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**SUB HEAD : 11.0**  
**FLOORING**

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## BCD Analysis of Rates 2022

### BUILDING WORK 11.0 Flooring

Item No.	Description	Unit	Qty	Rate ₹	Rate Code.	Cost ₹
11.1	Brick on edge flooring with bricks of class designation 100A including cement slurry etc. complete in cement mortar.					
11.1.1	1:4 (1 cement: 4 coarse sand )					
	Details of cost for 10 sqm					
	Materials -					
	Bricks of class designation 100A	1000 nos.	0.565	4852.000	(2602)	2741.380
	Carriage of bricks	1000 nos.	0.565	0.000	(2201)	0.000
	Cement mortar 1:4 Rate as per item No 2113	cum	0.434	2256.971	(2113)	979.526
	Cement for slurry	tonne	0.020	4408.000	(0367)	88.160
	Carriage of cement	tonne	0.020	145.720	(2209)	2.914
	Labour -					
	Mason 2nd class	Per day	1.080	369.000	(0124)	398.520
	Beldar	per day	0.250	306.000	(0114)	76.500
	Coolie	per day	1.620	318.000	(0115)	515.160
	Bhisti	per day	0.270	332.000	(0101)	89.640
	Total					4891.800
	Add for water charges @ 1 %					48.918
	Total					4940.718 (X)
	Add GST 12% on "X"( multiplying factor 0.1405)					694.17
	Total					5634.89 (Y)
	Add for contractor's profit and overheads @ 15%					845.233
	Cost of 10 sqm					6480.122
	Cost of 1 sqm					648.012
	Add labour cess @ 1%					6.480
	Rate including labour cess					654.492
			Say	Rs.654.50	Per sqm	
11.1.2	1:6(1 cement:6 coarse sand)					
	Details of cost for 10 sqm					
	Materials-					
	Bricks of class designation 100A	thousand	0.565	4852.000	(2602)	2741.380
	Carriage of bricks	1000 nos.	0.565	0.000	(2201)	0.000
	Cement mortar 1:6	cum	0.431	1664.99	(2115)	717.610
	Cemant for slurry	tonne	0.020	4408.000	(0367)	88.160
	Carriage of cement	tonne	0.020	145.720	(2209)	2.914
	Labour-					
	Mason 2nd class	per day	1.080	369.000	(0124)	398.520
	Beldar for appllying slurry	per day	0.250	306.000	(0114)	76.500
	Coolie	per day	1.620	318.000	(0115)	515.160
	Bhisti	per day	0.270	332.000	(0101)	89.640
	Total					4629.884
	Add for water charges @ 1 %					46.299
	Total					4676.183 (X)
	Add GST 12% on "X"( multiplying factor 0.1405)					657.00
	Total					5333.19 (Y)
	Add for contractor's profit and overheads @ 15%"Y"					799.978
	Cost of 10 sqm					6133.165
	Cost of 1 sqm					613.316
	Add labour cess @ 1%					6.130


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Item No.	Description	Unit	Qty	Rate ₹	Rate Code.	Cost ₹
	Rate including labour cess					619.446
			Say	Rs.619.40	Per sqm	
11.3	<b>Cement concrete flooring 1: 2: 4 (1 cement:2 coarse:sand:4 graded stone aggregate) finished with a floating coat of neat cement including cement slurry, etc. but excluding the cost of nosing of steps etc. complete.</b>					
11.3.1	<b>40 mm thick with 20 mm nominal size stone aggregate</b>					
	Details of cost for 10 sqm					
	Materials-					
	20 mm ballast	cum	0.267	595.360	(0295)	158.961
	10 mm balast	cum	0.089	657.910	(0297)	58.554
	Carriage of ballast	cum	0.356	0.000	(2202)	0.000
	Coarse sand	cum	0.178	175.800	(0982)	31.292
	Carriage of sand	cum	0.178	0.000	(2203)	0.000
	Cement	tonne	0.170	4408.000	(0367)	749.360
	Carriage of cement	tonne	0.170	145.720	(2209)	24.772
	Labour-					
	Mason 2nd class	per day	0.800	369.000	(0124)	295.200
	Beldar	per day	1.400	306.000	(0114)	428.400
	Bhisti	per day	1.040	332.000	(0101)	345.280
	Mixer operator	per day	0.030	391.000	(0127;)	11.730
	Mixer	Per day	0.030	800.000	(0002)	24.000
	Sundries	1 time	15.550	2.120	(9999)	32.966
	Total					2160.516
	Add for water charges @ 1 %					21.605
	Total					2182.121 (X)
	Add GST 12% on "X"( multiplying factor 0.1405)					306.59
	Total					2488.71 (Y)
	Add for contractor's profit and overheads @ 15%					373.306
	Cost of 10 sqm					2862.015
	Cost of 1 sqm					286.202
	Add labour cess @ 1%					2.860
	Rate including labour cess					289.062
			Say	Rs.289.10	Per sqm	
11.4	<b>52 mm thick cement concrete flooring with concrete hardener topping under layer 40 mm thick cement concrete 1:2:4(1 cement:2 coarse sand:4 graded stone aggregate 20 mm nominal size) and top layer 12 mm thick cement hardener consisting of mix 1:2 (1 cement hardener mix:2 stone aggregate 6 mm nominal size) by volume hardening compound is mixed @ 2 liter per 50 kg of cement or as per manufactur's specification. This includes cost of cement slurry, etc. but excluding the cost of nosing of steps etc. complete.</b>					
	Details of cost for 10 sqm					
	Materials-					
	20 mm ballast	cum	0.267	595.360	(0295)	158.961
	10 mm ballast	cum	0.089	657.910	(0297)	58.554
	Carriage of ballast	cum	0.356	0.000	(2202)	0.000
	Coarse sand	cum	0.178	175.800	(0982)	31.292
	Carriage of coarse sand	cum	0.178	0.000	(2203)	0.000
	Stone aggregate 6mmp	cum	0.115	454.980	(0298)	52.323
	Carriage of stone aggregate	cum	0.115	0.000	(2202)	0.000
	Cement	tonne	0.211	4408.000	(0367)	930.088
	Cement for slurry	tonne	0.020	4408.000	(0367)	88.160

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Item No.	Description	Unit	Qty	Rate ₹	Rate Code.	Cost ₹
	Carriage of cement	tonne	0.231	145.720	(2209)	33.661
	Hardening compound	litre	2.440	36.000	(7254)	87.840
	Carriage of hardening compound	1 time	1.050	2.120	(9999)	2.226
	Labour-					
	Mason 2nd class	per day	2.150	369.000	(0124)	793.350
	Beldar	per day	1.600	306.000	(0114)	489.600
	Coolie	per day	1.880	318.000	(0115)	597.840
	Bhisti	per day	0.270	332.000	(0101)	89.640
	Sundries	1 time	53.820	2.120	(9999)	114.098
	Total					3527.634
	Add for water charges @ 1 %					35.276
	Total					3562.910 (X)
	Add GST 12% on "X"( multiplying factor 0.1405)					500.59
	Total					4063.50 (Y)
	Add for contractor's profit and overheads @ 15%					609.525
	Cost of 10 sqm					4673.024
	Cost of 1 sqm					467.302
	Add labour cess @ 1%					4.670
	Rate including labour cess					471.972
	Say			Rs.472.00	Per sqm	

**11.5** 62 mm thick cement concrete flooring with metallic -concrete hardener topping under layer 50 mm thick cement concrete 1:2:4(1 cement:2 coarse sand:4 graded stone aggregate 20 mm nominal size) and top layer 12mm thick metallic cement hardener consisting of mix 1:2(1 cement hardener mix:2 stone aggregate 6 mm nominal size) by volume hardning compound is mixed @ 2 liter per 50 kg of cement or as per manufacture specification. This includes cost of cement slurry, etc. but excluding the cost of nosing of steps etc. complete.

Details of cost for 10 sqm

Materials-

20 mm ballast	cum	0.334	595.360	(0295)	198.850
TO mm ballast	cum	0.111	657.910	(0297)	73.028
Carriage of tallest	cum	0.445	0.000	(2202)	0.000
Coarse sand	cum	0.222	175.800	(0982)	39.028
Carriage of sand	cum	0.222	0.000	(2203)	0.000
Stone aggregate 6 mm	cum	0.115	454.980	(0298)	52.323
Carriage of stone aggregate	cum	0.115	0.000	(2202)	0.000
Cement	tonne	0.243	4408.000	(0367)	1071.184
Cement for slurry	tonne	0.020	4408.000	(0367)	88.160
Carriage of cement	tonne	0.263	145.720	(2209)	38.324
Hardening compound	litre	2.440	36.000	(7254)	87.840
Carriage of metallic floor hardener	1 time	1.050	2.120	(9999)	2.226
Labour-					0.000
Mason 2nd class	per day	2.150	369.000	(0124)	793.350
Beldar	per day	1.860	306.000	(0114)	569.160
Coolie	per day	1.880	318.000	(0115)	597.840
Bhisti	per day	0.270	332.000	(0101)	89.653
Sundries	LS	53.820	2.120	(9999)	114.098
Total					3815.064
Add for water charges @ 1 %					38.151
Total					3853.215 (X)
Add GST 12% on "X"( multiplying factor 0.1405)					541.38
Total					4394.59 (Y)
Add for contractor's profit and overheads @ 15%					659.189
Cost of 10 sqm					5053.780
Cost of 1 sqm					505.378


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Item No.	Description	Unit	Qty	Rate ₹	Rate Code.	Cost ₹
	Add labour cess @ 1%					5.050
	Rate including labour cess					510.428
			Say	Rs.510.40	Per sqm	
<b>11.6</b>	<b>Cement plaster skirting (upto 30 cm height) with cement mortar 1:3(1 cement 1:3 coarse sand) finished with a floating coat of neat cement.</b>					
<b>11.6.1</b>	<b>18 mm thick</b>					
	Details of cost for 10 sqm					
	Materials-					
	Cement mortar 1:3 =0.205 cum					
	Add for rounding corners=0.030 cum					
	0.235 cum	cum	0.235	2848.955	(2112)	669.504
	Cement for finishing cost	tonne	0.020	4408.000	(0367)	88.160
	Carriage of cement	tonne	0.020	145.720	(2209)	2.914
	Labour-					
	Mason 2nd class	per day	1.880	369.000	(0124)	693.720
	Coolie	per day	1.880	318.000	(0115)	597.840
	Bhisti	per day	0.540	332.000	(0101)	179.280
	Sundries	LS	19.760	2.120	(9999)	41.891
	Total					2273.310
	Add for water charges @ 1%					22.733
	Total					2296.043 (X)
	Add GST 12% on "X"( multiplying factor 0.1405)					322.59
	Total					2618.64 (Y)
	Add for contractor's profit and overheads @ 15% on "Y"					392.796
	Cost of 10 sqm					3011.433
	Cost of 1 sqm					301.143
	Add labour cess @ 1%					3.010
	Rate including labour cess					304.153
			Say	Rs.304.15	Per sqm	
<b>11.7</b>	<b>Cement concrete pavement with 1:2:4(1 cement:2 coarse sand:4 graded stone aggregate 20 mm nominal size) including finishing complete.</b>					
	Details of cost for one cum					
	Materials-					
	Cement concrete 1:2:4(Rate as per item No. 4.6.3)	cum	1.000	5077.535	(4.2.3)	5077.535 (A)
	Extra labour for laying in floors tec.					
	Mason 2nd class	per day	0.350	369.000	(0124)	129.150
	Beidar	per day	0.180	306.000	(01 14)	55.080
	Bhisti	per day	0.050	332.000	(0101)	16.600
	Sundries	1 time	7.600	2.120	(9999)	16.112
	Total					5294.477
	Add for water charges @ 1% on all except A					2.169
	Total					5296.647 (X)
	Add GST 12% on "X" except "A" (multiplying factor 0.1405)					30.79
	Total					5327.43 (Y)
	Add for contractor's profit and overheads @ 15% on all except A					37.484
	Add labour cess @ 1%					5364.916
						53.650

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Item No.	Description	Unit	Qty	Rate ₹	Rate Code.	Cost ₹
	Rate including labour cess Cost of 1 cum		Say	Rs.5418.60	Per sqm	5418.566
<b>11.8</b>	<b>Extra for making chequers of approved pattern on cement concrete floors, steps landing, pavements etc.</b>					
	Details of cost for 10 sqm					
	Labour-					
	Mason 2nd class	per day	0.360	369.000	(0124)	132.840
	Beidar	per day	0.360	306.000	(01 14)	110.160
	Chequered plate etc.	1 time	13.520	2.120	(9999)	28.662
	Total					271.662
	Add for water charges @ 1 %					2.717
	Total					274.379 (X)
	Add GST 12% on "X"( multiplying factor 0.1405)					38.55
	Total					312.93 (Y)
	Add for contractor's profit and overheads @ 15% on "Y"					46.939
	Cost of 10 sqm					359.869
	Cost of 1 sqm					35.987
	Add labour cess @ 1%					0.360
	Rate including labour cess					36.347
			Say	Rs.36.30	Per sqm	
<b>I</b>	<b>TERRAZO FLOORING</b>					
<b>11.9</b>	<b>40 mm thick marble chips fiouring rubbed and polished to granolithic finish, under layer 34 mm thick cement concrete 1:2:4(1 cement:2 coarse sand:4 graded stone aggregate 12.5 mm nominal size) and top layer 6 mm thick with white, blacm, chocolate, grey, yellow or Baroda green marble chips of sizes form 1 mm to 4 mm nominal size laid in cement marble powder mix 3:1(3 cement: 1 marble powder) by weight in proportion of 4:7 (4 cement marble powder mix:7 marble chips) by volume including cement slurry e'c. complete.</b>					
<b>11.9.1</b>	<b>Dark shade pigment with ordinary cement</b>					
	Details of cost for 10 sqm					
	<b>Materials-</b>					
	For under layer of 34 mm thick					
	12.5 mm Stone aggregate	cum	0.227	686.050	(0296)	155.733 (X)
	10 mm Stone aggregate	cum	0.076	657.910	(0297)	50.001 (X)
	Carriage of stone aggregate	cum	0.303	0.000	(2202)	0.000 (X)
	Coarse sand	cum	0.151	175.800	(0982)	26.546 (X)
	Carriage of coarse sand	cum	0.151	0.000	(2203)	0.000 (X)
	Cement	tonne	0.109	4408.000	(0367)	480.472 (X)
	Cement for slurry	tonne	0.020	4408.000	(0367)	88.160 (X)
	Carriage of cement	tonne	0.129	145.720	(2209)	18.798 (X)
	For top layer 6 mm thick					
	Marble chips	quintal	0.872	158.437	(0785)	138.157 (H)
	Carriage of marble chips	cum	0.051	163.930	(2268)	8.360 (H)
	Cement	tonne	0.041	4408.000	(0367)	178.524 (H)
	Carriage of cement	tonne	0.041	145.720	(2209)	5.902 (H)
	Marble Powder	cum	0.007	189.000	(0784)	1.323 (H)
	Dark shade pigment @ 3.5 kg/50 kg of cement=40.5x3.5/50 = 2.84 kg	kilogram	2.840	48.000	(0874)	136.320 (H)
	Carriage of pigment& marble powder etc.	LS	3.640	2.120	(9999)	7.717 (H)
	<b>Labour-</b>					
	Mason 2nd class	per day	1.790	369.000	(0124)	660.510
	Beldar	per day	1.990	306.000	(0114)	608.940

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Item No.	Description	Unit	Qty	Rate ₹	Rate Code.	Cost ₹
	Bhisti	per day	1.040	332.000	(0101)	345.280
	Beldar for rubbing and polishing (Special Rate)	per day	1.000	369.000	(0139)	369.000
	Mixer operator	per day	0.030	391.000	(0127)	11.730
	Hire charges of Concrete Mixer 0.25 to 0.40 cum with Hopper	Per day	0.030	800.000	(0002)	24.000
	Machine for rubbing of floors	Per day	1.600	300.000	(0013)	480.000
	Sundries	LS	161.460	2.120	(9999)	342.295
	Total					4137.768
	Add for water charges @ 1%					41.378
	Total					4179.146 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)					587.17
	Total					4766.32 (Y)
	Add for contractor's profit and overheads @ 15% on "Y"					714.947
						5481.264
	Cost of 10 sqm					548.126
	Cost of 1 sqm					5.480
	Add labour cess @ 1%					553.606
	Rate including labour cess					
			Say	Rs.553.60	Per sqm	
<b>11.9.2</b>	<b>Light shade pigment with white cement</b>					
	Details of cost for 10 sqm					
	Cost same as per item No. 11.9.1	sqm	10.000	548.126	(11.9.1)	5481.264
	Add difference of cost due to using light shade pigment instead of dark shade pigment					
	Light shade-dark shade (Code 0875-Code 0874)	kilogram	2.840	-10.000	(0875-0874)	-28.400 (A)
	Difference of cost due to using white cement instead of grey cement (code 0368-code 0367)	ton	0.041	6792.000		275.076 (A)
	Total A					246.676
	Add for water charges @ 1 % on A					2.467 (B)
	Total A+B					249.143 (X)
	Add GST 12% on "X" (multiplying factor 0.1405) on A+B					35.00
	Total					284.15 (Y)
	Add for contractor's profit and overheads @ 15% on "Y"					42.622
						5808.033
	Cost of 10 sqm					580.803
	Cost of 1 sqm					5.810
	Add labour cess @ 1%					586.613
	Rate including labour cess					
			Say	Rs.586.60	Per sqm	
<b>11.9.3</b>	<b>Medium shade pigment with 50% white cement and 50% ordinary cement.</b>					
	Details of cost for 10 sqm					
	Cost same as per item No. 11.9.1	sqm	10.000	548.126	(11.9.1)	5481.264
	Add difference of cost due to using medium shade pigment instead of dark shade pigment (Code					

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Item No.	Description	Unit	Qty	Rate ₹	Rate Code.	Cost ₹
	0876-Code 0874)	kilogram	2.840	-14.000	(0876-0874)	-39.760 A)
	Difference of cost due to using 50% white cement instead of grey cement (code 0368-code 0367)	ton	0.020	6792.000		137.538 (A)
	Total A					97.778
	Add for water chargs @ 1% on A					0.978 (B)
	Total A+B					98.756 (X)
	Add GST 12% on "X"( multiplying factor 0.1405) on A+B					13.88
	Total					112.63 (Y)
	Add for contractor's profit and overheads @ 15% on "Y"					16.895
	Cost of 10 sqm					5610.789
	Cost of 1 sqm					561.079
	Add labour cess @ 1%					5.610
	Rate including labour cess					566.689
			Say	Rs.566.70	Per sqm	
11.9.4	<b>White cement without any pigment</b>					
	<b>Details of cost for 10 sqm</b>					
	<b>Materials-</b>					
	For under layer of 34 mm thick 12.5 mm Stone aggregate	cum	0.227	686.050	(0296)	155.733
	10 mm Stone aggregate	cum	0.076	657.910	(0297)	50.001
	Carriage of stone aggregate	cum	0.303	0.000	(2202)	0.000
	Coarse sand	cum	0.151	175.800	(0982)	26.546
	Carriage of coarse sand	cum	0.151	0.000	(2203)	0.000
	Cement	tonne	0.109	4408.000	(0367)	480.472
	Cement for slurry	tonne	0.020	4408.000	(0367)	88.160
	Carriage of cement	tone	0.129	145.720	(2209)	18.798
	For top layer 6 mm thick					
	Marble chips	quintal	0.958	158.437	(0785)	151.783 (B)
	Carriage of marbe chips	cum	0.056	163.930	(2268)	9.180 (B)
	White cement	ton	0.041	11200.000	(0368)	453.600 (B)
	Carriage of white cement	tonne	0.041	145.720	(2209)	5.902 (B)
	Marble powder	cum	0.007	189.000	(0784)	1.323 (B)
	<b>Labour-</b>					
	Mason 2nd dass	per day	1.790	369.000	(0124)	660.510
	Beldar	per day	1.990	306.000	(01 14)	608.940
	Bhisti	per day	1.040	332.000	(0101)	345.280
	Beldar for rubbing and polishing (Special Rate)	per day	1.000	369.000	(0139)	369.000
	Mixer operator	per day	0.030	391.000	(0127)	11.730
	Hire charges of Concrete Mixer 0.25 to 0.40 cum with Hopper	Per day	0.030	800.000	(0002)	24.000
	Machine for rubbing of floors	Per day	1.600	300.000	(0013)	480.000
	Sundries	LS	161.460	2.120	(9999)	342.295
	Total					4283.253
	Add for water charges @ 1%					42.833
	Total					4326.085 (X)
	Add GST 12% on "X"( multiplying factor 0.1405)					607.81
	Total					4933.90 (Y)
	Add for contractor's profit and overheads @ 15% on "Y"					740.085


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Item No.	Description	Unit	Qty	Rate ₹	Rate Code.	Cost ₹
	Cost of 10 sqm					5673.985
	Cost of 1 sqm					567.399
	Add labour cess @ 1%					5.670
	Rate including labour cess					573.069
	<b>Say</b>			<b>Rs.573.10</b>	<b>Per sqm</b>	
<b>11.9.5</b>	<b>Light shade pigment with ordinary cement.</b>					
	Details of cos' for 10 sqm					
	Cost same as per item No. 11.9.1	sqm	10.000	548.126	(1 1.9.1)	5481.264
	Add difference of cost due to using light shade pigment instead of dark shade pigment (Code 0875-Code 0874)	kilogram	2.840	-10.000	(0875-0874)	-28.400 (A)
	Add for water chargs @ 1 % on A					-0.284 (B)
	Total A+B					-28.684 (X)
	Add GST 12% on "X"( multiplying factor 0.1405) on A+B					-4.03
	<b>Total</b>					<b>-32.71 (Y)</b>
	Add for contractor's profit and overheads @ 15% on "Y"					-4.907
	Cost of 10 sqm					5443.642
	Cost of 1 sqm					544.364
	Add labour cess @ 1%					5.440
	Rate including labour cess					549.804
	<b>Say</b>			<b>Rs.549.80</b>	<b>Per sqm</b>	
<b>11.9.6</b>	<b>Ordinary cement without any pigment</b>					
	Details of cost for 10 sqm					
	Cost same as per item No. 11.9.1	sqm	10.000	548.126	(11.9.1)	5481.264
	Less the cost of dark shade pigment					
	Dark shade pigment	kilogram	2.840	70.000	(0874)	198.800 (A)
	Carriage of pigment	LS	0.700	2.120	(9999)	1.484 (A)
	Add for water chargs @ 1 % on A					2.003 (B)
	Total A+B					3.487
	Add GST 12% on "X"( multiplying factor 0.1405) on A+B					0.49
	<b>Total</b>					<b>3.98</b>
	Add for contractor's profit and overheads @ 15% on A+B					0.597
	Cost of 10 sqm					5278.380
	Cost of 1 sqm					527.838
	Add labour cess @ 1%					5.280
	Rate including labour cess					533.118
	<b>Say</b>			<b>Rs.533.10</b>	<b>Per sqm</b>	
<b>11.10</b>	<b>40 mm thick marble chips flooring, rubbed and polished to granolithic finish, under layer 31 mm thick cement concrete 1:2:4(1 cement:2 coarse sand:4 graded stone aggregate 12.5 mm nominal size) and top layer 9 mm thick with white, black.chocolate, grey, yellow or Baroda green marble chips of sizes from 4 mm to 7 mm nominal size laid in cement marble powder mix 3:1 (3 cement: 1 marble powder) by weight in proportion of 4:7( 4 cement marble powder mix:7 marble chips) by volume including cement slurry etc. complete.</b>					
<b>11.10.1</b>	<b>Dark shade pigment with ordinary cement</b>					
	Details of cost for 10 sqm					
	Materials-					
	For under layer of 31 mm thick					
	12.5 mm Stone aggregate	cum	0.210	686.050	(0296)	144.071 (X)
	10 mm Stone aggregate	cum	0.070	657.910	(0297)	46.054 (X)
	Carriage of stone aggregate	cum	0.280	0.000	(2202)	0.000 (X)

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## BCD Analysis of Rates 2022

Item No.	Description	Unit	Qty	Rate ₹	Rate Code.	Cost ₹
	Coarse sand	cum	0.140	135.000	(0982)	18.900 (X)
	Carriage of coarse sand	cum	0.140	0.000	(2203)	0.000 (X)
	Cement	tonne	0.101	4408.000	(0367)	443.004 (X)
	Cement for slurry	tonne	0.020	4408.000	(0367)	88.160 (X)
	Carriage of cement	tonne	0.121	145.720	(2209)	17.559 (X)
	For top layer 9 mm thick					
	Marble chips 4 mm to 7 mm size	quintal	1.400	250.000	(0788)	350.000
	Carriage of marble chips	cum	0.082	163.930	(2268)	13.442
	Cement	tonne	0.058	4408.000	(0367)	254.782
	Carriage of cement	tonne	0.058	145.720	(2209)	8.423
	Marble Powder	cum	0.012	189.000	(0784)	2.268
	Black colour Dark shade pigment	kilogram	4.050	48.000	(0874)	194.400
	3.5kg/ 50kg of cement = 57.80x3.5/50=4.05kg					
	Carriage of pigment & marble powder etc.	LS	5.460	2.120	(9999)	11.575
	Labour-					
	Same as in item No. 11.9.1					
	Mason 2nd class	per day	1.790	369.000	(0124)	660.510
	Beidar	per day	1.990	306.000	(0114)	608.940
	Bhisti	per day	1.040	332.000	(0101)	345.280
	Beidar for rubbing and polishing (Special Rate)	per day	1.000	369.000	(0139)	369.000
	Driver (for Road Roller, Concrete Mixer, Truck etc.)	per day	0.030	391.000	(0127)	11.730
	Hire charges of Concrete Mixer 0.25 to 0.40 cum with Hopper	per day	0.030	800.000	(0002)	24.000
	Machine for rubbing of floors	per day	1.600	300.000	(0013)	480.000
	Sundries	LS	134.550	2.120	(9999)	285.246
	Total					4377.344
	Add for water charges @ 1 %					43.773
	Total					4421.117 (X)
	Add GST 12% on "X"( multiplying factor 0.1405)					621.17
	Total					5042.28 (Y)
	Add for contractor's profit and overheads @ 15% on "Y"					756.343
	Cost of 10 sqm					5798.627
	Cost of 1 sqm					579.863
	Add labour cess @ 1%					5.800
	Rate including labour cess					585.663

### 11.10.2 Light shade pigment with white cement

Details of cost or 10 sqm

Cost same as per item No. 11.10.1	sqm	10.000	579.863	(11.10.1)	5798.627
Add difference of cost due to using light shade pigment instead of dark shade pigment (Code 0875-Code 0874)	kilogram	4.050	-10.000	(0875-0874)	-40.500 (A)
Add difference of cost due to using white cement instead of ordinary cement (Code 0368-Code 0367)	ton	0.058	6792.000		392.578 (A)
Add for water charges @ 1 % on A					3.521 (B)
Total A+B					355.598 (X)

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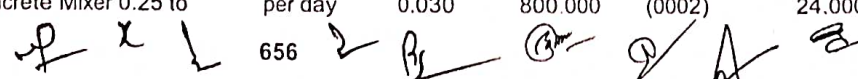
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*Handwritten signature: "B" with a checkmark.*

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## BCD Analysis of Rates 2022

Item No.	Description	Unit	Qty	Rate ₹	Rate Code.	Cost ₹
	Add GST 12% on "X"( multiplying factor 0.1405) on A+B					49.96
	Total					405.56 (Y)
	Add for contractor's profit and overheads @ 15% on "Y"					60.834
	Cost of 10 sqm					6265.021
	Cost of 1 sqm					626.502
	Add labour cess @ 1%					6.270
	Rate including labour cess					632.772
			<b>Say</b>	<b>Rs.632.80</b>		<b>Per sqm</b>
<b>11.10.3</b>	<b>Medium shade pigment with 50% white cement and 50% ordinary cement</b>					
	<b>Details of cost for 10 sqm</b>					
	Cost same as per item No. 11.10.1	sqm	10.000	579.863	(11.10.1)	5798.627
	Add difference of cost due to using medium shade pigment instead of ciarK shade pigment (Code 0876-Code 0874)	kilogram	4.050	-14.000	(0876-0874)	-56.700 (A)
	Add difference of cost due to using 50% white cement instead of ordinary cement (Code 0368-Code 0367)	ton	0.029	6792.000	(0368-0367)	196.289 (A)
	Add for water chargs @ 1 % on A					1.396 (B)
	Total A+B					140.985 (X)
	Add GST 12% on "X"( multiplying factor 0.1405) on A+B					19.81
	Total					160.79 (Y)
	Add for contractor's profit and overheads @ 15% on "Y"					24.119
	Cost of 10 sqm					5983.539
	Cost of 1 sqm					598.354
	Add labour cess @ 1%					5.980
	Rate including labour cess					604.334
			<b>Say</b>	<b>Rs.604.30</b>		<b>Per sqm</b>
<b>11.10.4</b>	<b>White cement without any pigment</b>					
	<b>Details of cost for 10 sqm</b>					
	Under layer					
	<b>(Same as per item No. 11.10.1 marked X) Top layer</b>	sqm	1.000	757.747	(11.10.1-X)	757.747
	Marble chips	quintal	1.400	250.000	(0788)	350.000
	Carriage of marble chips	cum	0.082	163.930	(2268)	13.442
	White Cement	ton	0.058	11200.000	(0368)	647.360
	Carriage of cement	tonne	0.058	145.720	(2209)	8.423
	Marble powder	cum	0.012	189.000	(0784)	2.268
	Labour-					
	Same as per item No. 11.9.1					
	Mason 2nd class	per day	1.790	369.000	(0124)	660.510
	Beldar	per day	1.990	306.000	(0114)	608.940
	Bhisti	per d3y	1.040	332.000	(0101)	345.280
	Beldar for rubbibng and polishing (Special Rate)	per day	1.000	369.000	(0139)	369.000
	Driver (for Road Roller, Concrete Mixer, Truck etc.)	per day	0.030	391.000	(0127)	11.730
	Hire charges of Concrete Mixer 0.25 to	per day	0.030	800.000	(0002)	24.000
BCD/SOR_11 <sup>th</sup> Edition_2022		656	2	B	A	B

