Rate	Rate Code.	Cost Rs.
<b>7.23.2</b>	<b>White sand stone</b>					
<b>7.23.2.1</b>	<b>70 mm thick</b>					
	Details of cost for 1 sqm					
	Finished work = 70 cudm					
	Add wastage @ 33.3% = <u>23.33 cudm</u>					
	Total = 93.33 cudm					
	Cost of stone	10 cudm	9.333	80.000	(1161)	746.64
	Carriage of stone @ 2.30 kg / cudm	tonne	0.215	145.720	(2216)	31.33
	Extra for using white cement	1 time	26.910	2.120	(9999)	57.05
	Dressing charges as per item no (A6)	sqm	1.000	688.300	(A7.6)	688.30
	Fixing charges as per item no (A8)	sqm	1.000	808.800	(A7.8)	808.80
	Total					2332.12
	Add for water charges @ 1 %					23.32
	Total					2355.44 (X)
	Add GST 12% on "X"( multiplying factor 0.1405)					330.94
	Total					2686.38 (Y)
	Add for contractor's profit and over-heads @ 15% on "Y"					402.96
	Cost of 1 sqm					3089.34
	Add labour cess @ 1%					30.89
	Rate including labour cess					3120.23

Say Rs. 3120.20 per sqm

### 7.23.2.2 60 mm thick

	Details of cost for 1 sqm					
	Finished work = 60 cudm					
	Add wastage @ 33.3% = <u>20 cudm</u>					
	Total = 80 cudm					
	Cost of stone	10 cudm	8.000	80.000	(1161)	640.00
	Carriage of stone @ 2.30 kg / cudm	tonne	0.184	145.720	(2216)	26.81
	Extra for using white cement	1 time	26.910	2.120	(9999)	57.05
	Dressing charges as per item no (A6)	sqm	1.000	688.300	(A7.6)	688.30
	Fixing charges as per item no (A8)	sqm	1.000	808.800	(A7.8)	808.80
	Total					2220.96
	Add for water charges @ 1 %					22.21
	Total					2243.17 (X)
	Add GST 12% on "X"( multiplying factor 0.1405)					315.17
	Total					2558.34 (Y)
	Add for contractor's profit and over-heads @ 15% on "Y"					383.75
	Cost of 1 sqm					2942.09
	Add labour cess @ 1%					29.42
	Rate including labour cess					2971.51

Say Rs. 2971.50 per sqm

### 7.23.2.3 50 mm thick

	Details of cost for 1 sqm		
	Finished work = 50 cudm		
	Add wastage @ 33.3% = 16.7 cudm		
	Total = 66.7 cudm		

## BCD Analysis of Rates 2022

Item No.	Description	Unit	Qty	Rate	Rate Code.	Cost Rs.
	Cost of stone	10 cudm	6.670	80.000	(1161)	533.60
	Carriage of stone @ 2.30 kg / cudm	tonne	0.153	145.720	(2216)	22.30
	Extra for using white comont	1 lmo	26.910	2.120	(9999)	57.05
	Dressing charges as per item no (A6)	sqm	1.000	688.300	(A7.6)	688.30
	Fixing charges as per item no (A8)	sqm	1.000	808.800	(A7.8)	808.80
	Total					2110.04
	Add for water charges @ 1 %					21.10
	Total					2131.14 (X)
	Add GST 12% on "X"( multiplying factor 0.1405)					299.43
	Total					2430.57 (Y)
	Add for contractor's profit and over-heads @ 15% on "Y"					364.59
	Cost of 1 sqm					2795.16
	Add labour cess @ 1%					27.95
	Rate including labour cess					2823.11

Say Rs. 2823.10 per sqm

### 7.23.2.4 40 mm thick

Details of cost for 1 sqm

Finished work = 40 cudm

Add wastage @ 33.3% = 13.3 cudm

Total = 53.3 cudm

	Cost of stone	10 cudm	5.33	80.00	(1161)	426.40
	Carriage of stone @ 2.30 kg / cudm	tonne	0.12	145.72	(2216)	17.92
	Extra for using white cement	1 time	26.91	2.12	(9999)	57.05
	Dressing charges as per item no (A6)	sqm	1.00	688.30	(A7.6)	688.30
	Fixing charges as per item no (A8)	sqm	1.00	808.80	(A7.8)	808.80
	Total					1998.47
	Add for water charges @ 1 %					19.98
	Total					2018.46 (X)
	Add GST 12% on "X"( multiplying factor 0.1405)					283.59
	Total					2302.05 (Y)
	Add for contractor's profit and over-heads @ 15% on "Y"					345.31
	Cost of 1 sqm					2647.36
	Add labour cess @ 1%					26.47
	Rate including labour cess					2673.83

Say Rs. 2673.80 per sqm

### 7.24 Extra for stone work (vener work ) curved on plan with a mean radius not exceeding 6m.

Details of cost for 10 cudm

	Labour and materials	1 time	8.970	2.120	(9999)	19.02
	Total					19.02
	Add for water charges @ 1 %					0.19
	Total					19.21 (X)
	Add GST 12% on "X"( multiplying factor 0.1405)					2.70
	Total					21.91 (Y)
	Add for contractor's profit and over-heads @ 15% on "Y"					3.29
	Cost of 10 cudm					25.19
	Add labour cess @ 1%					0.25
	Cost of 10 cudm					25.44 z
	Cost of 1 cum					2544.28

Say Rs. 2544.30 per cum


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## BCD Analysis of Rates 2022

