
SUB HEAD : 12.0
ROOFING

BCD Analysis of Rates 2022

BUILDING WORK 12.0 Roofing

Item No.	Description	Unit	Qty	Rate ₹	Rate Code.	Cost ₹
12.1	Providing corrugated G.S. sheet roofing including vertical / curved surface fixed with polymer coated J or L hooks, bolts and nuts 8 mm diameter with bitumen and G.I. limpet washers or with G.I. limpet washers filled with white lead, including a coat of approved steel primer and two coats of approved paint on overlapping of sheets complete (up to any pitch in horizontal/ vertical or curved surfaces), excluding the cost of purlins, rafters and trusses and including cutting to size and shape wherever required.					
12.1.1	1.00 mm thick with zinc coating not less than 275 gm/m ²					
	Details of Cost for area of roof 2x18.09x5.1=184.518 sqm Materials: C.G.S sheets 2x27=54 nos. of size 2.5x0.9 metre @ 19.35 kg each=1044.90 kg. 2x27=54 nos. of size 2.8x0.9 @ 21.67 kg. each =1170.18 kg Total =2215.08 kg Add 5% Wastage =110.75 kg 2325.83 kg 23.26 quintals	quintal	23.260	9382.373	(3050)	218234.00
	Carriage of C.G.S. sheets	tonne	2.326	145.720	(2302)	338.94
	G.I. Seam bolts and nuts 60 cm centre to centre zig i.e. 30cm centre to centre straight Breadth is 5.1 metre No. of bolts in one lap =5.1/0.3 = 17 2x26x(laps)x17 nos.-884 nos.	ten	88.400	38.000	(1022)	3359.20
	(a) G.I. J. or L hooks 6mm dia (No. of purlins to be used 5 on either side)2x5x27 (No. of sheets)x23 nos. of bolts in each sheet=810 nos.	ten	81.000	120.000	(1023)	9720.00
	(e) Limpet washers (total of seam and J bolts) 684+810+=1694	cent	16.940	21.000	(1207)	355.74
	(f) Bitumen washers	cent	16.940	30.000	(1208)	508.20
	(g) Carriage of bolts and washers etc.	LS	26.910	2.120	(9999)	57.05
	(h) Sundries	LS	53.820	2.120	(9999)	114.10
	Labour:					
	Mistry	per day	1.300	306.000	(0130)	397.80
	Carpenter 11 class	per day	15.500	369.000	(0112)	5719.50
	Beldar	per day	15.500	306.000	(0114)	4743.00
	Zinc chromate yellow primer	litre	2.530	120.000	(4202)	303.60
	Carriage of material	LS	0.520	2.120	(9999)	1.10
	Painter	per day	1.130	391.000	(0131)	441.83
	Coolie	per day	1.130	318.000	(0115)	359.34
	Brushes. Sand papers i/c sundries	LS	50.570	2.120	(9999)	107.21
	Ready mixed paint on new work Paint	litre	3.750	120.000	(0845)	450.00
	Carriage of paint	LS	6.760	2.120	(9999)	14.33
	Painter	per day	2.530	391.000	(0131)	989.23
	Coolie	per day	2.530	318.000	(0115.)	804.54
	Brushes and Sandpapers	LS	31.980	2.120	(9999)	67.80

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Item No.	Description	Unit	Qty	Rate ₹	Rate Code.	Cost ₹
	Sundries	LS	38.090	2.120	(9999)	80.75
	Total					247167.26
	Add for water charges @ 1 %					2471.67
	TOTAL					249638.93 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)					35074.270
	Total					284713.201 (Y)
	Add for contractor's profit and overheads @ 15% on "Y"					42706.980
	Cost of 184.518 sqm					327420.18
	Cost of 1 sqm					1774.46
	Add labour cess @ 1%					17.74
	Rate including labour cess					1792.20
						Say Rs.1792.30 per sqm

12.1.2 0.8mm thick with zinc coating not less than 275 gm/m²

Considering a roof with each sloping side/8.09x5.1 m and the slopes being flatter than 1 vertical to 2.5 horizontal.

Details of cost for area of roof-2x 18.00x5.1=184.518 sqm

Details of Length & Breadth.

Length-

26(Laps)x0.135 (each lap)=3.51

Width of corrugated sheet with 10 corrugations, measures end to end =0.80 metres.

27 (nos. of sheets)x0.80(width of sheet)=21.60 length

Less Laps =3.51

Length =18.09

Breadth on one side-

C.G.I. sheet 1 No. of 2.5 metres length

C.G.I sheet 1 No. of 2.5 metres length

5.3 metres

Deduct end lap of 20cm (-) 0.2

Breadth 5.1

Materials:

C.G.I sheets 0.6 mm thick-2x27=nos. (a) 15.32 kg.

each =354.33 kg. (X)

2.5 m x 0.9 m is the size of plain G.I. Sheet which on being corrugated will become 2.5 m x 0.8m) (The size of plain sheet is taken because the weight is available only of plain sheets) (Refer I.S. Code 277.1952). 2x27=54 nos. of size

2.8x0.9 @ 17.72 kg. each=956.8 kg (Y)

Total of (X)+(Y) =1811.16 kg.

CO. 1811.16 kg.

Wastage =1811.16 kg.

Add for @ 5% = 90.56 kg.

1901.72 kg.

(a) 19.0172 q

quintal

19.02

9382.373

(3050)

178452.73

(b) Carriage of sheets

tonne

1.902

145.720

(2302)

0.00

(c) G.I. Seam bolts and nuts 60 cm centre to

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Item No.	Description	Unit	Qty	Rate ₹	Rate Code.	Cost ₹
	centre zig zag-i.e. 30 cm centre to centre straight. No. of bolts in one lap=(5.1/0.3)-17 nos. 2x25 (laps)x17 = 884 nos.	len	88.4	38.000	(1022)	3359.20
	(d) G.I.J or L hooks 8 mm din. (No. of purlins to be used 5 on either side)2x5x27 (No. of sheets)x2.3 No. of bolts in each sheet =810 nos.	len	81	120	(1023)	9720.00
	(e) Limpet washers (Total of seam and J bolts) =884+810=1694	cent	16.940	21.000	(1207)	355.74
	(f) Bitumen washers	cent	16.940	30.000	(1208)	508.20
	(g) Carriage of bolts and washers etc.	LS	26.910	2.120	(9999)	57.05
	(H) Sundries	LS	53.820	2.120	(9999)	114.10
	Labour:					
	Mistry	per day	1.300	306.000	(0130)	397.80
	Caarpenterll class	per day	15.500	369.000	(0112)	5719.50
	Beldar	per day	15.500	306.000	(0114)	4743.00
	Chromate yellow primer	litre	2.530	120.000	(4202)	303.60
	Carriage of material	LS	0.520	2.120	(9999)	1.10
	Painter	per day	1.130	391.000	(0131)	441.83
	Coolie	per day	1.130	318.000	(0115)	359.84
	Brushes, sand papers i/c sundries	LS	50.570	2.120	(9999)	107.21
	Ready mixed paint on new work paint	litre	3.750	120.000	(0845)	450.00
	Carriage of paint	LS	6.760	2.120	(9999)	14.33
	Painter	per day	2.530	391.000	(0131)	989.23
	Coolie	per day	2.530	318.000	(0115)	804.54
	Brushes and sandpapers	LS	31.980	2.120	(9999)	67.80
	Sundries	LS	38.090	2.120	(9999)	80.75
	Total					207047.05
	Add for water charges @ 1%					2070.47
	TOTAL					209117.52 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)					29381.012
	Total					238498.535 (Y)
	Add for contractor's profit and overheads @ 15% on "Y"					35774.780
	Cost of 184.518 sqm					274273.32
	Cost of 1 sqm					1486.43
	Add labour cess @ 1%					14.86
	Rate including labour cess					1501.29
						Say Rs.1501.30 per sqm

12.1.3 0.63mm thick with zinc coating not less than 275

gm/m²

Details of cost for area of roof

2x18.09x5.1 = 184.518 sqm

Materials:

C.G.I. Sheets 2x27-54 nos. of size 2.5x0.9 metres

@ 12.82kg each= 692.28kg 'L' 2x27=54 nos of

size 2.6x0.9 metres (a)14.38 kg each

775.44 kg 'M'

Total 'L'+M'=1467 72 kg

Add 5% wastage =73.39 kg./1541.11kg

i.e. 15.4111 quintal

Carriage of C.G.I, sheets/tonne

quintal 15.410 9382.373 (3050) 144582.37

Handwritten signatures and initials: P, L, B, R, 731, A, B

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Item No.	Description	Unit	Qty	Rate ₹	Rate Code.	Cost ₹
	G.I. seam bolts and nuts 60 cm centre to centre Zig-zag i.e. 30 cm centre to centre straight Breadth is 5.1 metre No. of bolts in one lap l = 5 - 1/0.3 = 17 2x26(laps)x17=884nos.	tonne	1.540	145.720	(2302)	224.41
	(d) G.I.J or L hooks 8mm dia (No of purlines to be used on either side) 2x5x27 (No. of sheets)x2.3 No. of bolts in each sheet)=810nos	ten	88.400	38.000	(1022)	3359.20
	(e) Limpet washers (Total of seam and J bolts = 884 + 810 = 1694	ten	81.000	120.000	(1023)	9720.00
	(f) Bitumen washers	cent	16.940	21.000	(1207)	355.74
	(g) Carriage of bolts and washers etc.	cent	16.940	30.000	(1208)	508.20
	(H) Sundries	LS	26.910	2.120	(9999)	57.05
		LS	53.820	2.120	(9999)	114.10
						158921.06
	Labour:					158921.06
	Mistry	perday	1.300	306.000	(0130)	397.80
	Carpenter II class	per day	15.500	369.000	(0112)	5719.50
	Beldars	per day	15.500	306.000	(0.114)	4743.00
	Chromate yellow primer	litre	2.530	120.000	(4202)	303.60
	Carriage of material	LS	0.520	2.120	(9999)	1.10
	Painter	per day	1.130	391.000	(0131)	441.83
	Coolie	per day	1.130	318.000	(0115)	359.34
	Brushes, sand papers i/e. sundries	LS	50.570	2.120	(9999)	107.21
	Ready mixed paint on new work paint	litre	3.750	120.000	(0845)	450.00
	Carriage of paint	LS	2.600	2.120	(9999)	5.51
	Painter	per day	2.530	391.000	(0131)	989.23
	Coolie	per day	2.530	318.000	(0115)	804.54
	Brushes and sandpapers	LS	31.980	2.120	(9999)	67.80
	Sundries	LS	38.090	2.120	(9999)	80.75
	Total					173392.28
	Add for water charges @ 1%					1733.92
	TOTAL					175126.20 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)					24605.231
	Total					199731.429 (Y)
	Add for contractor's profit and overheads @ 15% on "Y"					29959.714
	Cost of 184.518 sqm					229691.14
	Cost of 1 sqm					1244.82
	Add labour cess @ 1%					12.45
	Rate including labour cess					1257.27
	Say Rs.1257.30 per sqm					
12.2	Extra for providing and fixing corrugated G. S. sheets vertically or to a pitch exceeding 60					
	Beldar	per day	5.000	306.000	(0114)	1530.00
	Add for water charges @ 1%					- 15.30
	TOTAL					1545.30 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)					217.115
	Total					1762.415 (Y)

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Item No.	Description	Unit	Qty	Rate ₹	Rate Code.	Cost ₹
	Add for contractor's profit and overheads @ 15% on "Y"					264.362
	Cost of 184.518 sqm					2026.78
	Cost of 1 sqm					10.98
	Add labour cess @ 1%					0.11
	Rate including labour cess					11.09
	Say			Rs.11.10	per sqm	
12.3	Extra for providing and fixing curved C.G.S. sheets on roofing					
12.3.4	0.80 mm thickk					
	Details of cost for 184.518 sqm					
	Extra for making the sheets curved					
	Labour:					
	Mistry	oe. day	0.130	306.000	(0130)	39.78
	Carpenter II class	per day	2.500	369.000	(0112)	922.50
	Beldars	per day	2.500	306.000	(0114)	765.00
	Total					1727.28
	Add for water charges @ 1%					17.27
	TOTAL					1744.55 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)					245.110
	Total					1989.662 (Y)
	Add for contractor's profit and overheads @ 15% on "Y"					298.449
	Cost of 184.518 sqm					2288.11
	Cost of 1 sqm					12.40
	Add labour cess @ 1%					0.12
	Rate including labour cess					12.52
	Say			Rs.12.50	per sqm	
12.3.5	0.63 mm thick					
	Details of cost for 184.518 sqm					
	Extra for making the sheets curved					
	Labour:					
	Mistry	per day	0.130	306.000	(0130)	39.78
	Carpenter II class	per day	2.00	369.00	(0112)	738.00
	Beldar	per day	2.00	306.00	(0114)	612.00
	Total					1389.78
	Add for water charges @ 1%					13.90
	TOTAL					1403.68 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)					197.217
	Total					1600.895 (Y)
	Add for contractor's profit and overheads @ 15% on "Y"					240.134
	Cost of 184.518 sqm					1841.03
	Cost of 1 sqm					9.98
	Add labour cess @ 1%					0.10
	Rate including labour cess					10.08
	Say			Rs.10.10	per sqm	
12.4	Extra for straight cutting in C.G. S. sheet roofing for making opening of area exceeding 40 decm² for chimney stacks , sky light etc.					
12.4.1	1.00 mm thick					
	Details of cost for 3.00 metres periphery					
	Labour:					


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Item No.	Description	Unit	Qty	Rate ₹	Rate Code.	Cost ₹
	Blacksmith first class	per day	0.15	413.00	(0102)	61.95
	Beldar	per day	0.15	306.00	(0114)	45.90
	Total					107.85
	Add for water charges @ 1%					1.08
	TOTAL					108.93 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)					15.304
	Total					124.233 (Y)
	Add for contractor's profit and overheads @ 15% on "Y"					18.635
	Cost of 3 m					142.87
	Cost of t in					47.62
	Add labour cess @ 1%					0.48
	Rate including labour cess					48.10
				Say	Rs.48.20	per m
12.4.2	0.80 mm thick					
	Details of cost for 3 metres periphery					
	Labour:					
	Blacksmith first class	per day	0.12	413.00	(0102)	49.56
	Beldar	per day	0.12	306.00	(0114)	36.72
	Total					86.28
	Add for water charges @ 1%					0.86
	TOTAL					87.14 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)					12.244
	Total					99.386 (Y)
	Add for contractor's profit and overheads @ 15% on "Y"					14.908
	Cost of 3 m					114.29
	Cost of 1 m					38.10
	Add labour cess @ 1%					0.38
	Rate including labour cess					38.48
				Say	Rs.38.50	per m
12.4.3	0.63 mm thick					
	Details of cost for 3 metres periphery					
	Labour:					
	Blacksmith first class	per day	0.12	413.00	(0102)	49.56
	Beldar	per day	0.12	306.00	(0114)	36.72
	Total					86.28
	Add for water charges @ 1%					0.86
	TOTAL					87.14 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)					12.244
	Total					99.386 (Y)
	Add for contractor's profit and overheads @ 15% on "Y"					14.908
	Cost of 3 m					114.29
	Cost of 1 m					38.10
	Add labour cess @ 1%					0.38
	Rate including labour cess					38.48
				Say	Rs.38.50	per m
12.5	Extra for circular cutting in C. G. S. sheet roofing for making opening of area exceeding 40 square decimetre .					

12.5.1 1.0 mm thick
Details of cost for 15.71 metre of periphery

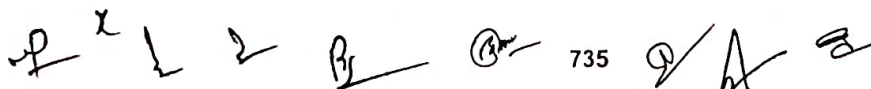
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Item No.	Description	Unit	Qty	Rate ₹	Rate Code.	Cost ₹
	Labour:					
	Blacksmith first class	per day	3.130	413.000	(0102)	1292.69
	Beldar	per day	6.260	306.000	(0114)	1915.68
	Total					3208.37
	Add for water charges @ 1%					32.08
	TOTAL					3240.46 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)					455.284
	Total					3695.740 (Y)
	Add for contractor's profit and overheads @ 15% on "Y"					554.361
	Cost of 15.71 m					4250.10
	Cost of 1 m					270.53
	Add labour cess @ 1%					2.71
	Rate including labour cess					273.24
				Say	Rs.273.20	per m
12.5.2	0.80 mm thick					
	Details of cost for 15.71 metres					
	Labour:					
	Blacksmith first class	per day	2.500	413.000	(0102)	1032.50
	Beldar	per day	5.000	306.000	(0114)	1530.00
	Total					2562.50
	Add for water charges @ 1%					25.63
	TOTAL					2588.13 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)					363.632
	Total					2951.757 (Y)
	Add for contractor's profit and overheads @ 15% on "Y"					442.763
	Cost of 15.71 m					3394.52
	Cost of 1 m					216.07
	Add labour cess @ 1%					2.16
	Rate including labour cess					218.23
				Say	Rs.218.20	per m
12.5.5	0.63 mm thick					
	Details of cost for 15.71 metres					
	Labour:					
	Blacksmith first class	per day	2.500	413.000	(0102)	1032.50
	Beldar	per day	5.000	306.000	(0114)	1530.00
	Total					2562.50
	Add for water charges @ 1%					25.63
	TOTAL					2588.13 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)					363.632
	Total					2951.757 (Y)
	Add for contractor's profit and overheads @ 15% on "Y"					442.763
	Cost of 15.71 m					3394.52
	Cost of 1 m					216.07
	Add labour cess @ 1%					2.16
	Rate including labour cess					218.23
				Say	Rs.218.20	per metre
12.6	Providing ridges or hips of width 60 cm over all width plain G.S. sheet fixed with polymer coated J. or L hooks . Bolts and nuts 8 mm dia. G. I. limpet and bitumen washers complete					



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Item No.	Description	Unit	Qty	Rate ₹	Rate Code.	Cost ₹
12.6.1	0.80 mm thick with zinc coating not less than 275 gm/m ²					
	Details of cost for 10.35 metre long ridge .80 mm thick with zinc coating not less than 275gm/sqm					
	Consider the length of the ridge 10.35 metres. The ridge will be made out of plain G. I. sheets 0.9 m x 1.8 m .					
	There pieces will be 0.9 m long and 0.60 m wide overlaping 22.5 cm .					
	Materials:					
	G. I. plain sheets 0.80 thick 1.60x 0.90 m size 5 nos. @					
	11.39 Kg. sheet		= 56.95 kg			
	Add 2% wastage		= 1.14 kg			
	58.09 kg or 0.58 q	quintal	0.580	5000.000	(0992)	2900.00
	Carnage of sheets	tonne	0.058	145.720	(2302)	8.45
	G.I seam bolts and nuts-25mmx6mm (there are 14 joints)					
	2x14=28 nos.	ten	2.800	10.000	(0222)	28.00
	G.I. plain washers	cent	0.280	32.000	(1211)	8.96
	Bitumen washers	cent	0.280	30.000	(1208)	8.40
	Carriage of seam bolts and washers	LS	1.820	2.120	(9999)	3.86
	Sundries	LS	13.520	2.120	(9999)	28.66
	Labour:					0.00
	Mistry	per day	0.400	306.000	(0130)	122.40
	Blacksmith 1st class	per day	1.200	413.000	(0102)	495.60
	Blacksmith 2nd class	per day	0.800	369.000	(0103)	295.20
	Beldar	per day	2.400	306.000	(0114)	734.40
	Total					4633.93
	Add for water charges @ 1%					46.34
	TOTAL					4680.27 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)					657.578
	Total					5337.850 (Y)
	Add for contractor's profit and overheads @ 15% on "Y"					800.678
	Cost of 10.35 m					6138.53
	Cost of 1 m					593.09
	Add labour cess @ 1%					5.93
	Rate including labour cess					599.02
				Say	Rs.599.00	per metre

12.6.2 0.63 mm thick with zinc coating not less than 275 gm/m²

Details of cost for 10.35 metre long ridge.