## BCD Analysis of Rates 2022

Item No.	Description	Unit	Qty	Rate ₹	Rate Code.	Cost ₹
	0.40 cum with Hopper Machine for rubbing of floors	per day	1.600	300.000	(0013)	480.000
	Sundries	LS	161.460	2.120	(9999)	342.295
	Total					4620.996
	Add for water charges @ 1 %					46.210
	Total					4667.205 (X)
	Add GST 12% on "X"( multiplying factor 0.1405)					655.74
	Total					5322.95 (Y)
	Add for contractor's profit and overheads @ 15% on "Y"					798.442
	Cost of 10 sqm					6121.390
	Cost of 1 sqm					612.139
	Add labour cess @ 1%					6.120
	Rate including labour cess					618.259
	Say			Rs.618.30	Per sqm	
<b>11.10.5</b>	<b>Light shade pigment with ordinary cement</b>					
	<b>Details of cost for 10 sqm</b>					
	Cost same as per item No. 11.10.1	sqm	10.000	579.863	(11.16.1)	5798.627
	Add difference of cost due to using light shade pigment instead of dark shade pigment (Code 0875-Code 0874)	kilogram	4.050	-10.000	(0875-074)	-40.500 (A)
	Add for water chargs @ 1% on A					-0.405 B
	Total A+B					-40.905
	Add GST 12% ( multiplying factor 0.1405) on A+B					-5.75
	Total					-46.65 (Y)
	Add for contractor's profit and overheads @ 15% on "Y"					-6.998
	Cost of 10 sqm					5744.977
	Cost of 1 sqm					574.497705
	Add labour cess @ 1%					5.740
	Rate including labour cess					580.238
	Say			Rs.580.20	Per sqm	
<b>11.10.6</b>	<b>Ordinary cement without any pigment</b>					
	<b>Details of cost for 10 sqm</b>					
	Under layer					
	Same as pre item No. 11.16.1 marked (X)	sqrvt	1.000	757.747	(11.10.1-X)	757.747
	Marble chips (Top layer)	quintal	1.400	250.000	(0788)	350.000
	Carriage of marble chips	cum	0.082	163.930	(2268)	13.442
	Ordinary cement	tonne	0.058	4408.000	(0367)	254.782
	Carriage of cement	tonne	0.058	145.720	(2209)	8.423
	Marble powder	cum	0.012	189.000	(0784)	2.268
	Labour-					
	Same as per item NO. 11.9.1					
	Mason 2nd class	per day	1.790	369.000	(0124)	660.510
	Beldar	per day	1.990	306.000	(0114)	608.940
	Bhisti	per day	1.040	332.000	(0101)	345.280
	Beldar for aibbing and polishing (Special Rate)	per day	1.000	369.000	(0139)	369.000
	Driver (for Road Roller, Concrete Mixer, Truck etc.)	per day	0.030	391.000	(0127)	11.730
	Hire charges of Concrete Mixer 0.25 to	per day	0.030	800.000	(0002)	24.000
			657			

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## BCD Analysis of Rates 2022

Item No.	Description	Unit	Qty	Rate ₹	Rate Code.	Cost ₹
	0.40 cum with Hopper Machine for rubbing of floors	per day	1.600	300.000	(0013)	480.000
	Sundries	1 time	134.550	2.120	(9999)	285.246
	Total					4171.369
	Add for water charges @ 1%					41.714
	Total					4213.082 (X)
	Add GST 12% on "X"( multiplying factor 0.1405)					591.94
	Total					4805.02 (Y)
	Add for contractor's profit and overheads @ 15% on "Y"					720.753
	Cost of 10 sqm					5525.774
	Cost of 1 sqm					552.577
	Add labour cess @ 1%					5.530
	Rate including labour cess					558.107
	Say			Rs.558.10	Per sqm	
11.11	40 mm thick marble chips flooring,rubbed and polished to granolithic finish, under layer 28 mm thick cement concrete 1:2:4(1 cement:2 coarse sand:4 graded stone aggregate 12.5 mm nominal size) and top layre 12 mm thick with white, balck, chcoloate, grey, yellow or Baroda gren marble chips of sizes for 7 mm to 10 mm nominal size laid in cement marble powder mix 3:1(3 cement 1 marble powder mix :3marble chips) by volume including cement slurry etc. complete.					
11.11.1	Dark shade pigment with ordinary cement					
	Details of cost for 10 sqm					
	Materials-					
	For under layer of 28 mm thick 12.5 mm Stone aggregate	cum	0.190	686.050	(0296)	130.350 (X)
	10mm Stone aggregate	cum	0.060	657.910	(0297)	39.475 (X)
	Carriage of stone aggregate	cum	0.250	0.000	(2202)	0.000 (X)
	Coarse sand	cum	0.125	135.000	(0982)	16.875 (X)
	Carriage of coarse sand	cum	0.125	0.000	(2203)	0.000 (X)
	Cement	tonne	0.090	4408.000	(0367)	395.398 (X)
	Cement for slurry	tonne	0.020	4408.000	(0367)	88.160 (X)
	Carriage of cement	tonne	0.110	145.720	(2209)	15.985 (X)
	For top layer 12 mm thick					
	Marble chips 7 mm to 10 mm size	quintal	1.734	250.000	(0788)	433.500
	Carriage of marble chips	cum	0.102	163.930	(2268)	16.721
	Cement	tonne	0.081	4408.000	(0367)	357.048
	Carriage of cement	tonne	0.081	145.720	(2209)	11.803
	Marble Powder	cum	0.017	189.000	(0784)	3.213
	Dark shade pigment @ 3.5kg/50 kq of cement					
	=81x3.5/50=5.67 kg	kiiogram	5.670	48.000	(0874)	272.160
	Carriage of pigment & marble powder etc.	LS	6.240	2.120	(9999)	13.229
	Labour-					
	Same as in item No. 11.15.1					
	Mason 2nd class	per day	1.790	369.000	(0124)	660.510
	Beldar	per day	1.990	306.000	(0114)	608.940
	Bhisti	per day	1.040	332.000	(0101)	345.280
	Beldar for rubbibng and polishing (Special Rate)	per day	1.000	369.000	(0139)	369.000
	Driver (for Road Roller, Concrete Mixer, Truck etc.)	per day	0.030	391.000	(0127)	11.730

## BCD Analysis of Rates 2022

Item No.	Description	Unit	Qty	Rate ₹	Rate Code.	Cost ₹
	Hire charges of Concrete Mixer 0.25 to 0.40 cum with Hopper	per day	0.030	800.000	(0002)	24.000
	Machine for rubbing of floors	per day	1.600	300.000	(0013)	480.000
	Sundries	LS	156.130	2.120	(9999)	330.996
	Total					4624.372
	Add for water charges @ 1 %					46.244
	Total					4670.615 (Z)
	Add GST 12% on "Z"( multiplying factor 0.1405)					656.22
	Total					5326.84 (Y)
	Add for contractor's profit and overheads @ 15% on "Y"					799.026
	Cost of 10 sqm					6125.863
	Cost oi 1 sqm					612.586
	Add labour cess @ 1%					6.130
	Rate including labour cess					618.716
	<b>Say</b>			<b>Rs.618.70</b>	<b>Per sqm</b>	
<b>11.11.2</b>	<b>Light shade pigment with white cement</b>					
	Details of cost for 10 sqm					
	Cost same as per item No. 11.17.1	sqm	10.000	612.586	(11.11.1)	6125.863
	Add difference of cost due to using light shade pigment instead of dark shade pigment (Code 0875-Code 0874)	kilogram	5.670	-10.000	(0875-074)	-56.700 (A)
	Add difference of cost due to using white cement instead of ordinary cement (Code 0368-Code 0367)	ton	0.081	6792.000	(0368-0367)	550.152 (A)
	Add for water chargs @ 1 % on A					4.935 (B)
	Total A+B					555.087 (X)
	Add GST 12% ( multiplying factor 0.1405) on A+B					77.99
	Total					633.08 (Y)
	Add for contractor's profit and overheads @ 15% on "Y"					94.961
	Cost of 10 sqm					6853.900
	Ccst of 1 sqm					685.390
	Add labour cess @ 1%					6.850
	Rate including labour cess					692.240
	<b>Say</b>			<b>Rs.692.20</b>	<b>Per sqm</b>	
<b>11.11.3</b>	<b>Medium shade pigment with 50% white cement and 50% ordinary cement</b>					
	Details of cost for 10 sqm					
	Cost same as per item No. 11.11.1	sqm	10.000	612.586	(11.11.1)	6125.863
	Add difference of cost due to using medium shade Digmnt instead of dark shade pigment (Code 0876-Code 0874)	kilogram	5.670	-10.000	(0875-074)	-56.700 (A)
	Add difference of cost due to using 50% white cement instead of ordinary cement (Code 0368-Code 0367)	ton	0.045	6792.000	(0368-0367)	305.640 (A)
	Add for water charges @ 1 % en A					2.489 (B)


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Item No.	Description	Unit	Qty	Rate ₹	Rate Code.	Cost ₹
	Total A+B					251.429
	Add GST 12% on A+B( multiplying factor 0.1405)					35.33
	Total					286.76 (Y)
	Add for contractor's profit and overheads @ 15% on "Y"					43.013
	Cost of 10 sqm					6455.631
	Cost of 1 sqm					645.563
	Add labour cess @ 1%					6.456
	Rate including labour cess					652.019
	Say			Rs.652.00	Per sqm	
11.11.4	<b>White cement without any pigment</b>					
	Details of cost for 10 sqm					
	Under layer					
	Same as per item No 11.11.1 marked'X'	sqm	1.000	686.242	(11.11.1-X)	686.242
	Top layer Marble chips	quintal	1.916	250.000	(0788)	479.000
	Carriage of marble chips	cum	0.113	163.930	(2268)	18.491
	Cement	ton	0.081	11200.000	(0368)	907.200
	Carriage of cement	tonne	0.081	145.720	(2209)	11.803
	Marble powder	cum	0.017	189.000	(0784)	3.213
	Labour-					
	Same as per item No. 11.9.1					
	Mason 2nd class	per day	1.790	369.000	(0124)	660.510
	Beldar	per day	1.990	306.000	(0114)	608.940
	Bhisti	per day	1.040	332.000	(0101)	345.280
	Beldar for rubbing and polishing (Special Rate)	per day	1.000	369.000	(0139)	369.000
	Driver (for Road Roller, Concrete Mixer, Truck etc.)	per day	0.030	391.000	(0127)	11.730
	Hire charges of Concrete Mixer 0.25 to 0.40 cum with Hopper	per day	0.030	800.000	(0002)	24.000
	Machine for rubbing of floors	per day	1.600	300.000	(0013)	480.000
	Sundries	LS	134.550	2.120	(9999)	285.246
	Total					4890.656
	Add for water charges @ 1 %					48.907
	Total					4939.562 (X)
	Add GST 12% on "X"( multiplying factor 0.1405)					694.01
	Total					5633.57 (Y)
	Add for contractor's profit and overheads @ 15% on "Y"					845.036
	Cost of 10 sqm					6478.607
	Cost of 1 sqm					647.861
	Add labour cess @ 1%					6.480
	Rate including labour cess					654.341
	Say			Rs.654.40	Per sqm	
11.11.5	<b>Light shade pigment with ordinary cement</b>					
	Details of cost for 10 sqm					
	Cost same as per item No. 11.17.1	sqm	10.000	612.59	(11.17.1)	6125.863
	Less difference of cost due to using light shade pigment instead of dark shade pigment (Code 0875-Code 0874)	kilogram	5.670	-10.000		-56.700 (A)
	Add for water charges @ 1 %					60.692 (B)

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Item No.	Description	Unit	Qty	Rate ₹	Rate Code.	Cost ₹
	Total A+B					3.992
	Add GST 12% on A+B( multiplying factor 0.1405)					0.56
	Total					4.55 (Y)
	Add for contractor's profit and overheads @ 15% on "Y"					0.683
	Cost of 10 sqm					6131.098
	Cost of 1 sqm					613.109782
	Add labour cess @ 1%					6.130
	Rate including labour cess					619.240
			Say	Rs.619.20	Per sqm	
<b>11.11.6</b>	<b>Ordinary cement without any pigment</b>					
	Details of cost for 10 sqm					
	Under layer					
	Same as per item No. 11.11.1 marked 'X'	sqm	1.000	686.242	(11.11.1-X)	686.242
	Top layer Marble chips	quintal	1.916	250.000	(0788)	479.000
	Carriage of marble chips	cum	0.113	163.930	(2268)	18.491
	Ordinary cement	tonne	0.081	4408.000	(0367)	357.048
	Carriage of cement	tonne	0.081	145.720	(2209)	11.803
	Marble powder	cum	0.017	189.000	(0734)	3.213
	Labour-					
	Same as per, item No. 11.9.1					
	Mason 2nd class	per day	1.790	369.000	(0124)	660.510
	Beldar	per day	1.990	306.000	(0114)	608.940
	Bhisti	per day	1.040	332.000	(0101)	345.280
	Beldar for rubbimg and polishing (Special Rate)	per day	1.000	369.000	(0139)	369.000
	Driver (for Road Roller, Concrete Mixer, Truck etc.)	per day	0.030	391.000	(0127)	11.730
	Hire charges of Concrete Mixer 0.25 to 0.40 cum with Hopper	per day	0.030	800.000	(0002)	24.000
	Machine for rubbing of floors	per day	1.600	300.000	(0013)	480.000
	Sundries	LS	134.550	2.120	(9999)	285.246
	Total					4340.504
	Add for water charges @ 1 %					43.405
	Total					4383.909 (X)
	Add GST 12% on "X"( multiplying factor 0.1405)					615.94
	Total					4999.85 (Y)
	Add for contractor's profit and overheads @ 15% on "Y"					749.977
	Cost of 10 sqm					5749.825
	Cost of 1 sqm					574.98
	Add labour cess @ 1%					5.750
	Rate including labour cess					580.730
			Say	Rs.580.70	Per sqm	
<b>11.12</b>	<b>Marble chips skirling (up to 30 cm height) rubbed and polished to granolithic finish, top layer 6mm thick with white, black, chocolate arey, yellow or green marble chips of sizes from smallest to 4mm nominal size laid in cement marble powder mix 3:1 (3 cement : 1 marble powder) by weight in proportion of 4:7 (4 cement marble powder mix : 7 marbie chips) by volume</b>					
<b>11.12.1</b>	<b>18 mm thick with under layer 12 mm thick in cement plaster 1:3 (1 cement : 3coarse sand).</b>					

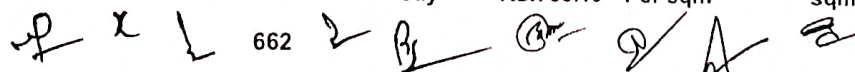
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Item No.	Description	Unit	Qty	Rate ₹	Rate Code.	Cost ₹
11.12.1.1	<b>Dark shade pigment with ordinary cement.</b> Details of cost for 10 sqm Materials - For under layer of 12 mm thick Cement mortar 1:3 = 0.144 + Extra for rounding = 0.03 = 0.174 Top layer 6 mm thick (same as in item 11.9.1) marked 'H'					
	Labour - Mason 2nd class Beldar Bhisti Beldar for rubbing and polishing (special rate ) Sundries Total Add for water charges @ 1 % Total Add GST 12% on "X"( multiplying factor 0.1405) Total Add for contractor's profit and overheads @ 15% on "Y"	per day per day per day per day LS	3.000 3.000 1.000 7.000 201.890	369.000 306.000 332.000 369.000 2.120	(0124) (0114) (0101) (0139) (9999)	1107.000 918.000 332.000 2583.000 428.007 6340.028 63.400 6403.428 (X) 899.68 7303.11 (Y) 1095.466
	Cost of 10 sqm Cost of 1 sqm Add labour cess @ 1% Rate including labour cess					<u>8398.576</u> 839.858 8.400 848.258
			Say	Rs.848.30	Per sqm	
11.12.2	<b>21 mm thick with under layer 15 thick cement plaster 1:3(1 cement:3 coarse sand)</b>					
11.12.2.1	<b>Dark shade pigment with ordinary cement</b> Details of cost for 10 sqm Materials- For under layer of 15 mm thick Cement mortar 1:3 = 0.172 cum Extra for rounding = 0.03 cum 0.202 cum Top layer 6 mm thick (Same as in item 11.9.1) Marked H Labour- Mason 2nd class Beldar Bhisti Beldar for rubbing and polishing (Specialrate) Sundries Add for water charges @ 1 % Add for contractor's profit and overheads @ 15% Cost of 10 sqm Cost of 1 sqm Add labour cess @ 1% Rate including labour cess	cum sqm per day per day per day per day 1 time	0.202 1.000 3.000 3.000 1.000 7.000 201.890	2848.955 476.303 369.000 306.000 332.000 369.000 2.120	(2112) (11.9.1-H) (0124) (0114) (0101) (0139) (9999)	575.489 (A) 476.303 1107.000 918.000 332.000 2583.000 428.007 64.198 972.599 <u>7456.596</u> 745.660 7.460 753.120
			Say	Rs.753.10	Per sqm	sqm

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## BCD Analysis of Rates 2022

Item No.	Description	Unit	Qty	Rate ₹	Rate Code.	Cost ₹
<b>11.12.2.2 Light shade pigment with white cement</b>						
	Details of cost for 10 sqm					
	Cost same as per item No. 11.12.2.1	sqm	10.000	745.660	(11.12. 2.1)	7456.596
	Add difference of cost due to using light shade pigment instead of dark shade pigment (Code 0875-Code 0874)	kilogram	2.840	-10.000		-28.400 (A)
	Add difference of cost due to using white cement instead of grey cement (Code 0368-Code 0367)	ton	0.041	6792.000		275.076 (A)
	Add for water chargs @ 1% on A					2.467 (B)
	Total A+B					249.143
	Add GST 12% on A+B( multiplying factor 0.1405)					35.00
	Total					284.15 (Y)
	Add for contractor's profit and overheads @ 15% on "Y"					42.622
	Cost of 10 sqm					7783.366
	Cost of 1 sqm					778.337
	Add labour cess @ 1%					7.780
	Rate including labour cess					786.117
			<b>Say</b>	<b>Rs.786.10</b>	<b>Per sqm</b>	
<b>11.12.2.3 Medium shade pigment with 50 % white cement and 50% ordinary cement</b>						
	Details of cost 10 sqm					
	Cost same as per item No. 11.12.2.1	sqm	10.000	745.66	(11.12.2.1)	7456.596
	Add difference of cost due to using medium shade pigment instead of dark shade pigment (Code 0876-Code 0874)	kilogram	2.840	-14.000		-39.760 (A)
	Add difference of cost due to using 50% white cement instead of grey cement (Code 0368-Code 0367)	ton	0.020	6792.000		137.538 (A)
	Add for water chargs @ 1 % on A					0.978 (B)
	Total A+B					98.756
	Add GST 12% on A+B( multiplying factor 0.1405)					13.88
	Total					112.63 (Y)
	Add for contractor's profit and overheads @ 15% on "Y"					16.895
	Cost of 10 sqm					7586.122
	Cost of 1 sqm					758.612
	Add labour cess @ 1%					7.590
	Rate including labour cess					766.202
			<b>Say</b>	<b>Rs.766.20</b>	<b>Per sqm</b>	
<b>11.12.2.4 White cement without any pigment</b>						
	Details of cost for 10 sqm					
	Under layer					
	Same as per item No. 11.12.2.1 marked A	sqm	1.000	575.49	(11.12.2. 1-A)	575.489
	Top layer					
	Same as per item no. 11.9.4 marked 'B'	sqm	1.000	621.79	(11.9.4-B)	621.787
	Labour-					


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A
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## BCD Analysis of Rates 2022

Item No.	Description	Unit	Qty	Rate ₹	Rate Code.	Cost ₹
	Same as per item NO. 11.12.2.1					
	Mason 2nd class	per day	3.000	369.00	(124)	1107.000
	Beldar	per day	3.000	306.00	(114)	918.000
	Bhisti	per day	1.000	332.00	(0101)	332.000
	Beldar for rubbing and polishing (Speciairate)	per day	7.000	369.00	(0139)	2583.000
	Sundries	1 time	77.650	2.12	(9999)	164.618
	Total					6301.894
	Add for water charges @ 1 %					63.019
	Total					6364.913 (X)
	Add GST 12% on "X"( multiplying factor 0.1405)					894.27
	Total					7259.18 (Y)
	Add for contractor's profit and overheads @ 15% on "Y"					1088.878
	Cost of 10 sqm					8348.061
	Cost of 1 sqm					834.806
	Add labour cess @ 1%					8.350
	Rate including labour cess					843.156
			Say	843.20	Per sqm	
<b>11.12.2.5</b>	<b>Light shade pigment with ordinary cement</b>					
	Details of cost 10 sqm					
	Cost same as per item No. 11.12.2.1	sqm	10.000	745.66	(11.12.2.1)	7456.596
	Add difference of cost due to using light shade pigment instead of dark shade pigment					
	Cost same as per item No. 11.9.5 marked A	sqm	1.000	-28.40	(11.15.5-A)	-28.400 (E)
	Add 1% of water charges on E					-0.284 (B)
	Total E +B					-28.684
	Add GST 12% on ( multiplying factor 0.1405)					-4.03
	Total					-32.71 (Y)
	Add for contractor's profit and overheads @ 15% on Y					-4.907
	Cost of 10 sqm					7418.975
	Cost of 1 sqm					741.897
	Add labour cess @ 1%					7.420
	Rate including labour cess					749.317
			Say	Rs.749.30	Per sqm	
<b>11.12.2.6</b>	<b>Ordinary cement without any pigment</b>					
	Details of cost for 10 sqm					
	Rate same as per item No. 11.18.2.1	sqm	10.000	745.66	(11.18.2.1)	7456.596
	Less the cost of diark shade pigment!					
	Cost same as pre item No. 11.9. 6 marked A	sqm	1.000	200.28	(11.9.6-A)	200.284 (E)
	Add for water chargs @ 1 % on E					2.003 (B)
	Total E +B					202.287
	Add GST 12% on ( multiplying factor 0.1405)					28.42
	Total					230.71 (Y)
	Add for contractor's profit and overheads @ 15% on Y					34.606
	Cost of 10 sqm					7721.911
	Cost of 1 sqm					772.191

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Item No.	Description	Unit	Qty	Rate ₹	Rate Code.	Cost ₹
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Add labour cess @ 1% 7.720  
 Rate including labour cess 779.911

Say Rs.779.90 Per sqm

### 11.13 Providing and fixing glass strips in joints of terrazo/cement concrete floors.

#### 11.13.1 40 mm wide and 4 mm thick

Details of cost for 10 metre length

Materials-

Glass strips = 10 m

Add 10% for wastage = 1 m

11m

	metre	11.000	20.000	(1149)	220.000
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Carriage of glass

	1 time	1.050	2.120	(9999)	2.226
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Labour-

Mason 2nd class

	per day	0.250	369.000	(0124)	92.250
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Beldar

	per day	0.250	306.000	(0114)	76.500
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Sundries

	LS	13.520	2.120	(9999)	28.662
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Total

419.638

Add for water charges @ 1 %

4.196

Total

423.835 (X)

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

59.55

Total

483.38 (Y)

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

72.508

Cost of 10 M

555.891

Cost of 1 M

55.589

Add labour cess @ 1%

0.560

Rate including labour cess

56.149

Say Rs.56.10 Per sqm

### 11.14 Extra for laying terrazo flooring on stair case treads not exceeding 30cm in width including cost of forming, nosing etc.

Details of cost for 10 sqm

Labour-

Mason 2nd class

	per day	0.300	369.000	(0124)	110.700
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Beldar

	per day	0.300	306.000	(0114)	91.800
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Coolie

	per day	0.300	318.000	(0115)	95.400
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Total

297.900

Add for water charges @ 1 %

2.979

Total

300.879 (X)

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

42.27

Total

343.15 (Y)

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

51.473

Cost of 10 sqm

394.625

Cost of 1 sqm

39.463

Add labour cess @ 1%

0.390

Rate including labour cess

39.853

Say Rs.39.90 Per sqm

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## BCD Analysis of Rates 2022

Item No.	Description	Unit	Qty	Rate ₹	Rate Code.	Cost ₹
11.15	Crazy marble stone flooring, including filling the gaps with light shade pigment with white cement marble powder mixture (3 parts of white cement : 1 part of marble powder) by weight in proportion of 4:7 (4 cement marble powder mix : 7 white, black or white and black marble chips of sizes from 1 mm to 4 mm nominal size by volume), with under layer 25 mm thick cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 12.5 mm nominal size), including rubbing, polishing and cement slurry etc. complete.					
11.15.1	18 mm thick crazy marble stone white, black or as specified. Details of cost for 10 sqm. Under layer 25mm thick of cement Concrete 1:2:4 -10x0.025=0.25 cum Rate as per Item Number 11.7 of SH:	cum	0.250	5364.916	(11.7)	1341.229 A
	<b>Flooring</b> Cement slurry for subgrade and under large cement					
	Portland Cement	tonne	0.040	4408.000	(0367)	176.320
	Carriage of cement	tonne	0.040	145.720	(2209)	5.829
	<b>LABOUR:</b> Labour for applying cement slurry					
	Beldar	day	0.500	306.000	(0114)	153.000
	Top layer with marble pieces and gap filling with marble powder mixture Marble pieces for crazy flooring					
	Assume 70% of marble stone are and 30% of joint filler/mixture 7sqmx0.02m = 0.14 cum 0.872x0.14/0.051 = 2.40q White marble makrana second quality plain veined stone pieces for crazy flooring	quintal	2.400	160.000	(2710)	384.000
	White Cement	tonne	0.041	11200.000	(0368)	453.600
	Marble dust/ powder	cum	0.007	189.000	(0784)	1.323
	Red, chocolate, orange, buff or yellow (red oxide of iron) light shade pigment @ 3.5kg/50kg of cement = 40.5x3.5/50=2.84kg	kg	2.840	60.000	(0875)	170.400
	Marble chips up to 4 mm and down size White & black	quintal	0.872	158.437	(0785)	138.157
	Carriage of marble dust and/or marble chips	cum	0.051	163.930	(2268)	8.360
	Carriage of cement	tonne	0.041	145.720	(2209)	5.902
	Carriage of pigment & marble powder.	L.S.	3.640	2.120	(9999)	7.717
	Carriage of stone blocks white & red sand stone & kota stone slab	tonne	0.240	145.720	(2216)	34.973
	Labour for finishing, polishing and fixing-					
	Mason (brick layer) 1 st class	day	1.200	413.000	(0123)	495.600
	Beldar	day	1.000	306.000	(0114)	306.000
	Coolie	day	1.000	318.000	(0115)	318.000
	Skilled Beldar (for floor rubbing etc.)	day	5.000	369.000	(0139)	1845.000
	Sundries including carboranadum etc.	L.S.	134.550	2.120	(9999)	285.246
	Bhisti	day	0.540	332.000	(0101)	179.280
	Machine for rubbing of floors	day	4.000	300.000	(0013)	1200.000
	Total					7509.936
	Add Water Charges @ 1% except on A					61.687
	Total					7571.623 (X)
	Add GST 12%-on "X"( multiplying factor 0.1405) except on A					1063.81
	Total					8635.44 (Y)
	Add for contractor's profit and overheads @ on "Y" 15% except on 'A'					1295.315