Item No.	Description	Unit	Qty	Rate	Rate Code.	Cost Rs.
7.25	Providing and fixing gun metal cramps of required shape for anchoring stone wall lining to the backing or securing adjacent stones in stone wall lining in cement mortar 1:2 (1 cement : 2 fine sand ) including making the necessary chases .					
7.25.1	25x6 mm - 30M long					
	Details of cost for 1 cramp-					
	Materials :					
	Gun metal cramp	each	1	80.00	(0373)	80.00
	Labour for fixing the cramp in position	1 time	2.05	2.120	(9999)	4.35
	Cement mortar 1:2 (1 cement: 2 corse sand )	cum	0.001	3601.99	(2111)	3.60
	Total					87.95
	Add for water charges @ 1 %					0.88
	Total					88.83 (X)
	Add GST 12% on "X"( multiplying factor 0.1405)					12.48
	Total					101.31 (Y)
	Add for contractor's profit and over-heads @ 15% on "Y"					15.20
	Cost of 1 cramp					116.50
	Add labour cess @ 1%					1.17
	Rate including labour cess					117.67
	Say Rs. 117.70 per each					
7.26	Providing and fixing stone dowels 10x5x2.50 cm cut to double wedge shape as per design in cement mortar 1:2 (1 cement: 2 fine sand ) including making the necessary chases					
	. Details of cost for one dowel					
	Cost of stone including carriage	1 time	9.1	2.120	(9999)	19.29
	Labour for dressing dowel cutting chase and fixing etc.	1 time	5.33	2.120	(9999)	11.30
	Cement motar 1:2 (1 cement: 2 corse sand )	cum	0.001	3601.99	(2111)	3.60
	Total					34.19
	Add for water charges @ 1 %					0.34
	Total					34.54 (X)
	Add GST 12% on "X"( multiplying factor 0.1405)					4.85
	Total					39.39 (Y)
	Add for contractor's profit and over-heads @ 15% on "Y"					5.91
	Cost of 1 dowel					45.30
	Add labour cess @ 1%					0.45
	Rate including labour cess					45.75
	Say Rs. 45.70 per each					
7.27	Providing and fixing copper pins 7.5 cm long 6 mm diameter for. securing adjacent stones in stone wail lining in cement mortar 1:2 (1 cement: 2 fine sand ) including making the necessary chases .					
	Details of cost for one copper pin-					
	Materials: Copper pin	each	1	7.5	(0873)	7.50
	Labour for fixing in position	1 time	3.9	2.120	(9999)	8.27
	Cement mortar 1:2(1 cement: corse sand )	cum	0.001	3601.99	(2111)	3.60

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Item No.	Description	Unit	Qty	Rate	Rate Code.	Cost Rs.
	Sundries including hire charges of hand cut machine etc	LS	1.95	2.12	(9999)	4.13
	Total					23.50
	Add for water charges @ 1 %					0.24
	Total					23.74
	Add GST 12% on "X"( multiplying factor 0.1405)					3.34
	Total					27.07
	Add for contractor's profit and over-heads @ 15% on "Y"					4.06
	Cost of 1 copper pin					31.14
	Add labour cess @ 1%					0.31
	Rate including labour cess					31.45

Say Rs. 31.40 per each

**7.28 Providing and fixing sloping chajja of stone 40 mm thick and upto 80 cm wide beyond the wall as measured along the slope in cement mortar 1:4 (1 cement : 4 coarse sand) with 12 mm diameter anchoring steel bar, 45 cm long, fixed in each stone and supported on and including with bricks cove in cement mortar 1:4 (1 cement : 4 coarse sand), including pointing in cement mortar 1:2 (1white cement : 2 stone dust) with an admixture of pigment matching the stone shade :**

**7.28.1 Red sand stone :**

**7.28.1.1 With common burnt clay F.P.S.(non modular) bricks of class designation 7.5**

Details of cost for a chajja 2.00 sqm.  
(finished work)

**MATERIAL**

Chisel dressed 80cm sloping length plus 20cm bearing

Area = 2.5x1.00=2.50sqm

Red sand stone slab 40 mmthick (un-dressed)	Sqm	2.75	230.00 (1164)	632.50
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Carriage of Stone blocks white & red sand stone & kota stone slab @ 2.3kg/cudm.	tonne	0.253	145.72 (2216)	36.87
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Labour for dressing:

Mason (for plain stone work) 2nd class)	day	0.5	369.00 (0125)	184.50
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Mild steel round bar 12 mm dia and below	quintel	0.02	5860.00 (1002)	117.20
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Cutting threads and cost of nuts, washers, etc.	L.S.	67.34	2.12 (9999)	142.76
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Mortar for pointing 1:2 (1 Cement : 2 Stone dust)

Rate as per Item Number 3.12 of SH: Mortars	Cum	0.009	3638.00 (3.12)	32.74
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Pigment	L.S.	6.24	2.12 (9999)	13.23
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Extra cost of white cement	L.S.	26.91	2.12 (9999)	57.05
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**LABOUR**

Mason (for plain stone work) 2nd class)	day	1	369.00 (0125)	369.00
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Beldar	day	1.5	306.00 (0114)	459.00
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Scaffolding and sundries etc.	L.S.	16.12	2.12 (9999)	34.17
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Brick cover support 4 courses with bricks of class designation 7.5


4x7+5+5=38cm girth 2.5m length

=38cmx2.5m=95cm

Cost of Brick cover support.	L.S.	104	2.12 (9999)	220.48
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Brick work in triangular gap above cover with bricks of class designation 7.5 in cement mortar 1:4

1/2x2.5x0.2x0.07=0.018cum.


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## BCD Analysis of Rates 2022

Item No.	Description	Unit	Qty	Rate	Rate Code.	Cost Rs.
	Rate as per item No 6.4.1 of SH :- Brick work.	cum	0.018	5017.90	(6.1.12A)	90.32 A
	TOTAL					2389.82 W
	Add 1 % Water charges on "W-A"					23.00
	TOTAL					2412.82 X
	Add GST on "X-A" (multiplying factor 0.1405)					326.31
	TOTAL					2739.13 Y
	Add 15% CPOH on "Y-A"					397.32
	TOTAL					3136.45 Z
	Add Cess @ 1% on "Z-A"					30.46
	Cost of 2 sqm.					3166.91
	Cost of 1 sqm.					1583.46

Say Rs. 1583.50 per sqm

### 7.28.2 Red sand stone :

#### 7.28.2.1 With common burnt clay F.P.S.(non modular) bricks of class designation 7.5

Details of cost for a chajja 2.00 sqm.  
(finished work)

#### MATERIAL

Chisel dressed 80cm sloping length plus 20cm bearing

Area = 2.5x1.00=2.50sqm

'Red sand stone slab 40 mmthick (un-dressed)	Sqm	2.75	250.00 (1165)	687.50
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Carriage of Stone blocks white & red sand stone & kota stone slab @ 2.3kg/cudm.	tonne	0.253	145.72 (2216)	36.87
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Labour for dressing:

Mason (for plain stone work) 2nd class)	day	0.5	369.00 (0125)	184.50
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Mild steel round bar 12 mm dia and below	quintel	0.02	5860.00 (1002)	117.20
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Cutting threads and cost of nuts, washers, etc.	L.S.	67.34	2.12 (9999)	142.76
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Mortar for pointing 1:2 (1 Cement : 2 Stone dust)				
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Rate as per Item Number 3.12 of SH: Mortars	Cum	0.009	3638.00 (3.12)	32.74
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Pigment	L.S.	6.24	2.12 (9999)	13.23
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Extra cost of white cement	L.S.	26.91	2.12 (9999)	57.05
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LABOUR