G.I. plain sheets 0.63 mm thick .

1.8x0.9 m size 5 nos. @ 9.23 kg. per

Sheet = 15 kg

Add 2% wastage = 0.92 kg.

47.07 kg.

Say 47 kg.

Carriage of G.I. sheets

(There are 14 joints)

2x14=28 nos.

G.I. plain washers

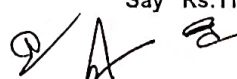
quintal	0.470	5000.000	(0992)	2350.00
tonne	0.047	145.720	(2302)	6.85
ten	2.800	10.000	(0222)	28.00
cent	0.280	32.000	(1211)	8.96

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Item No.	Description	Unit	Qty	Rate ₹	Rate Code.	Cost ₹
	Bitumen washers	cent	0.280	30.000	(1208)	8.40
	Carriage of seam bolts and washers	1 time	1.820	2.120	(9999)	3.86
	Sundries	1 time	13.520	2.120	(9999)	28.66
	Labour:					0.00
	Mistry	per day	0.400	306.000	(0130)	122.40
	Blacksmith 1st class	per day	1.200	413.000	(0102)	495.60
	Blacksmith 2nd class	per day	0.800	369.000	(0103)	295.20
	Beldar	per day	2.400	306.000	(0114)	734.40
	Total					4082.33
	Add for water charges @ 1%					40.82
	TOTAL					4123.15 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)					579.303
	Total					4702.456 (Y)
	Add for contractor's profit and overheads @ 15% on "Y"					705.368
	Cost of 10.35 m					5407.82
	Cost of 1 m					522.50
	Add labour cess @ 1%					5.22
	Rate including labour cess					527.72
						Say Rs.527.70 per metre
12.7	Providing valleys of 90 cm wide overall in plain) G.S. sheet fixed with polymer coated J or L. hooks, belts and nuts 8 mm dia. G.I. limpet and bitumen washers complete.					
12.7.1	1.60 mm thick with zinc coating not less than 350gm/m ²					
	Details of cost for 9 325 m					
	Materials:					
	G.I. plain sheet 2.5x0.9m					
	4 nos. @ 29.95 kg/sheet=119.80] kg.					
	Add 2% wastage=2.40 kg.					
	122.20 kg or 1.222 q					
	Carriage of sheets	quintal	1.222	5000.000	(0992)	6110.00
	G.I. seam bolts and nuts 25 mm x 6 mm @ 4 bolts	tonne	0.120	145.720	(2302)	17.49
	at one joint=4x3=12 nos.	ten	1.200	10.000	(0222)	12.00
	GI plain washer	cent	0.120	32.000	(1211)	3.84
	Bitumen washers	cent	0.120	30.000	(12Q8)	3.60
	Carriage of bolts, nuts and washers	1 time	1.820	2.120	(9999)	3.86
	Sundries	1 time	13.520	2.120	(9999)	28.66
	Labour:					
	Mistry	per day	0.400	306.000	(0130)	122.40
	Blacksmith 1st class	per day	1.200	413.000	(0102)	495.60
	Blacksmith 2nd class	per day	0.800	369.000	(0103)	295.20
	Beldar	per day	2.400	306.000	(0114)	734.40
	Total					7827.05
	Add for water charges @ 1%					78.27
	TOTAL					7905.32 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)					1110.697
	Total					9016.015 (Y)
	Add for contractor's profit and overheads @ 15% on "Y"					1352.402
	Cost of 9 325 m					10368.42
	Cost of 1 m					1111.89
	Add labour cess @ 1%					11.12
	Rate including labour cess					1123.01
						Say Rs.1123.00 per metre



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Item No.	Description	Unit	Qty	Rate ₹	Rate Code.	Cost ₹
12.8	Providing flashing of 40 cm overall width in plain, G.S. sheet fixed with polymer coated J. or L. hooks, bolts and nuts G.I. limpet and bitumen washers complete, bent to shape and fixed in wall with cement mortar 1:3(1 cement:3 coarse sand).					
12.8.1	1.00 mm thick with zinc coating not less than 275gm/m ²					
	Details of cost for 12.125 m					
	Consider a length of flashing 12.125 metres.					
	Materials-					
	G.I. plain sheet 1.25 mm thick 3.2x0.75 m					
	2 nos @20.64 kg. =41.23 kg					
	Add 2% wastage =0.83 kg					
	42.11 kg					
	or 0.4211 quintal	quintal	0.421	5000.000	(0992)	2105.50
	Carriage of sheets	tonne	0.041	145.720	(2302)	5.97
	G.I. seam bolts and nuts-25mmx6mm (Taking 2 bolts per joints)	ten	0.600	10.000	(0222)	6.00
	Limpet washers	cent	0.060	21.000	(1207)	1.26
	Bitumen washers	cent	0.060	30.000	(1208)	1.80
	Carriage of G.I. seam bolts and washers	1 time	0.390	2.120	(3999)	0.83
	Sundries	1 time	10.790	2.120	(9999)	22.87
	Labour:					
	Mistry	per day	0.500	306.000	(0130)	153.00
	Blacksmith 1 st class	per day	1.480	413.000	(0102)	611.24
	Blacksmith 2nd class	per day	1.000	369.000	(0103)	369.00
	Beldar	per day	3.000	306.000	(0114)	918.00
	Total					4195.48
	Add for water charges @ 1%					41.95
	TOTAL					4237.43 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)					595.359
	Total					4832.790 (Y)
	Add for contractor's profit and overheads @ 15% on "Y"					724.918
	Cost of 12.125 m					5557.71
	Cost of 1 m					458.37
	Add labour cess @ 1%					4.58
	Rate including labour cess					462.95
	Say Rs.462.90 per metre					
12.9	Providing and fixing 15 cm wide 45 cm over all semi circular plain G.S. sheet gutter with iron brackets 40x3 mm size bolts, nuts and washers etc. including making necessary connections with rain water pipes complete.					
12.9.1	0.80 mm thick with zinc coating not less than 275 gm/m ²					
	Consider a length of 9.04m					
	Sheet used =2.5x0.90 m					
	=2 nos.					
	Wt =2x15.82=31.64 kg.					
	=0.3164 q					
	Carriage of sheet	quintal	0.316	5000.000	(0992)	1582.00
	Flats upto 10 mm in thickness	tonne	0.032	145.720	(2302)	4.60
	Galvanised steel bolts and nuts 6 mm dia, and 25mm dia. Long round head with slots	quintal	0.075	4850.000	(1008)	363.27
	Galvanised steel bolts and nuts 10 mm dia and 125 mm long	ten	2.000	38.000	(1022)	76.00
	G.I. plain washer thin	each	30.000	9.000	(1024)	270.00
	Bitumen washer	cent	0.700	21.000	(1210)	14.70
		cent	0.400	30.000	(1208)	12.00

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Item No.	Description	Unit	Qty	Rate ₹	Rate Code.	Cost ₹
	Carriage of G.I. seam bolts and washers	1 time	2.730	2.120	(9999)	5.79
	Sundries	1 time	5.330	2.120	(9999)	11.30
	Blacksmith 1 st class	per day	0.500	413.000	(0102)	206.50
	beldar	per day	0.500	306.000	(0114)	153.00
	Sundries	1 time	12.610	2.120	(9999)	26.73
	Mistry	per day	0.280	306.000	(0130)	85.68
	Blacksmith 1 st class	per day	0.840	413.000	(0102)	346.92
	Carpenter 2nd class	per day	0.620	369.000	(0112)	228.78
	Beldar	per day	1.680	306.000	(0114)	514.08
	Total					3901.35
	Add for water charges @ 1%					39.01
	TOTAL					3940.36 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)					553.621
	Total					4493.985 (Y)
	Add for contractor's profit and overheads @ 15% on "Y"					674.098
	Cost of 9.04 m					5168.08
	Cost of 1 m					571.69
	Add labour cess @ 1%					5.72
	Rate including labour cess					577.41
				Say	Rs.577.40	per metre
12.9.2	0.63 mm thick with zinc coating not less than 275gm/m2					
	consider a length of 9.04 metres.					
	Sheet used =2.5x0.90 m					
	=2 nos.					
	Weight of sheet =2x11.82 kg.					
	=23.64 kg.					
	=0.2364 q	quintal	0.236	5000.000	(0992)	1182.00
	Carriage of sheet	tonne	0.024	145.720	(2302)	3.44
	Flats upto 10 mm in thickness	quintal	0.075	4850.000	(1008)	363.27
	Galvanised steel bolts and nuts 6 mm dia. And 25 mm dia. Long round head with slots	ten	2.000	38.000	(1022)	76.00
						1624.70
	Galvanised steel bolts and nuts 10 mm dia and 125 mm long	each	30.000	9.000	(1024)	270.00
	G.I. plain washer thin	cent	0.700	21.000	(1210)	14.70
	Bitumen washer	cent	0.400	30.000	(1208)	12.00
	Carriage of G.I. seam bolts and washers	1 time	2.730	2.120	(9999)	5.79
	Sundries	1 time	5.330	2.120	(9999)	11.30
	Blacksmith 1 st class	per day	0.500	413.000	(0102)	206.50
	Beldar	per day	0.500	306.000	(0114)	153.00
	Sundries	1 time	12.610	2.120	(9999)	26.73
	Mistry	per day	0.280	306.000	(0130)	85.68
	Blacksmith 1st class	per day	0.840	413.000	(0102)	346.92
	Carpenter 2nd class	per day	0.620	369.000	(0112)	228.78
	Beldar	per day	1.680	306.000	(0114)	514.08
	Total					3500.18
	Add for water charges @ 1%					35.00
	TOTAL					3535.19 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)					496.694
	Total					4031.880 (Y)
	Add for contractor's profit and overheads @ 15% on "Y"					604.782
	Cost of 9.04 m					4636.66
	Cost of 1 m					512.91

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Item No.	Description	Unit	Qty	Rate ₹	Rate Code.	Cost ₹
	Add labour cess @ 1%					5.13
	Rate including labour cess					518.04
				Say Rs.518.00	per metre	
12.10	Providing asbestos cement 6 mm thick corrugated sheets roofing and fixing with G.I. J or L hooks bolts and nuts 8 mm dia G. I. plain and bitumen washers complete excluding the cost of purlins, rafters and trusses corrugated sheet.					
12.10.1	upto 60 degree pitch					
	Consider a shed of 20x10 metres. (External dimensions of plinth).					
	Area of roof-					
	20.2x10.70 m =216.14 sqm					
	Materials:					
	Sheets used = 2x20 nos.x3.00mx1.05 m=126.00 sqm					
	2x20nosx2.50mx1.05=105.00sqm					
	=231.00sqm					
	Add 3% wastage =6.93					
	=237.93 sqm	sqm	237.930	195.210	(0200)	46446.30
	2x20x0.42147 = 1.68588					
	2x20x0.35123 =1.4049					
	=3.0908					
	Add 3% wastage=0.092					
	3.1835 say 3.184t	tonne	3.184	145.720	(2302)	463.97
	G.I.J. or L hooks, with nuts and bolts 8 mm dia.	ten	47.600	120.000	(1023)	5712.00
	G.I. washers thick	cent	4.760	30.000	(1208)	142.80
	Bitumen washers thick	cent	4.760	35.000	(1209)	166.60
	Carriage of bolts and nuts, washers etc.	1 time	8.060	2.120	(9999)	17.09
	Sundries	1 time	39.520	2.120	(9999)	83.78
	Labour:					0.00
	Mistry	per day	2.340	306.000	(0130)	716.04
	Carpenter II class	per day	9.340	369.000	(0112)	3446.46
	Beldars	per day	9.340	306.000	(0114)	2858.04
	Total					60053.08
	Add for water charges @ 1%					600.53
	TOTAL					60653.61 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)					8521.832
	Total					69175.443 (Y)
	Add for contractor's profit and overheads @ 15% on "Y"					10376.316
	Cost of 216.14 sqm					79551.76
	Cost of 1 sqm					368.06
	Add labour cess @ 1%					3.68
	Rate including labour cess					371.74

Say Rs.371.70 Per sqm

12.10.2 above 60 degree pitch

Consider a shed of 20x 10 metres. (External dimensions of plinth).

Area of roof-

20.2x10.70m=216.14 sqm

Materials:

Sheets used=2x20 nos.x3.00mx1.05m=126.00 sqm

2x20 nos.x2.50mx1.05m=105.00 sqm

=231.00 sqm

Add 3% wastage

6.93 sqm

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Item No.	Description	Unit	Qty	Rate ₹	Rate Code.	Cost ₹
	=237.93 sqm	sqm	237.930	195.21	(0200)	46446.30
	2x20x0.42147=1.68588					
	2x200x0.35123=1.4049					
	= 3.0908					
	Add 3% wastage =0.092					
	Say 3.184t 3.1835	tonne	3.184	145.72	(2302)	463.97
	G.I.J. or L hooks, with nuts and bolts 8 mm dia.	ten	47.600	120.00	(1023)	5712.00
	G.I. washers thick	cent	4.760	30.00	(1208)	142.80
	Bitumen washers thick	cent	4.760	35.00	(1209)	166.60
	Carriage of bolts and nuts, washers etc.	1 'time	8.060	2.12	(9999)	17.09
	Sundries	1 time	39.520	2.12	(9999)	83.78
	Labour:					0.00
	Mistry	per day	2.340	306.00	(0130)	716.04
	Carpenter II class	per day	9.340	369.00	(0112)	3446.46
	Beldars	per day	15.340	306.00	(0114)	4694.04
	Total					61889.08
	Add for water charges @ 1%					618.89
	TOTAL					62507.97 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)					8782.370
	Total					71290.341 (Y)
	Add for contractor's profit and overheads @ 15% on "Y"					10693.551
	Cost of 216.14 sqm					81983.89
	Cost of 1 sqm					379.31
	Add labour cess @ 1%					3.79
	Rate including labour cess					383.10
	Say Rs.383.10 Per sqm					
12.11	Extra for straight cutting in A.C. corrugated, semicorrugated 6mm thick sheet roofing for making opening of area exceeding 40 dm ² for chimney stacks, skylights etc Details of cost for 3 metres of periphery Area of cutting 0.9m x 0.6m = 0.54 sqm; peimetre = 3 metres					
	Labour:					
	Carpenter 1st class	per day	0.120	413.00	(0111)	49.56
	Beldar	per day	0.120	306.00	(0114)	36.72
	Total					86.28
	Add for water charges @ 1%					0.86
	TOTAL					87.14 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)					12.244
	Total					99.386 (Y)
	Add for contractor's profit and overheads @ 15% on "Y"					14.908
	Cost of 3 m					114.29
	Cost of 1 m					38.10
	Add labour cess @ 1%					0.38
	Rate including labour cess					38.48
	Say Rs.38.50 per metre					
12.12	Extra for circular cutting in A.C. corrugated/semicorrugated 6 mm thick sheet roofing for making opening of area exceeding 40 dm ²					
	Details of cost for 4 holes of 0.72 metre diameter i.e. 9.05 metric periphery					
	Labour:					
	Carpenter 1st class	per day	1.000	413.000	(0111)	413.00
	Beldar	per day	1.000	306.000	(0114)	306.00
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Item No.	Description	Unit	Qty	Rate ₹	Rate Code.	Cost ₹
	Total					719.00
	Add for water charges @ 1%					7.19
	TOTAL					726.19 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)					102.030
	Total					828.220 (Y)
	Add for contractor's profit and overheads @ 15% on "Y"					124.233
	Cost of 3 m					952.45
	Cost of 1 m					317.48
	Add labour cess @ 1%					3.17
	Rate including labour cess					320.65
	Say			Rs.320.70	per metre	
12.13	Extra for providing and fixing wind ties of 40x6mm flat irdn section.					
	iv/I.S fiat 40x6 mm =30 metres					
	Wastage @ 5% =1.5 metres					
	31.50 metres @ 1.9 kg per metre					
	59.85 kg. =0.5985 quintal					
	Flats upto 10 mm in thickness	quintal	0.599	4850.000	(1008)	2902.73
	Carriage of steel	tonne	0.060	145.720	(2205)	8.74
	Sundries	LS	20.670	2.120	(9999)	43.82
	Blacksmith 1st class	per day	0.500	413.000	(0102)	206.50
	Beldars	per day	0.500	306.000	(0114)	153.00
	Total					3314.79
	Add for water charges @ 1%					33.15
	TOTAL					3347.94 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)					470.385
	Total					3818.322 (Y)
	Add for contractor's profit and overheads @ 15% on "Y"					572.748
	Cost of 30 m					4391.07
	Cost of 1 m					146.37
	Add labour cess @ 1%					1.46
	Rate including labour cess					147.83
	Say			Rs.147.80	per metre	
12.14	Providing and fixing ridges and hips in asbestos cement sheet roofing					
12.14.1	One piece plain angular ridges Consider a shed of 20x 10 m (external dimentions at plinth)					
	Materials:					
	Ridge piece required each of 1.22 mm lengh = 19 nos					
	Add 5% wastage = 0.95 No.					
	=19.95 nos.					
	Carriage	each	19.950	145.063	(0207)	2894.00
	(The ridge is to be fixed with the same hooks as the A.C. sheets)	1 time	6.200	2.120	(9999)	13.14
	Sundries	1 time	2.600	2.120	(9999)	5.51
	Labour: Mistry	per day	0.140	306.000	(0130)	42.84
	Carpentarl class	per day	0.550	369.000	(0112)	202.95
	Beldars	per day	1.640	306.000	(0114)	501.84
	Total					3660.28

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Item No.	Description	Unit	Qty	Rate ₹	Rate Code.	Cost ₹
	Add for water charges @ 1%					36.60
	TOTAL					3696.89 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)					519.413
	Total					4216.299 (Y)
	Add for contractor's profit and overheads @ 15% on "Y"					632.445
	Cost of 20.2 m					4848.74
	Cost of 1 m					240.04
	Add labour cess @ 1%					2.40
	Rate including labour cess					242.44
	Say Rs.242.40 per metre					

12.14.2 Serrated of plain wing adjustable ridges Consider a shed of 20x10 m (external dimation at plinth)

Materials:

Consider a shed of 20x10 m (external diamentiun at plinth) required no of ridge pieces of length

1.22 m each = 19 nos

Add 5% wastage = 0.95 no

19.95 nos

Carriage	pair	19.950	198.803	(0208)	3966.11	
(The ridge is to be fixed with the same the A.C. sheets)	1 time	6.200	2.120	(9999)	13.14	
Sundries	1 time	2.600	2.120	(9999)	5.51	
Labour:						
Mistry	per day	0.140	306.000	(0130)	42.84	
Carpentar II class	per day	0.550	369.000	(0112)	202.95	
Beldars	per day	1.640	306.000	(0114)	501.84	
Total					4732.40	
Add for water charges @ 1%					47.32	
TOTAL					4779.72 (X)	
Add GST 12% on "X" (multiplying factor 0.1405)					671.551	
Total					5451.271 (Y)	
Add for contractor's profit and overheads @ 15% on "Y"					817.691	
Cost of 20.2 m					6268.96	
Cost of 1 m					310.34	
Add labour cess @ 1%					3.10	
Rate including labour cess					313.44	
	Say Rs.313.40 per metre					

12.14.3 Close fitting adjustable ridges consider a shed 20x10 metre(External dimation at plinth). Length of ridge 20.2 metres.