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Item No.	Description	Unit	Qty	Rate ₹	Rate Code.	Cost ₹
	Cost of 10 sqm					9930.751
	Cost of 1 sqm					993.075
	Add labour cess @ 1%					9.930
	Rate including labour cess					1003.005
	<b>Say</b>			<b>Rs.1003.00</b>	<b>Per sqm</b>	
<b>11.16</b>	<b>Precast terrazo tiles 22 mm thick with marble chips of sizes upto 12 mm laid in floors and landings jointed with neat cement slurry mixed with pigment to match the shade of the tiles; including rubbing and polishing complete with precast tiles on 20 mm thick bed of cement mortar 1:4(1 cement:4 coarse sand)</b>					
<b>11.16.1</b>	<b>Light shade using white cement</b>					
	Details of cost for 10 sqm					
	Materials-					
	Terrazo tiles including 10% wastage	sqm	11.000	285.00	(1201)	3135.000 (B)
	Carriage of tiles	LS	40.430	2.12	(9999)	85.712 (B)
	Cement mortar 1:4(1 cement 4 coarse sand)	cum	0.224	2256.97	(2113)	505.562 (B)
	Grey cement for slurry @ 4 4 kg/sqm	tonne	0.044	4408.00	(0367)	193.952
	White cement for grouting	ton	0.044	11200.00	(0368)	492.800
	Carriage of cement	tonne	0.088	145.72	(2209)	12.823
	Light shade pigment	kilogram	3.080	60.00	(0875)	184.800
	Labour and sundries ;					
	Mason 2nd class	per day	1.600	369.00	(0124)	590.400
	Coolie	per day	2.000	318.00	(0115)	636.000
	Beldar for rubbing and polishing	per day	1.000	369.00	(0139)	369.000
	Bhisti	per day	1.000	332.00	(0101)	332.000
	Machine for rubbing of floors	per day	1.600	300.00	(0013)	480.000
	Sundries including carboranaum stone tec.	1 time	161.980	2.12	(9999)	343.398
	Total					7361.446
	Add for water charges @ 1 %					73.614
	Total					7435.061 (X)
	Add GST 12% on "X"( multiplying factor 0.1405)					1044.63
	Total					8479.69 (Y)
	Add for contractor's profit and overheads @ 15% on "Y"					1271.953
	Cost of 10 sqm					9751.640
	Cost of 1 sqm					975.164
	Add labour cess @ 1%					9.750
	Rate including labour cess					984.914
	<b>Say</b>			<b>Rs.984.90</b>	<b>Per sqm</b>	
<b>1 1.16.2</b>	<b>Medium shade using 50% white cement and 50% ordinary cement</b>					
	Details of cost for 10 sqm					
	Materials-					
	Terrazo tiles including 10% wastage	sqm	11.000	265.000	(1202)	2915.000
	Carriage of tiles	LS	40.300	2.120	(9999)	85.436
	Cement mortar 1:4(1 cement:4 coarse sand)	cum	0.224	2256.971	(2113)	505.562
	Grey cement					
	(i) for slurry @ 4 4 kg/sqm = 44 kg					
	(ii) 50% for grouting = 22 kg					
	66 kg or 0.066 tonne	tonne	0.066	4408.000	(0367)	290.928
	50% White cement for grouting	tonne	0.022	11200.000	(0368)	246.400
	Carriage of cement	tonne	0.088	145.720	(2209)	12.823
	Medium shade pigment	kilogram	3.080	56.000	(0876)	172.480
	Labour and sundries					


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Item No.	Description	Unit	Qty	Rate ₹	Rate Code.	Cost ₹
	Mason 2nd class	per day	1.600	369.000	(0124)	590.400
	Coolie	per day	2.000	318.000	(0115)	636.000
	Beldar for rubbing and polishing	per day	1.000	369.000	(0139)	369.000
	Bhisti	per day	1.000	332.000	(0101)	332.000
	Machine for rubbing of floors	per day	1.600	300.00	(0013)	480.000
	Sundries including carborandum stone tec.	LS	161.980	2.120	(9999)	343.398
	<b>Total</b>					6979.427
	Add for water charges @ 1 %					69.794
	<b>Total</b>					7049.221 (X)
	Add GST 12% on "X"( multiplying factor 0.1405)					990.42
	<b>Total</b>					8039.64 (Y)
	Add for contractor's profit and overheads @ 15% on "Y"					1205.945
	Cost of 10 sqm					9245.582
	Cost of 1 sqm					924.558
	Add labour cess @ 1%					9.250
	Rate including labour cess					933.808
			<b>Say</b>	<b>Rs.933.80</b>	<b>Per sqm</b>	
<b>11.16.3</b>	<b>Dark shade using ordinary cement</b>					
	Details of cost for 10 sqm					
	Materials-					
	Terrazo tiles including 10% wastage	sqm	11.000	170.00	(1203)	1870.000
	Carriage of tiles	LS	40.430	2.12	(9999)	85.712
	Cement mortar 1:4(1 cement:4 coarse sand)	cum	0.224	2256.97	(2113)	505.562
	Ordinary cement for					
	(i) Cement slurry @ 4.4 kg/sqm = 44 kg					
	(ii) Grouting = 44 kg					
	88 kg or 0.088 tonne	tonne	0.088	4408.00	(0367)	387.904
	Carriage of cement	tonne	0.088	145.72	(2209)	12.823
	Dark shade pigment	kilogram	3.080	45.54	(0874)	140.266
	<b>Labour</b>					
	Mason 2nd class	per day	1.600	369.00	(0124)	590.400
	Coolie	per day	2.000	318.00	(0115)	636.000
	Beldar for rubbing and polishing	per day	1.000	369.00	(0139)	369.000
	Bhisti	per day	1.000	332.00	(0101)	332.000
	Machine for rubbing of floors	per day	1.600	300.00	(0013)	480.000
	Sundries including carborandum stone tec	LS	161.980	2.12	(9999)	343.398
	<b>Total</b>					5753.064
	Add for water charges @ 1 %					57.531
	<b>Total</b>					5810.595 (X)
	Add GST 12% on "X"( multiplying factor 0.1405)					816.39
	<b>Total</b>					6626.98 (Y)
	Add for contractor's profit and overheads @ 15% on "Y"					994.048
	Cost of 10 sqm					7621.031
	Cost of 1 sqm					762.103
	Add labour cess @ 1%					7.620
	Rate including labour cess					769.723
			<b>Say</b>	<b>Rs.769.70</b>	<b>Per sqm</b>	
<b>11.16.4</b>	<b>Ordinary cement without any pigment</b>					
	Details of cost for 10 sqm					
	Ordinary cement with dark shade pigment	sqm	10.000	762.10	(11.16.3)	7621.031
	(Rate as per item no. 11.29A.3)					

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Item No.	Description	Unit	Qty	Rate ₹	Rate Code.	Cost ₹
	Less dark shade pigment [3.08+2.84(for tiles)]	kilogram	-5.920	45.54	(0874)	-269.603 (A)
	Add for water charges @ 1 % on A					-2.696 (B)
	Total A+B					7348.732
	Add GST 12% on A( multiplying factor 0.1405)					-37.88
	Total					7310.85 (Y)
	Add for contractor's profit and overheads @ 15% on "Y"					-40.440
	Cost of 10 sqm					7270.413
	Cost of 1 sqm					727.041
	Add labour cess @ 1%					7.270
	Rate including labour cess					734.311
	<b>Say</b>			<b>Rs.734.30</b>		<b>Per sqm</b>

### 11.17 Extra if terrazzo tiles are laid in treads of steps not exceeding 30 cm in width

Details of cost for 10 sqm						
Labour-						
	Mason 2nd class	per day	0.220	369.00	(0124)	81.18
	Coolie	per day	0.220	318.00	(0115)	69.96
	Beldar for rubbing and polishing (Special rate)	per day	0.650	369.00	(0139)	239.85
	Total					390.99
	Add for water charges @ 1 %					3.91
	Total					394.900 (X)
	Add GST 12% on "X"( multiplying factor 0.1405)					55.48
	Total					450.38 (Y)
	Add for contractor's profit and overheads @ 15% on "Y"					67.558
	Cost of 10 sqm					517.94
	Cost of 1 sqm					51.79
	Add labour cess @ 1%					0.52
	Rate including labour cess					52.31
	<b>Say</b>			<b>Rs.52.30</b>		<b>Per sqm</b>

### 11.18 Precast terrazzo tiles 22 mm thick with marble chips of sizes upto 12 mm in skirting and risers of steps not exceeding 30 cm in height, on 12 mm thick cement plaster 1:3 (1 cement:3 coarse sand) jointed with neat cement slurry mixed with pigment to match the shade of the tiles, including rubbing and polishing complete with tiles of

#### 11.18.1 Light shade using white cement

Details of cost for 10 sqm						
Materials-						
20 mm thick terrazzo tiles (light shades) including						
	wastage & breakage	sqm	11.000	285.000	(1201)	3135.00 (B)
	Carriage of tiles	LS	40.430	2.120	(9999)	85.71 (B)
	Cement mortar 1:3 (1 cement:3 coarse sand)	cum	0.144	2848.955	(2112)	410.25 (B)
White cement for slurry						
For buttering tiles bed sides=44 kg						
For grouting = 22 kg						
	66 kg	ton	0.066	11200.000	(0368)	739.20 (B)
	Carriage of cement	tonne	0.066	145.720	(2209)	9.62 (B)
	Light shade pigment 66x3.5/50=4.62 kg	kilogram	4.620	60.000	(0875)	277.20 (B)

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Item No.	Description	Unit	Qty	Rate ₹	Rate Code.	Cost ₹
	Labour-					
	Mason 2nd class	per day	3 250	369.000	(0124)	1199.25 (A)
	Coolie	per day	3.250	318.000	(0115)	1033.50 (A)
	Beldar for rubbing and polishing (Special rate)	per day	7.600	369.000	(0139)	2804.40 (A)
	Sundries including carborandum stone and polishing powder etc.	LS	161.460	2.120	(9999)	342.30 (A)
	Total					10036.42
	Add for water charges @ 1 %					100.36
	Total					10136.79 (X)
	Add GST 12% on "X"( multiplying factor 0.1405)					1424.22
	Total					11561.01 (Y)
	Add for contractor's profit and overheads @ 15% on "Y"					1734.15
	Cost of 10 sqm					13295.158
	Cost of 1 sqm					1329.516
	Add labour cess @ 1%					13.300
	Rate including labour cess					1342.816
	Say			Rs.1342.80	Per sqm	
<b>11.18.2</b>	<b>Medium shade using 50% white cement and 50% ordinary cement</b>					
	Details of cost for 10 sqm					
	Materials-					
	20 mm thick terrazo tiles (medium shades) including wastage & breakage	sqm	11.000	265.00	(1202)	2915.00
	Carriage of tiles	1 time	15.550	2.12	(9999)	32.97
	Cement mortar 1:3 (1 cement.3'coarse sand)	cum	0.144	2848.95	(2112)	410.25
	50% white cement for slurry	ton	0.033	11200.00	(0368)	369.60
	50% grey cement for slurry	tonne	0.033	4408.00	(0367)	145.46
	Carriage of cement	tonne	0.066	145.72	(2209)	9.62
	Medium shade pigment	kilogram	4.620	56.00	(0876)	258.72
	Labour & sundries(Same as in item No. 11.18.1 marked A)	sqm	1.000	5379.45	(11.18.1-A)	5379.45
	Total					9521.06
	Add for water charges @ 1 %					95.21
	Total					9616.273 (X)
	Add GST 12% on "X"( multiplying factor 0.1405)					1351.09
	Total					10967.36 (Y)
	Add for contractor's profit and overheads @ 15% on "Y"					1645.104
	Cost of 10 sqm					12612.46
	Cost of 1 sqm					1261.25
	Add labour cess @ 1%					12.61
	Rate including labour cess					1273.86
	Say			Rs.1273.90	Per sqm	
<b>11.18.3</b>	<b>Dark shade using ordinary cement</b>					
	Details of cost for 10 sqm					
	Materials-					
	20 mm thick terrazo tiles (dark shades) including wastage & breakage	sqm	11.000	245.00	(1203)	2695.00
	Carriage of tiles	LS	40.430	2.12	(9999)	85.71
	Cement mortar 1:3(1 cement:3 coarse sand)	cum	0.144	2848.95	(2112)	410.25
	Grey cement for slurry	tonne	0.066	4408.00	(0367)	290.93

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Item No.	Description	Unit	Qty	Rate ₹	Rate Code.	Cost ₹
	Carriage of cement	tonne	0.660	145.72	(2209)	96.18
	Dark shade pigment	kilogram	4.620	45.54	(0874)	210.40
	Labour & sundries (Same as in item No. 11.31.1 marked A)	sqm	1.000	5379.45	(11.31.1-A)	5379.45
	Total					9167.91
	Add for water charges @ 1 %					91.68
	Total					9259.588 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)					1300.97
	Total					10560.56 (Y)
	Add for contractor's profit and overheads @ 15% on "Y"					1584.084
	Cost of 10 sqm					12144.64
	Cost of 1 sqm					1214.46
	Add labour cess @ 1%					12.14
	Rate including labour cess					1226.60
	<b>Say</b>			<b>Rs.1226.60</b>	<b>Per sqm</b>	
<b>11.18.4</b>	<b>Ordinary cement without any pigment</b>					
	Details of cost for 10 sqm					
	Ordinary cement with dark shade pigment (rate as per item no 11.31.3)	sqm	10.000	1214.46	(11.18.3)	12144.64
	Less dark shade pigment [3.08+2.84(for tiles)]	kilogram	5.920	45.54	(0874)	269.60 (A)
	Add for water charges @ 1 % on A					2.70 (B)
	Add for contractor's profit and overheads @ 15% on A+B					40.84 (C)
	Cost of 10 sqm					11831.50
	Cost of 1 sqm					1183.15
	Add labour cess @ 1%					11.83
	Rate including labour cess					1194.98
	<b>Say</b>			<b>Rs.1195.00</b>	<b>Per sqm</b>	
<b>11.19</b>	<b>Chequered terrazzo tiles 22 mm thick with marble chips of sozes upto 6 mm in floors jointed with neat cement.slurry mixed with pigment to match the shade of the tiles, including rubbing and polishing complete on 20 mm thick bed of cement mortar 1:4 (1 cement:4 coarse sand)</b>					
<b>11.19.1</b>	<b>Light shade using white cement</b>					
	Details of cost for 10 sqm					
	Materials-					
	Terrazzo tiles including 10% wastage	sqm	11.000	275.00	(1227)	3025.00 (B)
	Carriage of tiles	LS	40.430	2.12	(9999)	85.71 (B)
	Cement mortar 1:4(1 cement:4 coarse sand)	cum	0.224	2256.97	(2113)	505.56 (B)
	Grey cement for slurry @ 4.4 kg/sqm	tonne	0.044	4408.00	(0367)	193.95
	White cement for grouting	ton	0.044	11200.00	(0368)	492.80
	Carriage of cement	tonne	0.088	145.72	(2209)	12.82
	Light shade pigment	kilogram	3.080	60.00	(0875)	184.80
	Labour and sundries					
	Mason 2nd class	per day	1.600	369.00	(0124)	590.40
	Coolie	per day	2.000	318.00	(0115)	636.00
	Beldar for rubbing and polishing	per day	1.000	369.00	(0139)	369.00
	Bhisti	per day	1.000	332.00	(0101)	332.00
	Machine for rubbing of floors	per day	1.600	300.00	(0013)	480.000
	Sundries induding carborandum stone tec.	LS	161.980	2.12	(9999)	343.40
	Total					7251.45
	Add for water charges @ 1%					72.51


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B
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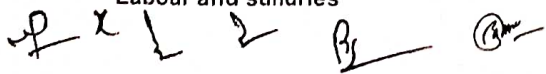
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Item No.	Description	Unit	Qty	Rate ₹	Rate Code.	Cost ₹
	Total					7323.961 (X)
	Add GST 12% on "X"( multiplying factor 0.1405)					1029.02
	Total					8352.98 (Y)
	Add for contractor's profit and overheads @ 15% on "Y"					1252.947
	Cost of 10 sqm					9605.92
	Cost of 1 sqm					960.59
	Add labour cess @ 1%					9.61
	Rate including labour cess					970.202
			Say	Rs.970.20	Per sqm	
<b>11.19.2</b>	<b>Medium shade using 50% white cement and 50% ordinary cement</b>					
	Details of cost for 10 sqm					
	Materials-					
	Terrazo tiles including 10% wastage	sqm	11.000	300.00	(1228)	3300.000
	Carriage of tiles	LS	40.430	2.12	(9999)	85.712
	Cement mortar 1:4(1 cement.4 coarse sand)	cum	0.224	2256.97	(2113)	505.562
	Grey cement					
	(i) for slurry @ 4.4 kg/sqm = 44 kg					
	(ii) 50% for grouting = 22 kg					
	66 kg or 0.066 tonne	tonne	0.066	4408.000	(0367)	290.928
	50% White cement for grouting	ton	0.022	11200.000	(036S)	246.400
	Carriage of cement	tonne	0.088	145.720	(2209)	12.823
	Medium shade pigment	kilogram	3.080	56.000	(0876)	172.480
	Labour and sundries					
	Mason 2nd class	per oay	1.600	369.000	(0124)	590.400
	Coolie	per day	2.000	318.000	(0115)	636.000
	Beldar for rubbing and polishing	per day	1.000	369.000	(0139)	369.000
	Bhisti	per day	1.000	332.000	(0101)	332.000
	Machine for rubbing of floors	per day	1.600	300.00	(0013)	480.000
	Sundries including carborandum stone tec.	LS	161.980	2.120	(9999)	343.398
	Total					7364.702
	Add for water charges @ 1 %					73.647
	Total					7438.349 (X)
	Add GST 12% on "X"( multiplying factor 0.1405)					1045.09
	Total					8483.44 (Y)
	Add for contractor's profit and overheads @ 15% on "Y"					1272.516
	Cost of 10 sqm					9755.953
	Cost of 1 sqm					975.595
	Add labour cess @ 1%					9.760
	Rate including labour cess					985.355
			Say	Rs.985.40	Per sqm	
<b>11.19.3</b>	<b>Dark shade using ordinary cement</b>					
	Details of cost for 10 sqm					
	Materials-Terrazo tiles including 10% wastage	sqm	11.000	260.00	(1229)	2860.00
	Carriage of tiles	LS	40.430	2.12	(9999)	85.71
	Cement mortar 1:4(1 cement:4 coarse sand)	cum	0.224	2256.97	(2113)	505.56
	Ordinary cement for					
	(i) Cement slurry @ 4.4 kg/sqm = A4 kg					
	(ii) Grouting = 44 kg					
	88 kg or 0.088 tonne	tonne	0.088	4408.00	(0367)	387.90
	Carriage of cement	tonne	0.088	145.72	(2209)	12.82

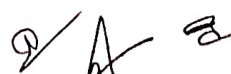
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Item No.	Description	Unit	Qty	Rate ₹	Rate Code.	Cost ₹
	Dark shade pigment	kilogram	3.080	45.54	(0874)	140.27
	Labour & sundries					
	Mason 2nd class	per day	1.600	369.00	(0124)	590.40
	Coolie	per day	2.000	318.00	(0115)	636.00
	Beldar for rubbing and polishing	per day	1.000	369.00	(0139)	369.00
	Bhisti	per day	1.000	332.00	(0101)	332.00
	Machine for rubbing of floors	per day	1.600	300.00	(0013)	480.000
	Sundries including carborandum stone tec.	LS	161.980	2.12	(9999)	343.40
	Total					6743.06
	Add for water charges @ 1 %					67.43
	Total					6810.495 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)					956.87
	Total					7767.37 (Y)
	Add for contractor's profit and overheads @ 15% on "Y"					1165.105
	Cost of 10 sqm					8932.48
	Cost of 1 sqm					893.25
	Add labour cess @ 1%					8.93
	Rate including labour cess					902.18
			<b>Say</b>	<b>Rs.902.20</b>	<b>Per sqm</b>	
<b>11.19.4</b>	<b>Ordinary cement without pigment</b>					
	Details of cost for 10 sqm					
	Ordinary cement with dark shade pigment (Rate as per item no. 11.34A.3)	sqm	10.000	893.25	(11.19.3)	8932.48
	Less dark shade pigment [3.08+2.84(for tiles)]	kilogram	5.920	45.54	(0874)	269.60 (A)
	Add for water charges @ 1 % on A					2.70 (B)
	Total A+B					272.30
	Add GST 12% on A+B (multiplying factor 0.1405)					38.26
	Total					310.56 (Y)
	Add for contractor's profit and overheads @ 15% on "Y"					46.58
	Cost of 10 sqm					9289.62
	Cost of 1 sqm					928.96
	Add labour cess @ 1%					9.29
	Rate including labour cess					938.25
			<b>Say</b>	<b>Rs.938.30</b>	<b>Per sqm</b>	
<b>11.20</b>	<b>Chequerred precast cement concrete tiles 22 mm thick with marble chips of size 6 mm in footpath &amp; courtyard jointed with neat cement slurry mixed with pigment to match the shade of tiles including rubbing and cleaning tec. Complete on 20 mm thick bed of cement mortar 1:4(1 cement:4 coarse sand)</b>					
<b>11.20.1</b>	<b>Light shade using white cement</b>					
	Details of cost for 10 sqm					
	Materials:					
	Chequerred c.c. tiles including 10% wastage	sqm	11.00	370.00	(7070)	4070.00
	Carriage of tiles	LS	40.43	2.12	(9999)	85.71
	Cement mortar 1:4(1 cement:4 coarse sand)	cum	0.22	2256.97	(2113)	496.53
	Grey cement slurry @ 4.4 kg/sqm	tonne	0.04	4882.00	(0367)	214.81
	White cement for grouting	ton	0.05	11200.00	(0368)	537.60
	Carriage of cement	tonne	0.09	145.72	(2209)	13.41
	Light shade pigment	kilogram	3.08	60.00	(0875)	184.80
	Labour and sundries					



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Item No.	Description	Unit	Qty	Rate ₹	Rate Code.	Cost ₹
	Mason 2nd class	per day	1.60	369.00	(0124)	590.40
	Coolie	per day	2.00	318.00	(0115)	636.00
	Beldar for rubbing and polshing (special rate)	per day	1.00	369.00	(0139)	369.00
	Bhisti	per day	1.00	332.00	(0101)	332.00
	Sundries including carborandum stone lec.	1 time	162.69	2.12	(9999)	344.90
	Total					7875.16
	Add for water charges @ 1 %					78.75
	Total					7953.91 (X)
	Add GST 12% on "X"( multiplying factor 0.1405)					1117.52
	Total					9071.44 (Y)
	Add for contractor's profit and overheads @ 15% on "Y"					1360.72
	Cost of 10 sqm					10432.15
	Cost of 1 sqm					1043.22
	Add labour cess @ 1%					10.43
	Rate including labour cess					1053.65
	<b>Say</b>			<b>Rs.1053.60</b>	<b>Per sqm</b>	
<b>11.20.2</b>	<b>Medium shade using 50% white cement 50% grey cement</b>					
	Details of cost for 10 sqm					
	Materials:					
	Chequerred c.c. tiles including 10% wastage	sqm	11.000	335.000	(7237)	3685.000
	Carriage of tiles	LS	40.430	2.120	(9999)	85.712
	Cement mortar 1:4 (1 cement:4 sand)	cum	0.220	2256.971	(2113)	496.534
	Grey cement for slurry @ 4.4 kg/sqm =44 kg					
	Grey cement for grouting 2.4 kg/sqm =24 kg					
	68 kg	tonne	0.068	4882.000	(0367)	331.976
	White cement for grouting @ 2.4 kg/sqm =24 kg	ton	0.024	11200.000	(0368)	268.800
	Carriage of cement	tonne	0.092	145.720	(2209)	13.406
	Light shade pigment	kilogram	3.080	56.000	(0876)	172.480
	Labour and sundries					
	Mason 2nd class	per day	1.600	369.000	(0124)	590.400
	Coolie	per day	2.000	318.000	(0115)	636.000
	Beldar for rubbing and polshing (special rate)	per day	1.000	369.000	(0139)	369.000
	Bhisti	per day	1.000	332.000	(0101)	332.000
	Sundries including carborandum stone tec.	LS	67.300	2.120	(9999)	142.676
	Total					7123.984
	Add for water charges @ 1 %					71.240
	Total					7195.223
	Add GST 12% on "X"( multiplying factor 0.1405)					1010.93
	Total					8206.15 (Y)
	Add for contractor's profit and overheads @ 15% on "Y"					1230.923
	Cost of 10 sqm					9437.075
	Cost of 1 sqm					943.708
	Add labour cess @ 1%					9.440
	Rate including labour cess					953.148
	<b>Say</b>			<b>Rs.953.10</b>	<b>Per sqm</b>	
<b>11.20.3</b>	<b>Dark shade using ordinary cement</b>					
	Details of cost for 10 sqm					
	Materials:					
	Chequerred c.c. tiles including 10% wastage	sqm	11.000	225.000	(7236)	2475.000
	Carriage of tiles	LS	40.430	2.120	(9999)	85.712
	Cement mortar 1:4(1 cement:4 coarse sand)	cum	0.220	2256.971	(2113)	496.534
	Grey cement					

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Item No.	Description	Unit	Qty	Rate ₹	Rate Code.	Cost ₹
	For slurry @ 4.4 kg/sqm =44 kg					
	For grouting =48 kg					
	92 kg say 0.092	tonne	0.092	4882.000	(0367)	449.144
	Carriage of cement	tonne	0.092	145.720	(2209)	13.406
	Dark shade pigment	kilogram	3.080	45.541	(0874)	140.266
	Labour and sundries					
	Mason 2nd class	per day	1.600	369.000	(0124)	590.400
	Coolie	per day	2.000	318.000	(0115)	636.000
	Beldar for rubbing and polishing (special rate)	per day	1.000	369.000	(0139)	369.000
	Bhisti	per day	1.000	332.000	(0101)	332.000
	Sundries including carborandum stone tec.	LS	67.300	2.12	(9999)	142.676
	Total					5730.138
	Add for water charges @ 1 %					57.301
	Total					5787.439 (X)
	Add GST 12% on "X"( multiplying factor 0.1405)					813.14
	Total					6600.57 (Y)
	Add for contractor's profit and overheads @ 15%					990.086
	Cost of 10 sqm					7590.661
	Cost of 1 sqm					759.066
	Add labour cess @ 1%					7.590
	Rate including labour cess					766.656
			<b>Say</b>	<b>Rs.766.70</b>	<b>Per sqm</b>	

### 11.20.4 Ordinary cement without any pigments

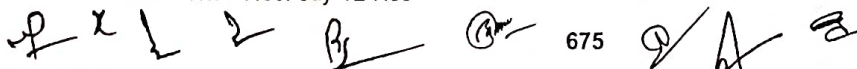
Details of cost for 10 sqm						
Materials:						
	Ordinary cement with dark shade pigments(Rate as per item no. 11.20.3)	sqm	10.000	759.066	(11.20.3)	7590.661
	Less dark sheet pigments	kilogram	5.920	45.541	(0874)	269.603 (A)
	Add for water charges @ 1 % on A					2.696 (B)
	Total					272.299
	Add GST 12% on "X"( multiplying factor 0.1405)					38.26
	Total					310.56 (Y)
	Add for contractor's profit and overheads @ 15% on "Y"					46.584
	Cost of 10 sqm					7947.801
	Cost of 1 sqm					794.780
	Add labour cess @ 1%					7.950
	Rate including labour cess					802.730
			<b>Say</b>	<b>Rs.802.70</b>	<b>Per sqm</b>	

**11.21 Providing and fixing 10 mm thick acid and / or alkali resistant tiles of approved make and colour using acid and / or alkali resisting mortar bedding, and joints filled with acid and / or alkali resisting cement as per IS : 4457, complete as per the direction of Engineer-in-Charge.**

**11.21.1 In flooring on a bed of 10 mm thick mortar 1:4 (1 acid proof cement : 4 coarse sand).**

**11.21.1.1 Acid and alkali resistant tile.**

Details of cost for 1 sqm.  
**MATERIAL:**  
 Acid proof tiles of size 300x300mm, 10mm thick =11.11 Nos+  
 Add wastage and breakage @ 2.5% = 0.28 Nos.  
 Total = 11.39 Nos. Say 12 Nos


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Item No.	Description	Unit	Qty	Rate ₹	Rate Code.	Cost ₹
	Acid and alkali resistant tiles 300x300 mm size 10 mm thick	10 Nos	12.000	500.00	(7077)	600.000
	Carriage	L.S.	6.240	2.12	(9999)	13.229
	10mm thick cement mortar 1:4 (1 Cement: 4 Coarse sand)					
	Rate as per Item Number 2113 of SH: Mortars	cum	0.012	2256.97	(2113)	27.084
	Mortar for pointing in acid/ alkali resistant cement	L.S.	40.430	2.12	(9999)	85.712
	Cement for slurry over bed @ 3.3kg per sqm Portland Cement	tonne	0.003	4882.00	(0367)	16.111
	Difference of cost for using acid proof cement instead of ordinary cement					
	Acid Proof cement	tonne	0.008	7800.00	(7024)	61.620
	Deduct Portland Cement	tonne	-0.008	4882.00	(0367)	-38.568
	LABOUR:					
	Mason (brick layer) 1 st class	day	0.200	413.00	(0123)	82.600
	Coolie	day	0.200	318.00	(0115)	63.600
	Sundries including carriage of cement etc.	L.S.	26.910	2.12	(9999)	57.049
	TOTAL					968.436
	Add Water Charges @ 1%					9.684
	TOTAL					978.120 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)					137.43
	Total					1115.55 (Y)
	Add CPOH @ 15%					167.332
	Cost of 1 sqm					1282.878
	Add labour cess @ 1%					12.830
	Rate including labour cess					1295.708
	Say			Rs.1295.70		Per sqm
<b>11.21.2</b>	<b>In dado/skirting on 12 mm thick mortar 1:4 (1 acid proof cement : 4 coarse sand).</b>					
<b>11.21.2.1</b>	<b>Acid and alkali resistant tile.</b>					
	Details of cost for 1 sqm.					
	MATERIAL:					
	Acid proof tiles of size 300x300mm, 10mm thick = 11.11Nos.+					
	Add wastage and breakage @ 2.5% =					
	0.28 Nos.					
	Total = 11.39 Nos. Say 12 Nos					
	Acid and alkali resistant tiles 300x300 mm size 10 mm thick	10 Nos	12.000	500.000	(7077)	600.000
	Carriage	L.S.	6.240	2.120	(9999)	13.229
	10mm thick cement mortar 1:4 (1 Cement: 4 Coarse sand)					
	Rate as per Item Number 2113 of SH: Mortars	cum	0.014	2256.971	(2113)	31.598
	Difference of cost for using acid proof cement instead of ordinary cement					
	Acid Proof cement	tonne	0.0086	7800.000	(7024)	67.080
	Deduct Portland Cement	tonne	-0.0086	4882.000	(0367)	-41.985
	Mortar for pointing in acid proof cement	LS	40.4300	2.120	(9999)	85.712
	Acid proof cement for slurry over plaster 3.3kg/sqm					
	Acid Proof cement	tonne	0.0033	7800.000	(7024)	25.740
	LABOUR:					

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Item No.	Description	Unit	Qty	Rate ₹	Rate Code.	Cost ₹
	Mason (brick layer) 1 st class	day	0.250	413.000	(0123)	103.250
	Coolie	day	0.250	318.000	(0115)	79.500
	Sundries including carriage of cement etc.	L.S.	26.910	2.120	(9999)	57.049
	TOTAL					1021.172
	Add Water Charges @ 1%					10.212
	TOTAL					1031.384 (X)
	Add GST 12% on "X"( multiplying factor 0.1405)					144.91
	Total					1176.29 (Y)
	Add CPOH @ 15%					176.444
	Cost of 1 sqm					1352.737
	Add labour cess @ 1%					13.530
	Rate including labour cess					1366.267
			<b>Say</b>	<b>Rs.1366.30</b>		<b>Per sqm</b>

- 11.36** Providing and fixing 1st quality ceramic glazed wall tiles conforming to IS : 15622 (Thickness to be specified by the manufacture ) of approved make in all colours, shades except burgundy , bottle green , black of any size as approved by Engineer-in-charge in skirting , risers of steps and dados ever 12 mm thick bed of cement Motar 1:3(1 cement: 3 coarse sand ) and jointing with grey cement slurry @ 3.3 kg per sqm including pointing in white cement mixed with pigment of matching shade complete.