Mason (for plain stone work) 2nd class)	day	1	369.00 (0125)	369.00
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Beldar	day	1.5	306.00 (0114)	459.00
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Scaffolding and sundries etc.	L.S.	16.12	2.12 (9999)	34.17
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Brick cover support 4 courses with bricks of class designation 7.5				
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4x7+5+5=38cm girth 2.5m length =38cmx2.5m=95cm				
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Cost of Brick cover support.	L.S.	104	2.12 (9999)	220.48
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Brick work in triangular gap above cover with bricks of class designation 7.5 in cement mortar 1:4				
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1/2x2.5x0.2x0.07=0.018cum.				
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Rate as per item No 6.4.1 of SH :- Brick work.	cum	0.018	5017.90 (6.1.12A)	90.32 A
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TOTAL				2444.82 W
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Add 1 % Water charges on "W-A"				23.55
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TOTAL				2468.37 X
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Add GST on "X-A" (multiplying factor 0.1405)				334.12
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TOTAL				2802.49 Y
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Add 15% CPOH on "Y-A"				406.82
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TOTAL				3209.31 Z
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Add Cess @ 1% on "Z-A"				31.19
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## BCD Analysis of Rates 2022

Item No.	Description	Unit	Qty	Rate	Rate Code.	Cost Rs.
	Cost of 2 sqm.					3240.50
	Cost of 1 sqm.					1620.25

Say Rs. 1620.20 per sqm

**7.29 Providing and fixing horizontal chajja of stone 40 mm thick and upto 80 cm projection in cement mortar 1:4 ( 1 cement: 4 coarse sand ) including ' pointing in white cement mortar 1:2 (1 white cement: 2 stone dust) with an admixture of pigment matching the stone shade.**

**7.29.1 Red sand stone**

Details of cost for 2.5x 0.75 m = ) 1.875 sqm

Taking 2.6x 75 cm projection + 15 cm bearing =

2.5mx0.9 = 2.25 sqm

Cost of stone	sqm	2.250	230.000	(1164)	517.50
Carriage @ 2.3 kg/cudm	tonne	0.227	145.720	(2216)	33.08
Labour for dressing :					
Mason (2nd class for stone work	per day	0.450	369.000	(0125)	166.05
Mortar for pointing 1:2	1 time	53.820	2.120	(9999)	114.10
Pigment	1 time	6.240	2.120	(9999)	13.23
Extra cost of white cement	1 time	26.910	2.120	(9999)	57.05
Labour Mason ( 2nd class )	per day	0.600	369.000	(0125)	221.40
Beldar	per day	0.800	306.000	(0114)	244.80
Scaffolding and sundries	1 time	13.520	2.120	(9999)	28.66
Total					1395.87
Add for water charges @ 1 %					13.96
Total					1409.83 (X)
Add GST 12% on "X"( multiplying factor 0.1405)					198.08
Total					1607.91 (Y)
Add for contractor's profit and over-heads @ 15% on "Y"					241.19
Cost of 1.875 sqm					1849.09
Cost of 1 sqm					986.18
Add labour cess @ 1%					9.86
Rate including labour cess					996.04

Say Rs. 996.00 per sqm

**7.29.2 White sand stone**

Details of cost for (2.5x0.75m) 1.875 sqm.

**MATERIAL**

Taking 2.5mx75cm projection +

15cm bearing = 2.5x0.9 = 2.25 sqm.

White sand stone slab 40 mm thick (un-dressed)

sqm	2.25	250.00	(1165)	562.50
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Carriage of Stone blocks white & red sand stone & kota stone slab @ 2.3kg/cudm.	tonne	0.227	145.72	(2216)	33.08
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Labour for dressing:

Mason (for plain stone work) 2nd class)	day	0.45	369.00	(0125)	166.05
Mortar for pointing 1:2	L.S.	53.82	2.12	(9999)	114.10
Pigment	L.S.	6.24	2.12	(9999)	13.23
Extra cost of white cement	L.S.	26.91	2.12	(9999)	57.05

LABOUR

Mason (for plain stone work) 2nd class)	day	0.60	369.00	(0125)	221.40
Beldar	day	0.80	306.00	(0114)	244.80

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## BCD Analysis of Rates 2022

Item No.	Description	Unit	Qty	Rate	Rate Code.	Cost Rs.
	Scaffolding and sundries etc.	L.S.	13.52	2.12	(9999)	28.66
	TOTAL					1440.87
	Add 1 % Water charges					14.41
	TOTAL					1455.28 (X)
	Add GST 12% on "X"( multiplying factor 0.1405)					204.47
	Total					1659.74 (Y)
	Add 15 % Contractor's profit and overheads on "Y"					248.96
	Cost of 1.875 sqm.					1908.70
	Cost of 1 sqm.					1017.98
	Add labour cess @ 1%					10.18
	Rate including labour cess					1028.16
						Say Rs. 1028.200 per sqm

**7.30 30 mm red sand stone sun-shade (chisel-dressed) supported on red sand stone brackets, fixed in walls with cement mortar 1:4 (1 cement :4 coarse sand ) including finishing complete.**

Details of cost for window 1 ;6

length and 0.70 mm width = 1.12 sqm

Materials:

Red stone slab (chisel dressed ) 30 mm average

thickness overall width 0.70 + 0.15 = 0.85 metres

Total area = 1.6 x 0.85 = 1.36 sqm

Red stone brackets (chisel dressed) 30 mm

average thickness over all width of brackets

0.53+0.23=0.76 m

2x0.3x0.76 =0.46

Total 1.36+0.46 = 1.82 sqm

Add wastage @ 10 % = 0.18 sqm

Total =2.00 sqm

Cement mortar 1:4

Labour

Stone mason (plain) 2nd class

Beldar

Add for water charges @ 1 % except on (B)

Total except B

Add GST 12% on "X"( multiplying factor 0.1405)

Total

Add for contractor's profit and overhead @ 15 % except on (B)

Cost of 1.12 sqm

Cost of 1 sqm

Add labour cess @ 1%

Rate including labour cess

Say Rs. 1218.400 per sqm

**7.31 Providing and fixing red sand stone brackets 55x22.5x45 cm sunk and moulded including providing and fixing with 4 Nos. gun metal cramp 25x6 mm. 30 cm long and dowel bars 7.5 cm long 6 mm dia as per design .**