No. of ridge pairs required, of length 1.22 m each
=22.00 nos.

Add 5% wastage=1.10 nos.

=23.10 nos.

(15 cm lap is taken into consideration)	pair	23.100	225.654	(0209)	5212.60
Carriage	1 time	6.200	2.120	(9999)	13.14
(The ridge have to be fixed with the same hooks as the A.C. sheet).					
Sundries	1 time	2.750	2.120	(9999)	5.83
Labour:					
Mistry	per day	0.140	306.000	(0130)	42.84
Carpentar II class	per clay	0.550	369.000	(0112)	202.95

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Item No.	Description	Unit	Qty	Rate ₹	Rate Code.	Cost ₹
	Beldars	per day	1.640	306.000	(0114)	501.84
	Total					5979.21
	Add for water charges @ 1%					59.79
	TOTAL					6039.00 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)					848.480
	Total					6887.481 (Y)
	Add for contractor's profit and overheads @ 15% on "Y"					1033.122
	Cost of 20.2 m					7920.60
	Cost of 1 m					392.11
	Add labour cess @ 1%					3.92
	Rate including labour cess					396.03
				Say	Rs.396.00 per metre	

12.14.5 Unserrated adjustable hips consider a shed with hip as 29.2 metres.

No. of hip pieces required = 19 pairs

Length of each pair 1.22 metre

Add 5% wastage = 0.95 pairs
= 19.95 pairs

pair	19.950	198.803	(0212)	3966.11
Carriage	1 time	2.600	(9999)	5.51
Sundries	1 time	2.550	(9999)	5.41
Labour:				
Mistry	per day	0.140	(0130)	42.84
Carpenter II class	per day	0.550	(0112)	202.95
Beldars	per day	1.640	(0114)	501.84
Total				4724.66
Add for water charges @ 1%				47.25
TOTAL				4771.90 (X)
Add GST 12% on "X" (multiplying factor 0.1405)				670.453
Total				5442.357 (Y)
Add for contractor's profit and overheads @ 15% on "Y"				816.354
Cost of 20.2 m				6258.71
Cost of 1 m				309.84
Add labour cess @ 1%				3.10
Rate including labour cess				312.94

Say Rs.312.90 per metre

12.15 Providing and fixing asbestos cement roofing accessories with galvanised iron J or L hooks, bolts and nuts and of G.I. seam bolts and nuts. G.I. plain and bitumen washers complete.

12.15.1 Details for shed of 20.2 metres completed length

Materials:

Apron flashing pieces of 1.12 metre length = 20 nos

Add 5% wastage = 1.0 nos
= 21 nos.

each	21.000	139.692	(0214)	2933.54
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Carriage of apron pieces (The apron pieces are to be fixed with the same hooks as the A.C. sheets).

1 time	1.250	2.120	(9999)	2.65
Sundries	1 time	1.250	(9999)	2.65

Labour:

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Item No.	Description	Unit	Qty	Rate ₹	Rate Code.	Cost ₹
	Mistry	per day	0.070	306.000	(0130)	21.42
	Carpenter li class	per day	0.280	369.000	(01 12)	103.32
	Beldars	per day	0.820	306.000	(0114)	250.92
	Total					3314.50
	Add for water charges @ 1%					33.14
	TOTAL					3347.64 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)					470.344
	Total					3817.987 (Y)
	Add for contractor's profit and overheads @ 15% on "Y"					572.698
	Cost of 20.2 m					4390.68
	Cost of 1 m					217.36
	Add labour cess @ 1%					2.17
	Rate including labour cess					219.53

Say Rs.219.50 per metre

12.15.2 Eaves filler pieces

Details of eaves filler for a shed of 20.2 metres complete length

Materials:

Eaves filler pieces of 1.016 metres length =20 nos.

Add 5% wastage=1.0 no

=21.0 nos.

each	21.000	102.082	(0215)	2143.72
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(The eaves filler pieces are to be fixed with the same hooks as the A.C. sheets).

Carnage	1 time	1.250	2.120	(9999)	2.65
Sundries	1 time	1.250	2.120	19999)	2.65

Labour:

Mistry	per day	0.070	306.000	(0130)	21.42
Carpenter II class	per day	0.280	369.000	(0112)	103.32
Beldars	per day	0.820	306.000	(0114)	250.92

Total 2524.68

Add for water charges @ 1% 25.25

TOTAL 2549.92 (X)

Add GST 12% on "X" (multiplying factor 0.1405) 358.264

Total 2908.188 (Y)

Add for contractor's profit and overheads @ 15% on "Y" 436.228

Cost of 20.2 en 3344.42

Cost of 1 m 165.57

Add labour cess @ 1% 1.66

Rate including labour cess 167.23

Say Rs.167.20 per metre

12.15.3 North light and ventilator curves Details of north light ventilator curve 20.2 metres long complete length

Materials:

North light curves of 1.016 metres nominal length =20 nos.

Add 5% wastage = 1.0 No.

= 21 nos.

each	21.000	245.367	(0216)	5152.70
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J or L hooks with nuts 8m dia M	ten	4.000	120.00	(1023)	480.00
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G.I. plain washers	cent	0.400	30.00	(1208)	12.00
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Bitumen washers thick	cent	0.400	35.00	(1209)	14.00
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Carriage of hooks, nuts, washers and curves	1 time	3.800	2.12	(9999)	8.06
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Sundries	1 time	2.400	2.12	(9999)	5.09
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Item No.	Description	Unit	Qty	Rate ₹	Rate Code.	Cost ₹
	Labour:					
	Mistry	per day	0.100	306.00	(0130)	30 60
	Carpentar II class	per day	0.300	369.00	(0112)	110.70
	Beidars	per day	1.000	306.00	(0114)	306.00
	Total					6119.14
	Add for water charges @ 1%					61.19
	TOTAL					6180.33 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)					868.337
	Total					7048.671 (Y)
	Add for contractor's profit and overheads @ 15% on "Y"					1057.301
	Cost of 20.2 m					8105.97
	Cost of 1m					401.29
	Add labour cess @ 1%					4.01
	Rate including labour cess					405.30
				Say	Rs.405.30	per metre
12 15 4	Barge boards					
	Details of cost for 8.23 metres (27'-0) Completed length of barqe boards					
	Materials:					
	Barge Doa.ds 2.44 metres=2 nos					
	Add 5% wastage =0.1 no.					
	=2.1 nos.	each	2.100	334.902	(0205)	703.29
	Barge board 1.83 metres=2 nos.					
	Add 5% wastage=0.1 No.					
	2.1 No.	each	2.100	250.737	(0206)	526.55
	Seam bolts, nuts 6 mm diax25mm long	ten	5.000	10.000	(0222)	50.00
	G.I. washers for seam bolts	cent	0.100	32.000	(1211)	3.20
	Bitumen washers	cent	0.500	30.000	(1208)	15.00
	Carriage of barge boards, bolts, nuts and washers	1 time	3.600	2.120	(9999)	7.63
	Sundries	1 time	2.600	2.120	(9999)	5.51
	Laboar:					
	Mistry	per day	0.040	306.000	(0130)	12.24
	Carpentar II class	per day	0.060	369.000	(0112)	22.14
	Beldars	per day	0.400	306.000	(0114)	122.40
	Total					1467.97
	Add for water charges @ 1%					14.68
	TOTAL					1482.65 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)					208.312
	Total					1690.957 (Y)
	Add for contractor's profit and overheads @ 15% on "Y"					253.644
	Cost of 8.23 m					1944.60
	Cost of 1 m					236.28
	Add labour cess @ 1%					2.36
	Rate including labour cess					238.64
				Say	Rs.238.60	per metre
12.15.6	Ridge finials					
	Details of a pair of ridge final					
	Materials:					
	Ridge finials =pair					
	Add 5% wastage= 0.05 nos.					
	1.05 nos.	pair	1.050	102.082	(0211)	107.19
	Carriage,sundries, fixing charge" including					

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Item No.	Description	Unit	Qty	Rate ₹	Rate Code.	Cost ₹
	providing and fixing, seam bolts and nuts, with G.I and bitumen washers	1 time	4.150	2.120	(9999)	8.80
	Total					115.98
	Add for water charges @ 1%					1.16
	TOTAL					117.14 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)					16.459
	Total					133.602 (Y)
	Add for contractor's profit and overheads @ 15% on "Y"					20.040
	Cost of 1 pair					153.64
	Add labour cess @ 1%					1.54
	Rate including labour cess					155.18
	Say			Rs.155.20	per metre	

12.15.8 Curved barge boards for north light curves Details of cost for two curved barge boards

Materials:

Curved barge boards for north light =2 nos.

Add 5% wastage =0.1 nos.
=2.1 nos.

Carriage seam bolts, and nuts	each	2.100	143.285	(0204)	300.90
Sundries	1 time	2.050	2.120	(9999)	4.35
Labour for fixing:	1 time	1.050	2.120	(9999)	2.23
Mistry	per day	0.050	306.000	(0130)	15.30
Carpenter II class	per day	0.250	369.000	(0112)	92.25
Beldars	per day	0.250	306.000	(0114)	76.50

Total 491.52

Add for water charges @ 1%

TOTAL 4.92

Add GST 12% on "X" (multiplying factor 0.1405) 69.749

Total 566.185 (Y)

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

84.928

Cost of 2 each 651.11

Cost of 1 each 325.56

Add labour cess @ 1% 3.26

Rate including labour cess 328.82

Say Rs.328.80 Each

12.15.9 Roof lights

Details of cost for 1 roof lights

Materials:

Roof lights =1 nos.

Add 5% wastage =0.05 nos.

=1.05 nos.

Carriage fixing and sundries	each	1.050	1074.557	(0213)	1128.29
(N.B. fixing will be done with the same J or L hookds with which A.C. sheets are fitted)	1 time	3.300	2.120	(9999)	7.00

Total 1135.28

Add for water charges @ 1%

TOTAL 11.35



Add GST 12% on "X" (multiplying factor 0.1405) 1146.63 (X)

161.102

Total 1307.736 (Y)

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

196.160


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Item No.	Description	Unit	Qty	Rate ₹	Rate Code.	Cost ₹
	Cost of 1 each					1503.90
	Add labour cess @ 1%					15.04
	Rate including labour cess					1518.94
Say Rs.1518.90 Each						
12.15.10	Expansion joints for ridges					
	Details of cost for 2 expansion joints					
	Materials:					
	Expansion joints for ridges-2 pairs					
	Add 5% wastage = 0.10 p. sirs					
	= 2.10 pairs	pair	2.100	281.181	(0220)	590.48
	J or L hooks, bolts and nuts 8 mm dia	ten	0.200	120.000	(1023)	24.00
	Bitumen washers, G.i. plain washers and carriage	1 time	2.050	2.120	(0999)	4.35
	Sundries	1 time	1.050	2.120	(9999)	2.23
	Labour:					
	Mistry	per day	0.050	306.000	(0130)	15.30
	Carpenter II class	per day	0.120	369.000	(0112)	44.28
	Beldars	per day	0.120	306.000	(0114)	36.72
	Total					717.35
	Add for water charges @ 1%					7.17
	TOTAL					724.53 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)					101.796
	Total					826.321 (Y)
	Add for contractor's profit and overheads @ 15% on "Y"					123.948
	Cost of 2 each					950.27
	Cost of 1 each					475.13
	Add labour cess @ 1%					4.75
	Rate including labour cess					479.88
Say Rs.479.90 Each						
12.15.11	Expansion joints (csr north light curves Details of cost for 1 expansion joints for north light curve					
	Materials:					
	Expansion joints for north light curve=1 nos.					
	Add 5% wastage = 0.05 nos					
	=1.05 nos.	each	1.050	150.442	(0219)	157.96
	Carriage	1 time	1.050	2.120	(9999)	2.23
	J or L hooks and nuts 8 mm dia.	ten	0.200	120.000	(1023)	24.00
	Seam bolt 1 nos., bitumen and C.I. plain, washers 3 nos. each and their carriage	1 time	2.050	2.120	(9999)	4.35
	Labour:					
	Mistry	per day	0.050	306.000	(0130)	15.30
	Carpenter II class	per day	0.200	369.000	(0112)	73.80
	Beldars	per day	0.200	306.000	(0114)	61.20
	Total					338.84
	Add for water charges @ 1%					3.39
	TOTAL					342.22 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)					48.083
	Total					390.307 (Y)
	Add for contractor's profit and overheads @ 15% on "Y"					58.546
	Cost of 1 each					448.85
	Add labour cess @ 1%					4.49
	Rate including labour cess					453.34
Say Rs.453.30 Each						

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Item No.	Description	Unit	Qty	Rate ₹	Rate Code.	Cost ₹
12.15.12	S type louvers					
	Details of cost for 8.74 metres					
	Materials:					
	S type louvers =5 nos.					
	Add 5% wastage- =0.25 nos.					
	=5.25 nos.	ten	5.250	10.000	(0222)	52.50
	Carriage	1 lime	4.150	2.120	(9999)	8.80
	G.I. bolts 10 mm dia both sides threaded with 4					
	G.I. nuts 27 cm long	each	6.000	20.000	(1031)	120.00
	G.I. bolts 16 mm dia 7 cm long with nuts	each	6.000	6.000	(1032)	36.00
	Bitumen washers 18 nos.	cent	0.180	30.000	(1208)	5.40
	G.I. plain washer 6x6 metre-36 nos	cent	0.360	21.000	(1210)	7.56
	Carriage of bolts and nu*3 and washers	1 lime	1.050	2.120	(9999)	2.23
	Sundries	1 lime	5.150	2.120	(9999)	10.92
	Labour:					
	Carpenter 1 st class	per day	1.000	413.000	(0111)	413.00
	Beldar	per day	1.000	306.000	(0114)	306.00
	Blacksmith 1st class	per day	0.120	413.000	(0102)	49.56
	Total					1011.96
	Add for water charges @ 1%					10.12
	TOTAL					1022.08 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)					143.602
	Total					1165.684 (Y)
	Add for contractor's profit and overheads @ 15% on "Y"					174.853
	Cost of 8.74 m					1340.54
	Cost of 1 m					153.38
	Add labour cess @ 1%					1.53
	Rate including labour cess					154.91
						Say Rs.154.90 Each
12.20	Providing fiat iron brackets 50x3mm size, with necessary bolts, nuts and washers etc.for fixing asbestos cement /G.S sheet gutters with purlins.					
	Flat 50x3mm size					
	Flats upto 10 mm in thickness	quintal	0.116	4850.000	(1008)	564.06
	Mild steel bolts 6 mm dia and 25 mm long with hexagonal head	ten	3.800	10.000	(1025)	38.00
	Galvanised steel bolts & nuts 10 mm dia. 125 mm long round hade with slots.	each	19.000	9.000	(1024)	171.00
	G.I. plain washer thin	cent	0.190	21.000	(1210)	3.99
	Sundries	1 lime	1.040	2.120	(9999)	2.20
	Blacksmith 1st class	per day	0.380	413.000	(0102)	156.94
	Beldar	per day	0.380	306.000	(0114)	116.28
	Total					1052.47
	Add for water charges @ 1%					10.52
	TOTAL					1062.99 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)					149.351
	Total					1212.345 (Y)
	Add for contractor's profit and overheads @ 15% on "Y"					181.852
	Cost of 20 m					1394.20
	-Cost of 1 m					69.71
	Add labour cess @ 1%					0.70
	Rate including labour cess					70.41
						Say Rs.70.50 per metre


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Item No.	Description	Unit	Qty	Rate ₹	Rate Code.	Cost ₹
12.29	Painting top of roofs with bitumen of approved quality at 17 kg per 10m ² impregnated with a coat of coarse sand at 60 cubic dm per 10m ² including cleaning the slab surface with brushes and finally with a piece of cloth lightly soaked in kerosene oil complete:					

12.29.1 With residual type petroleum bitumen of VG10

Details of cost for 10 sqm

Materials:

Cost of bitumen 80/100

Paving Bitumen VG-10 of approved quality	tonne	0.017	48902.000	(0309)	831.33
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Cost of kerosene Oil	litre	1.220	50.000	(0771)	61.00
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Cost of fuel for heating (steam coal)	quintal	0.035	440.000	(0370)	15.40
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Carriage of bitumen 80/100	tonne	0.017	106.640	(2211)	1.81
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Coarse sand	cum	0.060	175.800	(0982)	10.55
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Carriage of coarse sand	cum	0.060	0.000	(2203)	0.00
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Labour:

Beldar (for cleaning the surface, applying kerosene oil, heating materials and carrying the not tar over the roof)	per day	0.380	306.000	(0114)	116.28
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Painter (for spreading the hot tar over the roof)	per day	0.150	391.000	(0131)	58.65
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Sundries (Brushes and T and P)	LS	13.520	2.120	(9999)	28.66
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Total					215.95
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Add for water charges @ 1%					2.16
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TOTAL					218.11 (X)
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Add GST 12% on "X" (multiplying factor 0.1405)					30.645
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Total					248.758 (Y)
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Add for contractor's profit and overheads @ 15% on "Y"					37.314
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Cost of 10 sqm					1876.63
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Cost of 1 sqm					187.66
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Add labour cess @ 1%					1.88
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Rate including labour cess					189.54
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Say Rs.189.50 per sqm

12.33 Providing and laying brick tiles of class designation 100 over mummy roof grouted with cement mortar 1:3 (1 cement:3 coarse sand) mixed with 2% if integral water proofing compound by weight of cement, over a 12 mm layer of cement mortar 1:3 (1 cement:3 fine sand) and finished neat.