Details of cost of ceramic glazed tiles in skirting , risers of steps & dados for 1 sqm

**Materials :**

5 mm thick ceramic glazed tiles = 1.00 sqm

Add wastage = 0.05 sqm

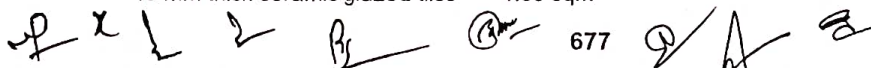
	1.05 sqm.	sqm	1.050	190.000	(7800)	199.500
Carriage of tiles		Ls	6.240	2.120	(9999)	13.229
12 mm thick CM. 1:3 (1 cement: 3 coarse sand) mortar for pointing in white cement	0.014	cum	0.014	2848.955	(2112)	39.885
Cement for slurry @ 3.3 kg/sqm		tonne	0.003	4882.000	(0367)	16.111
Labour						
Mason 1st class		per day	0.250	413.000	(0123)	103.250
Coolie		per day	0.250	318.000	(0115)	79.500
sundries including carriage of cement etc		LS	26.910	2.120	(9999)	57.049
Add for water charge @ 1 %						5.942
Total						600.178 (X)
Add GST 12% on "X"( multiplying factor 0.1405)						84.32
Total						684.50 (Y)
Add for OH & CP @ 15 %						102.675
Cost of 1 sqm						787.178
Add labour cess @ 1%						7.870
Rate including labour cess						795.048
			<b>Say</b>	<b>Rs.795.00</b>		<b>Per sqm</b>

- 11.37** Providing and laying Ceramic glazed floor tiles 300x300 mm (thickness to be specified by the manufacturer) of ist quality conforming to IS : 15622 of approved make in colours such as white , Ivory , Grey , Fume Red , Brown , laid on 20 mm thick Cement motar 1:4 (1 cement: 4 coarse sand ) including pointing the joints with white cement and matching pigment etc.. complete.

Details of cost of ceramic glazed tiles for flooring for 1 sqm area.

**Materials :**

10 mm thick ceramic glazed tiles = 1.00 sqm


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## BCD Analysis of Rates 2022

Item No.	Description	Unit	Qty	Rate ₹	Rate Code.	Cost ₹
	Add wastage = 0.05 sqm					
	1.05 sqm.	sqm	1.050	175.000	(7801)	183.750
	Carriage of tiles	Ls	6.240	2.120	(9999)	13.229
	20 mm thick CM. 1:4 (1 cement 4 coarse sand)	cum	0.024	2256.971	(2113)	54.167
	mortar for pointing in white cement	LS	20.200	2.120	(9999)	42.824
	Cement for slurry @ 3.3 kg/sqm	tonne	0.003	4882.000	(0367)	16.111
	Labour:					
	Mason 1 st dass	per day	0.200	413.000	(0123)	82.600
	Coolie	per day	0.200	318.000	(0115)	63.600
	sundries including carriage of cement etc	LS	26.910	2.120	(9999)	57.049
	Add for water charge @ 1 %					5.133
	Total					518.463 (X)
	Add GST 12% on "X"( multiplying factor 0.1405)					72.84
	Total					591.31 (Y)
	Add for OH & CP @ 15 %					88.696
	Cost of 1 sqm					680.003
	Add labour cess @ 1%					6.800
	Rate including labour cess					686.803
	Say			Rs.686.80	Per sqm	

**11.37A Providing and fixing 1st quality ceramic glazed floor tiles conforming to IS : 15622 (thickness to be specified by the manufacturer ) of approved make in all colours, shades except burgundy, bottle green, black of any size as approved by Engineer-in-Charge in skirting, risers of steps and dados over 12 mm thick bed of cement Mortar 1:3 (1 cement: 3 coarse sand) and jointing with grey cement slurry @ 3.3kg per sqm including pointing in white cement mixed with pigment of matching shade complete.**

Detail of Cost for 1.00 Sqm

Material

7801	Glazed Ceramic Floor Tile = 1.00 Sqm					
	Add for wastage and breakage @2.5%					
	= 0.025 Sqm =1.025 Sqm	sqm	1.03	175.00	(7801)	179.38
9999	Carriage of Tiles	L.S.	6.24	2.12	(9999)	13.23
3.8	Cement mortar 1:3 (1 Cement: 3 Coarse Sand)	cum	0.01	2848.95	(3.8)	39.89
9999	Mortar for pointing in white cement	L.S.	3.64	2.12	(9999)	7.72
367	Cement for slurry over bed @3.3 Kg/Sqm	tonne	0.0033	4882.00	(0367)	16.11

Labour

123	Mason 1st Class	day	0.25	413.00	(0123)	103.25
115	Coolie	day	0.25	318.00	(0115)	79.50
9999	Sundries including carriage of Cement etc	L.S.	26.91	2.12	(9999)	57.05

Total

Add Water Charges @1% 496.12

Total 501.077 (X)

Add GST 12% on "X"( multiplying factor 0.1405) 70.40

Total 571.48 (Y)

Add for OH & CP @ 15 % 85.722

Cost 1 sqm 657.20

Add labour cess @ 1% 6.570

Rate including labour cess 663.77

Say Rs.663.80 Per sqm

## BCD Analysis of Rates 2022

Item No.	Description	Unit	Qty	Rate ₹	Rate Code.	Cost ₹
11.38	Providing and laying Ceramic glazed floor tiles 300x300 mm (thickness to be specified by the manufacturer) of 1st quality conforming to IS : 15622 of approved make in colours such shades except white . Ivory , Grey , Fume Red , Brown . laid on 20 mm thick Cement motar 1:4 (1 cement: 4 coarse sand ) including pointing the joints with white cement and matching pigment etc.. complete.					
	Details of cost of ceramic glazed tiles for flooring for 1 sqm area.					
	Materials :					
	10 mm thick ceramic glazed tiles = 1.00 sqm					
	Add wastage = 0.05 sqm					
	1.05 sqm.	sqm	1.050	300.000	(7802)	315.000
	Carriage of tiles	LS	6.240	2.120	(9999)	13.229
	20 mm thick CM. 1:4 (1 cement: 4 coarse sand)	cum	0.024	2256.971	(2113)	54.167
	mortar for pointing in white cement	LS	20.200	2.120	(9999)	42.824
	Cement for slurry @ 3.3 kg/sqm	tonne	0.003	4882.000	(0367)	16.111
	<b>Labour:</b>					
	Mason 1st class	per day	0.200	413.000	(0123)	82.600
	Coolie	per day	0.200	318.000	(0115)	63.600
	sundries including carriage of cement etc	LS	26.910	2.120	(9999)	57.049
	total					644.580
	Add for water charge @ 1%					6.446
	total					651.026 (X)
	Add GST 12% on "X"( multiplying factor 0.1405)					91.47
	Total					742.49 (Y)
	Add for OH & CP @ 15 %					111.374
	Cost of 1 sqm					853.869
	Add labour cess @ 1%					8.540
	Rate including labour cess					862.409
				Say	Rs.862.40	Per sqm

11.39	Providing and laying Ceramic glazed floor tiles (300x300) mm (thickness to be specified by the manufacturer) of 1st quality conforming to IS : 13755 of approved make make in colours such as white , Ivory . Grey . Fume , Red , Brown , laid on 20 mm thick cement motar 1:4(1 cement: 4 Coarse sand) including grouting the joints with white cement and matching pigments etc, complete. Details of cost of ceramic glazed tiles for flooring for 1 sqm area .					
	Materials :					
	10 mm thick ceramic glazed tiles = 1.00 sqm					
	Add wastage = 0.05 sqm					
	1.05 sqm.	sqm	1.050	340.000	(7803)	357.000
	20 mm thick CM. 1:4 (1 cement: 4 coarse sand)	cum	0.024	2256.971	(2113)	54.167
	mortar for pointing in white cement	1 time	15.550	2.120	(9999)	32.966
	Cement for slurry @ 3.3 kg/sqm	tonne	0.003	4882.000	(0367)	16.111
	<b>Labour:</b>					
	Mason 1st class	per day	0.700	413.000	(0123)	289.100
	Coolie	per day	0.700	318.000	(0115)	222.600
	sundries including carriage of cement etc	1 time	10.350	2.120	(9999)	21.942
	Add for water charge @ 1 %					9.939
						1003.825 (X)
	Add GST 12% on "X"( multiplying factor 0.1405)					141.04
	Total					1144.86 (Y)
	Add for OH&CP@15%					171.729

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## BCD Analysis of Rates 2022

Item No.	Description	Unit	Qty	Rate ₹	Rate Code.	Cost ₹
	Cost of 1 sqm					1316.591
	Add labour cess @ 1%					13.170
	Rate including labour cess					1329.761
			Say	Rs.1329.80	Per sqm	

**11.40. Providing and laying Ceramic glazed floor tiles 300x300 mm (thickness to be specified by the manufacturer) of 1st quality conforming to IS : 13755 of approved make in colours except white . Ivory , Grey , Fume , Red , Brown , laid on 20 mm thick cement motar 1:4 (1 cement: 4 Coarse sand) including grouting the joints with white cement and matching pigments etc. complete. Details of cost of ceramic glazed tiles for flooring for 1 sqm area .**

**Materials:**

10 mm thick ceramic glazed tiles = 1.00 sqm  
Add wastage = 0.05 sqm

1.05 sqm.	sqm	1.050	400.000	(7804)	420.000
20 mm thick CM. 1:4 (1 cement: 4 coarse sand)	cum	0.024	2256.971	(2113)	54.167
mortar for pointing in white cement	1 time	15.550	2.120	(9999)	32.966
Cement for slurry @ 3.3 kg/sqm	tonne	0.003	4882.000	(0367)	16.111
<b>Labour:</b>					
Mason 1st class	per day	0.700	413.000	(0123)	289.100
Coolie	per day	0.700	318.000	(0115)	222.600
sundries including carriage of cement etc	1 time	10.350	2.120	(9999)	21.942
Add for water charge @ 1 %					10.569

Add GST 12% on "X"( multiplying factor 0.1405) 1067.455  
149.98

Total

1217.43 (Y)

Add for OH & CP @ 15 %

182.615

Cost of 1 sqm

1400.047

Add labour cess @ 1%

14.000

Rate including labour cess

1414.047

Say Rs.1414.00 Per sqm

**11.41 Providing and laying vitrified floor tiles in different sizes (thickness to be specified by the manufacturer) with water absorption's less than 0.08 % and conforming to IS : 15622 of approved make in all colours and shades, laid on 20 mm thick cement mortar 1:4(1 cement: 4 coarse sand ) including grouting the joint with white cement and matching pigments etc.. complete.**

**1 1.41.1 Size of Tile 50x50 cm.**

Details of cost of porcelain tiles for flooring with tile of prescribed size for 1 sqm area.

**Materials :**

10 mm thick ceramic glazed tiles = 1.00 sqm  
Add wastage = 0.05 sqm

1.05 sqm.	sqm	1.050	500.00	(8620)	525.00
20 mm thick CM. 1:4 (1 cement: 4 coarse sand)	cum	0.024	2256.97	(2113)	54.17
mortar for pointing in white cement	1 time	15.550	2.12	(9999)	32.97
Cement for slurry @ 3.3 kg/sqm	tonne	0.003	4882.00	(0367)	16.11
<b>Labour:</b>					
Mason 1st class	per day	0.700	413.00	(0123)	289.10
Coolie	per day	0.700	318.00	(0115)	222.60
sundries including carriage of cement etc	1 time	10.350	2.12	(9999)	21.94

Total

1161.89

Add for water charge @ 1 %

11.62

Total

1173.50 (X)

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

164.88

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Item No.	Description	Unit	Qty	Rate ₹	Rate Code.	Cost ₹
	Total					1338.38 (Y)
	Add for OH & CP@15% on "Y"					200.76
	Cost of 1 sqm					1539.14
	Add labour cess @ 1%					15.39
	Rate including labour cess					1554.53
			<b>Say</b>	<b>Rs.1554.50</b>	<b>Per sqm</b>	
<b>1 1.41.2</b>	<b>Size of Tile 60x60 cm.</b>					
	Details of cost of porcelain tiles for flooring with tile of prescribed size for 1 sqm area.					
	Materials :					
	10 mm thick ceramic glazed tiles	= 1.00 sqm				
	Add wastage	= 0.05 sqm				
		1.05 sqm.	sqm	1.050	560.00 (8621)	588.000
	20 mm thick CM. 1:4 (1 cement: 4 coarse sand)		cum	0.024	2256.971 (2113)	54.167
	mortar for pointing in white cement		1 time	15.550	2.120 (9999)	32.966
	Cement for slurry @ 3.3 kg/sqm		tonne	0.003	4882.000 (0367)	16.111
	<b>Labour:</b>					
	Mason 1st class		per day	0.700	413.000 (0123)	289.100
	Coolie		per day	0.700	318.000 (0115)	222.600
	sundries including carriage of cement etc		1 time	10.350	2.120 (9999)	21.942
	Total					1224.886
	Add for water charge @ 1 %					12.249
	Total					1237.135 (X)
	Add GST 12% on "X"( multiplying factor 0.1405)					173.82
	Total					1410.95 (Y)
	Add for OH & CP@15%					211.643
	Cost of 1 sqm					1622.595
	Add labour cess @ 1%					16.23
	Rate including labour cess					1638.83
			<b>Say</b>	<b>Rs.1638.80</b>	<b>Per sqm</b>	
<b>1 1.41.3</b>	<b>Size of Tile 80x80 cm.</b>					
	Details of cost of porcelain tiles for flooring with tile of prescribed size for 1 sqm area.					
	Materials :					
	10 mm thick ceramic glazed tiles	= 1.00 sqm				
	Add wastage	= 0.05 sqm				
		1.05 sqm.	sqm	1.050	900.00 (8622)	945.000
	20 mm thick CM. 1:4 (1 cement: 4 coarse sand)		cum	0.024	2256.971 (2113)	54.167
	mortar for pointing in white cement		1 time	15.550	2.120 (9999)	32.966
	Cement for slurry @ 3.3 kg/sqm		tonne	0.003	4882.000 (0367)	16.111
	<b>Labour:</b>					
	Mason 1st class		per day	0.700	413.000 (0123)	289.100
	Coolie		per day	0.700	318.000 (0115)	222.600
	sundries including carriage of cement etc		1 time	10.350	2.120 (9999)	21.942
	Total					1581.886
	Add for water charge @ 1 %					15.819
	Total					1597.705 (X)
	Add GST 12% on "X"( multiplying factor 0.1405)					224.48
	Total					1822.18 (Y)
	Add for OH & CP@15%					273.327
	Cost of 1 sqm					2095.510
	Add labour cess @ 1%					20.96
	Rate including labour cess					2116.47
			<b>Say</b>	<b>Rs.2116.50</b>	<b>Per sqm</b>	


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Item No.	Description	Unit	Qty	Rate ₹	Rate Code.	Cost ₹
1 1.41.4	<b>Size of Tile 100x100 cm.</b> Details of cost of porcelain tiles for flooring with tile of prescribed size for 1 sqm area. Materials : 10 mm thick ceramic glazed tiles = 1 00 sqm Add wastage = 0 05 sqm 1.05 sqm.	sqm	1.050	1390.00	(8623)	1459.500
	20 mm thick CM 1:4 (1 cement: 4 coarse sand) mortar for pointing in white cement	cum	0.024	2256.971	(2113)	54.167
	Cement for slurry @ 3.3 kg/sqm	1 lime	15.550	2.120	(9999)	32.966
		tonne	0.003	4882.000	(0367)	16.111
	<b>Labour:</b> Mason 1st class	per day	0.700	413.000	(0123)	289.100
	Coolie	per day	0.700	318.000	(0115)	222.600
	sundries including carriage of cement etc	1 lime	10.350	2.120	(9999)	21.942
	Total					2096.386
	Add for water charge @ 1 %					20.964
	Total					2117.350 (X)
	Add GST 12% on "X"( multiplying factor 0.1405)					297.49
	Total					2414.84 (Y)
	Add for OH & CP@15%					362.226
	Cost of 1 sqm					2777.063
	Add labour cess @ 1 %					27.77
	Rate including labour cess					2804.83
			Say	Rs.2804.80	Per sqm	

**11.22 Tile work in skirting, risers of steps and dado(upto 2m height) over 12 mm thick bed of cement mortar 1:3(1 cement;3 coarse sand) and jointed with grey cement slurry@ 3.3 kg/sqm including pointing in white cement mixed with pigment of matching shade complete.**

**11.22.1 Marble tiles (polished) Raj nagar**

**11.22.1.1 8 mm thick**

Details of cost for 1 sqm

**Materials:-**

8 mm thick marble tiles (polished) Raj nagar

including wastage sqm 1.061 400.00 (2751) 424.40 (A)

Carriage of tiles LS 3.900 2.12 (9999) 8.27 (A)

12 mm thick cement mortar 1:3 (1 cement:3 coarse sand) cum 0.014 2848.95 (2112) 39.89 (A)

Mortar for pointing in white cement LS 25.350 2.12 (9999) 53.74 (A)

Cement for slurry @ 3.3 kg/sqm tonne 0.003 4882.00 (0367) 16.11 (A)

Pigment LS 2.060 2.12 (9999) 4.37 (A)

**Labour:**

Mason 1st class per day 0.770 413.00 (0123) 318.01 (A)

Coolie per day 0.770 318.00 (0115) 244.86 (A)

Sundries including carnage of cement etc. LS 16.900 2.12 (9999) 35.83 (A)

Total 1145.471

Add for water charge @ 1 % 11.455

Total 1156.926 (X)

Add GST 12% on "X"( multiplying factor 0.1405) 162.55

Total 1319.47 (Y)

Add for contractor's profit and overheads @ 15% on "Y" 197.92

Cost of 1 sqm 1517.40

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Item No.	Description	Unit	Qty	Rate ₹	Rate Code.	Cost ₹
	Add labour cess @ 1%					15.17
	Rate including labour cess					1532.57
		Say		1532.60	Per sqm	
<b>11.23</b>	<b>Marble stone flooring with 18 mm thick marble stone (sample of marble shall be approved by Engineer-in-charge) over 20 mm (average) thick base of cement mortar 1:4 (1 cement: 4 coarse sand) laid and jointed with grey cement slurry including rubbing and polishing complete with:</b>					
<b>11.23.1</b>	<b>Makrana white second quality.</b>					
	Details of cost for 10 sqm					
	Materials-					
	18 mm thick marble slab=10.00 sqm					
	Add for wastage 15% = 1.50 sqm=					
	11.50 sqm					
	White marble slab Makrana second quality plain veined 18 mm thick					
	sqm	11.500	1450.000	(6001)	16675.000	
	Base mortar 1:4 (1 Cement: 4 coarse sand)					
	Rate as per Item Number 2113 of SH:	cum	0.224	2256.971	(2113)	505.562
	Mortars					
	Cement for slurry @ 4.4. kg/sqm for bedding =44.00 kg					
	for jointing =6.00 kg					
	50.00 kg	tonne	0.050	4882.000	(0367)	244.100
	Carriage of marble slab	LS	26.910	2.120	(9999)	57.049
	Labour-					
	(For finishing, polishing and fixing)					
	Mason 1st class	per day	1.200	413.000	(0123)	495.600 (A)
	Beldar	per day	1.000	306.000	(0114)	306.000 (A)
	Coolie	per day	1.000	318.000	(0115)	318.000 (A)
	Beldar for rubbing & polishing (special work)	per day	5.000	369.000	(0139)	1845.000 (A)
	Machine for rubbing floor	Per day	4.000	300.000	(0013)	1200.000 (A)
	Sundries and carriage of cement etc.	LS	134.550	2.120	(9999)	285.246 (A)
	Total					21931.557
	Add for water charge @ 1%					219.316
	Total					22150.872 (X)
	Add GST 12% on "X"( multiplying factor 0.1405)					3112.20
	Total					25263.07 (Y)
	Add for contractor's profit and overheads @ 15% on "Y"					3789.46
	Cost of-10 sqm					29052.530
	Cost of 1 sqm					2905.253
	Add labour cess @ 1%					29.050
	Rate including labour cess					2934.303
		Say		Rs.2934.30	Per sqm	

**11.23.2 Rajnagar plain white marble 18mm thick above**

0.10 sqm upto 0.20 sqm

Details of cost for 10 sqm

Materials-

18 mm thick marble slab=10.00 sqm

Add for wastage 15% = 1.50 sqm=

11.50 sqm

sqm      11.500      550.000      (7071)      6325.000

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Item No.	Description	Unit	Qty	Rate ₹	Rate Code.	Cost ₹
	Base mortar lime 1:1:1(1 lime putty:1 Surkhi 1 Coarse sand) or 1:4(1 Cement:4 Coarse sand)	cum	0.224	2256.971	(2113)	505.562
	Cement for slurry @ 4.4. kg/sqm for bedding =44.00 kg for jointing =6.00 kg 50.00 kg	tonne	0.050	4882.000	(0367)	244.100
	Carriage of marble slab	LS	26.910	2.120	(9999)	57.049
	Labour- (For finishing, polishing and fixing)					
	Mason 1st class	per day	1.200	413.000	(0123)	495.600 (A)
	Beldar	per day	1.000	306.000	(0114)	306.000 (A)
	Coolie	per day	1.000	318.000	(0115)	318.000 (A)
	Beldar for rubbing & polishing (special work)	per day	5.000	369.000	(0139)	1845.000 (A)
	Machine for rubbing floor	Per day	4.000	300.000	(013)	1200.000 (A)
	Sundries and carriage of cement etc.	1 time	134.550	2.120	(9999)	285.246 (A)
	Total					11581.557
	Add for water charge @ 1 %					115.816
	Total					11697.372 (X)
	Add GST 12% on "X"( multiplying factor 0.1405)					1643.48
	Total :					13340.85 (Y)
	Add for contractor's profit and overheads @ 15% on "Y"					2001.13
	Cost of-10 sqm					15341.981
	Cost of 1 sqm					1534.198
	Add labour cess @ 1%					15.340
	Rate including labour cess					1549.538
	<b>Say</b>			<b>Rs.1549.50</b>	<b>Per sqm</b>	

### 11.23.2.1 Rajnagar plain white marble 18mm thick above

0.20 sqm upto 0.50 sqm  
Details of cost for 10 sqm

Materials-

18 mm thick marble slab=10.00 sqm

Add for wastage 15% = 1.50 sqm

11.50 sqm

sqm 11.500 650.000 (7453) 7475.000

Base mortar:lime 1.1:1(1 lime putty:1 Surkhi:1

Coarse sand) or 1:4(1 Cement 4 Coarse sand)

cum 0.224 2256.971 (2113) 505.562

Cement for slurry @ 4.4. kg/sqm

for bedding =44.00 kg

for jointing =6.00 kg

50.00 kg

tonne 0.050 4882.000 (0367) 244.100

Carriage of marble slab

LS 26.910 2.120 (9999) 57.049

Labour -

(For finishing, polishing and fixing)

Mason 1 st class

per day 1.200 413.000 (0123) 495.600 (A)

Beldar

per day 1.000 306.000 (0114) 306.000 (A)

Coolie

per day 1.000 318.000 (0115) 318.000 (A)

Beldar for rubbing & polishing (special work)

per day 5.000 369.000 (0139) 1845.000 (A)

Machine

Per day 4.000 300.000 (0013) 1200.000 (A)

Sundries and carriage of cement etc.