Details of cost for 1 bracket

Quantity of stone for 1 bracket

1x55x22.5x45 cm =0.056 cum or 56 cum

Red sand stone =56 cudm

Add wastage 10 % = 5.6 cudm

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## BCD Analysis of Rates 2022

Item No.	Description	Unit	Qty	Rate	Rate Code.	Cost Rs.
	Total =61.6 cum	10 cum	6.160	80.000	(1160)	492.80
	Carriage		0.140	145.720	(2216)	20.40
	Dressing charges as per item No. (A2)	cum	6.160	144.600	(A7.2)	890.74
	Cost of gun metal cramps 25x6 mm x 30 cm long each		4.000	80.000	(0373)	320.00
	Fixing charges as per item (A7)	cum	5.600	69.800	(A7.7)	390.88
	Extra labour for ornamental finish : Stone mason (Ornamental)	per day	0.950	413.000	(0126)	392.35
	Total					2507.17
	Add for water charges @ 1 %					25.07
	Total					2532.24 (X)
	Add GST 12% on "X"( multiplying factor 0.1405)					355.78
	Total					2888.02 (Y)
	Add for contractor's profit and over-heads @ 15% on "Y"					433.20
	Cost of 1 bracket					3321.22
	Add labour cess @ 1%					33.21
	Rate including labour cess					3354.43

Say Rs. 3354.40 per sqm

**7.32 Stone work , plain in copings , cornices, string courses and plinth courses, in cement mortar 1: 6 (1 cement: 6 coarse sand ) including pointing with white cement mortar 1:2 (1 white cement: 2 stone dust) with an admixture of pigment matching the stone shade .**

**7.32.1 Red sand stone**

Details of cost for cornices ( 30 cm long 30 cm deep and 7.5 cm project -ion )= 6.75 cum.

Materials:

Stone work plain ashlar cyclopean 3x3x0.75 = 6.75 cum.

	cum	0.007	33836.22	(7.12.1)	228.39
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(Rate as per item no. 7.12.1)

Cement mortar

Extra for using white cement

Extra labour for making the cornices

	1 time	5.330	2.12	(9999)	11.30 (A)
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Stone mason ( 2nd class )

	per day	0.070	369.00	(0125)	25.83 (A)
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Beldar

	per day	0.070	306.00	(0114)	21.42 (A)
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Add for water charges @ 1% on 'A'

0.59 (B)

total(A+B)

59.14

Add GST 12% on "X"( multiplying factor 0.1405)

8.31

Total

67.44 (Y)

Add for contractor's profit and overheads @ 15% on "Y"

10.12

total

77.56

Cost of 0.00675 cum

305.95

Cost of 1-cum

45326.61

Add labour cess @ 1%

453.27

Rate including labour cess

45779.88

Say Rs. 45779.90 per cum

**7.32.2 White sand stone**

Materials:

Stone work plain ashlar cyclopean

	cum	0.007	55282.434	(7.12.2)	373.16
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Quantity same as in item no. 7.32.1

(Rate as per item No. 7.12.2 )

Extra for using white cement

	1 time	5.330	2.120	(9999)	11.30 (A)
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Extra labour for making the cornices:

Stone mason (2nd class )

	per day	0.070	369.000	(0125)	25.83 (A)
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Beldar

	per day	0.070	306.000	(0114)	21.42 (A)
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Add for water charges @ 1 % on 'A'

0.59 (B)

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## BCD Analysis of Rates 2022

Item No.	Description	Unit	Qty	Rate	Rate Code.	Cost Rs.
						59.14
	Add GST 12% on "X"( multiplying factor 0.1405)					8.31
	Total					67.44
	Add for contractor's profit and overheads @ 15% (A+B)					10.12
	Cost of 0.00675 cum					77.56
	Cost of 1 cum					450.72
	Add labour cess @ 1%					66772.82
	Rate including labour cess					667.73
						67440.55
						Say Rs. 67440.60 per cum

### Analysis of 7.33 Part-A only

30mm thick red sand stone shelves fixed walls in C.M 1:3 including finishing complete

Cost for 1 sqm of stone slab 30mm thick-

Materials:

Finished work = 1.00sqm

Add 10 % wastage = 0.10 sqm

Total = 1.10 sqm

sand stone slab 30 mm	sqm	1.100	220.000	(1166)	242.00 (A)
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Carriage of stone	tonne	0.076	145.720	(2216)	11.07 (A)
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**Labour:**

For making , dressing and fixing - Mason (plain ) 2nd class	per day	0.200	369.000	(0125)	73.80 (A)
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Add for water charges @ 1 %					3.27 (A)
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Total					330.14
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Add GST 12% on "X"( multiplying factor 0.1405)					46.39
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Total					376.53
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Add for contractor's profit and over-heads @ 15%					56.48 (A)
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Total					433.01
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**7.33 Providing and fixing stone jali 40 mm thick throughtout(without sunking or moulding in jali slab ) in cement mortar 1:3(1 cement: 3 coarse sand ) including pointing in white cement mortar 1:2 (1 white cement: 2 stone dust) with an admixture of pigment, matching the store shade, jali slab without any chamfers etc.**

**7.33.1 Red sand stone Details of cost for 1 sqm -**

Materials:

Red sand stone slab 40 mm = 1.00 sqm

Add 10 % wastage = 0.10 sqm

Total = 1.10 sqm

Red sand stone slab 40 mm	sqm	1.100	230.000	(1164)	253.00
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Carriage of stone	tonne	0.101	145.720	(2216)	14.72
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**Labour:**

For making , dressing and fixing - Mason (plain ) 2nd class	per day	12.700	369.000	(0125)	4686.30 (A)
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Beldar	per day	8.450	306.000	(0114)	2585.70 (A)
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Mortar and Sundries	1 time	80.730	2.120	(9999)	171.15 (A)
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Total					7710.87
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Add for water charges @ 1 %					77.11
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Total					7787.97 (X)
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Add GST 12% on "X"( multiplying factor 0.1405)					1094.21
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## BCD Analysis of Rates 2022

Item No.	Description	Unit	Qty	Rate	Rate Code.	Cost Rs.
	Total					8882.18 (Y)
	Add for contractor's profit and over-heads @ 15% on "Y"					1332.33
	Cost of 1 sqm					10214.51
	Add labour cess @ 1%					102.15
	Rate including labour cess					10316.66
						Say Rs. 10316.70 per sqm