12.33.2 With F.P.S. brick tiles

Details of cost for 10 square metre.

Materials:

Brick tiles of class designation 100	thousand	0.380	5822.000	(1984)	2212.36
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Carriage of tiles	1000 nos.	0.380	166.030	(2207)	63.09
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Cement mortar 1:3(1 cement:3 coarse sand)	cum	0.179	2848.955	(2112)	509.96
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Integral water proofing compound 2% by weight of cement	kilogram	0.005	35.000	(1213)	0.18
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Labour:

Mason IInd class	per day	0.810	369.000	(0124)	298.89
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Coolie	per day	1.080	318.000	(0115)	343.44
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Bhishti	per day	0.270	332.000	(0101)	89.64
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Sundries	1 time	1.820	2.120	(9999)	3.86
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Total					3521.42
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Add for water charges @ 1%					35.21
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Item No.	Description	Unit	Qty	Rate ₹	Rate Code.	Cost ₹
	TOTAL					3556.63 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)					499.707
	Total					4056.339 (Y)
	Add for contractor's profit and overheads @ 15% on "Y"					608.451
	Cost of 10 sqm					4664.79
	Cost of 1 sqm					466.48
	Add labour cess @ 1%					4.66
	Rate including labour cess					471.14

Say Rs.471.10 per sqm

12.33A Providing and laying pressed clay tiles (as per approved pattern 20 mm nominal thickness and of approved size) on roofs jointed with cement mortar 1:4(1 cement :4 coarse sand)mixed with 2% integral water proofing compound laid over a bed of 20 mm thick cement mortar 1:4(1 cement:4 coarse sand)and finished neat complete

Details of cost for 10 square metre.

Materials

Manglore tiles	1000 nos.	0.160	8000.000	(7266)	1280.00
Carriage of tiles	1000 nos.	0.160	166.030	(2207)	26.56
Cement mortar 1:4 (1 cement:4 coarse sand)	cum	0.370	2256.971	(2113)	835.08
Integral water proofing compound	kilogram	0.010	72.000	(1213)	0.72
Cement mortar 1:4 (1 cement :4 coarse sand)	cum	0.200	2256.971	(2113)	451.39
Labour					
Mason 1st class	per day	0.600	413.000	(0123)	247.80
Beldar	per day	2.600	306.000	(0114)	795.60
Sundries	1 time	13.000	2.120	(9999)	27.56
Total					3664.72

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 10 sqm

Cost of 1 sqm

Add labour cess @ 1%

Rate including labour cess


Say Rs.490.30 per sqm

12.38 Providing gola 75x75 mm in cement concrete 1:2:4 (1 cement:2 coarse sand:4 stone aggregate 10mm and down gauge) including finishing with cement mortar 1:3(1 cement:3 coarse sand)as per standard design

12.38.1 In 75x75 mm deep chase

Details of cost for 10 metres cement concrete

10 mm nominal size	cum	0.084	657.910	(0297)	55.00
Carriage of stone aggregate below 40 mm nominal size	cum	0.084	0.000	(2202)	0.00
Coarse sand	cum	0.042	175.800	(0982)	7.35
Carriage of coarse sand	cum	0.042	0.000	(2203)	0.00
Portland cement	tonne	0.030	4408.000	(0367)	132.24
Carriage of cement	tonne	0.030	145.720	(2209)	4.37
Beldar	per day	0.085	306.000	(0114)	26.01
Coolie	per day	0.056	318.000	(0115)	17.81

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Item No.	Description	Unit	Qty	Rate ₹	Rate Code.	Cost ₹
	Bhishti	per day	0.025	332.000	(0101)	8.30
	Mason 1st class	per day	0.005	413.000	(0123)	2.07
	Mason II nd class	per day	0.005	369.000	(0124)	1.85
	Mate	per day	0.004	413.000	(0123)	1.53
	Hire and running charges of mechanical mixer	1 time	2.470	2.120	(9999)	5.24
	Sundries	1 time	1.300	2.120	(9999)	2.76
	Mason 1st class	per day	0.150	413.000	(0123)	61.95
	Mason II nd class	per day	0.150	369.000	(0124)	55.35
						381.81
						381.81
	Sundries	1 time	5.070	2.120	(9999)	10.75
	Mason 1st class	per day	0.250	413.000	(0123)	103.25
	Mason II nd class	per day	0.250	369.000	(0124)	92.25
	Beldar	per day	1.000	306.000	(0114)	306.00
	Carriage	1 time	8.060	2.120	(9999)	17.09
	Cement mortar 1:3(1 cement:3 coarse sand)	cum	0.009	2848.955	(2112)	25.64
	Mason	per day	0.008	369.000	(0155)	2.99
	Coolie	per day	0.101	318.000	(0115)	32.12
	Bhishti	per day	0.033	332.000	(0101)	10.96
	Hire and running charges of mechanical mixer	1 time	1.690	2.120	(9999)	3.58
	Sundries	1 time	1.430	2.120	(9999)	3.03
	Total					493.66
	Add for water charges @ 1%					4.94
	TOTAL					498.59 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)					70.052
	Total					568.644 (Y)
	Add for contractor's profit and overheads @ 15% on "Y"					85.297
	Cost of 10 sqm					653.94
	Cost of 1 sqm					65.39
	Add labour cess @ 1%					0.65
	Rate including labour cess					66.04

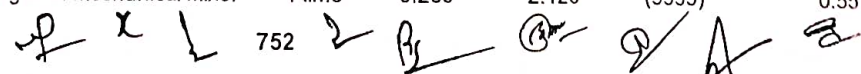
Say Rs.66.00 per sqm

- 12.39 Making khurras 45x45 cm with average minimum thickness of 5 cm cement concrete 1:2:4 (1 cement:2 coarse sand:4 graded stone aggregate of 20 mm nominal size) over P.V.C. sheet 1 mx1 mx400 micron, finished 12 mm cement plaster 1:3 (1 cement:3 coarse sand) and a coat of neat cement rounding the edges and making and finishing the outlet complete**

Details of cost for 1 no.

Cement concrete						
20mm nominal size	cum	0.007	595.360	(0295)		3.99
10mm nominal size	cum	0.002	657.910	(0297)		1.45
Carriage of stone aggregate below 40 mm nominal size	cum	0.009	0.000	(2202)		0.00
Coarse sand	cum	0.004	175.800	(0982)		0.77
Carriage of coarse sand	cum	0.004	0.000	(2203)		0.00
Portland cement	tonne	0.003	4408.000	(0367)		14.11
Carriage of cement	tonne	0.003	145.720	(2209)		0.47
Beldar	per day	0.009	306.000	(0114)		2.75
Coolie	per day	0.006	318.000	(0115)		1.91
Bhishti	per day	0.003	332.000	(0101)		0.90
Mason 1st class	per day	0.001	413.000	(0123)		0.21
Mason II class	per day	0.001	369.000	(0124)		0.18
Mate	per day	0.000	325.000	(0128)		0.13
Hire and running charges of mechanical mixer	1 time	0.260	2.120	(9999)		0.55

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Item No.	Description	Unit	Qty	Rate ₹	Rate Code.	Cost ₹
	Sundries	1 time	0.130	2.120	(9999)	0.28
	PVC sheets 400 micron thick	sqm	1.000	45.000	(3002)	45.00
	Cement mortar 1:3(1 cement 3 coarse sand)	cum	0.004	2848.955	(2112)	11.68
	Mason	per day	0.024	369.000	(0155)	8.67
	Coolie	per day	0.024	318.000	(0115)	7.47
	Bhishti	per day	0.008	332.000	(0101)	2.60
	Sundries	1 time	0.390	2.120	(9999)	0.83
	Portland cement	tonne	0.001	4408.000	(0367)	2.82
	Carriage of cement	tonne	0.001	145.720	(2209)	0.09
	Mason	per day	0.008	369.000	(0155)	2.95
	Coolie	per day	0.008	318.000	(0115)	2.54
	Rounding of edges and making outlet	1 time	0.260	2.120	(9999)	0.55
	Sundries	1 time	13.520	2.120	(9999)	28.66
	Total					141.56
	Add for water charges @ 1%					1.42
	TOTAL					142.98 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)					20.089
	Total					163.068 (Y)
	Add for contractor's profit and overheads @ 15% on "Y"					24.460
	Cost of 1 each					187.53
	Add labour cess @ 1%					1.88
	Rate including labour cess					189.41
						Say Rs.189.40 per sqm
12.40	Providing sand stone slabs for roofing and laying' them in cement mortar 1:4 (1 cement:4 coarse sand) over wooden karries or R.C.C. battens (karries and battens to be paid separately) including pointing the ceiling joints with cement mortar 1:3 (1 cement:3 coarse sand) complete:					
12.40.1	Red sand stone slab					
12.40.1.1	40 mm thick					
	Details of cost for 10 sqm					
	Materials:					
	Stone slab including wastage @ 10% = 1sqm	sqm	11.000	260.000	(1174)	2860.00
	Carriage of slab (2563 kg. per cubic meter)	tonne	1.130	94.800	(2216)	107.12
	Cement mortar 1:4(1 cement:4 coarse sand)	cum	0.008	2256.971	(2113)	16.93
	Cement mortar 1:3 (1cement:3 coarse sand)	cum	0.008	2848.955	(2112)	21.37
	Labour:					
	Mason	per day	1.350	369.000	(0155)	498.15
	Bandnani	per day	1.620	325.000	(0100)	526.50
	Bhishti	per day	0.270	332.000	(0101)	89.64
	Sundries	1 time	16.120	2.120	(9999)	34.17
	Coolie	per day	1.350	318.000	(0115)	429.30
	Total					4583.18
	Add for water charges @ 1%					45.83
	TOTAL					4629.01 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)					650.377
	Total					5279.391 (Y)
	Add for contractor's profit and overheads @ 15% on "Y"					791.909
	Cost of 10 sqm					6071.30
	Cost of 1 sqm					607.13
	Add labour cess @ 1%					6.07
	Rate including labour cess					613.20
						Say Rs.613.20 per sqm


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Item No.	Description	Unit	Qty	Rate ₹	Rate Code.	Cost ₹
12.40.1.2 45mm thick						
Details of cost for 10 sqm						
Materials:						
	Stone slab including wastage @ 10% 1sqm	sqm	11.000	260.000	(1174)	2860.00
	Carriage of slab	tonne	1.2700	94.8000	(2216)	120.40
	Cement mortar 1:4 (1 cement:4 coarse sand)	cum	0.0095	2256.9712	(2113)	21.44
	Cement mortar 1:3 (1 cement :3 coarse sand)	cum	0.0075	2848.9548	(2112)	21.37
Labour:						
	Mason	per day	1.5200	369.0000	(0155)	560.88
	Bandham	per day	1.8200	325.0000	(0100)	591.50
	Coolie	per day	1.520	318.000	(0115)	483.36
	Bhishti	per day	0.300	332.000	(0101)	99.60
	Sundries	1 time	16.120	2.120	(9999)	34.17
	Total					4792.72
	Add for water charges @ 1%					47.93
	TOTAL					4840.65 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)					680.111
	Total					5520.757 (Y)
	Add for contractor's profit and overheads @ 15% on "Y"					828.114
	Cost of 10 sqm					6348.87
	Cost of 1 sqm					634.89
	Add labour cess @ 1%					6.35
	Rate including labour cess					641.24
				Say	Rs.641.20	per sqm
12.40.1.3 50 mm thick						
Details of cost for 10 sqm						
Materials:						
	Stone slab including wastage @ 10% 1sqm	sqm	11.000	260.000	(1174)	2860.00
	Carriage of slab	tonne	1.410	94.800	(2216)	133.67
	Cement mortar 1:4(1 cement: 4 coarse sand)	cum	0.011	2256.971	(2113)	23.70
	Cement mortar 1:3 (1 cement: 3 coarse sand)	cum	0.008	2848.955	(2112)	21.37
Labour:						
	Mason	per day	1.690	369.000	(0155)	623.61
	Bandhani	per day	2.030	325.000	(0100)	659.75
	Coolie	per day	1.690	318.000	(0115)	537.42
	Bhishti	per day	0.340	332.000	(0101)	112.88
	Sundries	1 time	16.120	2.120	(9999)	34.17
	Total					5006.57
	Add for water charges @ 1%					50.07
	TOTAL					5056.63 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)					710.457
	Total					5767.090 (Y)
	Add for contractor's profit and overheads @ 15% on "Y"					865.064
	Cost of 10 sqm					6632.15
	Cost of 1 sqm					663.22
	Add labour cess @ 1%					6.63
	Rate including labour cess					669.85
				Say	Rs.669.80	per sqm

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Item No.	Description	Unit	Qty	Rate ₹	Rate Code.	Cost ₹
12.40.2	White sand stone slab					
12.40.2.1	40 mm thick					
	Details of cost for 10 sqm					
	Materials:					
	Stone slab including wastage @ 10% 1sqm	sqm	11.000	280.000	(1175)	3080.00
	Carriage of slab	tonne	1.130	94.800	(2216)	107.12
	Cement mortar 1:4 (1 cement : 4 coarse sand)	cum	0.008	2256.971	(2113)	16.93
	Cement mortar 1:3 (1 cement : 3 coarse sand)	cum	0.008	2848.955	(2112)	21.37
	Labour:					
	Mason	per day	1.350	369.000	(0155)	498.15
	Bandhani	per day	1.620	325.000	(0100)	526.50
	Coolie	per day	1.350	318.000	(0115)	429.30
	Bhishti	per day	0.270	332.000	(0101)	89.64
	Sundries	LS	16.120	2.120	(9999)	34.17
	Total					4803.18
	Add for water charges @ 1%					48.03
	TOTAL					4851.21 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)					681.596
	Total					5532.810 (Y)
	Add for contractor's profit and overheads @ 15% on "Y"					829.922
	Cost of 10 sqm					6362.73
	Cost of 1 sqm					636.27
	Add labour cess @ 1%					6.36
	Rate including labour cess					642.63
				Say	Rs.642.60	per sqm
12.40.2.2	45mm thick					
	Details of cost for 10 sqm					
	Materials:					
	Stone slab including wastage @ 10% 1sqm	sqm	11.000	280.000	(1175)	3080.00
	Carriage of slab	tonne	1.270	94.800	(2216)	120.40
	Cement mortar 1:4 (1 cement : A coarse sand)	cum	0.010	2256.971	(2113)	21.44
	Labour:					
	Mason	per day	1.520	369.000	(0155)	560.88
	Bandhani	per day	1.820	325.000	(0100)	591.50
	Coolie	per day	1.520	318.000	(0115)	483.36
	Bhishti	per day	0.300	332.000	(0101)	99.60
	Sundries	1 time	16.120	2.120	(9999)	34.17
	Cement mortar 1:3(1 cement:3 corse sand)	cum	0.008	2848.955	(2112)	21.37
	Total					5012.72
	Add for water charges @ 1%					50.13
	TOTAL					5062.85 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)					711.330
	Total					5774.176 (Y)
	Add for contractor's profit and overheads @ 15% on "Y"					866.126
	Cost of 10 sqm					6640.30
	Cost of 1 sqm					664.03
	Add labour cess @ 1%					6.64
	Rate including labour cess					670.67
				Say	Rs.670.70	per sqm


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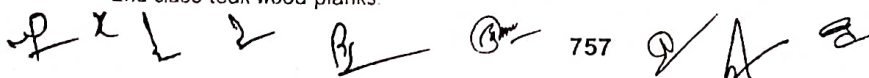
Item No.	Description	Unit	Qty	Rate ₹	Rate Code.	Cost ₹
12.40.2.3	50 mm thick					
	Details of cost for 10 sqm					
	Materials:					
	Stone slab including wastage @ 10% 1 sqm	sqm	11.000	280.000	(1175)	3080.00
	Carriage of slab	tonne	1.410	94.800	(2216)	133.67
	Cement mortar 1:4 (1 cement : 4 coarse sand)	cum	0.011	2256.971	(2113)	23.70
	Cement mortar 1:3 (1 Cement: 3 coarse sand)	cum	0.008	2848.955	(2112)	21.37
	Labour:					
	Mason	per day	1.690	369.000	(0155)	623.61
	Bandhani	per day	2.030	325.000	(0100)	659.75
	Coolie	per day	1.690	318.000	(0115)	537.42
	Bhishti	per day	0.340	332.000	(0101)	112.88
	Sundries	1 time	16.120	2.120	(9999)	34.17
	Total					5226.57
	Add for water charges @ 1%					52.27
	TOTAL					5278.83 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)					741.676
	Total					6020.510 (Y)
	Add for contractor's profit and overheads @ 15% on "Y"					903.076
	Cost of 10 sqm					6923.59
	Cost of 1 sqm					692.36
	Add labour cess @ 1%					6.92
	Rate including labour cess					699.28
						Say Rs.699.30 per sqm