1 time 134.550 2.120 (9999) 285.246 (A)

Total

12731.557

Add for water charge @ 1 %

127.316

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Item No.	Description	Unit	Qty	Rate ₹	Rate Code.	Cost ₹
	Total					12858.872 (X)
	Add GST 12% on "X"( multiplying factor 0.1405)					1806.67
	Total					14665.54 (Y)
	Add for contractor's profit and bverheads @ 15% on "Y"					2199.83
	Cost of 10 sqm					16865.375
	Cost of 1 sqm					1686.538
	Add labour cess @ 1%					16.870
	Rate including labour cess					1703.408
	<b>Say</b>			<b>Rs.1703.40</b>	<b>Per sqm</b>	
<b>11.23.4</b>	<b>Black Zebra marble</b>					
	Details of cost for 10 sqm					
	Materials-					
	18 mm thick marble slab=10.00 sqm					
	Add for wastage 15% = 1.50 sqm					
	11.50 sqm	sqm	11.500	1000.000	(6019)	11500.000
	Base mortar lime 1:1:1(1 lime putty: 1 Surkhi:1					
	Coarse sand) or 1:4(1 Cement:4 Coarse sand)	cum	0.224	2256.971	(2113)	505.562
	C ement for slurry @ 4.4. kg/sqm					
	for bedding =44.00 kg					
	for jointing =6.00 kg					
	50.00 kg	tonne	0.050	4882.000	(0367)	244.100
	Carriage of marble slab	LS	26.910	2.120	(9999)	57.049
	Labour -					
	(For finishing, polishing and fixing) Mason 1 st class	per day	1.200	413.000	(0123)	495.600 (A)
	Beldar	per day	1.000	306.000	(0114)	306.000 (A)
	Coolie	per day	1.000	318.000	(0115)	318.000 (A)
	Beldar for rubbing & polishing (special work)	per day	5.000	369.000	(0139)	1845.000 (A)
	Machine for rubbing of floors	Per day	4.000	300.000	(0013)	1200.000 (A)
	Sundries and carriage of cement etc.	1 time	134.550	2.120	(9999)	285.246 (A)
	Total					16756.557
	Add for water charges @. 1 %					167.566
	Total					16924.122 (X)
	Add GST 12% on "X"(multiplying factor 0.1405)					2377.839
	Total					19301.962 (Y)
	Add for contractor's profit and overheads @ 15% on "Y"					2895.294
	Cost of 10sqm					22197.256
	Add labour cess @ 1%					2219.726
	Cost of 1 sqm					22.200
	Rate including labour cess					2241.926
	<b>Say</b>			<b>Rs.2241.90</b>	<b>Per sqm</b>	
<b>11.23.5</b>	<b>Udaipur green marble</b>					
	Details of cost for 10 sqm					
	Materials-					
	18 mm thick marble slab=10.00 sqm					
	Add for wastage 15% = 1.50 sqm					
	11.50 sqm	sqm	11.500	620.000	(6010)	7130.000
	Base mortar lime 1:1:1(1 lime putty:1 Surkhi:1					


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Item No.	Description	Unit	Qty	Rate ₹	Rate Code.	Cost ₹
	Coarse sand) or 1:4(1 CemenM Coarse sand)	cum	0.224	2256.971	(2113)	505.562
	C ement for slurry @ 4.4. kg/sqm for bedding =44.00 kg for jointing =6.00 kg 50.00 kg	tonne	0.050	4882.000	(0367)	244.100
	Carriage of marble slab	LS	26.910	2.120	(9999)	57.049
	Labour - (For finishing, polishing and fixing)					
	Mason 1st class	per day	1.200	413.000	(0123)	495.600 (A)
	Beldar	per day	1.000	306.000	(0114)	306.000 (A)
	Coolie	per day	1.000	318.000	(0115)	318.000 (A)
	Beldar for rubbing & polishing (special work)	per day	5.000	369.000	(0139)	1845.000 (A)
	Machine	Per day	4.000	300.000	(0013)	1200.000 (A)
	Sundries and carriage of cement etc.	LS	134.550	2.120	(9999)	285.246 (A)
	Total					12386.557
	Add for water charges @. 1 %					123.866
	Total					12510.422 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)					1757.714
	Total					14268.137 (Y)
	Add for contractor's profit and overheads @ 15% on "Y"					2140.220
	Cost of 10 sqm					16408.357
	Cost of 1 sqm					1640.836
	Add labour cess @ 1%					16.410
	Rate including labour cess					1657.246
	<b>Say</b>			<b>Rs.1657.20</b>	<b>Per sqm</b>	
<b>11.23.6</b>	<b>Pink marble</b>					
	Details of cost for 10 sqm					
	Materials-					
	18 mm thick marble slab=10.00 sqm					
	Add for wastage 15% = 1.50 sqm					
	11.50 sqm	sqm	11.500	685.000	(6007)	7877.500
	Base mortar lime 1:1:1(1 lime putty:1 Surkhi:1					
	Coarse sand) or 1:4(1 Cement:4 Coarse sand)	cum	0.224	2256.971	(2113)	505.562
	C ement for slurry @ 4.4. kg/sqm for bedding =44.00 kg for jointing =6.00 kg 50.00 kg	tonne	0.050	4882.000	(0367)	244.100
	Carriage of marble slab	LS	26.910	2.120	(9999)	57.049
	Labour - (For finishing, polishing and fixing)					
	Mason 1st class	per day	1.200	413.000	(0123)	495.600 (A)
	Beldar	per day	1.000	306.000	(0114)	306.000 (A)
	Coolie	per day	1.000	318.000	(0115)	318.000 (A)
	Beldar for rubbing & polishing (special work)	per day	5.000	369.000	(0139)	1845.000 (A)
	Machine	Per day	4.000	300.000	(0013)	1200.000 (A)
	Sundries and carriage of cement etc.	1 time	134.550	2.120	(9999)	285.246 (A)
	Total					13134.057
	Add for water charges @. 1 %					131.341
	Total					13265.397 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)					1863.788
	Total					15129.186 (Y)

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Item No.	Description	Unit	Qty	Rate ₹	Rate Code.	Cost ₹
	Add for contractor's profit and overheads @ 15% on "Y"					2269.378
	Cost of 10 sqm					17398.563
	Cost of 1 sqm					1739.856
	Add labour cess @ 1%					17.400
	Rate including labour cess					1757.256
	<b>Say</b>			<b>Rs.1757.30</b>	<b>Per sqm</b>	
<b>11.24</b>	<b>Extra for nosing in marble stone for treads</b>					
	Details of cost for 10 m					
	Labour -					
	Mason (ornamental) marble stone	per day	2.000	413.000	(0126)	826.000
	Seldar	per day	1.500	306.000	(0114)	459.000
	Beldar for polishing and rubbing (special rate )	per day	2.500	369.000	(0139)	922.500
	Sundries	LS	53.820	2.120	(9999)	114.098
	Total					2321.598
	Add for water charges @. 1 %					23.216
	Total					2344.814 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)					329.446
	Total					2674.261 (Y)
	Add for contractor's profit and overheads @ 15% on "Y"					401.139
	Cost of 10 sqm					3075.400
	Cost of 1 sqm					307.540
	Add labour cess @ 1%					3.080
	Rate including labour cess					310.620
	<b>Say</b>			<b>Rs.310.60</b>	<b>Per sqm</b>	
<b>11.25</b>	<b>Extra for marble stone flooring in treads steps and risers using single length up to 2.00m</b>					
	Not exceeding 30 cm in width.					
	Details of cost for 10 sqm					
	Labour -					
	Mason (1 st class )	per day	1.950	413.000	(0123)	805.350
	Beldar	per day	1.400	306.000	(0114)	428.400
	Coolie	per day	0.750	318.000	(0115)	238.500
	Beldar for poolishing and rubbing (special rate )	per day	3.180	369.000	(0139)	1173.420
	Sundries	LS	53.820	2.120	(9999)	114.098
	Total					2759.768
	Add for water charges @. 1 %					27.598
	Total					2787.366 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)					391.625
	Total					3178.991 (Y)
	Add for contractor's profit and overheads @ 15% on "Y"					476.849
	Cost of 10 sqm					3655.840
	Cost of 1 sqm					365.584
	Add labour cess @ 1%					3.660
	Rate including labour cess					369.244
	<b>Say</b>			<b>Rs.369.20</b>	<b>Per sqm</b>	<b>per sqm</b>

### KOTA STONE FLOORING

- 11.26** Kota stone slab flooring over 20 mm (average ) thick base laid over and jointed with grey cement slurry mixed with pigment to match the shade of the slab including rubbing and polishing complete . Base with 1:1:1 (1 lime : 1 surkhi: 1 coarse sand ) / 1:4 (1 cement: 4 coarse sand )


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## BCD Analysis of Rates 2022

Item No.	Description	Unit	Qty	Rate ₹	Rate Code.	Cost ₹
11.26.1	<b>20 to 25 mm thick -</b> Details of cost for 10 sqm					
	Materials-					
	Kota stone slab 20 mm to 25 mm thick (semi-polished)					
	15% wastage	sqm	11.500	320.000	(1168)	3680.000
	Carriage of stone blocks white & red sand stone & kota stone slab	tonne	0.670	145.720	(2216)	97.632
	Lime mortar 1:1:1 /cement mortar .1:4	cum	0.224	2256.971	(2113)	505.562
	Cement for slurry - for bedding = 44 kg + for joints = 20 kg = 64 kg or 0.064 tonne	tonne	0.064	4882.000	(0367)	312.448
	Carriage of cement	tonne	0.064	145.720	(2209)	9.326
	Pigment @ 3.5 kg per 50 kg of cement = (64x3.5)/50 = 4.5 kg	kilogram	4.500	45.541	(0874)	204.935
	Labour-Mason 2nd class	per day	1.200	369.000	(0124)	442.800
	Beldar	per day	1.000	306.000	(0114)	306.000
	Coolie	per day	1.000	318.000	(9115)	318.000
	Beldar for rubbing and polishing (special rate)	per day	5.000	369.000	(0139)	1845.000
	Machine	Per day	4.000	300.000	(0013)	1200.000
	Sundries	LS	208.130	2.120	(9999)	441.236
	Total					9362.938
	Add for water charges @. 1 %					93.629
	Total					9456.568 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)					1328.648
	Total					10785.215 (Y)
	Add for contractor's profit and overheads @ 15% on "Y"					1617.782
	Cost of 10 sqm					12402.998
	Cost of 1 sqm					1240.300
	Add labour cess @ 1%					12.400
	Rate including labour cess					1252.700
	<b>Say</b>					<b>Rs.1252.70 Per sqm</b>
11.27	<b>Kota stone slabs 20 mm thick in risers of steps skirting. Dado &amp; pillars laid on 12 mm (average (thick cement mortar 1:3 (1 cement: 3 coarse sand ) and jointed with grey cement slurry mixed with pigment to match the shade of the slab including rubbing and polishing complete. Details of cost for 10 sqm</b>					
	Materials -					
	20 to 25 mm thick Kota stone slabs semi polished including					
	15% wastage	sqm	11.500	320.000	(1168)	3680.000
	Carriage of slabs	tonne	0.670	94.800	(2216)	63.516
	Cement mortar 1:3 (1 cement: 3 coarse sand )	cum	0.144	2848.955	(2112)	410.249
	Cement for slurry	tonne	0.064	4882.000	(0367)	312.448
	Carriage of cement	tonne	0.064	145.720	(2209)	9.326
	Pigment dark shade	kilogram	4.500	45.541	(0874)	204.935
	Labour :-					
	Mason 2nd class	per day	3.000	369.000	(0124)	1107.000
	Beldar	per day	3.000	306.000	(0114)	918.000
	Coolie	per day	1.000	318.000	(0115)	318.000
	Beldar for rubbing and polishing (special rate)	per day	7.000	369.000	(0139)	2583.000
	Sundries	LS	174.980	2.120	(9999)	370.958
	Total					9977.432
	Add for water charges @. 1 %					99.774
	Total					10077.206 (X)

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Item No.	Description	Unit	Qty	Rate ₹	Rate Code.	Cost ₹
	Add GST 12% on "X" (multiplying factor 0.1405)					1415.847
	Total					11493.053 (Y)
	Add for contractor's profit and overheads @ 15% on "Y"					1723.958
	Cost of 10 sqm					13217.011
	Cost of 1 sqm					1321.701
	Add labour cess @ 1%					13.220
	Rate including labour cess					1334.921
	<b>Say</b>			<b>Rs.1334.90</b>		<b>Per sqm</b>
	<b>SAND STONE FLOORING</b>					
<b>11.28</b>	<b>Supplying sand stone 40 mm thick for flooring ,carriage to site and rough chisel dressing</b>					
<b>11.28.1.1</b>	<b>Red sand stone</b>					
	Details of cost for 10 sqm					
	Finished work = 10 sqm					
	Add wastage @ 10% = 1 sqm /11 sqm					
	Cost of stone	sqm	11.000	230.000	(1164)	2530.000
	Carriage	LS	34.060	2.120	(9999)	72.207
	Labour -					
	For rough dressing -					
	Mason 1st class	per day	2.000	413.000	(0123)	826.000
	Total					3428.207
	Add for water charges @. 1 %					34.282
	Total					3462.489 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)					486.480
	Total					3948.969 (Y)
	Add for contractor's profit and overheads @ 15% on "Y"					592.345
	Cost of 10 sqm					4541.314
	Cost of 1 sqm					454.131
	Add labour cess @ 1%					4.540
	Rate including labour cess					458.671
	<b>Say</b>		<b>Say</b>	<b>Rs.458.70</b>		<b>Per sqm</b>
<b>11.28.1.2</b>	<b>white sand stone</b>					
	Details of cost for 10 sqm					
	Finished work = 10 sqm					
	Add wastage @ 10% = 1 sqm /11 sqm					
	Cost of stone	sqm	11.000	250.000	(1165)	2750.000
	Carriage	LS	34.060	2.120	(9999)	72.207
	Labour -					
	For rough dressing -					
	Mason 1st class -	per day	2.000	413.000	(0123)	826.000
	Total					3648.207
	Add for water charges @. 1 %					36.482
	Total					3684.689 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)					517.699
	Total					4202.388 (Y)
	Add for contractor's profit and overheads @ 15% on "Y"					630.358
	Cost of 10 sqm					4832.746
	Cost of 1 sqm					483.275
	Add labour cess @ 1%					4.830
	Rate including labour cess					488.105
	<b>Say</b>			<b>Rs.488.10</b>		<b>Per sqm</b>


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Say
Rs.488.10
Per sqm
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## BCD Analysis of Rates 2022

Item No.	Description	Unit	Qty	Rate ₹	Rate Code.	Cost ₹
11.28A.	40 mm thick rough chisel dressed stone flooring over 20 mm (average) thick base with joint base 1:1:1 (1 lime : 1 Surkhi : 1 coarse sand) or 1:5 (1 cement : 5 coarse sand) finished flush.					
11.28A.1	<b>Red sand stone</b>					
	Base 1:1:1 (1 lime : 1 surkhi : 1 coarse sand ) or 1:5(1 cement: 5 coarse sand )					
	<b>Red sand stone</b>					
	Details of cost for 10 sqm					
	Materials -					
	Stone slabs including carriage (finished work)					
	(Rate as per item No. 11.28.1.1)	sqm	10.000	454.131	(11.28.1.1)	4541.314 (A)
	Lime mortar 1:1:1 (1 lime : 1 surkhi : 1 coarse sand ) or cement mortar 1:5 (1 cement: 5 coarse sand )					
	for beading = 0.224 cum					
	for jointing = 0.026 cum					
		cum	0.250	1938.211	(2114)	484.553
	Labour -					
	Mason 1st class	per day	3.100	413.000	(0123)	1280.300
	Bandhani	per day	1.100	325.000	(0100)	357.500
	Coolie	per day	0.550	318.000	(0115)	174.900
	Bhisti	per day	0.270	332.000	(0101)	89.640
	Sundries	LS	10.790	2.120	(9999)	22.875
	Total					6951.082
	Add for water charges @ 1 % except A					24.098
	Total					6975.180 (X)
	Add GST 12% on "X" except A (multiplying factor 0.1405)					341.958
	Total					7317.138 (Y)
	Add for contractor's profit and overheads @ 15% on "Y"					416.373
	Cost of 10 sqm					7733.511
	Cost of 1 sqm					773.351
	Add labour cess @ 1%					7.730
	Rate including labour cess					781.081
			Say	Rs.781.10	Per sqm	
11.28A.2	<b>White sand stone</b>					
	Details of cost for 10 sqm					
	Cost same as per item No. 11.28.1.1	sqm	10.000	773.351	(11.28.1.1)	7733.511
	Add for white stone slab (finished work)					
	Cost as per item No. 11.28.1.2	sqm	10.000	483.275	(11.28.1.2)	4832.746
	Less for red sand stone slab (finished work )					
	Cost as per item No. 11.28.1.3	sqm	10.000	454.131	(11.28.1.3)	-4541.314 (-)
	Cost of 10 sqm					8024.943
	Cost of 1 sqm					802.494
	Add labour cess @ 1%					8.020
	Rate including labour cess					810.514
			Say	Rs.810.50	Per sqm	
11.29	40 mm thick rough chisel dressed stone flooring over 20 mm (average) thick base including pointing with C.M 1:2 (1 cement : 2 stone dust) with an admixture of pigment to match the shade of the stone with base 1:1:1 (1 lime : 1 surkhi : coarse sand or 1:5 (1 cement : 5 coarse sand)					
11.29.1	<b>Red sand stone</b>					
	Details of cost for 10 sqm					
	Materials -					
	40 mm thick red sand stone (finished work)					

## BCD Analysis of Rates 2022

Item No.	Description	Unit	Qty	Rate ₹	Rate Code.	Cost ₹
	(Rate as per item No. 11.28.1.1)	sqm	10.000	454.13	(11.28.1.1)	4541.314 (A)
	Lime mortar 1:1:1 (1 lime : 1 surkhi : 1 coarse sand ) or cement mortar 1:5 (1 cement: 5 coarse sand )					
	for beading = 0.224 cum	cum	0.250	1938.211	(2114)	484.553
	for jointing =0.026 cum	cum	0.023	3601.991	(2111)	82.846
	cement mortar for pointing(1:2)					
	Labour -					
	Mason 1st class	per day	3.900	413.000	(0123)	1610.700
	Bandhani	per day	1.100	325.000	(0100)	357.500
	Coolie	per day	1.400	318.000	(0115)	445.200
	Bhisti	per day	0.550	332.000	(0101)	182.600
	Sundries	1 time	26.910	2.120	(9999)	57.049
	Total					7761.762
	Add for water charges @ 1 % except A					32.204
	Total					7793.967 (X)
	Add GST 12% on "X" except A (multiplying factor 0.1405)					456.998
	Total					8250.964 (Y)
	Add for contractor's profit and overheads @ 15% on "Y"					556.447
	Cost of 10 sqm					8807.412
	Cost of 1 sqm					880.741
	Add labour cess @ 1%					8.810
	Rate including labour cess					889.551
	<b>Say</b>			<b>Rs.889.60</b>	<b>Per sqm</b>	
<b>11.29.2</b>	<b>White sand stone</b>					
	Details of cost for 10 sqm					
	Cost same as per item No. 11.28.1.1	sqm	10.000	880.741	(11.28.1.1)	8807.412
	Add for difference in cost between white and red sand stone 40 mm thick					
	Add cost of item No. 11.28.1.2	sqm	10.000	483.275	(11.28.1.2)	4832.746
	Less Cost of item No. 11.28.1.3	sqm	10.000	-454.131	(11.28.1.1)	-4541.314 (-)
	Cost of 10 sqm					9098.844
	Cost of 1 sqm					909.884
	Add labour cess @ 1%					9.100
	Rate including labour cess					918.984
	<b>Say</b>			<b>Rs.919.00</b>	<b>Per sqm</b>	
<b>11.30</b>	<b>40 mm thick fine dressed stone flooring over 20 mm (average) thick base with joint finished flush; base 1:5 (1 cement: 5 coarse sand )with joints 3 mm thick, side buttered with cement mortar 1:2 (1 cement : 2 stone dust) admixed with pigment to match the shade of stone and pointing with same mortar.</b>					
<b>11.30.1</b>	<b>Red sand stone</b>					
	Details of cost for 10 sqm.					
	MATERIAL:					
	Finished work = 10sqm					
	Add wastage 10% =1.00sqm					
	Total = 11.00 sqm					
	Red sand stone slab 40 mm thick (undressed)	sqm	11.000	230.000	(1164)	2530.000
	Carriage	L.S.	34.060	2.120	(9999)	72.207
	Rate as per Item of SH: cement mortar 1:5					

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Item No.	Description	Unit	Qty	Rate ₹	Rate Code.	Cost ₹
	(i) for bedding = 0.224 cum (ii) for joining = 0.026 cum. Total=0.250cum					
	Rate as per Item of SH: cement mortar 1:5	cum	0.250	1938.211	(2114)	484.553
	Cement mortar 1:2(1 Cement: 2 stone dust)for pointing					
	Rate as per Item Number SH. Mortars for pointing	cum	0.023	3601.991	(2111)	82.846
	LABOUR:					
	Mason (brick layer) 1st class	day	3.900	413.000	(0123)	1610.700
	Bandhani	day	1.100	325.000	(0100)	357.500
	Choolie	day	1.400	318.000	(0115)	445.200
	Bhisti	day	0.550	332.000	(0101)	182.600
	Sundries	L.S.	26.910	2.120	(9999)	57.049
	Labour for rubbing of stone					
	Skilled Beldar (for floor rubbing etc.)	day	0.618	369.000	(0139)	228.042
	Machine for rubbing of floors	day	0.988	300.000	(0013)	296.400
	Total					6347.097
	Add for water charges @. 1 %					63.471
	Total					6410.568 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)					900.685
	Total					7311.253 (Y)
	Add for contractor's profit and overheads @ 15% on "Y"					1096.688
	Cost of 10 sqm					8407.941
	Cost of 1 sqm					840.794055
	Add labour cess @ 1%					8.410
	Rate including labour cess					849.204
	<b>Say</b>			<b>Rs.849.20</b>	<b>Per sqm</b>	
<b>11.30.2</b>	<b>White sand stone</b>					
	Details of cost for 10 sqm cost same as per item No. 11.30.1	sqm	10.000	840.794	(11.30.1)	8407.941
	Add for difference in rate of white sand stone and red sand stoneAdd cost as per item No. 11.28.1.2	sqm	10.000	483.275	(11.28.1.2)	4832.746
	Less cost as per item No.11.28.1.1	sqm	-10.000	454.131	(11.28.1.1)	-4541.314
	Cost of 10 sqm					8699.373
	Cost of 1 sqm					869.937
	Add labour cess @ 1%					8.700
	Rate including labour cess					878.637
	<b>Say</b>			<b>Rs.878.60</b>	<b>Per sqm</b>	
<b>11.31</b>	<b>Extra for pre finished nosing in treads of steps of Kota stone / sand stone slab.</b>					
	Details of cost for 10 sqm					
	Labour-					
	Stone mason(ornamental)	per day	1.500	413.000	(0126)	619.500
	Add for water charges @ 1 %					6.195
	Total					625.695 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)					87.910
	Total					713.605 (Y)
	Add for contractor's profit and overheads @ 15% on "Y"					107.041
	Cost of 10 m					820.646

## BCD Analysis of Rates 2022

Item No.	Description	Unit	Qty	Rate ₹	Rate Code.	Cost ₹
	Cost of 1 m					82.065
	Add labour cess @ 1%					0.820
	Rate including labour cess					82.885
	<b>Say</b>			<b>Rs.82.90</b>	<b>Per sqm</b>	
<b>11.32</b>	<b>Extra for Kota stone / sand stone in treads of steps and risers using single up to 1.05 metre.length</b>					
	exceeding 30 cm in width					
	Details of cost for 10 sqm					
	Labour-					
	mason 2nd class	per day	0.200	369.000	(0124)	73.800
	Beldar	per day	0.200	306.000	(0114)	61.200
	Total					135.000
	Add for water charges @ 1 %					1.350
	Total					136.350 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)					19.157
	Total					155.507 (Y)
	Add for contractor's profit and overheads @ 15% on "Y"					23.326
	Cost of 10 m					178.833
	Cost of 1 sqm					17.883
	Add labour cess @ 1%					0.180
	Rate including labour cess					18.063
	<b>Say</b>			<b>Rs.18.10</b>	<b>Per sqm</b>	
<b>11.33</b>	<b>25 mm wooden planking, tongued and grooved in flooring including fixing with iron screws complete with.</b>					
<b>11.33.1</b>	<b>2nd class teak wood</b>					
	Details of cost for 2.5x4=10 sqm					
	<b>Materials</b>					
	<b>Second class indian teak wood</b>					
	No of joints = $4000/138 = 28.97 = (29-1) = 28$ Nos Qty of wood required					
	$2.5(4+0.336) \times 0.025 = 0.271$ cum					
	Add wastage @ 10 % = 0.027 cum					
	= 0.2981 cum = 298.1 cum					
	Second class Indian teak wood	10 cum	29.810	791.000	(1190)	23579.710
	Extra for selected planks of second class teak wood	10 cum	29.810	150.000	(1231)	4471.500
	Carriage of timber	cum	0.298	140.000	(2204)	41.734
	Iron screws 50 mm (slotted counters sunk head type)	100 Nos	200.000	76.000	(0682)	152.000
	Labour-					
	Carpenter 1st class	per day	2.680	413.000	(0111)	1106.840
	Beldar	per day	1.350	306.000	(0114)	413.100
	Sundries for glue etc.	LS	33.280	2.120	(9999)	70.554
	Total					29835.438
	Add for water charges @ 1 %					298.354
	Total					30133.792 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)					4233.798
	Total					34367.590 (Y)
	Add for contractor's profit and overheads @ 15% on "Y"					5155.138
	Cost of 10 m					39522.728

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## BCD Analysis of Rates 2022

Item No.	Description	Unit	Qty	Rate ₹	Rate Code.	Cost ₹
	Cost of 1 sqm					3952.273
	Add labour cess @ 1%					39.520
	Rate including labour cess					3991.793
			<b>Say</b>	<b>Rs.3991.80</b>	<b>Per sqm</b>	

### 11.33.2 2nd class Deodar wood

Details of cost for 2.5x4=10 sqm

Materials

Second class indian teak wood

No of joints =  $4000/138 = 28.97 = (29-1) =$

28Nos Qty of wood required

$2.5(4+0.336) \times 0.025 = 0.271$  cum

Add wastage @ 10 % = 0.027 cum

= 0.2981 cum = 298.1 cudm

Second class Indian teak wood	10 cudm	29.81	500.00	(1194)	14905.00
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Extra for selected planks of second class teak wood	10 cudm	29.81	113.00	(2500)	3368.53
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Carriage of timber	cum	0.30	140.00	(2204)	41.73
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Iron screws 50 mm (slotted counters sunk head type)	100 Nos	200.00	76.00	(0682)	152.00
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Labour- Carpenter 1st class	per day	2.68	413.00	(0111)	1106.84
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Beldar	per day	1.35	306.00	(0114)	413.10
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Sunbries for glue etc.	LS	33.28	2.12	(9999)	70.55
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Total					20057.76
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Add for water charges @ 1 %					200.58
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Total					20258.34 (X)
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Add GST 12% on "X" (multiplying factor 0.1405)					2846.30
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Total					23104.63 (Y)
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Add for contractor's profit and overheads @ 15% on "Y"					3465.69
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Cost of 10 m					26570.33
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Cost of 1 sqm					2657.03
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Add labour cess @ 1%					26.57
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Rate including labour cess					2683.60
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**Say Rs.2683.60 Per sqm**

### 11.34 38 mm thick parquet (wood block) flooring of 1st class teak wood laid over 25 mm thick levelling layer of cement concrete 1:2:4(1 cement:2 coarse sand:4 store aggregate 10 mm nominal size) to be paid separately coated with a Thin layer of hot bitumen (blown type) @ 2.4 5 kg per sqm. including fixing blocks in position after dipping in hot bitumen (blown type) upto half depth,planed.levelled smooth and finished complete.