### 7.33.2 White sand stone Details of cost for 1 sqm

Materials:						
	White sand stone 40 mm = 1.00 sqm					
	Add 10 % wastage = 0.10 sqm					
	Total = 1.10 sqm					
	White sand stone 40 mm	sqm	1.100	250.000	(1165)	275.00
	Carriage of stone	tonne	0.101	145.720	(2216)	14.72
Labour:						
	For making dressing and fixing same as for item No. 7.38.1 as maked 'A'	sqm	1.000	7443.148	(7.38.1-A)	7443.15
	Add for water charges @ 1%					77.33
	Total					7810.19 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)					1097.33
	Total					8907.53 (Y)
	Add for contractor's profit and over-heads @ 15% on "Y"					1336.13
	Cost of 1 sqm					10243.66
	Add labour cess @ 1%					102.44
	Rate including labour cess					10346.10
						Say Rs. 10346.10 per sqm

### 7.34 Extra for laying stone work in or under water and/or liquid mud including cost of pumping or bailing out water and removing slush etc. complete.

**NOTE :-** The quantity will be calculated by multiplying the depth measured from sub-soil water level up to the centre of gravity of stone work under sub - water with the quantity of stone work in cum executed under the sub-soil water. The depth of centre of gravity shall be reckoned correct to 0.1 m, 0.05 m or more shall be taken as 0.1 m and less than 0.05 m ignored.

Details of cost for depth of water 0.30m.

Quantity of concrete = 14 cum.

pumping hours = 3 hrs. on 0.375day.

Hire charges of Pumpset of capacity 4000 litres/hour.	day	0.375	700.00 (0011)	262.50
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for cleaning slush

Beldar	day	4.000	306.00 (0114)	1224.00
TOTAL				1486.50 W

Add 1 % Water charges on "W"

TOTAL				1501.37 X
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Add GST on "X" (multiplying factor 0.1405)

TOTAL				210.94
				1712.31 Y

Add 15% CPOH on "Y"

TOTAL				256.85
				1969.15 Z

Add Cess @ 1% on "Z"

Cost of 14cum. per 0.30 m depth				19.69
Cost of cum. per m depth				1988.84
Say				473.53

Say

Say Rs. 473.50 per cum


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## BCD Analysis of Rates 2022

Item No.	Description	Unit	Qty	Rate	Rate Code.	Cost Rs.
7.35	<b>Extra for laying stone work in or under foul position.</b>					
	Details of cost for 1 cum.					
	Extra labour due to slow progress-					
	Mason (brick layer) 1st class	day	0.020	413.00	(0123)	8.26
	Mason (brick layer) 2nd class	day	0.020	369.00	(0124)	7.38
	Beldar	day	0.250	306.00	(0114)	76.50
	Coolie	day	0.150	318.00	(0115)	47.70
	TOTAL					139.84 W
	Add 1 % Water charges on "W"					1.40
	TOTAL					141.24 X
	Add GST on "X" (multiplying factor 0.1405)					19.84
	TOTAL					161.08 Y
	Add 15% CPOH on "Y"					24.16
	TOTAL					185.24 Z
	Add Cess @ 1% on "Z"					1.85
	Cost for 1 cum.					187.10
	Say					Say Rs. 187.10 per cum
7.36	<b>Wall lining butch work up to 10.0m with Dholpur stone 40 mm thick rough taching on the exposed surface with stone strips of minimum length 300 mm and required with including embedding every lenth layer and bottom most layer in masonry or concrete after making necessary chases of size 75 x 75 mm and by providing layer or 75 mm thick strips i/c .12 mm thick bed of cement mortar 1:3 (1 cement: 3 coarse sand ) i/c ruled pointing in cement mortar 1:2 (1 white cement; 2 stone dust) with an admixture of pigment to match the shade of stone complete as per direction of Enginneer-incharge.</b>					
	Details of cost for 1 sqm					
	Dholpur stone 40 mm thick					
	Wail face		= 1.00	sqm		
	Deduct for embedded					
	Portion 3x0.04x1.0		=0.12	sqm		
			0.88	sqm		
	Add wastage 5 %		- 0.04	sqm		
	Total		= 0.92	sqm	250.000 (1165)	230.00
	75 mm thick 3x0.04x1.0		=0.12	sqm		
	Add wastage 5%		= 0.01	sqm		
	Total		=0.13	sqm	800.000 (1163)	104.00
	Carriage of stone					
	0.92x0.04		= 0.0368	cum		
	0.13x0.075		=0.0100	cum		
			= 0.0468	cum or 468	cudm	
	468 cudm @ 2.3 kg / cudm		= 108 kg	tonne	145.720 (2216)	15.74
	Cutting strips of stone and giving rough finish					
	assuming 50 mm thick strips 20x1.0 = 20 metre	metre	20.000	10.00	(1237)	200.00
	Mortar with coarse sand C.M(1:3) for					
	(a) stone backing 12 mm thick		=0.0144	cum		
	(b) For fixing of stone		= 0.40/25 = 0.0160	cum		
	Total		= 0.0304	cum cum	2848.955 (2112)	86.61
	Cutting chases and making good with mortar after inserting stone etc.					
			3.000	115.700	(18.79)	347.10 (A)
	(Rate as per item no, 18.79 of SH miscellaneous)					
	White cement and pigment for pointing	1 time	40.430	2.120	(9999)	85.71
	Labour:					
	Mason 1st class	per day	0.250	413.000	(0126)	103.25