12.52 Grading roof for water proofing treatment with

Item No.	Description	Unit	Qty	Rate ₹	Rate Code.	Cost ₹
12.52.2	Cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) Details of cost for cum					
	Stone aggregate 20 mm nominal size	cum	0.670	595.360	(0295)	398.89
	Stone aggregate 10 mm nominal size	cum	0.220	657.910	(0297)	144.74
	Carriage of stone aggregate	cum	0.890	0.000	(2202)	0.00
	Coarse sand	cum	0.450	135.000	(982)	60.75
	Carriage of coarse sand	cum	0.450	0.000	(2203)	0.00
	Cement	tonne	0.320	4408.000	(0367)	1410.56
	Carriage of cement	tonne	0.320	145.720	(2209)	46.63
	Labour:					
	Beldar	per day	1.630	306.000	(0114)	498.78
	Bhishti	per day	0.700	332.000	(0101)	232.40
	Mason 1st class	per day	0.100	413.000	(0123)	41.30
	Sundries, brushes etc.	1 time	5.500	2.120	(9999)	11.66
	Mixer	Per day	0.070	800.000	(0002)	56.00
	Vibrator					
	Sundries for laying in terrace	1 time	17.600	2.120	(9999)	37.31
	Total					2939.02
	Add for water charges @ 1%					29.39
	TOTAL					2968.41 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)					417.062
	Total					3385.476 (Y)
	Add for contractor's profit and overheads @ 15% on "Y"					507.821
	Cost of cum					3893.30
	Cost of 1 cum					3893.30

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Item No.	Description	Unit	Qty	Rate ₹	Rate Code.	Cost ₹
	Add labour cess @ 1%					38.93
	Rate including labour cess					3932.23
				Say	Rs.3932.20	per cum
12.52.3	Cement mortar 1:3(1 cement:3 coarse sand)					
	Details of cost for cum					
	Materials:					
	Cement mortar 1:3(1 cement:3 coarse sand)	cum	1.000	2848.955	(2112)	2848.95
	Labour:					
	Mason	per day	1.000	318.000	(0115)	318.00
	Beldar	per day	2.000	306.000	(0114)	612.00
	Bhishti	per day	0.500	332.000	(0101)	166.00
	Coolie	per day	5.000	318.000	(0115)	1590.00
	Sundries	1 time	4.500	2.120	(9999)	9.54
	Total					5544.49
	Add for water charges @ 1%					55.44
	TOTAL					5599.94 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)					786.792
	Total					6386.731 (Y)
	Add for contractor's profit and overheads @ 15% on "Y"					958.010
	Cost of cum					7344.74
	Cost of 1 cum					7344.74
	Add labour cess @ 1%					73.45
	Rate including labour cess					7418.19
				Say	Rs.7418.20	per cum
12.52.4	Cement mortar 1:4 (1 cement :4 coarse sand)					
	Details of cost for cum					
	Maaterials:					
	Cement mortar	cum	1.000	2256.971	(2113)	2256.97
	Labour:					
	Mason	per day	1.000	318.000	(0115)	318.00
	Beldar	per day	2.000	306.000	(0114)	612.00
	Bhishti	per day	0.500	332.000	(0101)	166.00
	Coolie	per day	5.000	318.000	(0115)	1590.00
	Sundries	1 time	4.150	2.120	(9999)	8.80
	Total					4951.77
	Add for water charges @ 1%					49.52
	TOTAL					5001.29 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)					702.681
	Total					5703.968 (Y)
	Add for contractor's profit and overheads @ 15% on "Y"					855.595
	Cost of cum					6559.56
	Cost of 1 cum					6559.56
	Add labour cess @ 1%					65.60
	Rate including labour cess					6625.16
				Say	Rs.6625.20	per cum
12. 54	Providing and fixing 20 mm thick wooden planks ceiling (fiame work for base to be paid separately) with M.S screws:					
12.54.1	2nd class teak wood					
	Details of cost for 27 sqm (6.00x4 50)					
	Materials:					
	2nd class teak wood planks.					



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Item No.	Description	Unit	Qty	Rate ₹	Rate Code.	Cost ₹
	27 sqmx0.02 m =0.54 cum or 540 sudm					
	Add for wastage @ 5% - 27 cudm					
	567 cudm	10cudm	56.700	791.000	(1190)	44849.70
	Carriage	cum	0.570	187.350	(2204)	106.79
	M.S. Screws 40mm long	100Nos	4.300	60.000	(0637)	258.00
	Labour:					
	Carpenter 1st dass	per day	2.000	413.000	(0111)	826.00
	Carpenter 2nd dass	per day	2.000	369.000	(0112)	738.00
	Beldar	per day	4.000	306.000	(0114)	1224.00
	Scaffolding	1 time	41.400	2.120	(9999)	87.77
	Sundries	1 time	20.700	2.120	(9999)	43.88
	Total					48134.14
	Add for water charges @ 1%					481.34
	TOTAL					48615.48 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)					6830.475
	Total					55445.958 (Y)
	Add for contractor's profit and overheads @ 15% on "Y"					8316.894
	Cost of 27sqm					63762.85
	Cost of 1 sqm					2361.59
	Add labour cess @ 1%					23.62
	Rate including labour cess					2385.21

Say Rs.2385.20 per sqm

12.54.3 1st class local wood

Details of cost for 27 sqm (6.00x4.50)

Materials:

1st dass kail wood

27 sqmx0.02m=0.54 cum or 540 cudm

Add for wastage @ 5% =27 cudm

567 cudm	10 cudm	56.700	300.000	(1196)	17010.00
Carriage	cum	0.570	187.350	(2204)	106.79
M.S. Screws 40mm long	100 Nos	4.300	60.000	(0637)	258.00
Labour:					
Carper.ter 1 si class	per day	2.000	413.000	(0111)	826.00
Carpenter 2nd class	per day	2.000	369.000	(0112)	738.00
Sundries	1 time	20.700	2.120	(9999)	43.88
Beldar	per day	4.000	306.000	(0114)	1224.00
Scaffolding	1 time	41.400	2.120	(9999)	87.77
Total					20294.44
Add for water charges @ 1%					202.94
TOTAL					20497.39 (X)
Add GST 12% on "X" (multiplying factor 0.1405)					2879.883

Total					23377.269 (Y)
Add for contractor's profit and overheads @ 15% on "Y"					3506.590
Cost of 27 sqm					26883.86
Cost of 1 sqm					995.70
Add labour cess @ 1%					9.96
Rate including labour cess					1005.66

Say Rs.1005.70 per sqm

12.55 Providing and fixing insulating board ceiling of approved quality with necessary naiis etc complete (frame work to be paid separately)

12.55.1 Natural colour insulating board

12.55.1.1 12 mm thick

Details of cost for 10 sqm

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Item No.	Description	Unit	Qty	Rate ₹	Rate Code.	Cost ₹
	Materials:					
	Insulating board including 10% wastage = 1 sqm	sqm	11.000	210.000	(0332)	2310.00
	Carriage of material	1 time	17.550	2.120	(99S9)	37.21
	Nails	1 time	26.910	2.120	(9999)	57.05
	Labour:					
	Carpenter	per day	2.500	413.000	(0111)	1032.50
	Beldar	per day	2.000	306.000	(0114)	612.00
	Scaffolding	1 time	31.070	2.120	(9999)	65.87
	Sundries	1 time	31.070	2.120	(9999)	65.87
	Total					4180.49
	Add for water charges @ 1%					41.80
	TOTAL					4222.30 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)					593.233
	Total					4815.530 (Y)
	Add for contractor's profit and overheads @ 15% on "Y"					722.329
	Cost of 10 sqm					5537.86
	Cost of 1 sqm					553.79
	Add labour cess @ -1%					5.54
	Rate including labour cess					559.33
				Say	Rs.559.30	per sqm

12.55.2 White face insulating board

12.55.2.1 12 mm thick

Details of cost for 10 sqm

Materials:

White face insulating board 12 mm thick including

10% wastage

sqm	11.000	235.000	(0328)	2585.00
1 time	17.550	2.120	(9999)	37.21
1 time	10.350	2.120	(9999)	21.94

Labour:

per day	2.500	413.000	(0111)	1032.50
per day	2.000	306.000	(0114)	612.00
1 time	11.950	2.120	(9999)	25.33
1 time	11.950	2.120	(9999)	25.33

Total

4339.32

Add for water charges @ 1% 43.39

TOTAL 4382.71 (X)

Add GST 12% on "X" (multiplying factor 0.1405) 615.771

Total

4998.480 (Y)

Add for contractor's profit and overheads @ 15% on "Y" 749.772

Cost of 10 sqm 5748.25

Cost of 1 sqm 574.83

Add labour cess @ 1% 5.75

Rate including labour cess 580.58

Say Rs.580.60 per sqm

12.55J Flame retardent face insulating board

12.55.3.1 12mm thick

Materials:

Flame retardent face insulating board 12 mm thick

including 10% wastage

sqm	11.000	320.000	(0336)	3520.00
1 time	17.550	2.120	(9999)	37.21
1 time	26.910	2.120	(9999)	57.05

Labour: Carpenter 1 st class per day 2.500 413.000 (0111) 1032.50

Beldars per day 2.000 306.000 (0114) 612.00

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Item No.	Description	Unit	Qty	Rate ₹	Rate Code.	Cost ₹
	Scaffolding	1 time	31.070	2.120	(9999)	65.87
	Sundries	1 time	31.070	2.120	(9999)	65.87
	Total					5390.49
	Add for water charges @ 1%					53.90
	TOTAL					5444.40 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)					764.938
	Total					6209.335 (Y)
	Add for contractor's profit and overheads @ 15% on "Y"					931.400
	Cost of 10 sqm					7140.73
	Cost of 1 sqm					714.07
	Add labour cess @ 1%					7.14
	Rate including labour cess					721.21
						Say Rs.721.20 per sqm

12.56 Providing and fixing hard board sheet ceiling of aproved quality with necessary nails etc complete (frame work to be paid separately)

12.56.1 Standard quality boards

12.56.1.1 12 mm thick

Details of cost for 10 sqm

Materials:

Standards quality board 3 mm thick including 10%

wastage	sqm	11.000	135.000	(0994)	1485.00
Carriage	1 time	5.200	2.120	(9999)	11.02
Nails-	1 time	10.350	2.120	(9999)	21.94

Labour:

Carpenter 1st class	per day	2.500	413.000	(0111)	1032.50
Beldars	per day	2.000	306.000	(0114)	612.00
Scaffolding	1 time	11.950	2.120	(9999)	25.33
Sundries	1 time	11.950	2.120	(9999)	25.33

Total 3213.13

Add for water charges @ 1% 32.13

TOTAL 3245.27 (X)

Add GST 12% on "X" (multiplying factor 0.1405) 455.960

Total 3701.225 (Y)

Add for contractor's profit and overheads @ 15% on "Y" 555.184

Cost of 10 sqm 4256.41

Cost of 1 sqm 425.64

Add labour cess @ 1% 4.26

Rate including labour cess 429.90

Say Rs.429.90 per sqm

12.56.1.2 4.5 mm thick

Details of cost for 10 sqm

Materials:

Standard quality board 4.5 mm thick including 10%

wastage	sqm	11.000	210.000	(0996)	2310.00
Carriage	1 time	5.750	2.120	(9999)	12.19
Nails-	1 time	10.350	2.120	(9999)	21.94

Labour:

Carpenter 1st class	per day	2.500	413.000	(0111)	1032.50
Beldars	per day	2.000	306.000	(0114)	612.00
Scaffolding	1 time	11.950	2.120	(9999)	25.33
Sundries	1 time	11.950	2.120	(9999)	25.33

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Item No.	Description	Unit	Qty	Rate ₹	Rate Code.	Cost ₹
	Total					4039.30
	Add for water charges @ 1%					40.39
	TOTAL					4079.69 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)					573.197
	Total					4652.890 (Y)
	Add for contractor's profit and overheads @ 15% on "Y"					697.933
	Cost of 10 sqm					5350.82
	Cost of 1 sqm					535.08
	Add labour cess @ 1%					5.35
	Rate including labour cess					540.43
	Say Rs.540.40 per sqm					

12.57 Providing and fixing flat pressed 3 layer medium density particle board sheet Grade I conforming to IS: 3087 in ceiling with necessary nails etc. complete (frame work to be paid separately).

12.57.2 12 mm thick

Details of cost for 10 sqm

Materials:

Standard quality board 4.5 mm thick including 10%

wastage	sqm	11.000	288.000	(0341)	3168.00
Carriage	LS	15.950	2.120	(9999)	33.81
Nails-	LS	26.910	2.120	(9999)	57.05

Labour:

Carpenter 1st class	per day	2.500	413.000	(0111)	1032.50
Beldars	per day	2.000	306.000	(0114)	612.00
Scaffolding	LS	31.070	2.120	(9999)	65.87
Sundries	LS	31.070	2.120	(9999)	65.87

Total

5035.10

Add for water charges @ 1%

50.35

TOTAL

5085.45 (X)

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

714.506

Total

5799.957 (Y)

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

869.994

Cost of 10 sqm

6669.95

Cost of 1 sqm

667.00

Add labour cess @ 1%

6.67

Rate including labour cess

673.67

Say Rs.673.70 per sqm

12.58 Providing and fixing plain A.C. sheet ceiling of approved quality with necessary nails etc. complete (frame work to be paid separately):

12.58.2 6 mm thick

Details of cost for 10 sqm

Standard quality board 4.5 mm thick including 10%

wastage	sqm	11.000	177.260	(0993)	1949.86
Carriage	1 time	6.200	2.120	(9999)	13.14
Nails-	1 time	10.350	2.120	(9999)	21.94

Labour:

Carpenter 1st class	per day	2.500	413.000	(0111)	1032.50
Beldars	per day	2.000	306.000	(0114)	612.00
Scaffolding	1 time	11.950	2.120	(9999)	25.33

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Item No.	Description	Unit	Qty	Rate ₹	Rate Code.	Cost ₹
	Sundries	1 time	11.950	2.120	(9999)	25.33
	Total					3680.11
	Add for water charges @ 1%					36.80
	TOTAL					3716.92 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)					522.227
	Total					4239.142 (Y)
	Add for contractor's profit and overheads @ 15% on "Y"					635.871
	Cost of 10 sqm					4875.01
	Cost of 1 sqm					487.50
	Add labour cess @ 1%					4.88
	Rate including labour cess					492.38
	Say Rs.492.40 per sqm					

12.59 Extra for circular cutting and waste in ceiling with

12.59.1 2nd class teak wood planks 20 mm thick

Details of cost for 10 holes

Materials:

0.5 metre dia each=10x22/7x0.5=15.71 m

Area=10x(22/7)14x0.05x0.5=1.96 sqm

Wastage @ 10%=G.1S sqm

2.15 sqm

Teak wood	10 cudm	4.116	791.000	(1190)	3255.76
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Carriage	cum	0.041	187.350	(2204)	7.68
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M.S. Screws 40 mm long	100 Nos	0.310	60.000	(0637)	18.60
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Labour:

Carpenter 1st class	per day	2.650	413.000	(0111)	1094.45
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Carpenter 2nd class	per day	0.145	369.000	(0112)	53.51
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Beldar	per day	2.790	306.000	(0114)	853.74
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Scaffolding	1 time	3.000	2.120	(9999)	6.36
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Sundries	1 time	5.650	2.120	(9999)	11.98
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Total					5302.07
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Add for water charges @ 1%					53.02
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TOTAL					5355.09 (X)
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Add GST 12% on "X" (multiplying factor 0.1405)					752.390
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Total					6107.481 (Y)
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Add for contractor's profit and overheads @ 15% on "Y"					916.122
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Cost of 15.71 m					7023.60
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Cost of 1 m					447.08
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Add labour cess @ 1%					4.47
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Rate including labour cess					451.55
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Say Rs.451.50 per metre

12.59.4 Natural colour insulating board

12.59.4.1 12 mm thick

Details of cost for 15.71 metre

Materials:

0.5 metre dia each=10x22/7x0.5=15.71 m

Area = 10x(22/7)4x0.5x0.5= 1.96 sqm

Wastage @ 10%=0.19 sqm

2.15 sqm	sqm	2.150	210.000	(0332)	451.50
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Carriage	1 time	1.300	2.120	(9999)	2.76
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Nails-	1 time	2.050	2.120	(9999)	4.35
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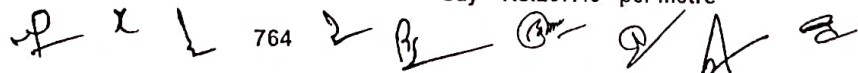
Item No.	Description	Unit	Qty	Rate ₹	Rate Code.	Cost ₹
	Labour:					
	Carpenter 1st class	per day	0.490	413.000	(0111)	202.37
	Beldars	per day	0.390	306.000	(0114)	119.34
	Scaffolding	1 time	2.350	2.120	(9999)	4.98
	Sundries	1 time	2.350	2.120	(9999)	4.98
	Carpenter 1st class	per day	2.500	413.000	(0111)	1032.50
	Beldars	per day	2.500	306.000	(0114)	765.00
	Scaffolding	1 time	4.150	2.120	(9999)	8.80
	Total					2596.57
	Add for water charges @ 1%					25.97
	TOTAL					2622.54 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)					368.467
	Total					2991.007 (Y)
	Add for contractor's profit and overheads @ 15% on "Y"					448.651
	Cost of 15.71 m					3439.66
	Cost of 1 m					218.95
	Add labour cess @ 1%					2.19
	Rate including labour cess					221.14
				Say	Rs.221.10	per metre
12.59.5	White face insulating board					
12.59.5.1	12 mm thick					
	Details of cost for 1 5.71 metre					
	Materials:					
	0.5 metre dia each=10x22/7x0.5x15.71 m					
	Area =10x(22/7)/4x0.5x0.5=1.96 sqm					
	Wastage @ 10% = 0.19 sqm	sqm	2.150	235.000	(0328)	505.25
	Carriage	1 time	1.300	2.120	(9999)	2.76
	Nails	1 time	2.050	2.120	(9999)	4.35
	Labour:					
	Carpenter 1 st class	per day	0.490	413.000	(0111)	202.37
	Beldars	per day	0.390	306.000	(0114)	119.34
	Scaffolding	1 time	2.350	2.120	(9999)	4.98
	Sundries	1 time	2.350	2.120	(9999)	4.98
	Carpenter 1st class	per day	2.500	413.000	(0111)	1032.50
	Beldars	per day	2.500	306.000	(0114)	765.00
	Scaffolding	1 time	4.150	2.120	(9999)	8.80
	Total					2650.32
	Add for water charges @ 1%					26.50
	TOTAL					2676.83 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)					376.094
	Total					3052.921 (Y)
	Add for contractor's profit and overheads @ 15% on "Y"					457.938
	Cost of 15.71 m					3510.86
	Cost of 1 m					223.48
	Add labour cess @ 1%					2.23
	Rate including labour cess					225.71
				Say	Rs.225.70	per metre
12.59.6	Flame retardent face insulating board					
12.59.6.1	12 mm thick					
	Details of cost for 15.71 metre					
	Materials:					
	0.5 metre dia each =10x22/7x0.5=15.71 m					
	Area=10x(22/7)/4x0.5x0.5=1.9S sqm					