Details of cost for 1 sqm

Bitumen blrown type-

(i) For bed tayer @ 2.45kg/sqm=2 4 5 kg

(ii) For dipping blocks L.S =2 00 kg

4.45 kg	tonne	0.0045	34790.000	(0313)	154.816
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Carriage of bitumen	tonne	0.004	163.930	(2211)	0.729
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1 st class teak wood in scantling for wooden blocks

1 sqm x 0.038m = 0.038 cum

Add 10% wastage = 0.0038 cum

0.0418 cum or 41.8 cudm	10 cudm	4.180	880.00	(1187)	3678.40
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Carriage of timber	cum	0.042	187.35	(2204)	7.83
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Labour-					
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## BCD Analysis of Rates 2022

Item No.	Description	Unit	Qty	Rate ₹	Rate Code.	Cost ₹
	For making and fixing blocks spreading bitumen etc sand papering and fixing flooring					
	Carpenter 1st class	per day	1.750	413.00	(0111)	722.75
	Beldar	per day	2.250	306.00	(0114)	688.50
	Coolie	per day	1.500	318.00	(0115)	477.00
	Mistry	per day	0.100	306.00	(0130)	30.60
	Sundries such as fuel, kerosine oil, sand paper etc.	1 time	80.730	2.12	(9999)	171.15
	Total					5931.774
	Add for water charges @ 1 %					59.318
	Total					5991.092 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)					841.748
	Total					6832.840 (Y)
	Add for contractor's profit and overheads @ 15% on "Y"					1024.926
	Cost of 1 sqm					7857.77
	Add labour cess @ 1%					78.58
	Rate including labour cess					7936.35
	Say			Rs.7936.30	Per sqm	

**11.35 Providing and fixing MS. angle 50x50x5 mm to act as with lugs of M.S. flat 10x5 mm 10 cm long forked at end 60 cm apart (minimum 3 lugs to be provided) including necessary welding and applying a priming coat of approved primer on exposed surfaces etc. complete**

Details of cost for 3 m (11.4+0.24 kg=11.64 kg)

Materials:

Angle iron 50x50x5 mm=3 m

Add wastage @ 5% =0.15m

3.15 m

3.15m@3.80 kg per m=11.97 kg say 0.12

quintal	0.120	5610.00	(1007)	673.20
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Structural steel such as tees, angles channels and R.S. joists

Lugs 10x5 mm flat=6x0.10=0.60m

0.60m @ 0.40kg per m = 0.24 kg

Add wastage @ 5% = 0.012 kg

0.252 kg=0.00252 qtl

quintal	0.0025	4850.00	(1008)	12.22
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Carriage of steel

tonne	0.016	145.72	(2205)	2.33
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Welding charges 6 cm(lugs) by elect. Plant

cm	6.000	2.00	(1215)	12.00
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Sundries

LS	9.100	2.12	(9999)	19.29
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Labour:

Blacksmith 2nd class

per day	0.090	369.00	(0103)	33.21
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Mason 1st class

per day	0.450	413.00	(0123)	185.85
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Beldar

per day	0.250	306.00	(0114)	76.50
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Priming coat 1X3X0.20=0.6 sqm (Rate vide item

no. 13.81.3)

sqm	0.600	34.64	(13.81.3)	20.78 (B)
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Total

1035.39

Add for water chartes @ 1% on all except on 'B'

10.15

Total

1045.54 (X)

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

143.978

Total

1189.514 (Y)

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

175.309

PXLZ B

695

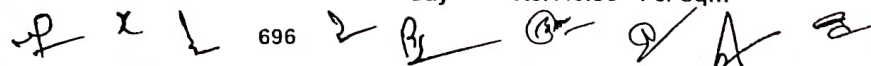
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## BCD Analysis of Rates 2022

Item No.	Description	Unit	Qty	Rate ₹	Rate Code.	Cost ₹
	Cost of 11.64 kg					1364.82
	Cost of 1 kg					117.25
	Add labour cess @ 1%					1.17
	Rate including labour cess					118.42
			Say	Rs.118.40	Per Kg	
<b>11.42</b>	<b>Deduct for not using 20 mm thick cement mortar 1:4 (1 cement : 4 coarse sand) bedding in laying of floor tiles.</b>					
	<b>Details of cost for 1 sqm.</b>					
	<b>MATERIAL:</b>					
	20 mm thick cement mortar 1:4(1 cement: 4 coarse sand)	cum	0.024	2256.971	(2113)	54.17
	Rate as per Item Number 3.9 of SH: Mortars Mortar for pointing in white cement	L.S.	40.43	2.12	(9999)	85.71
	Cement for slurry over bed @ 3.3 kg per sqm	tonne	0.0033	4882.00	(0367)	16.11
	<b>LABOUR:</b>					
	Mason (brick layer) 1st class	day	0.2	413.00	(0123)	82.60
	Coolie	day	0.2	318.00	(0115)	63.60
	Sundries i/c carriage of cement etc.	L.S.	26.91	2.12	(9999)	57.05
	Total					359.239
	Add for water charges @ 1 %					3.592
	Total					362.831 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)					50.978
	Total					413.809 (Y)
	Add for contractor's profit and overheads @ 15% on "Y"					62.071
	Cost of 1 sqm					475.88
	Add labour cess @ 1%					4.759
	Rate including labour cess					480.64
			Say	Rs.480.60	Per sqm	
<b>11.43</b>	<b>Fixing glazed/ Ceramic/ Vitrified floor tiles with cement based high polymer modified quick-set tile adhesive (Water based) conforming to IS: 15477, in average 3 mm thickness.</b>					
	<b>Details of cost for 1 sqm.</b>					
	<b>MATERIAL:</b>					
	High polymer modified quickset tile adhesive per	kg	5	9	(8731)	45.00
	Mortar for pointing in white cement	L.S.	40.43	2.12	(9999)	85.71
	<b>LABOUR:</b>					
	Mason (brick layer) 1st class	day	0.2	413.00	(123)	82.60
	Coolie	day	0.2	318.00	(0115)	63.60
	Sundries i/c carriage of cement etc.	L.S.	26.91	2.12	(9999)	57.05
	Total					333.961
	Add for water charges @ 1 %					3.340
	Total					337.300 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)					47.391
	Total					384.691 (Y)
	Add for contractor's profit and overheads @ 15% on "Y"					57.704
	Cost of 1 sqm					442.39
	Add labour cess @ 1%					4.424
	Rate including labour cess					446.82
			Say	Rs.446.80	Per sqm	

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Item No.	Description	Unit	Qty	Rate ₹	Rate Code.	Cost ₹
11.44	Crazy ceramic tile flooring, with under layer 12 mm thick cement mortar 1:4 (1 cement: 4 coarse sand), with joints not exceeding 5 mm, including filling the gaps with ordinary cement mixture & mixing with synthetic polyester fibre, triangular in shape having specific gravity of 1.34 to 1.40, cross section size ranging from 10 to 40 micron & length upto 6 mm , mixing fibre @ 125 grams per 50 kg of cement in cement mortar, including providing and mixing water proofing material in mortar @ 1 kg per 50 kg of cement , all complete as per direction of Engineer-in-charge.					
	Details of cost for 10 sqm.					
	Under layer 12 mm thick cement mortar 1:4					
	Rate as per Item Number 2113 of SH: Mortars	cum	0.14	2256.971	(2113)	315.98
	Mason (brick layer) 2nd class	day	0.67	369.00	(0124)	247.23
	Beldar	day	0.75	306.00	(0114)	229.50
	Bhisti	day	0.92	332.00	(0101)	305.44
	Scaffolding	L.S.	8.97	2.12	(9999)	19.02
	Cement slurry for subgrade					
	Portland Cement	tonne	0.04	4882.00	(0367)	195.28
	Carriage of cement	tonne	0.04	145.72	(2209)	
	Labour for applying cement slurry					
	Beldar	day	0.5	306.00	(0114)	153.00
	Top layer with tile piece and gap filling with cement mortar:					
	Ceramic tile piece for crazy flooring assuming 70% tile area and 30% of joint filler/mixture. (7.00x0.010)=0.07					
	0.872x0.07/0.051=1.20 qtl					
	Ceramic Tiles Pieces for Crazy Flooring	quintal	1.2	145	(2709)	174.00
	Carriage of tiles	L.S.	62.4	2.12	(9999)	132.29
	Cement mortar 1:4 for filling of crazy tile : (300x0.01=0.03)					
	Rate as per Item Number 2113 of SH: Mortars	cum	0.03	2256.971	(2113)	67.71
	Synthetic polyester triangular					
	Rate as per Item No. 4.18 of SH: Cement Concrete	per bag of 50kg of cement	1.38	61.88	(4.18)	85.39 A
	Water proofing compound					
	Rate as per Item No. 4.12 of SH: Cement Concrete	per bag of 50kg of cement	1.38	57.16	(4.12)	78.88 A
	Mason (brick layer) 1st class	day	1.2	413.00	(0123)	495.60
	Beldar	day	1	306.00	(0114)	306.00
	Coolie	day	1	318.00	(0115)	318.00
	Bhisti	day	0.54	332.00	(0101)	179.28
	Sundries	L.S.	67.25	2.12	(9999)	142.57
	TOTAL					3445.16
	Add Water Charges @ 1% except on A i.e on					32.808895
	TOTAL					3477.96 (X)
	Add GST 12% on "X" except A (multiplying factor 0.1405)					465.575
	Total					3943.54 (Y)
	Add for contractor's profit and overheads @ 15% on "Y" except A					566.890954
	Cost of 10 sqm					4510.43
	Cost of 1 sqm					451.04302
	Add labour cess @ 1%					4.510
	Rate including labour cess					455.55

Say **Rs.455.60** Per sqm

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## BCD Analysis of Rates 2022

Item No.	Description	Unit	Qty	Rate ₹	Rate Code.	Cost ₹
11.45	Providing and laying 500x500x40 mm thick Turf paver (Turf pave XD) on 150 mm thick sub grade of compacted bed of 20 mm thick nominal size stone aggregate and base course and filling with 150 mm thick jamuna sand, including spreading, well ramming, consolidating and finishing smooth etc. all complete as per direction of Engineer-in-charge.					
	Details of cost for 10 sqm.					
	MATERIAL:					
	Stone Aggregate (Single size) : 20 mm nominal size	cum	1.5	556.10	(295)	834.15
	Carriage of stone aggregate below 40 mm nominal size	cum	1.5	0.00	(2202)	0.00
	1 x 10 x 0.15 = 1.5cum					
	LABOUR:					
	for spreading ramming and consolidation of sub grade					
	Beldar	day	0.7	306.00	(0114)	214.20
	Coolie	day	0.52	318.00	(0115)	165.36
	Bhisti	day	0.36	332.00	(0101)	119.52
	Providing and filling local sand					
	Rate as per Item No. 2.28 of SH: Earth Work	cum	1.5	287.29	(2.28)	430.94 A
	Truf Paver (500 x 500 x 40 mm)	sqm	10	510.00	(2708)	5100.00
	Labour for laying of Turf pave					
	Mason (brick layer) 1st class	day	0.5	413.00	(0123)	206.50
	Beldar	day	1	306.00	(0114)	306.00
	Sundries	L.S.	50	2.12	(9999)	106.00
	TOTAL					7482.67
	Add Water Charges @ 1% except on A i.e on					70.52
	TOTAL					7553.19 (X)
	Add GST 12% on "X" except A (multiplying factor 0.1405)					1000.68
	Total					8553.86 (Y)
	Add for contractor's profit and overheads @ 15% on "Y" except A					1218.44
	Cost of 10 sqm					9772.30
	Cost of 1 sqm					977.23
	Add labour cess @ 1%					9.77
	Rate including labour cess					987.00
	Say			Rs.987.00	Per sqm	

**11.46 Providing and laying Vitrified tiles in different sizes (thickness to be specified by manufacturer), with water absorption less than 0.08 % and conforming to I.S. 15622, of approved make, in all colours & shade, in skirting, riser of steps, over 12 mm thick bed of cement mortar 1:3 (1 cement: 3 coarse sand), including grouting the joint with white cement & matching pigments etc. complete.**

**11.46.1 Size of Tile 500 x 500 mm.**

Details of cost for 1 sqm.						
Vitrified floor tiles 50 x 50 cm size = 1.00 sqm+						
Add wastage & breakage @ 2.5% = 0.025 sqm						
Total = 1.025 sqm						
	Vitrified floor tile 50x50 cm	sqm	1.025	500	(8620)	512.50
	Carriage of tiles	L.S.	6.24	2.12	(9999)	13.23
	12mm thick cement mortar 1:3 (1 cement : 3 coarse sand)	cum	0.014	2848.955	(2112)	39.89
	Rate as per Item Number 3.8 of SH: Mortars					
	Mortar for pointing in white cement	L.S.	3.64	2.12	(9999)	7.72
	Cement slurry over bed @ 3.3 kg per sqm					

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Item No.	Description	Unit	Qty	Rate ₹	Rate Code.	Cost ₹
	Portland Cement	tonne	0.0033	4882.00	(0367)	16.11
	LABOUR:					
	Mason (brick layer) 1st class	day	0.25	413.00	(0123)	103.25
	Coolie	day	0.25	318.00	(0115)	79.50
	Sundries including carriage of quick set polymer etc.	L.S.	26.91	2.12	(9999)	57.05
	Total					829.241
	Add for water charges @ 1 %					8.292
	Total					837.533 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)					117.673
	Total					955.207 (Y)
	Add for contractor's profit and overheads @ 15% on "Y"					143.281
	Cost of 1 sqm					1098.49
	Add labour cess @ 1%					10.985
	Rate including labour cess					1109.47

Say      Rs.1109.50      Per sqm

### 11.46.2 Size of Tile 600 x 600 mm.

Details of cost for 1-sqm.

Vitrified floor tiles 60 x 60 cm size = 1.00 sqm+

Add wastage & breakage @ 2.5% = 0.025 sqm

Total = 1.025 sqm

Vitrified floor tile 60x60 cm

sqm      1.025      560      (8621)      574.00

Carriage of tiles

L.S.      6.24      2.12      (9999)      13.23

12mm thick cement mortar 1:3 (1 cement : 3 coarse sand)

Rate as per Item Number 3.8 of SH: Mortars

cum      0.014      2848.955      (2112)      39.89

Mortar for pointing in white cement

L.S.      3.64      2.12      (9999)      7.72

Cement slurry over bed @ 3.3 kg per sqm

Portland Cement

tonne      0.0033      4882.00      (0367)      16.11

LABOUR:

Mason (brick layer) 1st class

day      0.25      413.00      (0123)      103.25

Coolie

day      0.25      318.00      (0115)      79.50

Sundries including carriage of quick set polymer etc.

L.S.      26.91      2.12      (9999)      57.05

Total

890.741

Add for water charges @ 1 %

8.907

Total

899.648 (X)

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

126.401

Total

1026.049 (Y)

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

153.907

Cost of 1 sqm

1179.96

Add labour cess @ 1%

11.800

Rate including labour cess

1191.76

Say      Rs.1191.80      Per sqm

### 11.46.3 Size of Tile 800 x 800 mm.

Details of cost for 1 sqm.

Vitrified floor tiles 80 x 80 cm size = 1.00 sqm+

Add wastage & breakage @ 2.5% = 0.025 sqm

Total = 1.025 sqm

Vitrified floor tile 80x80 cm

sqm      1.025      900      (8622)      922.50

Carriage of tiles

L.S.      6.24      2.12      (9999)      13.23

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Item No.	Description	Unit	Qty	Rate ₹	Rate Code.	Cost ₹
	12mm thick cement mortar 1:3 (1 cement : 3 coarse sand)					
	Rate as per Item Number 3.8 of SH: Mortars	cum	0.014	2848.955	(2112)	39.89
	Mortar for pointing in white cement	L.S.	3.64	2.12	(9999)	7.72
	Cement slurry over bed @ 3.3 kg per sqm					
	Portland Cement	tonne	0.0033	4882.00	(0367)	16.11
	LABOUR:					
	Mason (brick layer) 1st class	day	0.25	413.00	(0123)	103.25
	Coolie	day	0.25	318.00	(0115)	79.50
	Sundries including carriage of quick set polymer etc.	L.S.	26.91	2.12	(9999)	57.05
	Total					1239.241
	Add for water charges @ 1 %					12.392
	Total					1251.633 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)					175.854
	Total					1427.488 (Y)
	Add for contractor's profit and overheads @ 15% on "Y"					214.123
	Cost of 1 sqm					1641.61
	Add labour cess @ 1%					16.416
	Rate including labour cess					1658.03
	<b>Say</b>					<b>Rs.1658.00 Per sqm</b>

### 11.46.4 Size of Tile 1000 x 1000 mm.

Details of cost for 1 sqm.

Vitrified floor tiles 100 x 100 cm size = 1.00 sqm+

Add wastage & breakage @ 2.5% = 0.025 sqm

Total = 1.025 sqm

Vitrified floor tile 100x100 cm	sqm	1.025	1390	(8623)	1424.75
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Carriage of tiles	L.S.	6.24	2.12	(9999)	13.23
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12mm thick cement mortar 1:3 (1 cement : 3 coarse sand)

Rate as per Item Number 3.8 of SH: Mortars	cum	0.014	2848.955	(2112)	39.89
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Mortar for pointing in white cement	L.S.	3.64	2.12	(9999)	7.72
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Cement slurry over bed @ 3.3 kg per sqm	tonne	0.0033	4882.00	(0367)	16.11
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LABOUR:	day	0.25	413.00	(0123)	103.25
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Mason (brick layer) 1st class	day	0.25	318.00	(0115)	79.50
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Coolie	L.S.	26.91	2.12	(9999)	57.05
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Sundries including carriage of quick set polymer etc.	L.S.	26.91	2.12	(9999)	57.05
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Total					1741.491
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Add for water charges @ 1 %					17.415
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Total					1758.906 (X)
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Add GST 12% on "X" (multiplying factor 0.1405)					247.126
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Total					2006.032 (Y)
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Add for contractor's profit and overheads @ 15% on "Y"					300.905
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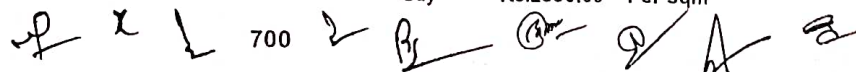
Cost of 1 sqm					2306.94
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Add labour cess @ 1%					23.069
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Rate including labour cess					2330.01
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Say **Rs.2330.00 Per sqm**

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## BCD Analysis of Rates 2022

Item No.	Description	Unit	Qty	Rate ₹	Rate Code.	Cost ₹
11.46A	<b>Providing and fixing glazed screen printed border tile 75mm wide having thickness 5mm, of approved quality &amp; make, in all shades, design and prints, in dado, over 12mm thick bed of cement mortar 1:3 (1 Cement : 3 Coarse sand) and jointing with grey cement slurry @ 3.3 kg/sqm including pointing with white cement mixed with pigment of matching shade, all complete as approved by Engineer - in - Charge</b>					
<b>Code</b>	<b>Description</b>	<b>Unit</b>	<b>Quantity</b>	<b>Rate</b>	<b>Code</b>	<b>Amount</b>
	Details for 1sqm (i.e. 13.33m length)					
	Material					
8624	Border tiles 200x75mm size 5mm thick Tile required= $1.00/(0.20 \times 0.075)=66.70$ tile. Add 2.5% wastage = 1.67 tile	each	68.00	16.00	(8624)	1088.00
	Total 68.37 say 68 tiles					
9999	Carriage	L.S.	6.24	2.12	(9999)	13.23
3.8	Cement mortar 1:3 for 12mm base	cum	0.01	2848.95	(3.8)	39.89
9999	Mortar for pointing in white cement	L.S.	40.43	2.12	(9999)	85.71
367	Cement for slurry over bed@ 3.3kg/sqm	MT	0.00	4408.00	(0367)	14.55
	Labour					
123	Mason 1st class	each	0.25	413.00	(0123)	103.25
115	Coolie	each	0.25	318.00	(0115)	79.50
	Sundries 26.91-0.16=26.75	L.S.	26.75	2.12	(9999)	56.71
	Total					1480.83
	Add Water Charges @ 1 %					14.81
	Total					1495.640 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)					210.137
	Total					1705.778 (Y)
	Add for contractor's profit and overheads @ 15% on "Y"					255.867
	Details of cost for 1sqm					1961.64
	Details of cost for 1sqm i.e. 13.33 mts					1961.64
	Cost per mtr					147.16
	Add labour cess @ 1%					1.472
	Rate including labour cess					148.63
			Say	Rs.148.60	Per sqm	

**11.47 Providing and laying Vitrified tiles in different sizes (thickness to be specified by the manufacturer), with water absorption less than 0.08% and conforming to IS: 15622, of approved brand & manufacturer, in all colours and shade, in skirting, riser of steps, laid with cement based high polymer modified quick set tile adhesive (water based) conforming to IS: 15477, in average 6 mm thickness, including grouting of joints (Payment for grouting of joints to be made separately).**

**11.47.1 Size of Tile 500 x 500 mm.**

Details of cost for 1 sqm.

Vitrified floor tiles 50 x 50 cm size = 1.00 sqm+

Add wastage & breakage @ 2.5% = 0.025 sqm

Total = 1.025 sqm

Vitrified floor tile 50x50 cm

sqm 1.025 500 (8620) 512.50

Carriage of tiles

L.S. 6.24 2.12 (9999) 13.23

High polymer modified quickset tile

kg 10 9 (8731) 90.00

adhesive per

LABOUR:

Mason (brick layer) 1st class

day 0.25 413.00 (0123) 103.25

*Handwritten signatures and initials: P, L, B, 701, A, B*

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## BCD Analysis of Rates 2022

Item No.	Description	Unit	Qty	Rate ₹	Rate Code.	Cost ₹
	Coolie	day	0.5	318.00	(0115)	159.00
	Sundries including carriage of quick set polymer etc.	L.S.	26.91	2.12	(9999)	57.05
	Total					935.028
	Add for water charges @ 1 %					9.350
	Total					944.378 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)					132.685
	Total					1077.063 (Y)
	Add for contractor's profit and overheads @ 15% on "Y"					161.560
	Cost of 1 sqm					1238.62
	Add labour cess @ 1%					12.386
	Rate including labour cess					1251.01
			Say	Rs.1251.00		Per sqm

### 11.47.2 Size of Tile 600 x 600 mm.

Details of cost for 1 sqm.

Vitrified floor tiles 60 x 60 cm size = 1.00 sqm+

Add wastage & breakage @ 2.5% = 0.025 sqm

Total = 1.025 sqm

Vitrified floor tile 60x60 cm	sqm	1.03	560.00	(8621)	574.00
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Carriage of tiles	L.S.	6.24	2.12	(9999)	13.23
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High polymer modified quickset tile adhesive	Per kg	10.00	9.00	(8731)	90.00
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LABOUR:

Mason (brick layer) 1st class	day	0.25	413.00	(0123)	103.25
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Coolie	day	0.50	318.00	(0115)	159.00
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Sundries including carriage of quick set polymer etc.	L.S.	26.91	2.12	(9999)	57.05
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Total					996.528
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Add for water charges @ 1 %					9.965
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Total					1006.493 (X)
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Add GST 12% on "X" (multiplying factor 0.1405)					141.412
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Total					1147.906 (Y)
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Add for contractor's profit and overheads @ 15% on "Y"					172.186
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Cost of 1 sqm					1320.09
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Add labour cess @ 1%					13.201
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Rate including labour cess					1333.29
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Say      Rs.1333.30      Per sqm

### 11.47.3 Size of Tile 800 x 800 mm.

Details of cost for 1 sqm.

Vitrified floor tiles 80 x 80 cm size = 1.00 sqm+

Add wastage & breakage @ 2.5% = 0.025 sqm

Total = 1.025 sqm

Vitrified floor tile 80x80 cm	sqm	1.025	900	(8622)	922.50
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Carriage of tiles	L.S.	6.24	2.12	(9999)	13.23
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High polymer modified quickset tile adhesive per	kg	10	9	(8731)	90.00
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LABOUR:

Mason (brick layer) 1st class	day	0.25	413.00	(0123)	103.25
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Coolie	day	0.5	318.00	(0115)	159.00
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Sundries including carriage of quick set polymer etc.	L.S.	26.91	2.12	(9999)	57.05
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Total					1345.028
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Add for water charges @ 1 %					13.450
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## BCD Analysis of Rates 2022

Item No.	Description	Unit	Qty	Rate ₹	Rate Code.	Cost ₹
	Total					1358.478 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)					190.866
	Total					1549.344 (Y)
	Add for contractor's profit and overheads @ 15% on "Y"					232.402
	Cost of 1 sqm					1781.75
	Add labour cess @ 1%					17.817
	Rate including labour cess					1799.56
	Say			Rs.1799.60	Per sqm	

### 11.47.4 Size of Tile 1000 x 1000 mm.

Details of cost for 1 sqm.

Vitrified floor tiles 100 x 100 cm size = 1.00 sqm+

Add wastage & breakage @ 2.5% = 0.025 sqm

Total = 1.025 sqm

Vitrified floor tile 100x100 cm

Carriage of tiles

High polymer modified quickset tile adhesive per

LABOUR:

Mason (brick layer) 1st class

Coolie

Sundries including carriage of quick set polymer etc.

Total

Add for water charges @ 1 %

Total

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

Total

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

Cost of 1 sqm

Add labour cess @ 1%

Rate including labour cess

sqm	1.025	1390	(8623)	1424.75
L.S.	6.24	2.12	(9999)	13.23
kg	10	9	(8731)	90.00

day	0.25	413.00	(0123)	103.25
day	0.5	318.00	(0115)	159.00
L.S.	26.91	2.12	(9999)	57.05

1847.278

18.473

1865.751 (X)

262.138

2127.889 (Y)

319.183

2447.07

24.471

2471.54

Say Rs.2471.50 Per sqm

**11.48 Grouting the joints of flooring tiles having joints of 3 mm width, using epoxy grout mix of 0.70 kg of organic coated filler of desired shade (0.10 kg of hardener and 0.20 kg of resin per kg), including filling/ grouting and finishing complete as per direction of Engineer-in-charge.**

### 11.48.1 Size of Tile 500x500 mm:

Details of cost for 1 sqm.

MATERIAL:

Epoxy Grout

LABOUR:

Mason (brick layer) 1st class

Coolie

Sundries including carriage

Total

Add for water charges @ 1 %

Total

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

Total

kg	0.21	380	(8682)	79.80
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day	0.1	413.00	(0123)	41.30
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day	0.1	318.00	(0115)	31.80
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L.S.	5	2.12	(9999)	10.60
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163.500

1.635

165.135 (X)

23.201

188.336 (Y)


 703  

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## BCD Analysis of Rates 2022

Item No.	Description	Unit	Qty	Rate ₹	Rate Code.	Cost ₹
	Add for contractor's profit and overheads @ 15% on "Y"					28.250
	Cost of 1 sqm					216.59
	Add labour cess @ 1%					2.166
	Rate including labour cess					218.75
			Say	Rs.218.80	Per sqm	
<b>11.48.2</b>	<b>Size of Tile 600 x 600 mm.</b>					
	Details of cost for 1 sqm.					
	MATERIAL:					
	Epoxy Grout	kg	0.18	380	(8682)	68.40
	LABOUR:					
	Mason (brick layer) 1 st class	day	0.08	413.00	(0123)	33.04
	Coolie	day	0.08	318.00	(0115)	25.44
	Sundries including carriage	L.S.	5	2.12	(9999)	10.60
	Total					137.480
	Add for water charges @ 1 %					1.375
	Total					138.855 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)					19.509
	Total					158.364 (Y)
	Add for contractor's profit and overheads @ 15% on "Y"					23.755
	Cost of 1 sqm					182.12
	Add labour cess @ 1%					1.821
	Rate including labour cess					183.94
			Say	Rs.183.90	Per sqm	
<b>11.48.3</b>	<b>Size of Tile 800 x 800 mm.</b>					
	Details of cost for 1 sqm.					
	MATERIAL:					
	Epoxy Grout	kg	0.15	380	(8682)	57.00
	LABOUR:					
	Mason (brick layer) 1 st class	day	0.06	413.00	(0123)	24.78
	Coolie	day	0.06	318.00	(0115)	19.08
	Sundries including carriage	L.S.	5	2.12	(9999)	10.60
	Total					111.460
	Add for water charges @ 1 %					1.115
	Total					112.575 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)					15.817
	Total					128.391 (Y)
	Add for contractor's profit and overheads @ 15% on "Y"					19.259
	Cost of 1 sqm					147.65
	Add labour cess @ 1%					1.477
	Rate including labour cess					149.13
			Say	Rs.149.10	Per sqm	
<b>11.48.4</b>	<b>Size of Tile 1000 x 1000 mm.</b>					
	Details of cost for 1 sqm.					
	MATERIAL:					
	Epoxy Grout	kg	0.11	380	(8682)	41.80
	LABOUR:					
	Mason (brick layer) 1 st class	day	0.04	413.00	(0123)	16.52
	Coolie	day	0.04	318.00	(0115)	12.72
	Sundries including carriage	L.S.	5	2.12	(9999)	10.60
	Total					81.640

## BCD Analysis of Rates 2022

Item No.	Description	Unit	Qty	Rate ₹	Rate Code.	Cost ₹
	Add for water charges @ 1 %					0.816
	Total					82.456 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)					11.585
	Total					94.042 (Y)
	Add for contractor's profit and overheads @ 15% on "Y"					14.106
	Cost of 1 sqm					108.15
	Add labour cess @ 1%					1.081
	Rate including labour cess					109.23
	<b>Say</b>					<b>Rs.109.20 Per sqm</b>

**11.49 Providing and laying Vitrified tiles in floor with different sizes (thickness to be specified by the manufacturer), with water absorption less than 0.08% and conforming to IS:15622 , of approved brand & manufacturer, in all colours and shade, laid with cement based high polymer modified quick set tile adhesive (water based) conforming to IS : 15477, in average 6 mm thickness, including grouting of joints (Payment for grouting of joints to be made separately).**

**11.49.1 Size of Tile 500 x 500 mm.**

Details of cost for 1 sqm.

MATERIAL:

Vitrified floor tiles 50 x 50 cm size = 1.00 sqm+

Add wastage & breakage @ 2.5% = 0.025 sqm

Total = 1.025 sqm

Vitrified floor tile 50x50 cm

Carriage of tiles

High polymer modified quickset tile adhesive per

LABOUR:

Mason (brick layer) 1 st class

Coolie

Sundries including carriage of quick set polymer etc.

Total

Add for water charges @ 1 %

Total

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

Total

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

Cost of 1 sqm

Add labour cess @ 1%

Rate including labour cess

**Say Rs.1180.80 Per sqm**

882.578

8.826

891.404 (X)

125.242

1016.646 (Y)

152.497

1169.14

11.691

1180.83

**11.49.2 Size of Tile 600 x 600 mm.**

Details of cost for 1 sqm.