## BCD Analysis of Rates 2022

Item No.	Description	Unit	Qty	Rate	Rate Code.	Cost Rs.
	Mason 2nd class	per day	0.250	369.000	(0125)	92.25
	Beldar	per day	0.500	306.000	(0114)	153.00
	Bhisti	per day	0.030	332.000	(0101)	9.96
	Sundries and scaffolding brushes etc.	1 time	26.910	2.120	(9999)	57.05
						1137.57
	Add for water charges @ 1% on all except 'A'					11.38
						1148.94
	Add GST 12% on "X" (multiplying factor 0.1405)					161.43
	Total					1310.37 (Y)
	Add for contractor's profit and overheads @ 15 % on all except 'A'					196.56
	Cost of 1 sqm					1506.92
	Add labour cess @ 1%					1854.02
	Rate including labour cess					18.54
						1872.56
						1872.60
						Say Rs. 1872.60 per sqm
7.37	Stone work ( machine cut edges veneer work) for wall lining upto 10 m height, backing filled with a grout of 12 mm thick cement mortar 1:3 (1 Cement : 3 coarse sand) and jointed with Cement mortar 1:2 (1 cement : 2 stone dust), including rubbing and polishing complete. (To be secured to the backing and the sides by means of cramps and pins which shall be paid for separately)					
7.37.1	Kota stone slabs exposed face dressed and rubbed.					
	Details of cost for 10 sqm					
7.37.1.1	25 mm thick					
	Materials:					
	25 mm thick_kota. stone					
	Slabs rough chiselied	=10 sqm				
	Add 15 % wastage	= 1.50 sqm				
	Total	= 11.50 sqm	sqm	11.500	250.000 (1169)	2875.00
	Carriage		tonne	0.670	145.720 (2216)	97.63
	Cement mortar 1:3		cum	0.144	2848.955 (2112)	410.25
	Cement for slurry @ 3.30 kg / sqm		tonne	0.064	4408.000 (0367)	282.11
	Carriage of cement		tonne	0.064	145.720 (2209)	9.33
	Pigment @ 3.50 kg per 50 kg of cement					
	64x3.5 /50 =4.50 kg		kilogram	4.500	70.000 (0874)	315.00
	Labour:					
	Mason 2nd class		per day	6.500	369.000 (0125)	2398.50
	Beldar		per day	6.500	306.000 (0114)	1989.00
	Coolie		per day	4.300	318.000 (0115)	1367.40
	Beldar for rubbing and polising (special rate )		per day	10.800	369.000 (0139)	3985.20
	Sundries		1 time	111.540	2.120 (9999)	236.46
	Total					13965.88
	Add for water charges @ 1 %					139.66
	Total					14105.54 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)					1981.83
	Total					16087.37 (Y)
	Add for contractor's profit and over-heads @ 15% on "Y"					2413.11
	Cost of 10 sqm					18500.48
	Cost of 1 sqm					1850.05
	Add labour cess @ 1%					18.50
	Rate including labour cess					1868.55
						Say Rs. 1868.50 per sqm


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Item No.	Description	Unit	Qty	Rate	Rate Code.	Cost Rs.
<b>7.37.1.A Dressing of sand stone in veneer work</b>						
	Details of cost for 1 sqm					
	Material and labour as per item 7.37.1.1	sqm	1.000	1850.048	7.37.1.1	1850.05
	Labour:					
	Stone Mason (Plain work )	per day	1.350	369.000	(0125)	498.15
	Blacksmith 1st class	per day	0.032	413.000	(0123)	13.22
	Beldar	per day	0.224	306.000	(0114)	68.54
	Coolie	per day	0.112	318.000	(0115)	35.62
	Bandhani	per day	0.224	325.000	(0100)	72.80
	Cost of 1 sqm-					2538.37
	Add labour cess @ 1%					25.38
	Rate including labour cess					2563.75
				<b>Say Rs. 2563.80</b>	per sqm	
<b>7.37.1.B Dressing of sand stone in ashlar punched (ordinary work )</b>						
	Details of cost for 10 cudm (0.4 sqm )					
	Material and labour as per item 7.37.1.1	sqm	1.000	1850.048	7.37.1.1	1850.05
	Labour:					
	Stone mason (plain work )	per day	0.050	369.000	(0125)	18.45
	Blacksmith 1st class	per day	0.006	413.000	(0123)	2.48
	Beldar	per day	0.044	306.000	(0114)	13.46
	Coolie	per day	0.022	318.000	(0115)	7.00
	Bandhani	per day	0.044	325.000	(0100)	14.30
	Cost of 0.4 sqm					1905.74
	Difference in rate for dressing veneer work and ordinary work = Rough chiselled work (P)-(Q) =					
	Rate for 25 mm thick kota stone slabs rough chiselled = (code No. 1168 x R) = code No. 1169					
	Add labour cess @ 1%					19.06
	Rate including labour cess					1924.80
				<b>Say Rs. 1924.80</b>	per sqm	
<b>7.38</b>	<b>Stone tile work for wall lining upto 10.0m height with special adhesive like araldite or equivalent over 12 mm thick bed of cement mortar 1:3 (1 cement: 3 coarse sand ) including pointing in-white cement with an admixture of pigment to match the stone shade .</b>					
<b>7.38.1</b>	<b>8 mm thick (mirror polished and machine cut edge)</b>					
<b>7.38.1.1</b>	<b>Granite black stone</b>					
	Details of cost for 10 sqm					
	Materials:					
	8 mm thick granite stone tile = 10.00 sqm					
	Add 2.5 % wastage = 0.25 sqm					
	Total = 10.25 sqm	sqm	10.250	690.000	(2750)	7072.50
	Carriage of granite tiles	1 time	40.040	2.120	(9999)	84.88
	Cement mortar 1:3	cum	0.140	2848.955	(2112)	398.85
	Cement slurry @ 3.3 kg/sqm	tonne	0.033	4408.000	(0367)	145.46
	Mortar for pointing in white cement	1 time	25.740	2.120	(9999)	54.57
	Labour for placing and fixing :					
	Mason 1st class	per day	7.700	413.000	(0123)	3180.10
	Beldar	per day	7.700	306.000	(0114)	2356.20
	Granular sand proticles mixed with araldite to be pasted on each side to form interlocking arrangement with cement plaster	1 time	260.000	2.120	(9999)	551.20
	Sundries	1 time	171.600	2.120	(9999)	363.79

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Item No.	Description	Unit	Qty	Rate	Rate Code.	Cost Rs.
	Total					14207.56
	Add for water charges @ 1 %					142.08
	Total					14349.64 (X)
	Add GST 12% on "X"( multiplying factor 0.1405)					2016.12
	Total					16365.76 (Y)
	Add for contractor's profit and over-heads @ 15% on "Y"					2454.86
	Cost of 10 sqm					18820.63
	Cost of 1 sqm					1882.06
	(Analysis of these items is same as per item no. 7.43.1.1 except code nos. for respective stone )					
	Add labour cess @ 1%					18.82
	Rate including labour cess					1900.88

Say Rs. 1900.90 per sqm

### 7.38.1.2 Raj Nagar plain white marble / Udaipur green marble / Zebra black marble Granite black stone

Details of cost for 10 sqm

Materials:

8 mm thick Raj Nagar white stone tiles(mirror polished tiles machine cut edge) = 10.00 sqm

Add 2.5 % wastage = 0.25 sqm

Total = 10.25 sqm

Carriage of Raj Nagar white stone tiles	1 time	40.040	2.120	(9999)	84.88
Cement mortar 1:3	cum	0.140	2848.955	(2112)	398.85
Cement slurry @ 3.3 kg/sqm	tonne	0.033	4408.000	(0367)	145.46
Mortar for pointing in white cement	1 time	25.740	2.120	(9999)	54.57

**Labour for placing and fixing :**

Mason 1st class	per day	7.700	413.000	(0123)	3180.10
Beldar	per day	7.700	306.000	(0114)	2356.20

Granular sand proticles mixed with araldite to be pasted on each side to form interlocking

arrangement with cement plaster	1 time	260.000	2.120	(9999)	551.20
Sundries	1 time	171.600	2.120	(9999)	363.79

Total 11747.56

Add for water charges @ 1 % 117.48

Total 11865.04 (X)

Add GST 12% on "X"( multiplying factor 0.1405) 1667.04

Total 13532.08 (Y)

Add for contractor's profit and over-heads @ 15% on "Y" 2029.81

Cost of 10 sqm 15561.89

Cost of 1 sqm 1556.19

Add labour cess @ 1% 15.56

Rate including labour cess 1571.75

Say Rs. 1571.70 per sqm

### 7.39 Extra for stone work for wall lining on exterior walls of height more than 10 m from ground level for every additional height of 3 m or part there of.

Details of cost for 10 sqm

Analysis same as Item Number 13.74



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Item No.	Description	Unit	Qty	Rate	Rate Code.	Cost Rs.
MATERIAL:						
	Scaffolding	L.S.	215.28	2.120	9999	456.39
	Mason (brick layer) 1 st class	day	0.30	413.000	0123	123.90
	Beldar	day	0.30	306.000	0114	91.80
	Bhisti	day	0.15	332.00	0101	49.80
	Sundries	L.S.	28.60	2.120	9999	60.63
	TOTAL					782.53
	Add Water Charges @ 1%					7.83
	TOTAL					790.35 (X)
	Add GST 12% on "X"( multiplying factor 0.1405)					111.04
	Total					901.40 (Y)
	Add for contractor's profit and over-heads @ 15% on "Y"					135.21
	Cost of 10 sqm					1036.60
	Cost of 1 sqm					103.66
	Add labour cess @ 1%					1.04
	Rate including labour cess					104.70
	Say Rs.					104.70 per sqm

**7.40 Providing and fixing dry cladding upto 10 metre heights with 30 mm thick gang saw cut stone with (machine cut edges) of uniform colour and size upto 1mx1m, fixed to structural steel frame work and / or with the help of cramps, pins etc. and sealing the joints with approved weather sealant as per Architectural drawing and direction of Engineer-in-Charge. (The steel frame work, stainless steel cramps and pins etc. shall be paid for separately.)**

**7.40.1 Red sand stone**

Details of cost for 3 sqm

**MATERIAL:**

Red sand stone = 3 x 1.00 sqm = 3.00 sqm

Add wastage 25% = 0.75 sqm

Total=3.75 sqm

Add 20% wastage infixing due to broken

edge = 0.60 sqm

Total = 4.35 sqm

Red sand stone gang saw cut 30 mm thick	sqm	4.35	476.00	8683	2070.60
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Cutting marble or sand stone slab up to 50 mm thick by mechanical device	metre	10.00	10.00	1237	100.00
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Carriage of stone blocks white & red sand stone & kota stone slab @ 2.30kg/cudm	tonne	0.22	145.72	2216	31.33
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Backing rod	L.S.	30.68	2.12	9999	65.04
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Fixing including weather sealant and removing	L.S.	153.40	2.12	9999	325.21
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Double scaffolding	L.S.	204.75	2.12	9999	434.07
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Mason (for ornamental stone work) 1 st class	day	2.00	413.00	0126	826.00
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Beldar	day	4.00	306.00	0114	1224.00
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**Labour for lifting stone**

Beldar	day	1.00	306.00	0114	306.00
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Silicon gun / pump etc.	L.S.	204.75	2.12	9999	434.07
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**Labour for sealing**

Fitter (grade 1) -	day	0.25	420.00	0116	105.00
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Beldar	day	0.50	306.00	0114	153.00
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Sundries	L.S.	204.75	2.12	9999	434.07
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Rubbing and polishing vertical surface of stone cladding	L.S.	51.22	2.12	9999	108.59
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## BCD Analysis of Rates 2022

Item No.	Description	Unit	Qty	Rate	Rate Code.	Cost Rs.
	TOTAL					6421.81
	Add Water Charges @ 1%					66.17
	TOTAL					6683.15 (X)
	Add GST 12% on "X"( multiplying factor 0.1405)					938.98
	Total					7622.13 (Y)
	Add for contractor's profit and over-heads @ 15% on "Y"					1143.32
	Cost of 3.0 sqm					8765.45
	Cost of 1 sqm					2921.82
	Add labour cess @ 1%					29.22
	Rate including labour cess					2951.04
						<b>Say Rs. 2951.00 per sqm</b>
<b>7.40.2</b>	<b>White sand stone</b>					
	<b>Details of cost for 3 sqm</b>					
	<b>MATERIAL:</b>					
	White sand stone = 3 x 1.00 sqm = 3.00 sqm					
	Add wastage 25% = 0.75 sqm					
	Total=3.75 sqm					
	Add 20% wastage infixing due to broken edge = 0.60 sqm					
	Total = 4.35 sqm					
	White sand stone gang saw cut 30 mm thick	sqm	4.35	560.00	8684	2436.00
	Cutting marble or sand stone slab up to 50 mm thick by mechanical device	metre	10.00	10.00	1237	100.00
	Carriage of stone blocks white & red sand stone & kota stone slab @ 2.30kg/cudm	tonne	0.22	145.72	2216	31.33
	Backing rod	L.S.	30.68	2.12	9999	65.04
	Fixing including weather sealant and removing	L.S.	153.40	2.12	9999	325.21
	Double scaffolding	L.S.	204.75	2.12	9999	434.07
	Mason (for ornamental stone work) 1 st class	day	2.00	413.00	0126	826.00
	Beldar	day	4.00	306.00	0114	1224.00
	<b>Labour for lifting stone</b>					
	Beldar	day	1.00	306.00	0114	306.00
	Silicon gun / pump etc.	L.S.	204.75	2.12	9999	434.07
	<b>Labour for sealing</b>					
	Fitter (grade 1)	day	0.25	420.00	0116	105.00
	Beldar	day	0.50	306.00	0114	153.00
	Sundries	L.S.	204.75	2.12	9999	434.07
	Rubbing and polishing vertical surface of stone cladding	L.S.	51.22	2.12	9999	108.59
	TOTAL					6982.38
	Add Water Charges @ 1%					69.82
	TOTAL					7052.20 (X)
	Add GST 12% on "X"( multiplying factor 0.1405)					990.83
	Total					8043.03 (Y)
	Add for contractor's profit and over-heads @ 15% on "Y"					1206.46
	Cost of 3.0 sqm					9249.49
	Cost of 1 sqm					3083.16
	Add labour cess @ 1%					30.83
	Rate including labour cess					3113.99
						<b>Say Rs. 3114.00 per sqm</b>