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Item No.	Description	Unit	Qty	Rate ₹	Rate Code.	Cost ₹
	Wastage @10% =0.19 sqm 2.15 sqm	sqm	2.150	320.000	(0336)	688.00
	Carriage	1 time	1.300	2.120	(9999)	2.76
	Nails-	1 time	2.050	2.120	(9999)	4.35
	labour:					
	Carpenter 1st class	per day	0.490	413.000	(0111)	202.37
	Beldars	per day	0.390	306.000	(0114)	119.34
	Scaffolding	1 time	2.350	2.120	(9999)	4.98
	Sundries	1 time	2.350	2.120	(9999)	4.98
	Carpenter 1st class	per day	2.500	413.000	(0111)	1032.50
	Beldars	per day	2.500	306.000	(0114)	765.00
	Scaffolding	1 time	4.150	2.120	(9999)	8.80
	Total					2833.07
	Add for water charges @ 1%					28.33
	TOTAL					2861.40 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)					402.027
	Total					3263.432 (Y)
	Add for contractor's profit and overheads @ 15% on "Y"					489.515
	Cost of 15.71 m					3752.95
	Cost of 1 m					238.89
	Add labour cess @ 1%					2.39
	Rate including labour cess					241.28
						Say Rs.241.30 per metre
17.59 7	Standard quality hard board sheet					
12.59.7.1	3mm thick					
	details of cost for 15.71 meter					
	Materials:					
	0.5 metre dia each= 10x22/7x0.5 = 15.71m					
	Area=10x(22/7)/4x0.5x0.5=1.95 sqm					
	Wastage @ 10% =0.19 sqm					
	2.15 sqm	sqm	2.150	135.000	(0994)	290.25
	Carriage-3	1 time	1.050	2.120	(9999)	2.23
	Nails	1 time	2.050	2.120	(9999)	4.35
	Labour:					
	Carpenter 1st class	per day	0.490	413.000	(0111)	202.37
	Beldars	per day	0.390	306.000	(0114)	119.34
	Scaffolding	1 time	2.350	2.120	(9999)	4.98
	Sundries	1 time	2.350	2.120	(9999)	4.98
	Carpenter 1st class	per day	2.500	413.000	(0111)	1032.50
	Beldars	per day	2.500	306.000	(0114)	765.00
	Scaffolding	1 time	4.150	2.120	(9999)	8.80
	Total					2434.79
	Add for water charges @ 1%					24.35
	TOTAL					2459.14 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)					345.509
	Total					2804.651 (Y)
	Add for contractor's profit and overheads @ 15% on "Y"					420.698
	Cost of 15.71- m					3225.35
	Cost of 1 m					205.31
	Add labour cess @ 1%					2.05
	Rate including labour cess					207.36
						Say Rs.207.40 per metre

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Item No.	Description	Unit	Qty	Rate ₹	Rate Code.	Cost ₹
12.59.7.2	4.5 mm thick					
	Details of cost for 1 5.7 i metre					
	Materials:					
	0.5 metre dia each=10x22/7x0.5=15.71					
	Area=10x(22/7)/4x0.5x0.5= 1.96 sqm					
	Wastage @10% = 0.19 sqm					
	2.15 sqm	sqm	2.1500	210.00	(0996)	451.50
	Carrage	1 time	1.1000	2.12	(9999)	2.33
	Nails	1 time	2.0500	2.12	(9999)	4.35
	Labour:					
	Carpenter 1st class	per day	0.4900	413.00	(0111)	202.37
	Beldars	per day	0.3900	306.00	(0.114)	119.34
	Scaffolding	1 time	2.3500	2.12	(9999)	4.98
	Sundries	1 time	2.3500	2.12	(9999)	4.98
	Carpenter 1 st class	per day	2.5000	413.00	(0111)	1032.50
	Beldars	per day	2.5000	306.00	(0114)	765.00
	Scaffolding	1 time	4.1500	2.12	(9999)	8.80
	Total					2596.15
	Add for water charges @ 1%					25.96
	TOTAL					2622.11 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)					368.407
	Total					2990.518 (Y)
	Add for contractor's profit and overheads @ 15% on "Y"					448.578
	Cost of 15.71 m					3439.10
	Cost of 1 m					218.91
	Add labour cess @ 1%					2.19
	Rate including labour cess					221.10
	Say Rs.221.10 per metre					

12.60.1 Extra for providing and fixing ceiling to corved surfaces in narrow widths

Details of cost for 10 sqm						
Labour:						
	Carpenter 1st class	per day	1.0000	413.0000	(0111)	413.00
	Carpentei 2nd class	per day	1.0000	369.0000	(0112)	369.00
	Beldar	per day	2.0000	306.0000	(0114)	612.00
	Total					1394.00
	Add for water charges @ 1%					13.94
	TOTAL					1407.94 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)					197.816
	Total					1605.756 (Y)
	Add for contractor's profit and overheads @ 15% on "Y"					240.863
	Cost of 10 sqm					1846.62
	Cost of 1 sqm					184.66
	Add labour cess @ 1%					1.85
	Rate including labour cess					186.51
	Say Rs.186.50 per metre					


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Item No.	Description	Unit	Qty	Rate ₹	Rate Code.	Cost ₹
12.60.2	Providing and fixing false ceiling with 12 mm thick plain/or with design ceiling tiles of BWP type phenol formaldehyde synthetic resin bonded pressed partide board conforming to IS :3087 finished with a coat of aluminium primer on both sides & edges and two coats of synthetic enamel paint of approved quality on exposed face fixed to a grid made out of anodised aluminium (with 15 micron anodic coating) T- sections 35x15x1.5 mm size main runners and cross runners 23.5x19x1.5 mm fixed to main runners placed 600 mm centre to centre both ways so as to form a grid of 600 mm square. The frame work shall be suspended from ceiling by level adjusting hangers of 6 mm dia M.S. rod fixed to roof slab by means of ceiling cleats. The suspenders shall be placed 600x1200 mm centre to centre including fixing to the frame with CP brass screws and applying a priming coat of zinc chromate yellow primer for steel members complete (Frame work and suspenders to be paid for separately) Details of cost for 10.00 sqm					
	Materials:					
	Plain ceiling tiles 600x600x12 mm thick	each	30.000	105.000	(7267)	3150.00
	Area including 10% wastags=11.00 sqm	LS	14.820	2.120	(9999)	31.42
	Carriage of tiles	LS	26.910	2.120	(9999)	57.05
	C.P. brase screws					
	Labour:					
	Carpenter 1 st class	per day	2.500	413.000	(0111)	1032.50
	Beldar	per day	2.000	306.000	(0114)	612.00
	Scaffolding	LS	31.070	2.120	(9999)	65.87
	Sundries	LS	31.070	2.120	(8999)	65.87
	Total					5014.70
	Add for water charges @ 1%					50.15
	TOTAL					5064.85 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)					711.612
	Total					5776.463 (Y)
	Add for contractor's profit and overheads @ 15% on "Y"					866.469
	Cost of 10 sen					6642.93
	Cost of 1 sqm					664.29
	Add labour cess @ 1%					6.64
	Rate including labour cess					670.93

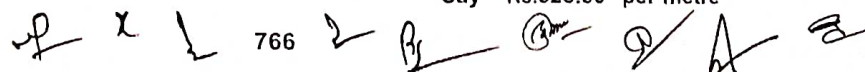
Say Rs.670.90 per sqm

12.60.3 Extra for providing 3 mm thick translucent white acrylic plastic sheets of approved quality in false ceiling instead of 12 mm thick plain/or with design particle board ceiling tiles in item above. Details of cost for 10 sqm

Cost of 3mm thick translucent white acrylic plastic sheets.	sqm	10.000	490.000	(7385)	4900.00	A
Cost of 12 mm thick plain partide board ceiling tiles	sqm	10.000	95.000	(7386)	950.00	B
A - B						3950.00
Add for water charges @ 1 %					39.50	
Total					3989.50 (X)	
Add GST 12% on "X" (multiplying factor 0.1405)					560.525	
Total					4550.025 (Y)	
Add for contractor's profit and overheads @ 15% on "Y"					682.504	
Cost of 10 sqm					5232.53	
Cost of 1 sqm					523.25	
Add labour cess @ 1%					5.23	
Rate including labour cess					528.48	

Say Rs.528.50 per metre

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Item No.	Description	Unit	Qty	Rate ₹	Rate Code.	Cost ₹
12.61	Providing 10 mm thick plaster of paris (Gypsum anhydrous) ceiling upto a height of 5 m above floor level over first class kail wood strips 25x6mm with 10 mm gap in between and reinforced with rabbit wire mesh fixed to wooden frame (frame work to be paid separately)					
12.61.1	Flat surfaces					
	Details of cost for 4.00x2.5=10 sqm					
	Materials:					
	Wooden strips of 1st class kail wood					
	72x40x0.25x0.06=43.20 cum					
	Add 10% Wastage=4.32 cum					
	=4 7352 cum					
	Carriage of timber	10 cum	4.752	300.000	(1196)	1425.60
		cum	0.048	187.350	(2204)	8.90
	Nails required for fixing the laths to frame work including breakage and wastage of nails	kilogram	0.750	58.000	(1219)	43.50
	Rabbit wire mesh required for reinforcement=2.5x4.0 = 10.00 sqm					1478.00
	Add 10% wastage =1.0 sqm					
	11.0 sqm	sqm	11.000	42.000	(1220)	462.00
	Plaster of paris-					
	2.5x4.0x10x1121/1000= 12.10 kg					
	Add for plaster of pan's joining into the sides of the laths-					
	2.5x4.0x4.0032x1121=44.87 kg/156.97					
	Add 40% wastage 62.79/219.76					
	FUN219.76	kilogram	219.760	5.000	(0869)	1098.80
	Carriage of plaster of paris	tonne	0.220	145.720	(2308)	32.06
	Carriage of wiremesh and nails etc.	LS	2.730	2.120	(9999)	5.79
	Required for jointing the wooden strips including finishing the rabbit mesh					
	Carpenter 1st class	per day	1.600	413.000	(0111)	660.80
	Beldar	per day	1.600	306.000	(0114)	489.60
	For doing plaster of paris over wooden strips					
	Mason	per day	3.230	413.000	(0122)	1333.99
	Beldar	per day	3.230	306.000	(0114)	988.38
	Bhishti	per day	0.540	332.000	(0101)	179.28
	Scaffolding	LS	83.980	2.120	(9999)	178.04
	Sundries	LS	53.820	2.120	(9999)	114.10
	Total					7020.83
	Add for water charges @ 1%					70.21
	TOTAL					7091.04 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)					996.291
	Total					8087.330 (Y)
	Add for contractor's profit and overheads @ 15% on "Y"					1213.100
	Cost of 10 sqm					9300.43
	Cost of 1 sqm					930.04
	Add labour cess @ 1%					9.30
	Rate including labour cess					939.34
	Say Rs.939.30 per sqm					
12.61.2	Curved surfaces					
	Details of cost for 4.00x2.5=10 sqm					
	Materials:					
	Wooden strips of 1st class kail wood					
	72x40x0.25x0.06=43.20 cum					

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Item No.	Description	Unit	Qty	Rate ₹	Rate Code.	Cost ₹
	Add 10% wastage=4.32 cudm					
	47.52 cudm	10 cudm	4.752	300.000	(1196)	1425.60
	Carriage of timber	cum	0.048	187.350	(2204)	8.90
	Nails required for fixing the laths to frame work including breakage and wastage of nails	kilogram	0.750	58.000	(1219)	43.50
	Rabbit wire mesh required for reinforcement=2.5x4=10.00 sqm					
	Add 10% wastage=0.20 sqm					
	10.2 sqm	sqm	10.200	42.000	(1220)	428.40
	Plaster of paris- 2.5x4.0x10x1121/1000=112.10 kg					
	Add for plaster of paris joining into the sides of the laths-					
	2.5x4.0x4.0032x1121=44.87 kg/156.97					
	Add 40% wastage 62.79/219.76	kilogram	219.760	5.000	(0869)	1098.80
	Carriage of piaster of paris	tonne	0.220	145.720	(2308)	32.06
	Carriage of wiremesh and nails etc..	LS	2.730	2.120	(9999)	5.79
	Labour:					3043.05
	Required for jointing the wooden strps including finishing the rabbit mesh					3043.05
	Carpenter 1st class	per day	1.600	413.000	(0111)	660.80
	Beldar	per day	1.600	306.000	(0114)	489.60
	For doing plaster of pan's over wooden strips					
	Mason	per day	3.230	413.000	(0122)	1333.99
	Beldar	per day	3.230	306.000	(0114)	988.38
	Bhishti	per day	0.540	332.000	(0101)	179.28
	Scaffolding	LS	83.980	2.120	(9999)	178.04
	Sundries	LS	53.820	2.120	(9999)	114.10
	Add for extra labour					
	Carpenter 1 st class	per day	0.500	413.000	(0111)	206.50
	Mason	per day	1.000	413.000	(0122)	413.00
	Beldar	per day	1.500	306.000	(0114)	459.00
	Add for water charges @ 1 %					80.66
	Add for contractor's profit and over-heads @ 15%					1221.96
	Cost of 10 sqm					9368.35
	Cost of 1 sqm					936.83
	Add labour cess @ 1%					9.37
	Rate including labour cess					946.20

Say Rs.946.20 per sqm

12.62 Extra for any sunk or raised mouldings in the plaster of paris (Gypsum anhydrous) ceiling Details of cost for 10 sqm

Plaste. of paris 50% of Qty 219.76 kg	kilogram	109.880	5.000	(0869)	549.40
Carriage of plaster of paris	tonne	0.110	145.720	(2308)	16.03
Labour:					
Mason special	per day	2.000	413.000	(0122)	826.00
Beldar	per day	2.000	306.000	(0114)	612.00
Bhishti	per day	0.250	332.000	(0101)	83.00
Scaffolding and Sundries	LS	13.520	2.120	(9999)	28.66
Total					2115.09
Add for water charges @ 1%					21.15
TOTAL					2136.24 (X)
Add GST 12% on "X" (multiplying factor 0.1405)					300.142
Total					2436.385 (Y)
Add for contractor's profit and overheads @ 15% on "Y"					365.458

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Item No.	Description	Unit	Qty	Rate ₹	Rate Code.	Cost ₹
	Cost of 10 sqm					2801.84
	Cost of 1 sqm					280.18
	Add labour cess @ 1%					2.80
	Rate including labour cess					282.98

Say Rs.283.00 per sqm

12.63 Extra for providing plaster of Paris (Gypsum anhydrous) ceiling above 5 metres height from floor level.

Details of cost for 10 sqm/metre hight

Scaffolding	LS	13.520	2.120	(9999)	28.66
Labour:					0.00
Mason	per day	1.000	413.000	(0122)	413.00
Beldars	per day	1.000	306.000	(0114)	306.00
Bhishti	per day	0.250	332.000	(0101)	83.00
Total					830.66
Add for water charges @ 1%					8.31
TOTAL					838.97 (X)
Add GST 12% on "X" (multiplying factor 0.1405)					117.875
Total					956.844 (Y)
Add for contractor's profit and overheads @ 15% on "Y"					143.527
Cost of 10 sqm					1100.37
Cost of 1 sqm					110.04
Add labour cess @ 1%					1.10
Rate including labour cess					111.14

Say Rs.111.10 per sqm

12.64 Providing and fixing 12mm thick plaster of paris (Gypsum anhudrous) ceiling tiles upto a height of 5m above floor level over wooden frames and rendered smooth with plaster of paris (frame work to be paid separately)

Details of cost for 10 sqm

4.00x2.50=10 sqm

Materials:

Hessian cloth for using in tiles reinforcement

10.00 sqm

Add for wastage 5% 0.5 sqm

10.50 sqm

Carriage of Hessian cloth

Plaster of paris

4.00x2.5x0.02x1121=26.90

161.42 kg


Carriage of plaster of paris

Labour:

For manufacturing the tiles including finishing and

filling the joints etc. after fixing the tiles.