MATERIAL:

Vitrified floor tiles 60 x 60 cm size = 1.00 sqm+

Add wastage & breakage @ 2.5% = 0.025 sqm

Total = 1.025 sqm

Vitrified floor tile 60x60 cm

Carriage of tiles

High polymer modified quickset tile adhesive per

LABOUR:

Mason (brick layer) 1 st class

✍

705

705

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## BCD Analysis of Rates 2022

Item No.	Description	Unit	Qty	Rate ₹	Rate Code.	Cost ₹
	Coolie	day	0.4	318.00	115	127.20
	Sundries including carriage of quick set polymer etc.	L.S.	26.91	2.12	9999	57.05
	Total					944.078
	Add for water charges @ 1 %					9.441
	Total					953.519 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)					133.969
	Total					1087.488 (Y)
	Add for contractor's profit and overheads @ 15% on "Y"					163.123
	Cost of 1 sqm					1250.61
	Add labour cess @ 1%					12.506
	Rate including labour cess					1263.12
	<b>Say</b>			<b>Rs.1263.10</b>	<b>Per sqm</b>	
<b>11.49.3</b>	<b>Size of Tile 800 x 800 mm.</b>					
	Details of cost for 1 sqm.					
	MATERIAL:					
	Vitrified floor tiles 80 x 80 cm size = 1.00 sqm+					
	Add wastage & breakage @ 2.5% = 0.025 sqm					
	Total = 1.025 sqm					
	Vitrified floor tile 80x80 cm	sqm	1.025	900	8622	922.50
	Carriage of tiles	L.S.	6.24	2.12	9999	13.23
	High polymer modified quickset tile adhesive	per kg	10	9	8731	90.00
	LABOUR:					
	Mason (brick layer) 1 st class	day	0.2	413.00	123	82.60
	Coolie	day	0.4	318.00	115	127.20
	Sundries including carriage of quick set polymer etc.	L.S.	26.91	2.12	9999	57.05
	Total					1292.578
	Add for water charges @ 1 %					12.926
	Total					1305.504 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)					183.423
	Total					1488.927 (Y)
	Add for contractor's profit and overheads @ 15% on "Y"					223.339
	Cost of 1 sqm					1712.27
	Add labour cess @ 1%					17.123
	Rate including labour cess					1729.39
	<b>Say</b>			<b>Rs.1729.40</b>	<b>Per sqm</b>	
<b>11.49.4</b>	<b>Size of Tile 1000 x 1000 mm.</b>					
	Details of cost for 1 sqm.					
	MATERIAL:					
	Vitrified floor tiles 100 x 100 cm size = 1.00 sqm+					
	Add wastage & breakage @ 2.5% = 0.025 sqm					
	Total = 1.025 sqm					
	Vitrified floor tile 100x100 cm	sqm	1.025	1390	8623	1424.75
	Carriage of tiles	L.S.	6.24	2.12	9999	13.23
	High polymer modified quickset tile adhesive	per kg	10	9	8731	90.00
	LABOUR:					
	Mason (brick layer) 1st class	day	0.2	413.00	123	82.60
	Coolie	day	0.4	318.00	115	127.20
	Sundries including carriage of quick set polymer etc.	L.S.	26.91	2.12	9999	57.05

## BCD Analysis of Rates 2022

Item No.	Description	Unit	Qty	Rate ₹	Rate Code.	Cost ₹
	Total					1794.828
	Add for water charges @ 1 %					17.948
	Total					1812.776 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)					254.695
	Total					2067.471 (Y)
	Add for contractor's profit and overheads @ 15% on "Y"					310.121
	Cost of 1 sqm					2377.59
	Add labour cess @ 1%					23.776
	Rate including labour cess					2401.37
			Say	Rs.2401.40	Per sqm	
11.50	<b>Deduct for not grouting the joints with white cement and matching pigment in the items of fixing of vitrified tiles.</b>					
	Details of cost for 1 sqm.					
	MATERIAL:					
	Mortar for pointing in white cement with matching pigment	L.S.	3.12	2.12	9999	6.61
	Labour	L.S.	1	2.12	9999	2.12
	Total					8.734
	Add for water charges @ 1 %					0.087
	Total					8.822 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)					1.239
	Total					10.061 (Y)
	Add for contractor's profit and overheads @ 15% on "Y"					1.509
	Cost of 1 sqm					11.57
	Add labour cess @ 1%					0.116
	Rate including labour cess					11.69
			Say	Say	Rs.11.70	Per sqm
11.51	<b>Providing and laying machine cut, mirror polished, Italian Marble stone flooring laid in required pattern in linear portion of the building all complete as per architectural drawings, with 18 mm thick stone slab laid over 20 mm (average) thick base of cement mortar 1:4 (1 cement : 4 coarse sand) laid and jointed with white cement slurry @ 4.4 kg/sqm including pointing with white cement slurry admixed with pigment to match the marble shade including rubbing, curing and polishing etc. all complete as specified and as directed by the Engineer-in-Charge.</b>					
	a. 18 mm thick Italian Marble stone slab, Perlato, Rosso verona, Fire Red or Dark Emperadore etc.					
	Details of cost for 10 sqm.					
	18 mm thick italian marble stone slab					
	10.00 sqm					
	Add for wastage 15%= 1. 50 sqm					
	18 mm thick Italian marble stone slab					
	Total: 11.50 sqm					
	18 mm thick Italian Marble stone slab, Perlato (slab area up to 0.5 sqm).	sqm	11.5	3209	1240	36903.50
	Base mortar 1:4 (1 cement :4 coarse sand)					
	Rate as per Item Number 2113 of SH: Mortars	cum	0.224	2256.971	2113	505.56
	Cemnt for slurry @. 4.4 kg/sqm					
	(i) for bedding=44 kg+					


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Item No.	Description	Unit	Qty	Rate ₹	Rate Code.	Cost ₹
	For finishing , polishing and fixing					
	Mason (brick layer) 1st class	day	1.75	413.00	123	722.75
	Coolie	day	1.25	306.00	115	382.50
	Beldar	day	1	318.00	114	318.00
	Skilled Beldar (for floor rubbing etc.)	day	5	369.00	139	1845.00
	Machine for rubbing of floors	day	4	300.00	13	1200.00
	Mortar for pointing in white cement	L.S.	25.74	2.12	9999	54.57
	TOTAL					44160.7155
	Add Water Charges @ 1%					441.607155
	TOTAL					44602.32 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)					6266.626
	Total					50868.949 (Y)
	Add for contractor's profit and overheads @ 15% on "Y"					7630.342
	Cost of 10 sqm					58499.29
	Cost of 1 sqm					5849.93
	Add labour cess @ 1%					58.50
	Rate including labour cess					5908.43
	Say			Say	Rs.5908.40	Per sqm
11.53	Providing and fixing Glass mosaic tiles at finished plain wall surface of size 20 mm x 20 mm x 4 mm in all colour, design , fixing in customize design as per direction of Engineer-in- Charge. The glass mosaic tiles to be fixed on the wall surface with the help of approved adhesive applied at the rate of 2.5 kg per sqm and grouting of the same. The rate is inclusive of all operation, material and required pattern approved by Engineer-in-Charge.					
	Details of cost for 8.00 sqm.					
	Glass mosaic tiles (10 mm x 10 mm x 4mm)					
	Add for wastage 2.5%= 0.2 sqm					
	Total: 8.20 sqm					
	MATERIAL:					
	Glass mosaic tiles (20 mm x 20 mm x 4 mm ).	sqm	8.2	2049	1242	16801.80
	Tile fixing chemical adhesive	kg	20	8.7	1243	174.00
	Cement Polymer Grout Compound	kg	10	13	1244	130.00
	Acid for cleaning tiles	litre	4	18	1245	72.00
	Carriage of tiles ( 8x6.24=49.92)	L.S.	49.92	2.12	9999	105.83
	LABOUR:					
	Mason (brick layer) 1st class	day	1.6	413.00	123	660.80
	Coolie	day	1.6	318.00	115	508.80
	Sundries including carriage of adhesive etc.	L.S.	26.91	2.12	9999	57.05
	TOTAL					18510.28
	Add Water Charges @ 1%					185.102796
	TOTAL					18695.38 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)					2626.701
	Total					21322.084 (Y)
	Add for contractor's profit and overheads @ 15% on "Y"					3198.313
	Cost of 8 sqm					24520.40
	Cost of 1 sqm					3065.04952
	Add labour cess @ 1%					30.650
						3095.70
	Say			Say	Rs.3095.70	Per sqm



## BCD Analysis of Rates 2022

Item No.	Description	Unit	Qty	Rate ₹	Rate Code.	Cost ₹
11.54	<p>Providing and fixing removable raised/false access flooring with system and its components of approved make for different plenum height with possible height adjustment upto 50 mm, comprising of modular load bearing floor panels supported on G.I. rectangular stinger frame work and G.I. Pedestal etc. all complete, as per the architectural drawings, as specified and as directed by Engineer-in-charge consisting of :a) Providing at required spacing to form modular framework, pedestals made out of GI tube of thickness minimum 2 mm and 25 mm outer diameter, fully welded on to the G.I. Base plate of size 100mmx100mmx3mm at the bottom of the pedestal tube, G.I. pedestal head of size 75mmx75mmx3.5 mm welded with GI fully threaded stud 16mm outer diameter with two GI Check nuts screwed on the stud for level adjustment upto 50mm, locking and stabilizing the pedestal head in position at the required level. The pedestals shall be fixed to the subfloor (base)through base plate using epoxy based adhesive of approved make or the machine screw with rawl plug.</p> <p>b) S stringers system in all steel construction hot dipped galvanized of rectangular size 570x20x30x0.80 mm thick having holes at both ends for securing the stringers on to the pedestal head using fully threaded screws ensuring maximum lateral stability in all directions, the grid formed by the pedestal and stringer assembly shall receive the floor panel, this system shall provide adequate solid,rigid support for access floor panel, the system shall provide a minimum clear uninterrupted clearance between the bottom of the floor for electrical conduits and wiring etc. all complete as per the architectural drawings, as specified and as directed by the Engineer-in-charge</p> <p>c) providing and fixing Access Floor panel of 600x600x32 mm medium grade Filled Steel anti static high pressure Lamination of 800H grade (FS800H). Access Floor panel shall finished with Anti-static High Pressure laminate with Non Warp technology upto steel welded construction with an enclosed bottom pan with uniform pattern of 64 hemispherical cones. The top and bottom plates of Steel Gauges: top 0.6 mm and bottom 0.7 mm fused spot welded together (minimum 64 welds in each dome and 20 welds along each flange). The panel should be Corroresist epoxy coated for lifetime rust protection and cavity formed by the top and bottom plate is filled with Pyrogrip noncombustible Portland cementitious core mixed with lightweight foaming compound. The access floor shall be factory core mixed with lightweight foaming compound. The access floor shall be factory 1mm thickness for superior adhesion and Surface flatness within 0.75mm.The panel is to withstand a Concentrated Load of 363 kgs applied on area 25mm x 25mm The panel will withstand and Uniformly Distributed Load (UDL) minimum 1250 kg/sqm and an impact load of 50kg all complete as per the approved manufacturers specification and as per the direction of Engineer-in-charge. All specification must be printed on the side of the panel to ensure the quality of the product.</p>					

### 11.54.1 300 mm Finished Floor Height (FFH).

#### MATERIAL:

Details of cost for 100.00 sqm.

FS800H Grade Flooring Panel.( Size 600 x600 mm x32 mm) (i/c 5 % wastage)	each	292.00	740.00	2711	216080.00
Zinc Electroplated Pedestals - 300 mm	each	360.00	145.00	2712	52200.00
Zinc Electroplated Tube Stinger	each	570.00	70.00	2714	39900.00
Machine Screw for Fixing	each	1140.00	3.00	2715	3420.00
Rawl plug 50 mm (designation 10 nos)	each	1440.00	22.00	7048	31680.00
Carriage of material	L.S.	490.00	2.12	9999	1038.80
<b>LABOUR:</b>					
Carpenter 1st class	day	25.00	413.00	111	10325.00
Beldar	day	25.00	306.00	114	7650.00
Sundries	L.S.	329.00	2.12	9999	697.48

TOTAL

Add Water Charges @ 1%

TOTAL

362991.28

3629.91

366621.19 (X)

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Item No.	Description	Unit	Qty	Rate ₹	Rate Code.	Cost ₹
	Add GST 12% on "X" (multiplying factor 0.1405)					51510.278
	Total					418131.470 (Y)
	Add for contractor's profit and overheads @ 15% on "Y"					62719.721
	Cost of 100.00 sqm					480851.19
	Cost of 1 sqm					4808.51
	Add labour cess @ 1%					48.085
	Say		Say	Rs.4856.60	Per sqm	4856.60
<b>11.54.2</b>	<b>450 mm Finished Floor Height (FFH).</b>					
	Details of cost for 100.00 sqm.					
	MATERIAL:					
	FS800H Grade Flooring Panel ( Size 600 x600 mm x32 mm)	each	292	740	2711	216080.00
	Zinc Electroplated Pedestals - 450 mm	each	360	210	2713	75600.00
	Zinc Electroplated Tube Stinger	each	570	70	2714	39900.00
	Machine Screw for Fixing	each	1140	3	2715	3420.00
	Rawl plug 50 mm (designation 10 nos)	each	1440	22	7048	31680.00
	Carriage of material	L.S.	490	2.12	9999	1038.80
	LABOUR:					
	Carpenter 1st class	day	25	413.00	111	10325.00
	Beldar	day	25	306.00	114	7650.00
	Sundries	L.S.	329	2.12	(9999)	697.48
	TOTAL					386391.28
	Add Water Charges @ 1%					3863.91
	TOTAL					390255.19 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)					54830.855
	Total					445086.047 (Y)
	Add for contractor's profit and overheads @ 15% on "Y"					66762.907
	Cost of 100.00 sqm					511848.95
	Cost of 1 sqm					5118.49
	Add labour cess @ 1%					51.185
	Say		Say	Rs.5169.70	Per sqm	5169.67
<b>11.55</b>	<b>Providing and laying flamed finish Granite stone flooring in required design and patterns, in linear as well as curvilinear portions of the building all complete as per the architectural drawings with 18 mm thick stone slab over 20 mm (average) thick base of cement mortar 1:4 (1 cement : 4 coarse sand) laid and jointed with cement slurry and pointing with white cement slurry admixed with pigment of matching shade including rubbing, curing and polishing etc. all complete as specified and as directed by the Engineer-in-Charge :</b>					
<b>11.55.1</b>	<b>Flamed finish granite stone slab Jet Black, Cherry Red, Elite Brown, Cat Eye or equivalent.</b>					
	Details of cost for 10 sqm.					
	MATERIAL					
	18mm thick - Flamed finish granite slab = 10.00 sqm+Add for wastage 15% =1.50 sqm, Total 11.50 sqm	sqm	11.50	1000.00	1239	11500.00
	18 mm thick Flamed finish granite stone slab	sqm	11.50	1000.00	1239	11500.00
	Carriage of Stone blocks white & red sand stone & kota stone slab	tonne	0.67	145.72	2216	97.63
	Rate as per Item No.3.9 of	cum	0.22	2256.97	2113	505.56
	711					

## BCD Analysis of Rates 2022

Item No.	Description	Unit	Qty	Rate ₹	Rate Code.	Cost ₹
	<b>SH: MORTARS</b>					
	Portland Cement	tonne	0.05	4408.00	0367	220.40
	Black colour dark shade pigment	kilogram	4.50	70.00	0874	315.00
	Carriage of Cement	tonne	0.05	145.72	2209	7.29
	Mortar for pointing in white cement	L.S.	25.35	2.12	9999	53.74
	<b>LABOUR :</b>					
	Mason (brick layer) 2nd class	day	1.20	369.00	0124	442.80
	Beldar	day	1.00	306.00	0114	306.00
	Coolie	day	1.00	318.00	0115	318.00
	Skilled Beldar (for floor rubbing etc.)	day	5.00	369.00	0139	1845.00
	Sundries	LS	208.13	2.12	9999	441.24
	<b>TOTAL</b>					<b>16052.66 W</b>
	Add 1 % Water charges on "W"					160.53
	<b>TOTAL</b>					<b>16213.18 X</b>
	Add GST on "X" (multiplying factor 0.1405)					2277.95
	<b>TOTAL</b>					<b>18491.14 Y</b>
	Add 15% CPOH on "Y"					2773.67
	<b>TOTAL</b>					<b>21264.81 Z</b>
	Add Cess @ 1% on "Z"					212.65
	Cost of 10 sqm					21477.46
	Cost of 1 sqm					2147.75
	Say			<b>Say</b>	<b>Rs.2147.70</b>	<b>Per sqm</b>

**11.56 Providing and laying Polished Granite stone flooring in required design and patterns, in linear as well as curvilinear portions of the building all complete as per the architectural drawings with 18 mm thick stone slab over 20 mm (average) thick base of cement mortar 1:4 (1 cement : 4 coarse sand) laid and jointed with cement slurry and pointing with white cement slurry admixed with pigment of matching shade including rubbing, curing and polishing etc. all complete as specified and as directed by the Engineer-in-Charge.**

**11.56.1 Polished Granite stone slab jet Black, Cherry Red, Elite Brown, Cat Eye or equivalent.**

Details of cost for 10.00 sqm

**MATERIAL**

18 mm thick polished finish granite

stone slab 10.00 sqm + 1.50

wastage 15%)= 11.50 sqm

Granite of any colour, 18 mm

(slab area above 0.50 sqm)

Carriage of Stone blocks white

red sand stone & kota stone slab

Rate as per Item No.3.9 of

**SH: MORTARS**

Portland Cement

Black colour dark shade pigment

Carriage of Cement

Mortar for pointing in white

cement (11.22)

**LABOUR :**

Mason (brick layer) 2nd class

Beldar

Coolie

Skilled Beldar (for floor rubbing etc.)

Machine for cutting (hand grinding)

Sundries

**TOTAL**

Add 1 % Water charges on "W"

**TOTAL**

Add GST on "X" (multiplying factor 0.1405)

**TOTAL**

**TOTAL**

**TOTAL**

**TOTAL**

**TOTAL**

**TOTAL**

**TOTAL**

**TOTAL**

**TOTAL**

**TOTAL**

**TOTAL**

**TOTAL**

16052.66 W

160.53

16213.18 X

2277.95

18491.14 Y

2773.67

21264.81 Z

212.65

21477.46

2147.75

Say Rs.2147.70 Per sqm

26945.66 W

269.46

27215.11 X

3823.72

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Item No.	Description	Unit	Qty	Rate ₹	Rate Code.	Cost ₹
	TOTAL					31038.84 Y
	Add 15% CPOH on "Y"					4655.83
	TOTAL					35694.66 Z
	Add Cess @ 1% on "Z"					356.95
	Cost of 10 sqm					36051.61
	Cost of 1 sqm					3605.16
	Say		Say	Rs.3605.20	Per sqm	
<b>11.56.2</b>	<b>Polished Granite stone slab of all colour and texture except Black, Cherry/Ruby Red.</b>					
	Details of cost for 10.00 sqm					
	<b>MATERIAL</b>					
	18 mm thick polished finish granite stone slab 10.00 sqm + 1.50 wastage 15%= 11.50 sqm					
	Granite of any colour, 18 mm (slab area above 0.50 sqm)	sqm	11.50	1200.00	7299	13800.00
	Carriage of Stone blocks white red sand stone & kota stone slab	tonne	0.67	145.72	2216	97.63
	Rate as per Item No.3.9 of SH: MORTARS	cum	0.22	2256.97	2113	505.56
	Portland Cement	tonne	0.05	4408.00	0367	220.40
	Black colour dark shade pigment	kilogram	4.50	70.00	0874	315.00
	Carriage of Cement	tonne	0.05	145.72	2209	7.29
	Mortar for pointing in white cement (11.22)	L.S.	25.35	2.12	9999	53.74
	<b>LABOUR :</b>					
	Mason (brick layer) 2nd class	day	1.20	369.00	0124	442.80
	Beldar	day	1.00	306.00	0114	306.00
	Coolie	day	1.00	318.00	0115	318.00
	Skilled Beldar (for floor rubbing etc.)	day	2.00	369.00	0139	738.00
	Machine for cutting (hand grinding)	day	2.00	250.00	0019	500.00
	Sundries	L.S.	208.13	2.12	9999	441.24
	TOTAL					17745.66 W
	Add 1 % Water charges on "W"					177.46
	TOTAL					17923.11 X
	Add GST on "X" (multiplying factor 0.1405)					2518.20
	TOTAL					20441.31 Y
	Add 15% CPOH on "Y"					3066.20
	TOTAL					23507.51 Z
	Add Cess @ 1% on "Z"					235.08
	Cost of 10 sqm					23742.58
	Cost of 1 sqm					2374.26
	Say		Say	Rs.2374.30	Per sqm	
<b>11.72</b>	<b>Providing designation 100 A one brick flat soling joints filled with local sand including cost of watering, taxes, royalty all complete as per building specification and direction of E/I,</b>					
	(Assuming 9.3m2 area=100sft)					
	<b>(A) Material</b>					
	1) brick 300 nos	per 1000nos	300.00	4852.00	(2602)	Rs.1455.60
	11)Local sand	m3	0.14	141.85	(6501)	Rs.20.00
	111)sundries	1 time	1.50	2.12	(9999)	Rs.3.18
	<b>(B) Labour</b>					
	I Mason	nos	0.50	369.00	(0124)	Rs.184.50
	II Unskilled mazdor	nos	1.00	306.00	(0L01)	Rs.306.00
	Total					Rs.1969.28

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Item No.	Description	Unit	Qty	Rate ₹	Rate Code.	Cost ₹
	Add Water Charges @ 1%					19.69
	TOTAL					1988.97 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)					279.451
	Total					2268.424 (Y)
	Add for contractor's profit and overheads @ 15% on "Y"					340.264
	Cost of 9.3sqm					Rs.2608.69 (A)
	cost of 1.0sqm					Rs.280.50
	Add labour cess @ 1%					Rs.2.81
	Rate including labour cess					Rs.283.31
	Hance rate per m2					Say Rs.283.30
11.73	<b>Providing designation 100 A one brick on edge soling joints filled with local sand including cost of watering, taxes, royalty all complete as per building specification and direction of E/I,</b>					
	<b>(Assuming area=9.3m2)</b>					
	<b>A Materials</b>					
	I) bricks	per 1000nos	500	4852.00	(6501)	2426.00
	II) Local sand	m3	0.283	141.85	(6501)	40.14
	Sundries	1 time	1.5	2.12	(9999)	3.18
	<b>Labour</b>					
	I mason	nos	0.65	369.00	(0124)	239.85
	Unskilled Maz	nos	1.25	306.00	(0L01)	382.50
	Total					3091.67
	Add Water Charges @ 1%					30.92
	TOTAL					3122.59 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)					438.72
	Total					3561.31 (Y)
	Add for contractor's profit and overheads @ 15% on "Y"					534.20
	Cost of 9.3sqm					4095.51 (A)
	cost of 1.0sqm					440.38
	Add labour cess @ 1%					4.40
	Rate including labour cess					444.78
	Hance rate per m2					Say Rs.444.80
11.74	<b>Providing designation 100 B one brick flat soling joints filled with local sand including cost of watering, taxes, royalty all complete as per building specification and direction of E/I, but excluding carriage cost of bricks &amp; sand.</b>					
	<b>(assuming area=9.3m2)</b>					
	Cost as per item no11.72(A)		1	2608.69	(11.72) A	2608.69
	Less difference in the cost of 1st class and 2nd class with 15% C.P & O.H.C	per 1000nos	300	-478.40	(2603-2602)	-143.52
						2465.17
	Hence Rate per m2 =					265.07
	Add labour cess @ 1%					2.65
	Rate including labour cess					267.72
						Say Rs.267.70
11.75	<b>Providing designation 100 B one brick on edge soling joints filled with local sand including cost of watering, taxes, royalty all complete as per building specification and direction of E/I,</b>					

## BCD Analysis of Rates 2022

Item No.	Description	Unit	Qty	Rate ₹	Rate Code.	Cost ₹
	Cost as per item 11.73(A)		1	4095.51		Rs.4095.51
	Less difference in the cost of 1st class and 2nd class with 15% C.P & O.H.C	per 1000nos	500	-478.40		<u>-Rs.239.20</u>
	Hence Rate per m2 =					Rs.3856.31
	Add labour cess @ 1%					Rs.414.66
	Rate including labour cess					4.150
			Say	Rs.418.80		418.807

**11.76 Providing average 150mm thick dry rammed khoa beaten to 112mm (compacted with water) made of well burnt or jhama bricks including ramming properly till compacted thickness is achieved, curing and carriage of water with all leads, making proper slope and blinding the top with cement mortar (1: 10) all complete as per building specification and direction of E/I,**

**Assuming 9.3m2**

(A) Materials

(I) Brick Khoa	m3	1.416	1420.00	(0287)	2010.72
(II) Cement 0.004m3	Per Mt.	0.006	4408.00	(0367)	26.45
(III) Local sand	m3	0.004	175.80	(0982)	0.70
(IV) Sundries	1 time	1.5	2.12	(9999)	3.18

(B) labour

1 Mason	Nos	0.125	369.00	(0124)	46.13
2 Unskilled maz.	Nos	2	306.00	(0L01)	612.00

Total

Add Water Charges @ 1%

TOTAL

2699.18  
26.99  
2726.17 (X)  
383.03

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

3109.19 (Y)  
466.38

Cost of 9.3sqm

cost of 1.0sqm

Add labour cess @ 1%

Rate including labour cess

Hance rate per m2

3575.57 (A)  
384.47  
3.84  
388.31  
Say Rs.388.30

**11.77 Providing and laying 60 mm thick factory made cement concrete interlocking paver block of M -30 grade made by block making machine with strong vibratory compaction, of approved size, design & shape, laid in required colour and pattern over and including 50 mm thick compacted bed of coarse sand, filling the joints with fine sand etc. all complete as per the direction of Engineer-in-charge.**

Details of cost for 10sqm

**MATERIAL:**

Interlocking C.C. paver block ( 60 mm thick, M-30)	sqm	10	440.00	(8689)	4400.00
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Bedding Layer 50mm thick

Coarse sand (zone III) =10x0.050=0.50 cum	cum	0.5	175.80	(0982)	87.90
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Carriage of coarse sand

Fine sand (zone IV)	cum	0.15	141.85	(0983)	21.28
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Carriage of fine sand (1 part c sand: 2 parts F.sand)	cum	0.15	163.93	(2261)	24.59
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Laying charges (Based on actual observation)

Mason (brick layer) 1 st class	day	0.5	413.00	(0123)	206.50
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Item No.	Description	Unit	Qty	Rate ₹	Rate Code.	Cost ₹
	Mason (brick layer) 2nd class	day	0.5	369.00	(0124)	184.50
	Beldar	day	1	306.00	(0114)	306.00
	Coolie	day	0.5	318.00	(0115)	159.00
	TOTAL					5389.77
	Add Water Charges @ 1%					53.90
	TOTAL					5443.66 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)					764.835
	Total					6208.500 (Y)
	Add for contractor's profit and overheads @ 15% on "Y"					931.275
	Cost of 10 sqm					7139.77
	Cost of 1 sqm					713.98
	Add labour cess @ 1%					7.140
	Rate including labour cess					721.12
	Say					Rs.721.10 per sqm

**11.78** Providing and laying factory made coloured chamfered edge Cement Concrete paver blocks of required strength, thickness & size/shape, made by table vibratory method using PU mould, laid in required colour & pattern over 50mm thick compacted bed of fine sand, compacting and proper embedding/laying of inter locking paver blocks into the sand bedding layer through vibratory compaction by using plate vibrator, filling the joints with jamuna sand and cutting of paver blocks as per required size and pattern, finishing and sweeping extra sand in footpath, parks, lawns, drive ways or light traffic parking etc. complete as per manufacturer's specifications & direction of Engineer-in-Charge.

60mm thick C.C.paver block of M-35 grade with approved colour, design & pattern.