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Item No.	Description	Unit	Qty	Rate	Rate Code.	Cost Rs.
7.41	Providing and fixing structural steel frame (for dry cladding with 30 mm thick gang saw cut with machine cut edges sand stone) on walls at all heights using M.S. square / rectangular tube in the required pattern as per architectural drawing, including cost of cutting, bonding, welding etc. The frame work shall be fixed to the wall with the help of MS brackets / lugs of angle iron / flats etc. which shall be welded to the frame and embedded in brick wall with cement concrete block 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) of size 300x230x300 mm, including cost of necessary centring and shuttering and with approved expansion hold fasteners on CC/RCC surface, including drilling necessary holes. Approved cramps / pins etc. shall be welded to the frame work to support stone cladding, the steel work will be given a priming coat of Zinc primer as approved by Engineer-in-Charge and painted with two or more coats of epoxy paint (Shop drawings shall be submitted by the contractor to the Engineer-in-Charge for approval before execution). The frame work shall be fixed in true horizontal & vertical lines/planes. (Only structural steel frame work shall be measured for the purpose of payment, stainless steel cramps shall be paid for separately and nothing extra shall be paid.)					
	<b>Details of cost for 100.78 kg</b>					
	M.S. tube 50x25x1.8mm vertical=4x3.0=12.00m. Vertical=3x4x0.93=11.16m Total= 23.16m. Add 10% wastage = 2.32 Total 25.48 mts @2.02 kg/m=51.47 kg					
	Mild steel tubes hot finished welded type	kilogram	51.47	60.00	4009	3088.20
	Angle iron 50x50x6mm 16x0.60=9.60 16x0.15=2.40 Total= 12.00 Add 10% wastage = 1.20m Total= 13.20m @4.50kg/m=59.4 kg or 0.594 q					
	Structural steel such as tees, angles channels and R.S. joists	quintal	0.594	4950.00	1007	2940.30
	Cement concrete 1:2:4= 16x0.30x0.23x0.30=0.331 cum Rate as per Item Number 4.1.3 of SH:					
	Concrete work	cum	0.331	3998.12	4.1.3	1323.38 A
	Making holes in brick work=16Nos					
	<b>LABOUR:</b>					
	Mason (brick layer) 1 st class	day	0.26	413.00	0123	107.38
	Mason (brick layer) 2nd class	day	0.26	369.00	0124	95.94
	Beldar	day	2	306.00	0114	612.00
	<b>Welding for frame welding</b>					
	16x(2.5+5+2.5+5) = 240 cm For hold fast 16x20cm = 320cm Total =560cm					
	Welding by electric plant	cm	560	2.00	1215	1120.00
	<b>LABOUR:</b>					
	Blacksmith 1 st class	day	1.34	413.00	0102	553.42
	Bandhani	day	0.67	325.00	0100	217.75
	Beldar	day	4.92	306.00	0114	1505.52
	Sundries	L.S.	80.73	2.12	9999	171.15
	Painting with epoxy paint over and including priming					

## BCD Analysis of Rates 2022

Item No.	Description	Unit	Qty	Rate	Rate Code.	Cost Rs.
	coat area 22.80x0.15 = 3.42 12x0.2=2.40 Total = 5.82sqm Rate as per Item Number 13.82B.1 of SH:					
	Finishing	sqm	5.82	119.33	13.82B.1	694.50 A
	For labour scaffolding etc.	L.S.	80.73	2.12	9999	171.15
	TOTAL					12600.69 (X)
	Add Water Charges @ 1% except on A i.e on (12600.69 -2017.88 =)					105.83
	TOTAL					12706.51
	Add GST 12% on "X" except "A"( multiplying factor 0.1405)					1501.75
	(12706.51 -2017.88 =)					14208.27 (Y)
	Add CPOH @ 15% except on A i.e on (14208.27 -2017.88 =)					1828.56
	Total					16036.82
	Cost of 100.78 kilogram					16036.82
	Cost of 1 kilogram					159.13
	Add labour cess @ 1%					1.59
	Rate including labour cess					160.72

Say Rs. 160.70 per Kg

**7.42 Providing and fixing adjustable stainless steel cramps of approved quality, required shape and size, adjustable with stainless steel nuts, bolts and washer (total weight not less than 260 gms), for dry stone cladding fixed on frame work at suitable location, including making necessary recesses in stone slab, drilling required holes etc complete as per direction of the Engineer-in-charge.**

Details of cost for 10 Nos

**MATERIAL:**

Stainless steel cramps(weight 260 grams) with nuts,	each	10.00	115.00	8698	1150.00
bolts and washer for dry stone cladding					

**LABOUR:**

for making holes, recesses etc. and fixing of stainless steel cramps					
Blacksmith 2nd class	day	0.10	369.00	0103	36.90
Mason (brick layer) 2nd class	day	1.00	369.00	0124	369.00
Beldar	day	1.10	306.00	0114	336.60
Scaffolding, hire charge of drill machine etc.	L.S.	20.80	2.12	9999	44.10
Sundries	L.S.	20.80	2.12	9999	44.10

TOTAL

Add Water Charges @ 1%

TOTAL

2000.50 (X)

281.07

Total

2281.57 (Y)

Add for contractor's profit and over-heads @

15% on "Y" 342.24

Cost of 10 nos 2623.80

Cost of each 262.38

Add labour cess @ 1% 2.62

Rate including labour cess 265.00

Say Rs. 265.00 Each

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