Mason special	per day	2.690	413.000	(0122)	1110.97
Beldar	per day	2.690	306.000	(0114)	823.14
Bhishti	per day	0.400	332.000	(0101)	132.80
Labour for fixing the tiles					
Carpenter 1st class	per day	1.610	413.000	(0111)	664.93
Beldaar	per day	1.610	306.000	(0114)	492.66
Brass screw 1 inch	cent	161.000	100.000	(0452)	161.00
Scaffolding	1 time	83.980	2.120	(9999)	178.04

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Item No.	Description	Unit	Qty	Rate ₹	Rate Code.	Cost ₹
	Sundries	1 time	53.620	2.120	(9999)	113.67
	Total					4878.96
	Add for water charges @ 1%					48.79
	TOTAL					4927.75 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)					692.349
	Total					5620.099 (Y)
	Add for contractor's profit and overheads @ 15% on "Y"					843.015
	Cost of 10 sqm					6463.11
	Cost of 1 sqm					646.31
	Add labour cess @ 1%					6.46
	Rate including labour cess					652.77
	Say Rs.652.80 per sqm					
12.65	Extra for providing and fixing plaster of Paris (Gypsum anhydrous) ceiling tiles beyond 5 metres height form floor level.(Height beyond 5 m to be measured for extra payment)					
	Details of cost for 10 sqm					
	Labour:					
	Carpenter 1st class	per day	0.500	413.000	(0111)	206.50
	Beldar	per day	0.500	306.000	(0114)	153.00
	Higher scaffolding	1 time	13.520	2.120	(9999)	28.66
	Total					388.16
	Add for water charges @ 1%					3.88
	TOTAL					392.04 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)					55.082
	Total					447.126 (Y)
	Add for contractor's profit and overheads @ 15% on "Y"					67.069
	Cost of 10 sqm					514.20
	Cost of 1 sqm					51.42
	Add labour cess @ 1%					0.51
	Rate including labour cess					51.93
	Say Rs.51.90 per sqm					
12.67	Extra for making chamfered edges of beading					
12.67A	Thermal Insulation of roofing with bonded mineral wool, laid over false ceiling with suitable adhesive as per directions of the Engineer -in-charge.					
	i) 50 mm thick					
	Details of cost for 10.00 sqm					
	Area for 10.00 sqm (Finished surface)=10.00 sqm					
	Add 10% for overappings & wastage=1.00 sqm					
	11.00 sqm					
	Cost of materials					
	Bonded mineral wool roll	sqm	11.000	90.000	(7231)	990.00
	Adhesive bitumen grade 'A'	kilogram	0.250	29.000	(0314)	7.25
	Sundries	LS	104.000	2.120	(9999)	220.48
	Labour:					
	Carpenter 1st class	per day	0.500	413.000	(0111)	206.50
	Beldar	per day	0.500	306.000	(0114)	153.00
	Total					1577.23
	Add for water charges @ 1%					15.77
	TOTAL					1593.00 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)					223.817
	Total					1816.819 (Y)

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Item No.	Description	Unit	Qty	Rate ₹	Rate Code.	Cost ₹
	Add for contractor's profit and overheads @ 15% on "Y"					272.523
	Cost of 10 sqm					2089.34
	Cost of 1 sqm					208.93
	Add labour cess @ 1%					2.09
	Rate including labour cess					211.02
	Say					Rs.211.00 per sqm

12.67B Thermal Insulation of roofing with Expanded polystyrene fixed with suitable adhesive to the false ceiling as per the directions of the Engineer-in charge

12.67B.1 With Type N-Normal

i) 50 mm thick

Details of cost for 10.00 sqm

Cost of M

Expanded Polystyrens 1x10=10.00 sqm

Add wastage 10% =1.00 sqm

11.00 sqm

Expanded Polystyrene Type N-Normal

sqm 11.000 130.000 (7232) 1430.00

Adhesive bitumen grade 'A'

kilogram 0.250 29.000 (0314) 7.25

Sundries

1 time 5.000 2.120 (9999) 10.60

Labour;

Carpenter 1st class

per day 0.500 413.000 (0111) 206.50

Beldar

per day 0.500 306.000 (0114) 153.00

Total

1807.35

Add for water charges @ 1%

18.07

TOTAL

1825.42 (X)

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

256.472

Total

2081.896 (Y)

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

312.284

Cost of 10 sqm

2394.18

Cost of 1 sqm

239.42

Add labour cess @ 1%

2.39

Rate including labour cess

241.81

Say Rs.241.80 per sqm

12.67B.2 With Type SE Self Extinguishing type

i) 50 mm thick

Details of cost for 10 sqm

Cost of M

Expanded Polystyrens 1x10=10.00 sqm

Add wastage 10% = 1.00 sqm

11.00 sqm

Expanded Polyuustyrene Type N-Normal

sqm 11.000 130.000 (7232) 1430.00

Adhesive bitumen grac A'

kilogram 0.250 29.000 (0314) 7.25

Sundries

1 time 5.000 2.120 (9999) 10.60

Labour;

Carpenter 1st class

per day 0.500 413.000 (0111) 206.50

Beldar

per day 0.500 306.000 (0114) 153.00

Total

1807.35

Add for water charges @ 1%

18.07

TOTAL

1825.42 (X)

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

256.472

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BCD Analysis of Rates 2022

Item No.	Description	Unit	Qty	Rate ₹	Rate Code.	Cost ₹
	Total					2081.896 (Y)
	Add for contractor's profit and overheads @ 15% on "Y"					312.284
	Cost of 10 sqm '					2394.18
	Cost of 1 sqm					239.42
	Add labour cess @ 1%					2.39
	Rate including labour cess					241.81
	Say Rs.241.80 per sqm					
12.68	Providing and fixing 100 mm diameter and 60 cm long rain water spout in cement mortar 1:4 (1 cement : 4 fine sand)					
12.68.1	Stone ware spout					
	Details of cost for 10 stone ware spout of 60 cm long					
	Materials:					
	Cost of 10 mm dia stoneware pipe 60 xm long=6.00 metre	each	10.000	45.000	(3004)	450.00
	Carriage	LS	13.520	2.120	(9999)	28.66
	Mortar	LS	13.520	2.120	(9999)	28.66
	Labour:					
	Moson	per day	0.400	369.000	(0124)	147.60
	Beldar	per day	0.400	306.000	(0114)	122.40
	Sundries	LS	5.330	2.120	(9999)	11.30
	Total					788.62
	Add for water charges @ 1%					7.89
	TOTAL					796.51 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)					111.910
	Total					908.420 (Y)
	Add for contractor's profit and overheads @ 15% on "Y"					136.263
	Cost of 10 spouts					1044.68
	Cost of 1 spout					104.47
	Add labour cess @ 1%					1.04
	Rate including labour cess					105.51
	Say Rs.105.50 spout					
12.68.2	Cemenet concrete spout Details of cost for 10 cement concrete spout of 60 cm long.					
	Materials:					
	Cost of 100 mm dia stone ware pipe 60 cm long-6.00 metre	each'	10.000	45.000	(3004)	450.00
	Carriage	1 time	13.520	2.120	(9999)	28.66
	Mortar	1 time	13.520	2.120	(9999)	28.66
	Labour for fixing and placing in position					
	Mason	per day	0.400	369.000	(0124)	147.60
	Beldar	per day	0.400	306.000	(0114)	122.40
	Sundries	1 time	5.330	2.120	(9999)	11.30
	Total					788.62
	Add for water charges @ 1%					7.89
	TOTAL					796.51 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)					111.910
	Total					908.420 (Y)
	Add for contractor's profit and overheads @ 15% on "Y"					136.263
	Cost of 10 spouts .					1044.68

BCD Analysis of Rates 2022

Item No.	Description	Unit	Qty	Rate ₹	Rate Code.	Cost ₹
	Cost of 1 spout					104.47
	Add labour cess @ 1%					1.04
	Rate including labour cess					105.51
Say Rs.105.50 spout						
12.71	Providing and fixing M.S. holder bat clamps of approved design to C.I. or S.C.I rain water pipes embedded in and including cement concrete blocks 10x10x10 cm of 1:2:4 mix(1cement:2coarse sand:4 graded stone aggregate 20 mm nominal size) and cost of cutting holes and making good the walls etc.					
12.71.1	75 mm diameter					
	Details of cost of 5 nos.					
	Materials:					
	M.S. holder bat clamps=5 nos.	each	5.0000	30.0000	(1331)	150.00
	C.C. Block 5x0.1x0.1x0.1=0.005 cum					
	Carriage of bat clamps	1 time	7.1500	2.1200	(9999)	15.16
	Labour:					
	Fitter	per day	0.1250	420.0000	(0116)	52.50
	Mason 2nd class	per day	0.7500	369.0000	(0124)	276.75
	Beldar	per day	0.5000	306.0000	(0114)	153.00
	Sundries	1 time	2.7500	2.1200	(9999)	5.83
	20 mm nominal size	cum	0.0030	595.3600	(0295)	1.79
	10 mm nominal size	cum	0.0010	657.9100	(0297)	0.66
	Carriage of stone aggregate below 40 mm nominal size	cum	0.0045	0.0000	(2202)	0.00
	Coarse sand	cum	0.0022	135.0000	(0982)	0.30
	Carriage of coarse sand	cum	0.0022	0.0000	(2203)	0.00
	Cement	tonne	0.0016	4408.0000	(0367)	7.05
	Carriage of cement	tonne	0.0016	145.7200	(2209)	0.23
	Beldar	per day	0.0045	306.0000	(0114)	1.38
	coolie	per day	0.0032	318.0000	(0115)	1.02
	Bhishti	per day	0.0014	332.0000	(0101)	0.46
	Mason 1st class	per day	0.0003	413.0000	(0123)	0.12
	Mason 2nd class	per day	0.0003	369.0000	(0124)	0.11
	Mate	per day	0.0002	325.0000	(0128)	0.07
	Hire charges of machine etc.	1 time	0.1000	2.1200	(9999)	0.21
	Sundries	1 time	0.0500	2.1200	(9999)	0.11
	Sundries	1 time	0.0500	2.1200	(9999)	0.11
	Total					666.85
	Add for water charges @ 1%					6.67
	TOTAL					673.52 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)					94.629
	Total					768.145 (Y)
	Add for contractor's profit and overheads @ 15% on "Y"					115.222
	Cost of 5 each					883.37
	Cost of 1 each					176.67
	Add labour cess @ 1%					1.77
	Rate including labour cess					178.44
Say Rs.178.40 per sqm						
12.71.2	100 mm diameter					
	Details of cost for 5 nos					
	Materials:					
	M.S. holder bat clamps=5 nos.	each	5.0000	30.0000	(1331)	150.00
	C.C. Block 5x0.1x0.1x0.1=0.005 cum					
	Carriage of bat clamps	1 time	0.9500	2.1200	(9999)	2.01
	Labour:					
	Fitter	per day	0.1250	420.0000	(0116)	52.50

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Item No.	Description	Unit	Qty	Rate ₹	Rate Code.	Cost ₹
	Mason 2nd class	per day	0.7500	369.0000	(0124)	276.75
	Beldar	per day	0.5000	306.0000	(0114)	153.00
	Sundries	1 time	2.750	2.120	(9999)	5.83
	20mm nominal size	cum	0.003	595.360	(0295)	1.96
	10mm nominal size	cum	0.001	657.910	(0297)	0.72
	Carriage of stone aggregate below 40 mm nominal Size	cum	0.004	0.000	(2202)	0.00
	Coarse sand	cum	0.002	175.800	(0982)	0.39
	Carriage of coarse sand	cum	0.002	0.000	(2203)	0.00
	Cement	tonne	0.002	4408.000	(0367)	7.05
	Carriage of cement.	tonne	0.002	145.720	(2209)	0.23
	Beldar	per day	0.005	306.000	(0114)	1.38
	Coolie	per day	0.003	318.000	(0115)	1.02
	Bhishti	per day	0.001	332.000	(0101)	0.46
	Mason 1st class -	per day	0.000	413.000	(0123)	0.12
	Mason 2nd class	per day	0.000	369.000	(0124)	0.11
	Mate	per day	0.000	325.000	(0128)	0.07
	Hire charges of machine etc.	1 time	0.100	2.120	(9999)	0.21
	Sundries	1 time	0.050	2.120	(9999)	0.11
	Sundries	1 time	0.050	2.120	(9999)	0.11
	Total					654.04
	Add for water charges @ 1%					6.54
	TOTAL					660.58 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)					92.811
	Total					753.390 (Y)
	Add for contractor's profit and overheads @ 15% on "Y"					113.008
	Cost of 5 each					866.40
	Cost of 1 each					173.28
	Add labour cess @ 1%					1.73
	Rate including labour cess					175.01
				Say	Rs.175.00	per sqm
12.71.3	150 mm diameter					
	Details of cost for 5 nos.					
	Materials:	each	5.000	45.000	(0886)	225.00
	M.S. holder bat damp=5 nos.					
	C.C. Block 5x0.1x0.1 xO. 1 =0.005 cum	1 time	0.950	2.120	(9999)	2.01
	Carriage of bat clamps					
	Labour:	pet day	0.125	420.000	(0116)	52.50
	Fitter	per day	0.750	369.000	(0124)	276.75
	Mason /no cubb	per day	0.500	306.000	(0114)	153.00
	Beldar	1 time	2.750	2.120	(9999)	5.83
	Sundries 20 mm nominal size	cum	0.003	595.360	(0295)	1.96
	10 mm nominal size	cum	0.001	657.910	(0297)	0.72
	Carriage of stone aggregate below 40 mm nominal size	cum	0.004	0.000	(2202)	0.00
	Coarse sand	cum	0.002	175.800	(0982)	0.39
	Carriage of coarse sand	cum	0.002	0.000	(2203)	0.00
	Cement	tonne	0.002	4408.000	(0367)	7.05
	Carriage of cement.	tonne	0.002	145.720	(2209)	0.23
	Beldar	per day	0.005	306.000	(0114)	1.38
	Coolie	per day	0.003	318.000	(0115)	1.02
	Bhishti	per day	0.001	332.000	(0101)	0.46
	Mason 1st class	per day	0.000	413.000	(0123)	0.12
	Mason 2nd class	per day	0.000	369.000	(0124)	0.11
	Mate	per day	0.000	325.000	(0128)	0.07
	Hire charges of machine etc.	1 time	0.100	2.120	(9999)	0.21

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Item No.	Description	Unit	Qty	Rate ₹	Rate Code.	Cost ₹
	Sundries	1 time	0.050	2.120	(9999)	0.11
	Sundries	1 time	0.050	2.120	(9999)	0.11
	Total					729.04
	Add for water charges @ 1%					7.29
	TOTAL					736.33 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)					103.454
	Total					839.783 (Y)
	Add for contractor's profit and overheads @ 15% on "Y"					125.967
	Cost of 5 each					965.75
	Cost of 1 each					193.15
	Add labour cess @ 1%					1.93
	Rate including labour cess					195.08
	Say Rs.195.10 per sqm					

12.73 Providing lead caulked joints to sand cast iron rain water pipes and fittings:

12.73.1 75 mm dia pipe

Details of cost for one joint

Materials:

Pig lead	kilogram	0.740	60.000	(0865)	44.40
Spun Yarn	kilogram	0.080	50.000	(1001)	4.00
Kerosene oil fuel and sundries	1 time	4.150	2.120	(9999)	8.80
Carriage of materials	1 time	0.550	2.120	(9999)	1.17

Labour:

Fitter	per day	0.050	420.000	(0116)	21.00
Asstt. fitter	per day	0.060	369.000	(0117)	22.14
Beldar	per day	0.080	306.000	(0114)	24.48

Total 125.98

Add for water charges @ 1%

TOTAL 127.24 (X)

Add GST 12% on "X" (multiplying factor 0.1405) 17.878

Total 145.122 (Y)

Add for contractor's profit and overheads @ 15% on "Y" 21.768

Cost of 1 each 166.89

Add labour cess @ 1% 1.67

Rate including labour cess 168.56

Say Rs.168.60 Each

12.73.2 100 mm dia pipe

Details of cost for one joint

Materials:

Pig lead	kilogram	0.980	60.000	(0865)	58.80
Spun Yam	kilogram	0.110	50.000	(1001)	5.50
Kerosene oil fuel and sundries	1 time	5.200	2.120	(9999)	11.02
Carnage of materials	1 time	0.550	2.120	(9999)	1.17

Labour:

Fitter	per day	0.060	420.000	(0116)	25.20
Asst. fitter	per day	0.060	369.000	(0117)	22.14
Beldar	per day	0.120	306.000	(0114)	36.72

Total 160.55

Add for water charges @ 1% 1.61

TOTAL 162.16 (X)

Add GST 12% on "X" (multiplying factor 0.1405) 22.783

Total 184.938 (Y)


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Item No.	Description	Unit	Qty	Rate ₹	Rate Code.	Cost ₹
	Add for contractor's profit and overheads @ 15% on "Y"					27.741
	Cost of 1 each					212.68
	Add labour cess @ 1%					2.13
	Rate including labour cess					214.81
	Say Rs.214.80 Each					
12.73.3	150 mm dia pipe					
	Details of cost for one joint					
	Materials:					
	Pig lead	kilogram	1.480	60.000	(0865)	88.80
	Spun Yarn	kilogram	0.170	50.000	(1001)	8.50
	kerosene oil fuel and sundries	1 time	5.200	2.120	(9999)	11.02
	Carriage of materials	1 time	1.050	2.120	(9999)	2.23
	Labour:					
	Fitter	per day	0.080	420.000	(0116)	33.60
	Asstt. Fitter	per day	0.080	369.000	(0117)	29.52
	Beldar	per day	0.150	306.000	(0114)	45.90
	Total					219.57
	Add for water charges @ 1%					2.20
	TOTAL					221.77 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)					31.158
	Total					252.924 (Y)
	Add for contractor's profit and overheads @ 15% on "Y"					37.939
	Cost of 1 each					290.86
	Add labour cess @ 1%					2.91
	Rate including labour cess					293.77
	Say Rs.293.80 Each					
12.74	Providing and embedding sand cast iron accessories for rain water pipes in the masonry surrounded with 12 mm thick cement mortar of the same mix, as that of masonry (lead caulking will be paid for separately):					
12.74.2	Sand cast iron plain shoes					
12.74.2.3	150 mm diameter					
	Details of cost for one shoe					
	150 mm sand cast iron plain bend	each	1.000	240.715	(0966)	240.72
	Carriage fixing and mortar	1 time	6.750	2.120	(9999)	14.31
	Total					255.03
	Add for water charges @ 1%					2.55
	TOTAL					257.58 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)					36.189
	Total					293.765 (Y)
	Add for contractor's profit and overheads @ 15% on "Y"					44.065
	Cost of 1 shoe					337.83
	Add labour cess @ 1%					3.38
	Rate including labour cess					341.21
	Say Rs.341.20 Each					
12.78	Providing and fixing on wall face unplasticised rigid PVC (working pressure 4 kgf per sqcm) rain water pipes conforming to IS :13592 type A including jointing with seal ring conforming to IS: 5382 leaving 10 mm gap for thermal expansion, (i) Single socketed pipes					
12.78.1	75 mm diameter					
	Details of cost for 6.00 metres					

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Item No.	Description	Unit	Qty	Rate ₹	Rate Code.	Cost ₹
	Cost of 6.00 meters pipe	metre	6.000	70.000	(7188)	420.00
	Seal rings	metre	1.000	8.000	(7190)	8.00
	Carriage of materials	LS	13.520	2.120	(9999)	28.66
	Adhesive, arid sundries etc.	LS	6.760	2.120	(9999)	14.33
	Labour:					
	Fitter	per day	0.190	420.000	(0116)	79.80
	Beldar	per day	0.370	306.000	(0114)	113.22
	Bandhani	per day	0.080	325.000	(0100)	26.00
	Scaffolding etc.	LS	18.590	2.120	(9999)	39.41
	Total					729.42
	Add for water charges @ 1%					7.29
	TOTAL					736.72 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)					103.509
	Total					840.228 (Y)
	Add for contractor's profit and overheads @ 15% on "Y"					126.034
	Cost of 6 metre					966.26
	Cost of 1 metre					161.04
	Add labour cess @ 1%					1.61
	Rate including labour cess					162.65
				Say	Rs.162.70	Per metre
12.78.2	110 mm diameier					
	Details of cost for 6.00 metres					
	Cost of 6.00 metres pipe	metre	6.000	130.000	(7189)	780.00
	Seal rings	metre	1.000	11.000	(7191)	11.00
	Carriage of materials	LS	17.550	2.120	(9999)	37.21
	Adhesive and sundries etc.	LS	8.060	2.120	(9999)	17.09
	Labour:					
	Fitter	per day	0.2300	420.0000	(0116)	96.60
	Beldar	per day	0.4500	306.0000	(0114)	137.70
	Bandhani	per day	0.1100	325.0000	(0100)	35.75
	Scaffolding etc.	LS	18.5900	2.1200	(9999)	39.41
	Total					1154.75
	Add for water charges @ 1%					11.55
	TOTAL					1166.30 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)					163.865
	Total					1330.167 (Y)
	Add for contractor's profit and overheads @ 15% on "Y"					199.525
	Cost of 6 m					1529.69
	Cost of 1 m					254.95
	Add labour cess @ 1%					2.55
	Rate including labour cess					257.50
				Say	Rs.257.50	Per metre


12.79 Providing and fixing on wall face unplasticised -PVC moulded fittings/accessories for unplasticised rigid PVC rain water pipes conforming to IS:13592 type A including jointing with seal ring conforming to IS: 5382 leaving 10 mm gap for thermal expansion.