Details of cost for 10.00 sqm

MATERIAL:

Coloured inter locking C.C. paver Block	sqm	10	425.00	(7773)	4250.00
Fine sand (zone IV)	cum	0.5	141.85	(0983)	70.93
Carriage of fine sand ( )	cum	0.65	163.93	(2261)	106.55

LABOUR:

Mason (brick layer) 1 st class	day	0.5	413.00	(0123)	206.50
Mason (brick layer) 2nd class	day	0.5	369.00	(0124)	184.50
Beldar	day	1	306.00	(0114)	306.00
Coolie	day	0.5	318.00	(0115)	159.00
Sundries including plate vibrator etc.	L.S.	25	2.12	9999	53.00

TOTAL 5336.48

Add Water Charges @ 1% 53.36

TOTAL 5389.84 (X)

Add GST 12% on "X" (multiplying factor 0.1405) 757.273

Total 6147.117 (Y)

Add for contractor's profit and overheads, @ 15% on "Y" 922.068

Cost of 10.00 sqm 7069.19

Cost of 1 sqm 706.92

Add labour cess @ 1% 7.070

Rate including labour cess 713.99

Say Rs.714.00 per sqm

## BCD Analysis of Rates 2022

Item No.	Description	Unit	Qty	Rate ₹	Rate Code.	Cost ₹
11.79	Providing and laying factory made chamfered edge Cement Concrete paver blocks of required strength, thickness & size/shape, made by table vibratory method, to attain superior smooth finish using PU or equivalent moulds, laid in required Grey colour & pattern over 50mm thick compacted bed of coarse sand, compacting and proper embedding / laying of inter locking paver blocks into the sand bedding layer through vibratory compaction by using plate vibrator, filling the joints with jamuna sand and cutting of paver blocks as per required size and pattern, finishing and sweeping extra sand in footpath, parks, lawns, drive ways or light traffic parking etc. all complete as per manufacturer's specifications & direction of Engineer -in-Charge:					
11.79.1	<b>(a) 80 mm thick c.c. paver block of M-35 grade with approved colour design and pattern.</b>					
	Details of cost for 10.00 sqm					
	Materials.					
	Interlocking C.C. paver block (80 mm thick, M-30)	sqm	10	615.88	(8779)	6158.80
	Bedding layer - 50mm thick					
	Coarse sand = 10x0.050=0.50 cum	cum	0.5	175.80	(0982)	87.90
	Carriage of coarse sand	cum	0.5	0	(2203)	0.00
	Fine sand	cum	0.15	141.85	(0983)	21.28
	Carriage of fine sand (1 part Badarpur Sand: 2 Part Jamuna sand)	cum	0.15	163.93	(2261)	24.59
	Labour for Laying					
	Mason -1st class	Day	0.5	413.00	(0123)	206.50
	Mason -2nd class	Day	0.5	369.00	(0124)	184.50
	Beldar	Day	1	306.00	(0114)	306.00
	Coolie	Day	0.5	318.00	(0115)	159.00
	TOTAL					7148.57
	Add Water Charges @ 1%					71.49
	TOTAL					7220.05 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)					1014.417
	Total					8234.470 (Y)
	Add for contractor's profit and overheads @ 15% on "Y"					1235.171
	Cost of 10 Cum					9469.64
	Cost of One Cum					946.96
	Say					9.470
	Rate including labour cess					956.43
			Say		Rs.956.40	per sqm
11.79.2	<b>(b) 80 mm thick c.c. paver block of M-35 grade with white colour design and pattern.</b>					
	Details of cost for 10.00 sqm					
	Materials.					
	Interlocking C.C. paver block (80 mm thick, M-30)	sqm	10	581.43	(8779)	5814.30
	Bedding layer - 50mm thick					
	Coarse sand = 10x0.050=0.50 cum	cum	0.5	175.80	(0982)	87.90
	Carriage of coarse sand	cum	0.5	0	(2203)	0.00
	Fine sand	cum	0.15	141.85	(0983)	21.28
	Carriage of fine sand (1 part Badarpur Sand: 2 Part Jamuna sand)	cum	0.15	163.93	(2261)	24.59
	Labour for Laying					
	Mason -1st class	Day	0.5	413.00	(0123)	206.50
	Mason -2nd class	Day	0.5	306.00	(0124)	153.00
	Beldar	Day	1	306.00	(0114)	306.00
	Coolie	Day	0.5	318.00	(0115)	159.00
	TOTAL					6772.57
	Add Water Charges @ 1%					67.73

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Item No.	Description	Unit	Qty	Rate ₹	Rate Code.	Cost ₹
	TOTAL					6840.29 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)					961.061
	Total					7801.354 (Y)
	Add for contractor's profit and overheads @ 15% on "Y"					1170.203
	Cost of 10 Cum					8971.56
	Cost of One Cum;					897.16
	Say					8.970
	Rate including labour cess					906.13
	Say			Rs.906.10 per sqm		
11.41A	Providing and laying Vitrified tiles in floor in different sizes (thickness to be specified by the manufacturer) with water absorption less than 0.08% and conforming to 15:15622, of approved brand & manufacturer, in all colours and shade, laid on 20 mm thick cement mortar 1:4 (1 cement: 4 coarse sand) jointing with grey cement slurry @3.3 kg/sqm including grouting the joints with white cement and matching pigments etc. The tiles must be cut with the zero chipping diamond cutter only Laying of tiles will be done with the notch trowel, plier, wedge, clips of required thickness, leveling system and rubber mallet for placing the tiles gently and easily.					
11.41A.1	Double charge vitrified tile polished finish of size					
11.41A.1.	Size of Tile 600 x 600 mm					
1	Detail of cost for 1 sqm					
	MATERIAL					
	Double Charged vitrified floor tiles 60 x 60 cm size =1.00 sqm+ Add wastage & breakage @2.5% =0.025sqm					
	Total = 1.025 sqm					
	Double charge vitrified tile polished finish of size 60 x 60 cm					
	Carriage of tiles	sqm	1.025	460.00	2752	471.50
	20 mm thick Cement mortar 1:4 (1 cement: 4 coarse sand)	L.S.	6.24	2.12	9977	13.23
	Rate as per Item Number 3.9 of SH: Mortars	Cum	0.024	2256.97	2113	54.17
	Mortar for pointing in white cement Cement for slurry over bed @ 3.3 kg sqm per	L.S.	3.64	2.12	9999	7.72
	Portland cement	tonne	0.0033	4408.00	0367	14.55
	For notch trowel, plier, wedge, clips of required thickness, leveling system rubber mallet etc.					
	LABOUR					
	Mason (brick layer) 1st class	day	0.20	413.00	0123	82.60
	Coolie	day	0.20	318.00	0115	63.60
	sundries including carriage of quick set polymer etc.					
		L.S.	26.91	2.12	9988	57.05
	TOTAL					764.41 W
	Add 1% Water charges on "W"					7.64
	TOTAL					772.05 X
	Add GST on "X" (multiplying factor 0.1405) TOTAL					108.47
	Add 15% CPOH on "y"					880.53 Y
	TOTAL					132.08
						1012.60 Z

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## BCD Analysis of Rates 2022

Item No.	Description	Unit	Qty	Rate ₹	Rate Code.	Cost ₹
	Add Cess @ 1 % on "Z"					10.13
	Cost of Isqm					1022.73
	Say	Say		Rs.1022.70	per sqm	
<b>11.41A.1. Size of Tile 800 x 800 mm</b>						
2	Detail of cost for 1 sqm					
	<b>MATERIAL</b>					
	Double Charged vitrified floor tiles 80 x 80 cm size =1.00 sqm+ Add wastage & breakage @2.5% =0.025 sqm. Total =1.025 sqm					
	Double charge vitrified tile polished finish of size 80 x 80 cm	sqm	1.025	525.00	2753	538.13
	Carriage of tiles	L.S.	6.24	2.12	9977	13.23
	20 mm thick Cement mortar 1 : 4 (1cement: 4 coarse sand) Rate as per Item Number 3.9 of SH:Mortars	cum	0.024	2256.97	3.9	54.17
	Mortar for pointing in white cement Cement for slurry over bed @ 3.3 kg per sqm	L.S.	2.6	2.12	9999	5.51
	Portland cement	tonne	0.0033	4408.00	0367	14.55
	For notch trowel, plier, wedge, clips of required thickness, leveling system and rubber mallet etc.	L.S.	2.5	2.12	9999	5.30
	<b>LABOUR</b>					
	Mason (brick layer) 1st class	day	0.2	413.00	0123	82.60
	Coolie	day	0.2	318.00	0115	63.60
9988	sundries including carriage of quick set polymer etc.	L.S.	26.91	2.12	9988	57.05
	<b>TOTAL</b>					834.13 w
	Add 1% Water charges on "W"					8.34
	<b>TOTAL</b>					842.47 X
	Add GST on "X" (multiplying factor 0.1405) <b>TOTAL</b>					118.37
	Add 15% CPOH on "Y"					960.84 y
	<b>TOTAL</b>					144.13
	Add Cess @ 1% on "Z"					1104.96 z
	Cost of Isqm					11.05
	Say	Say		Rs.1116.00	per sqm	1116.01

### 11.41A.1. Size of Tile 600 x 1200 mm

3

Detail of cost for 1 sqm

#### MATERIAL

Double Charged vitrified floor tiles 60 x 120 cm size =1.00 sqm+ Add wastage & breakage @2.5% =0.025 sqm. Total =1.025 sqm

Double charge vitrified tile polished finish of

size 60 x 120 cm

Carriage of tiles

sqm	1.025	550.00	2754	563.75
L.S.	6.24	2.12	9977	13.23

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## BCD Analysis of Rates 2022

Item No.	Description	Unit	Qty	Rate ₹	Rate Code.	Cost ₹
	20 mm thick Cement mortar 1.4(1cement: 4 coarse sand) Rate as per Item Number 3.9 of SH:Mortars	Cum	0.024	2256.97	2113	54.17
	Mortar for pointing in white cement Cement for slurry over bed @ 3.3 kg per sqm	L.S.	2.6	2.12	9999	5.51
	Portland cement	tonne	0.0033	4408.00	0367	14.55
	For notch trowel, plier, wedge, clips of required thickness, leveling system and rubber mallet etc.	L.S.	2.5	2.12	9999	5.30
	LABOUR					
	Mason (brick layer) 1st class	day	0.2	413.00	0123	82.60
	Coolie	day	0.2	318.00	0115	63.60
	sundries including carriage of quick set polymer etc.	L.S	26.91	2.12	9988	57.05
	TOTAL					859.75 w
	Add 1% Water charges on "W"					8.60
	TOTAL					868.35 X
	Add GST on "Y"(multiplying factor 0.1405)					122.00
	TOTAL					990.35 y
	Add 15% CPOH on "v"					148:55
	TOTAL					1138.91 z
	Add Cess @ 1% on "Z"					11.39
	Cost of Isqm					1150.30
	Say	Say		Rs.1150.30	per sqm	

**11.41A.1. Size of Tile 800 x 1600 mm**  
4

Detail of cost for 1 sqm

**MATERIAL**

Double Charged vitrified floor tiles 80 x  
160 cm size =1.00 sqm+ Add wastage &  
breakage @2.5% =0.025 sqm. Total  
=1.025 sqm

Double charge vitrified tile polished finish of  
size 80x 160 cm

sqm	1.025	750.00	2755	768.75
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Carriage of tiles 20 mm thick Cement  
mortar 1 : 4 (1cement: 4 coarse sand)

L.S.	6.24	2.12	9977	13.23
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Rate as per Item Number 3.9 of  
SH:Mortars

Cum	0.024	2256.97	2113	54.17
-----	-------	---------	------	-------

Mortar for pointing in white cement Cement  
for slurry over bed @ 3.3 kg per sqm

L.S.	2.6	2.12	9999	5.51
------	-----	------	------	------

tonne	0.0033	4408.00	0367	14.55
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For notch trowel, plier, wedge, clips of  
required thickness, leveling system and  
rubber mallet etc.

L.S.	2.5	2.12	9999	5.30
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**LABOUR**

				0.00
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day	0.2	413.00	0123	82.60
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day	0.2	318.00	0115	63.60
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L.S.	26.91	2.12	9988	57.05
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				1064.75 w
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				10.65
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				1075.40 X
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## BCD Analysis of Rates 2022

Item No.	Description	Unit	Qty	Rate ₹	Rate Code.	Cost ₹
	Add GST on "X" (multiplying factor 0.1405)					151.09
	TOTAL					1226.50 y
	Add 15% CPOH on "Y"					183.97
	TOTAL					1410.47 z
	Add Cess @ 1% on "Z"					14.10
	Cost of 1sqm					1424.57
	Say	Say		Rs.1424.60	per sqm	
<b>11.41A.1.</b>	<b>Size of Tile 1000 x 1000 mm</b>					
5	Detail of cost for 1 sqm					
	MATERIAL					
	Double Charged vitrified floor tiles 100 x 100 cm size =1.00 sqm+ Add wastage & breakage @2.5% =0.025 sqm. Total =1.025 sqm					
	Double charge vitrified tile polished finish of size 100 x 100 cm	sqm	1.025	700.00	2756	717.50
	Carriage of tiles 20 mm thick Cement mortar 1 : 4 (1 cement: 4 coarse sand)	L.S.	6.240	2.12	9977	13.23
	Rate as per Item Number 3.9 of SH: Mortars	Cum	0.024	2256.97	3.9	54.17
	Mortar for pointing in white cement for slurry over bed @ 2.000 per sqm	over bed @ 2.000 per sqm	0.003	4408.00	0367	14.55
	Portland cement	tonne	0.003	4408.00	0367	14.55
	For notch trowel, plier, wedge, clips of required thickness, leveling system and rubber mallet etc.	L.S.	2.500	2.12	9999	5.30
	Mason (brick layer) 1st class	day	0.200	413.00	0123	82.60
	Coolie	day	0.200	318.00	0115	63.60
	sundries including carriage of quick set polymer etc.	L.S.	26.910	2.12	9988	57.05
	TOTAL					1013.50 w
	Add 1% Water charges on "W"					10.14
	TOTAL					1023.64 X
	Add GST on "X" (multiplying factor 0.1405)					143.82
	TOTAL					1167.46 y
	Add 15% CPOH on "y"					175.12
	TOTAL					1342.58 Z
	Add Cess@ 1% on "Z"					13.43
	Cost of 1sqm					1356.00
	Say	Say		Rs.1356.00	per sqm	

**11.41A.2 Glazed vitrified floor tiles polished finish of size**

**11.41A.2. Size of Tile 600 x 600 mm**

1

Detail of cost for 1 sqm

MATERIAL

Glazed vitrified floor tiles 60 x 60 cm size =1.00 sqm+ Add wastage & breakage @2.5% =0.025 sqm. Total= 1.025 sqm

Glazed vitrified tiles polished finish of size 60 x 60 cm

		sqm	1.025	500.00	2757	512.50			
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## BCD Analysis of Rates 2022

Item No.	Description	Unit	Qty	Rate ₹	Rate Code.	Cost ₹
	Carriage of tiles					
	20 mm thick Cement mortar 1 : 4 (1cement: 4 coarse sand)	L.S.	6.240	2.12	9977	13.23
	Rate as per Item Number 3.9 of SH: Mortars	Cum	0.024	2256.97	3.9	54.17
	Mortar for pointing in white cement Cement for slurry over bed @ 3.3 kg per sqm	L.S.	2.600	2.12	9999	5.51
	Portland cement	tonne	0.003	4408.00	0367	14.55
	For notch trowel, plier, wedge, clips of required thickness, leveling system and rubber mallet etc.	L.S.	2.500	2.12	9999	5.30
	LABOUR					
	Mason (brick layer) 1st class	day	0.200	413.00	0123	82.60
	Coolie	day	0.200	318.00	0115	63.60
	sundries including carriage of quick set polymer etc.	L.S.	26.910	2.12	9988	57.05
	TOTAL					808.50 W
	Add 1% Water charges on "W"					8.09
	TOTAL					816.59 X
	Add GST on "X" (multiplying factor 0.1405)					114.73
	TOTAL					931.32 Y
	Add 15% CPOH on "y"					139.70
	TOTAL					1071.02 Z
	Add Cess @ 1% on "Z"					10.71
	Cost of Isqm					1081.73
	Say	Say		Rs.1081.70	per sqm	

### 11.41A.2. Size of Tile 600 x 1200 mm

2

Detail of cost for 1 sqm

#### MATERIAL

Glazed vitrified floor tiles 60 x 120 cm  
size =1.00 sqm+ Add wastage & breakage  
@2.5% =0.025 sqm. Total= 1.025 sqm

Glazed vitrified tiles polished finish of  
size 60 x 120 cm

sqm 1.025 700.00 2758 717.50

Carriage of tiles 20 mm thick Cement  
mortar 1: 4 (1cement: 4 coarse sand)

L.S. 6.240 2.12 9977 13.23

Rate as per Item Number 3.9 of SH:  
Mortars

Cum 0.024 2256.97 2113 54.17

Mortar for pointing in white cement  
Cement for slurry over bed @ 3.3 kg per  
sqm

L.S. 2.600 2.12 9999 5.51

Portland cement

tonne 0.003 4408.00 0367 14.55

For notch trowel, plier, wedge, clips of  
required thickness, leveling system and  
rubber mallet etc.

L.S. 2.500 2.12 9999 5.30

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## BCD Analysis of Rates 2022

Item No.	Description	Unit	Qty	Rate ₹	Rate Code.	Cost ₹
	LABOUR					
	Mason (brick layer) 1st class	day	0.200	413.00	0123	82.60
	Coolie	day	0.200	318.00	0115	63.60
	sundries including carriage of quick set polymer etc.					
	TOTAL	L.S.	26.910	2.12	9988	57.05
	Add 1% Water charges on "W"					1013.50 w
	TOTAL					10.14
	Add GST on "X" (multiplying factor 0.1405)					1023.64 X
	TOTAL					143.82
	Add 15% CPOH on "y"					1167.46
	TOTAL					175.12
	Add Cess @ 1% on "Z"					1342.58
	Cost of Isqm					13.43
	Say	Say				1356.00
						Rs.1356.00 per sqm
11.41A.2.						
3	Size of Tile 800 x 800 mm					
	Detail of cost for 1 sqm					
	MATERIAL					
	Glazed vitrified floor tiles 80 x 80 cm size =1.00 sqm+ Add wastage & breakage @2.5% =0.025 sqm. Total= 1.025 sqm					
	Glazed vitrified tiles polished finish of size 80 x 80 cm	sqm	1.025	650.00	2759	666.25
	Carriage of tiles					
	20 mm thick Cement mortar 1 : 4 (1 cement : 4 coarse sand)	L.S.	6.240	2.12	9977	13.23
	Rate as per Item Number 3.9 of SH:Mortars	Cum	0.024	2256.97	3.9	54.17
	Mortar for pointing in white cement					
	Cement for slurry over bed @ 3.3 kg per sqm	L.S.	2.600	2.12	9999	5.51
	Portland cement	tonne	0.003	4408.00	0367	14.55
	For notch trowel, plier, wedge, clips of rubber, Smallet etc		2.500	2.12	9999	5.30
	Mason (brick layer) 1st class	day	0.200	413.00	0123	82.60
	Coolie	day	0.200	318.00	0115	63.60
	sundries including carriage of quick set polymer etc.					
	TOTAL	L.S.	26.910	2.12	9988	57.05
	Add 1% Water charges on "W"					962.25 w
	TOTAL					9.62
	Add GST on "X" (multiplying factor 0.1405)					971.88 X
	TOTAL					136.55
	Add 15% CPOH on "y"					1108.42 y
	TOTAL					166.26
	Add Cess @ 1% on "Z"					1274.69 z
	Cost of Isqm					12.75
	Say					1287.44
						Rs.1287.40 per sqm

## BCD Analysis of Rates 2022

Item No.	Description	Unit	Qty	Rate ₹	Rate Code.	Cost ₹
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**11.41A.2. Size of Tile 800 x 1200 mm**

4

Detail of cost for 1 sqm

MATERIAL

Glazed vitrified floor tiles 80 x 120 cm  
size =1.00 sqm+ Add wastage & breakage  
@2.5% =0.025 sqm. Total= 1.025 sqm

Glazed vitrified tiles polished finish of  
size 80 x 120 cm

sqm	1.025	880.00	2760	902.00
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Carriage of tiles

20 mm thick Cement mortar 1 : 4  
(1cement : 4 coarse sand)

L.S.	6.240	2.12	9977	13.23
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Rate as per Item Number 3.9 of  
SH:Mortars

Cum	0.024	2256.97	3.9	54.17
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Mortar for pointing in white cement. Cement  
for slurry over bed @ 3.3 kg per sqm

L.S.	2.600	2.12	9999	5.51
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Portland cement

tonne	0.003	4408.00	0367	14.55
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For notch trowel, plier, wedge, clips of  
required thickness, leveling system and  
rubber mallet etc

L.S.	2.500	2.12	9999	5.30
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LABOUR

Mason (brick layer) 1st class

day	0.200	413.00	0123	82.60
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Coolie

day	0.200	318.00	0115	63.60
-----	-------	--------	------	-------

sundries including carriage of quick  
polymer etc. Set

L.S.	26.910	2.12	9988	57.05
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TOTAL

1198.00 w

Add 1% Water charges on "W"

11.98

TOTAL

1209.98 X

Add GST on "X" (multiplying factor 0.1405)

170.00

TOTAL

1379.99 y

Add 15% CPOH on "y"

207.00

TOTAL

1586.98

Add Cess @ 1% on "Z"

15.87

Cost of 1sqm

1602.85

Say

**Rs.1602.90 per sqm**

**11.41A.2. Size of Tile 1200 x 1200 mm**

5

Detail of cost for 1 sqm

MATERIAL

Glazed vitrified floor tiles 120 x 120 cm  
size =1.00 sqm+ Add wastage & breakage  
@2.5% =0.025 sqm. Total= 1.025 sqm

Glazed vitrified tiles polished finish of  
size 120 x 120 cm

sqm	1.025	1200.00	2761	1230.00
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Carriage of tiles

20 mm thick Cement mortar 1 : 4  
(1cement: 4 coarse sand)

L.S.	6.240	2.12	9977	13.23
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Rate as per Item Number 3.9 of SH:  
Mortars

Cum	0.024	2256.97	3.9	54.17
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Mortar for pointing in white cement

Cement for slurry over bed @ 3.3 kg per  
sqm

L.S.	2.600	2.12	9999	5.51
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Portland cement

tonne	0.003	4408.00	0367	14.55
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## BCD Analysis of Rates 2022

Item No.	Description	Unit	Qty	Rate ₹	Rate Code.	Cost ₹
	For notch trowel, plier, wedge, clips of required thickness, leveling system and rubber mallet etc.	L.S.	2.500	2.12	9999	5.30
	LABOUR					
	Mason (brick layer) 1st class	day	0.200	413.00	0123	82.60
	Coolie	day	0.200	318.00	0115	63.60
	sundries including carriage of quick set polymer etc.	LS	26.91	2.12	9988	57.05
	TOTAL					1526.00 w
	Add 1% Water charges on "W"					15.26
	TOTAL					1541.26 X
	Add GST on "X" (multiplying factor 0.1405)					216.55
	TOTAL					1757.81 Y
	Add 15% CPOH on "Y"					263.67
	TOTAL					2021.48 Z
	Add Cess @ 1% on "Z"					20.21
	Cost of 1sqm					2041.70
	Say					
						Rs.2041.70 per sqm
<b>11.41A.3</b>	<b>Glazed Vitrified tiles Matt/Anti skid finish of size</b>					
<b>11.41A.3.</b>	<b>1 Size of Tile 600 x 600 mm</b>					
	Detail of cost for 1 sqm					
	MATERIAL					
	Glazed Vitrified tiles Matt/Anti skid finish 60 x 60 cm size =1.00 sqm+ Add wastage & breakage @2.5% =0.025 sqm. Total = 1.025 sqm					
	Glazed Vitrified tiles Matt/Antiskid finish of sqm size 60 x 60 cm		1.025	480.00	2762	492.00
	Carriage of tiles	L.S				
	20 mm thick Cement mortar 1 : 4 (1cement: 4 coarse sand)		6.240	2.12	9977	13.23
	Rate as per Item Number 3.9 of SH: Cum Mortars		0.024	2256.97	3.9	54.17
	Mortar for pointing in white cement	L.S				
	Cement for slurry over bed @ 3.3 kg per sqm		2.600	2.12	9999	5.51
	Portland cement	tonne	0.003	4408.00	0367	14.55
	For notch trowel, plier, wedge, clips of required thickness, leveling system and rubber mallet etc	L.S	2.500	2.12	9999	5.30
	LABOUR					
	Mason (brick layer) 1st class	day	0.200	413.00	0123	82.60 I
	Coolie	day	0.200	318.00	0115	63.60
	sundries including carriage of quick set polymer etc.		26.910	2.12	9988	57.05
	TOTAL					788.00 W
	Add 1% Water charges on "W"					7.88
	TOTAL					795.88 X
	Add GST on "X" (multiplying factor 0.1405)					111.82
	TOTAL					907.71 Y
	Add 15% CPOH on "Y"					136.16
	TOTAL					1043.86 Z

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## BCD Analysis of Rates 2022

Item No.	Description	Unit	Qty	Rate ₹	Rate Code.	Cost ₹
	Add Cess @ 1% on "Z"					10.44
	Cost of 1sqm					1954.30
	Say			Rs.1054.30 per sqm		

**11.41A.3. Size of Tile 600 x 1200 mm**  
2

Detail of cost for 1 sqm

**MATERIAL**

Glazed Vitrified tiles Matt/Antiskid finish  
60 x 120 cm size =1.00 sqm+ Add  
wastage & breakage @2.5% =0.025  
Total= 1.025 sqm

Glazed Vitrified tiles Matt/Antiskid of  
finish size 60 x 120 cm

sqm	1.025	700.00	2763		717.50
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Carriage of tiles

20 mm thick Cement mortar 1:4  
(1cement 4 coarse sand)

L.S.	6.240	2.12	9977		13.23
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Rate as per Item Number 3.9 of SH:  
Mortars

Cum	0.024	2256.97	3.9		54.17
-----	-------	---------	-----	--	-------

Mortar for pointing in white cement

Cement for slurry over bed @ 3.3 kg per  
sqm

L.S.	2.600	2.12	9999		5.51
------	-------	------	------	--	------

Portland cement

tonne	0.003	4408.00	0367		14.55
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For notch trowel, plier, wedge, clips of  
required thickness, leveling system and  
rubber mallet etc

L.S	2.500	2.12	9999		5.30
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**LABOUR**

Mason (brick layer) 1st class

day	0.200	413.00	0123		82.60
-----	-------	--------	------	--	-------

Coolie

day	0.200	318.00	0115		63.60
-----	-------	--------	------	--	-------

sundries including carriage of quick set polyteS.etc.

	26.910	2.12	9988		57.05
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**TOTAL**

Add 1% Water charges on "W"

1013.50 w

**TOTAL**

10.14

Add GST on "X" (multiplying factor 0.1405)

1023.64 X

**TOTAL**

143.82

Add 15% CPOH on "Y"

1167.46 Y

**TOTAL**

175.12

Add Cess @ 1% on "Z"

1342.58 Z

Cost of 1sqm

13.43

Say

Rs.1356.00 per sqm

**11.41A.3. Size of Tile 800 x 800 mm**  
3

Detail of cost for 1 sqm

**MATERIAL**

Glazed Vitrified tiles Matt/Antiskid finish  
80 x 80 cm size =1.00 sqm+ Add wastage  
& breakage @2.5% =0.025 sqm. Total =  
1.025 sqm

Glazed Vitrified tiles Matt/Antiskid finish of  
size 80 x 80 cm

sqm	1.025	650.00	2764		666.25
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Carriage of tiles

20 mm thick Cement mortar 1 : 4  
(1cement 4 coarse sand)

L.S.	6.24	2.12	9977		13.23
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BCD/SOR\_11<sup>th</sup> Edition\_2022

## BCD Analysis of Rates 2022

Item No.	Description	Unit	Qty	Rate ₹	Rate Code.	Cost ₹
	Rate as per Item Number 3.9 of SH: Mortars	Cum	0.024	2256.97	3.9	54.17
	Mortar for pointing in white cement					
	Cement for slurry over bed @ 3.3 kg per sqm	L.S.	2.6	2.12	9999	5.51
	Portland cement	tonne	0.0033	4408.00	0367	14.55
	For notch trowel, plier, wedge, clips of required thickness, leveling system and rubber mallet etc	L.S.	2.5	2.12	9999	5.30
	LABOUR					
	Mason (brick layer) 1st class	day	0.2	413.00	0123	82.60
	Coolie	day	0.2	318.00	0115	63.60
	sundries including carriage of quick set polyntes.etc.		26.91	2.12	9988	57.05
	TOTAL					962.25 W
	Add 1% Water charges on "W"					9.62
	TOTAL					971.88 X
	Add GST on "X" (multiplying factor 0.1405)					136.55
	TOTAL					1108.42 Y
	Add 15% CPOH on "Y"					166.26
	TOTAL					1274.69 Z
	Add Cess @ 1% on "Z"					12.75
	Cost of 1sqm					1287.44
	Say					Rs.1287.40 per sqm

### 11.41A.3. Size of Tile 800 x 1200 mm

4

Detail of cost for 1 sqm

MATERIAL

Glazed Vitrified tiles Matt/Antiskid finish  
80 x 120 cm size =1.00 sqm+ Add  
wastage & breakage @2.5% =0.025 sqm.  
Total= 1.025 sqm

Glazed Vitrified tiles Matt/Antiskid finish of size 80 x 120 cm	sqm	1.025	880.000	2765	902.00
Carriage of tiles	L.S.				
20 mm thick Cement mortar 1 : 4 (1cement: 4 coarse sand)		6.240	2.120	9977	13.23
Rate as per Item Number 3.9 of SH: Mortars	Cum	0.024	2256.971	3.9	54.17
Mortar for pointing in white cement	L.S.				
Cement for slurry over bed @ 3.3 kg per sqm		2.600	2.120	9999	5.51
Portland cement	tonne	0.003	4408.000	0367	14.55
For notch trowel, plier, wedge, clips of required thickness, leveling system and rubber mallet etc	L.S.	2.500	2.120	9999	5.30
LABOUR					
Mason (brick layer) 1st class	day	0.200	413.000	0123	82.60
Coolie	day	0.200	318.000	0115	63.60
sundries including carriage of quick set polymer etc.	L.S.	26.910	2.120	9988	57.05
TOTAL					1198.00 W
Add 1% Water charges on "W"					11.98
TOTAL					1209.98 X
Add GST on "X" (multiplying factor 0.1405)					170.00

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BCD/SOR\_11<sup>th</sup> Edition\_2022

## BCD Analysis of Rates 2022

Item No.	Description	Unit	Qty	Rate ₹	Rate Code.	Cost ₹
	TOTAL					1379.99 Y
	Add 15% CPOH on "Y"					207.00
	TOTAL					1586.98 Z
	Add Cess @ 1% on "Z"					15.87
	Cost of 1sqm					1602.85
	Say				Rs.1602.90 per sqm	
<b>11.41A.3.</b>						
<b>5</b>	<b>Size of Tile 1200 x 1200 mm</b>					
	Detail of cost for 1 sqm					
	MATERIAL					
	Glazed Vitrified tiles Matt/Antis kid finish 60 x 60 cm size = 1.00 sqm+ Add wastage & breakage @2.5% =0.025 sqm. Total=1.025 sqm					
	Glazed Vitrified tiles Matt/Antis kid finish of size 120 x 120 cm	sqm	1.03	1400.00	2766	1435.00
	Carriage of tiles 20 mm thick Cement mortar 1 : 4 (1cement: 4 coarse sand) Rate as per Item Number 3.9 of SH: Mortars	L.S.	6.24	2.12	9977	13.23
	Mortar for pointing in white cement Cement for slurry over bed @ 3.3 kg per sqm	Cum	0.02	2256.97	3.9	54.17
	Portland cement For notch trowel, plier, wedge, clips of required thickness, leveling system and rubber mallet etc	L.S.	2.60	2.12	9999	5.51
	LABOUR	tonne	0.00	4408.00	0367	14.55
	Mason (brick layer) 1st class	L.S	2.50	2.12	9999	5.30
	Coolie	day	0.20	413.00	0123	82.60
	sundries including carriage of quick set polyntleS.etc.	day	0.20	318.00	0115	63.60
	TOTAL	26.91		2.12	9988	57.05
	Add 1% Water charges on "W"					1731.00 W
	TOTAL					17.31
	Add GST on "X" (multiplying factor 0.1405)					1748.31 X
	TOTAL					245.64
	Add 15% CPOH on "Y"					1993.95 Y
	TOTAL					299.09
	Add Cess @ 1% on "Z"					2293.04 Z
	Cost of 1sqm					22.93
	Say				Rs.2316.00 per sqm	2315.98