12.79.1 Coupler

12.79.1.1 75 mm

Details of cost for 1 coupler

Cost of coupler	each	1.0000	18.0000	(7192)	18.00
Seal rings	metre	2.0000	8.0000	(7190)	16.00


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Item No.	Description	Unit	Qty	Rate ₹	Rate Code.	Cost ₹
	Adhesive, and sundries etc.	LS	2.7300	2.1200	(9999)	5.79
	Carriage and fixing charges	LS	9.3600	2.1200	(9999)	19.84
	Total					59.63
	Add for water charges @ 1%					0.60
	TOTAL					60.23 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)					8.462
	Total					68.689 (Y)
	Add for contractor's profit and overheads @ 15% on "Y"					10.303
	Cost of 1 each					78.99
	Add labour cess @ 1%					0.79
	Rate including labour cess					79.78
			Say	Rs.79.80	Each	
12.79.1.2	110 mm					
	Details of cost for 1 coupler					
	Cost of coupler	each	1.0000	39.0000	(7193)	39.00
	Seal rings	metre	2.0000	11.0000	(7191)	22.00
	Adhesive and sundries etc.	LS	2.7300	2.1200	(9999)	5.79
	Carriage and fixing charges	LS	10.7900	2.1200	(9999)	22.87
	Total					89.66
	Add for water charges @ 1%					0.90
	TOTAL					90.56 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)					12.724
	Total					103.283 (Y)
	Add for contractor's profit and overheads @ 15% on "Y"					15.492
	Cost of 1 each					118.77
	Add labour cess @ 1%					1.19
	Rate including labour cess					119.96
			Say	Rs.120.00	Each	
12.79.2.1	Single push fit coupler					
12.79.2.1	75 mm					
	Details of cost for 1 coupler					
	Cost of coupler	each	1.0000	18.0000	(7194)	18.00
	Seal rings	metre	2.0000	8.0000	(7190)	16.00
	Adhesive and sundries etc.	LS	2.7300	2.1200	(9999)	5.79
	Carriage and fixing charges	LS	9.3800	2.1200	(9999)	19.89
	Total					59.67
	Add for water charges @ 1%					0.60
	TOTAL					60.27 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)					8.468
	Total					68.738 (Y)
	Add for contractor's profit and overheads @ 15% on "Y"					10.311
	Cost of 1 each					267.73
	Add labour cess @ 1%					2.68
	Rate including labour cess					270.41
			Say	Rs.270.40	Each	
12.79.2.2	110 mm					
	Details of cost for 1 coupler					
	Cost of coupler	each	1.000	32.000	(7195)	32.00
	Seal rings	metre	2.000	11.000	(7191)	22.00
	Adhesive and sundries etc.	LS	2.730	2.120	(9999)	5.79
	Carriage and fixing charges	LS	10.790	2.120	(9999)	22.87
	Total					82.66

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Item No.	Description	Unit	Qty	Rate ₹	Rate Code.	Cost ₹
	Add for water charges @ 1%					0.83
	TOTAL					83.49 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)					11.730
	Total					95.219 (Y)
	Add for contractor's profit and overheads @ 15% on "Y"					14.283
	Cost of 1 each					370.87
	Add labour cess @ 1%					3.71
	Rate including labour cess					374.58
	Say Rs.374.60 Each					
12.79.3	Single tee with door					
12.79.3.1	75x75x75 mm					
	Details of cost for 1 tee					
	Materials					
	75x75x75 mm single equal junction with access door including Cost of bolts and nuts	each	1.000	59.000	(7198)	59.00
	Seal rings	metre	3.000	8.000	(7190)	24.00
	Adhesive, Carriage of material rubber washer etc. including fixing charges	LS	10.760	2.120	(9999)	22.81
	Total					105.81
	Add for water charges @ 1%					1.06
	TOTAL					106.87 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)					15.015
	Total					121.884 (Y)
	Add for contractor's profit and overheads @ 15% on "Y"					18.283
	Cost of 1 each					140.17
	Add labour cess @ 1%					1.40
	Rate including labour cess					141.57
	Say Rs.141.60 Each					
12.79.3.2	110x110x110mm					
	Details of cost for 1 tee					
	Materials					
	110x110x110 mm single equal junction with access door including Cost of bolts and nuts	each	1.000	92.000	(7199)	92.00
	Seal rings	metre	3.000	8.000	(7190)	24.00
	Adhesive, Carriage of materials rubber washer etc. including fixing charges	1 time	13.470	2.120	(9999)	28.56
	Total					144.56
	Add for water charges @ 1%					1.45
	TOTAL					146.00 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)					20.513
	Total					166.515 (Y)
	Add for contractor's profit and overheads @ 15% on "Y"					24.977
	Cost of 1 each					191.49
	Add labour cess @ 1%					1.91
	Rate including labour cess					193.40
	Say Rs.193.40 Each					
12.79.4	Single tee without door					
12.79.4.1	75x75x75mm					
	Materials:					
	75x75x75 mm single equal junction without door	each	1.000	46.000	(7196)	46.00
	seal rings	metre	3.000	8.000	(7190)	24.00
	Adhesive, Carriage of material rubber					


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Item No.	Description	Unit	Qty	Rate ₹	Rate Code.	Cost ₹
	washer etc. including fixing charges	LS	10 760	2 120	(9999)	22.81
	Total					92.81
	Add for water charges @ 1%					0.93
	TOTAL					93.74 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)					13.170
	Total					106.910 (Y)
	Add for contractor's profit and overheads @ 15% on "Y"					16.036
	Cost of 1 each					122.95
	Add labour cess @ 1%					1.23
	Rate including labour cess					124.18
				Say	Rs.124.20	Each
12.79.4.2	110x110x110 mm					
	Details of cost of 1 tee					
	Materials:					
	110x110x110 mm single equal junction without door	each	1.0000	81.0000	(7197)	81.00
	seal rings	metre	3.0000	11.0000	(7191)	33.00
	Adhesive , Carriage of material rubber washer etc. including fixing charges	1 time	13.4700	2.1200	(9999)	28.56
	Total					142.56
	Add for water charges @ 1%					1.43
	TOTAL					143.98 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)					20.229
	Total					164.211 (Y)
	Add for contractor's profit and overheads @ 15% on "Y"					24.632
	Cost of 1 each					188.84
	Add labour cess @ 1%					1.89
	Rate including labour cess					190.73
				Say	Rs.190.70	Each
12.79.5	Band 87.5°					
12.79.5.1	75 mm bend					
	Detail of cost for 1 bend					
	Cost of 1 bend	each	1.0000	35.0000	(7208)	35.00
	Seal rings	metre	1.0000	8.0000	(7190)	8.00
	Adhesive and sundries etc.	1 time	2.7300	2.1200	(9999)	5.79
	Carriage and fixing charges	1 time	9.3600	2.1200	(9999)	19.84
	Total					68.63
	Add for water charges @ 1%					0.69
	TOTAL					69.32 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)					9.739
	Total					79.056 (Y)
	Add for contractor's profit and overheads @ 15% on "Y"					11.858
	Cost of 1 each					90.91
	Add labour cess @ 1%					0.91
	Rate including labour cess					91.82
				Say	Rs.91.80	Each
12.79.5.2	Band 87.5°					
	110 mm bend					
	Details of cost for 1 bend					
	Cost of 1 bend	each	1.0000	59.0000	(7209)	59.00
	Seal rings	metre	1.0000	11.0000	(7191)	11.00

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Item No.	Description	Unit	Qty	Rate ₹	Rate Code.	Cost ₹
	Adhesive , and sundries etc.	1 time	2.7300	2.1200	(9999)	5.79
	Carriage and fixing charges	1 time	10.7900	2.1200	(9999)	22.87
	Total					98.66
	Add for water charges @ 1%					0.99
	TOTAL					99.65 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)					14.001
	Total					113.650 (Y)
	Add for contractor's profit and overheads @ 15% on "Y"					17.047
	Cost of 1 each					130.70
	Add labour cess @ 1%					1.31
	Rate including labour cess					132.01
				Say	Rs.132.00	Each
12.79.6	Shoe plain					
12.79.6.1	75 mm shoe					
	Details of cost for 1 Shoe					
	Cost of Shoe	each	1.0000	27.0000	(7212)	27.00
	Seal rings	metre	1.0000	8.0000	(7190)	8.00
	Adhesive and sundries etc.	1 time	2.7300	2.1200	(9999)	5.79
	Carriage and fixing charges	1 time	9.3600	2.1200	(9999)	19.84
	Total					60.63
	Add for water charges @ 1%					0.61
	TOTAL					61.24 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)					8.604
	Total					69.841 (Y)
	Add for contractor's profit and overheads @ 15% on "Y"					10.476
	Cost of 1 each					80.32
	Add labour cess @ 1%					0.80
	Rate including labour cess					81.12
				Say	Rs.81.10	Each
12.79.6.2	110m Shoe					
	Details of cost for 1 Shoe					
	Cost of Shoe	each	1.000	47.000	(7213)	47.00
	Seal rings	metre	1.000	11.000	(7191)	11.00
	Adhesive , and sundries etc.	1 time	2.730	2.120	(9999)	5.79
	Carriage and flying charges	1 time	10.790	2.120	(9999)	22.87
	Total					86.66
	Add for water charges @ 1%					0.87
	TOTAL					87.53 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)					12.298
	Total					99.827 (Y)
	Add for contractor's profit and overheads @ 15% on "Y"					14.974
	Cost of 1 ea^ii					114.80
	Add labour cess @ 1%					1.15
	Rate including labour cess					115.95
				Say	Rs.115.95	Each
12.80	Providing and fixing unplasticised PVC pipe clip of approved design to unplasticised PVC rain water pipe by means of 50x50x50mm hard wood plugs, screwed with M.S. screws of required length including cutting brick work and fixing on cement mortar(1:4) 1 cement: 4 corse sand and making good the wall etc complete					
12.80.1	75 mm					
	Details of cost for 5 nos.					


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Item No.	Description	Unit	Qty	Rate ₹	Rate Code.	Cost ₹
	Materials:					
	U-PVC pipe clips = 0 nos	each	5.000	15.000	(7214)	75.00
	Carriage of U-PVC pipe dips	1 time	2.470	2.120	(9999)	5.24
	Hardwood plug 50x50x50	each	10.000	10.000	(0870)	100.00
	Labour:					
	Fitter	per day	0.125	420.000	(0116)	52.50
	Mason 2nd class	per day	0.750	369.000	(0124)	276.75
	Beldar	per day	0.500	306.000	(0114)	153.00
	Sundries	1 time	7.150	2.120	(9999)	15.16
	Sundries	1 time	0.910	2.120	(9999)	1.93
	Sundries cement mortar 1:4 (1 cement: 4 coarse sand)	1 time	3.900	2.120	(9999)	8.27
	Total					687.84
	Add for water charges @ 1%					6.88
	TOTAL					694.72 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)					97.608
	Total					792.328 (Y)
	Add for contractor's profit and overheads @ 15% on "Y"					118.849
	Cost of 5 each					911.18
	Cost of 1 each					182.24
	Add labour cess @ 1%					1.82
	Rate including labour cess					184.06
				Say	Rs.184.10	Each
12.80.2	110 mm					
	Details of cost for 5 nos.					
	Materials:					
	U-PVC pipe clips = 5 nos	each	5.000	14.000	(7215)	70.00
	Carriage of U-PVC pipe dips	1 time	2.470	2.120	(9999)	5.24
	Hardwood plug 50x50x50	each	10.000	10.000	(0370)	100.00
	Labour:					
	Fitter	per day	0.125	420.000	(0116)	52.50
	Mason 2nd class Beldar	per day	0.750	369.000	(0124)	276.75
	Beldar	per day	0.500	306.000	(0114)	153.00
	Sundries	1 time	7.150	2.120	(9999)	15.16
	Sundries	1 time	0.910	2.120	(9999)	1.93
	Sundries cement mortar 1:4 (1 cement: 4 coarse sand)	1 time	3.900	2.120	(9999)	8.27
	Total					682.84
	Add for water charges @ 1%					6.83
	TOTAL					689.67 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)					96.899
	Total					786.569 (Y)
	Add for contractor's profit and overheads @ 15% on "Y"					117.985
	Cost of 5 each					904.55
	Cost of 1 each					180.91
	Add labour cess @ 1%					1.81
	Rate including labour cess					182.72
				Say	Rs.182.72	Each
12.81	Providing and fixing to the inlet mouth of rain water pipe cast iron grating 15 cm diametre and weighing not less than 440 grams.					
	Materials: Details of cost for 1 grating					
	150 mm cast iron grating for rain water pipes	each	1.000	27.000	(7187)	27.00
	Carriage of material and fixing charges	1 time	4.160	2.120	(9999)	8.82

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Item No.	Description	Unit	Qty	Rate ₹	Rate Code.	Cost ₹
	Total					35.82
	Add for water charges @ 1%					0.36
	TOTAL					36.18 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)					5.083
	Total					41.260 (Y)
	Add for contractor's profit and overheads @ 15% on "Y"					6.189
	Cost of 1 each					47.45
	Add labour cess @ 1%					0.47
	Rate including labour cess					47.92

Say Rs.47.90 Each

- 12.82 Providing and fixing at all height false ceiling of 12.5 mm thick tapered edge gypsum board conforming to IS : 2095 including providing and fixing of frame work made of special sections power pressed from M.S. sheet and galvanised in accordance with zinc coating 120gm/sqm as per IS : 277 and consisting of angle cleats of size 25 mm wide x 16 mm thick with flanges of 22 mm and 27 mm at 1200 mm centre to centre one flange fixed to the ceiling with clash fastner 12.5 mm dia x 40 mm long with 6 mm dia bolts to the angle hangers of 25x10x0.5 mm of recommended length, and other end of angle hanger duly fixed with nut and bolts to rate of 1200 mm centre to centre to which the ceiling section 0.5 mm thick bottom wedge of 80 mm with tapered flanges of 26 mm each having clips of 10.5 mm at 450 mm centre to centre shall be be fixed in a direction perpendicular to G. I. channel with connecting clips made out of 2.64 mm dia x 230 mm long G. I. wire at every junction including fixing the gypsum board with ceiling section and perimeter channels 0.5 mm thick 27 mm high having flanges of 20 mm and 30 mm long the perimeter of cilling fixed to

wall / partition with the help of rawl plugs at 450 mm centre to centre with 25 mm long dirve all screws @ 230 mm interval including jointing and fixing to a flush finish of tapered and sqare edges of the gypsum board with recommended filter, paper tapes, finisher and two coats of primer suitable for gypsum board as per manufactures specification and also including the cost of making opening light fittings gills defusers cut outs with frame of perimeter channels suitably fixed all complete as per drawing and specification and direction of the Engineer-in-Charge but excluding the cost of painting.

Details of.cost for 10.8x9.6 m = 103.68 sqm

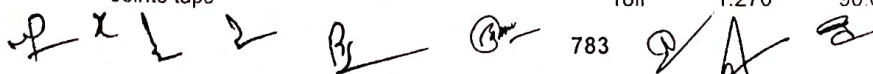
Materials:

Gypsum board 12.5 mm thick = 103.68 sqm

Add wastage @ 5% = 5.18 sqm

Total = 108.86 sqm

Galvanised Steel celling section size (80x26x0.50 mm)	sqm	108.860	140.000	(7009)	15240.40
Galvanised Steel perimetre Channel (Size20x27x30x0.50 mm)	metre	238.140	46.000	(7010)	10954.44
Galvanised Steel intermediate Channel (Size 15x45x15x0.90 mm)	metre	41.640	22.000	(7011)	916.08
Galvanised Steel angle hanger (Ceiling angle)Size 25x10x0.50 mm)	metre	90.720	38.000	(7012)	3447.36
Galvanised Steel angle hanger (Ceiling angle)Size 25x10x0.50 mm)	metre	10.800	12 000	(7013)	129.60
Galvanised Steel connecting clips (2.64 mm dia and 230 mm long GI wire)	each	189.000	4.000	(7014)	756.00
Galvanised steel bolts & nuts 6 mm dia and 25 mm long round head with slots	ten	21.000	38.000	(1022)	798.00
Galvanised Steel soffit cleat (Size 27x37x25x0.60 mm)	each	72.00	3.000	(7015)	216.00
Drive-all screws 25 mm long	100 Nos.	1000.0	58.000	(7020)	580.00
Joints filler	Kilogram	22.810	24.000	(7016)	547.44
Joints finisher	Kilogram	34.210	21.000	(7017)	718.41
Joints tape	roll	1.270	90.000	(7018)	114.30


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Item No.	Description	Unit	Qty	Rate ₹	Rate Code.	Cost ₹
	Primer for two coats	litre	18.660	70.000	(7021).	1306.20
	Dash fastner 12 mm dia 40 mm long with 6 mm dia bolt	each	72.000	10.000	(7388)	720.00
		1 time	807.300	2.120	(9999)	1711.48
	Sundries like rawl piug scafforiding etc.	1 time	447.2	2.120	(9999)	948.06
	Add for water charges @ 1%					391.04
	Add for contractor's profit & over heads @ 15 %					5924.22
	Add 2.8 % for cut outs					1271.73
	Cost of 103.68 sqm					46690.76
	Cost of 1 sqm					450.34 (A)
	Labour:					
	Details of cost for 10 sqm					
	Carpenter	per day	3	369.00	(0112)	1107.00
	Beldar	per day	3	306.00	(0114)	918.00
	Painter	per dsy	1	391.00	(0131)	391.00
	Add for water charges @ 1 %					24.16
	Add for contractor's profit and over head charges @ 15%					366.02
	Cost for 10sqm					2806.18
	Cost for 1 sqm					280.62 (B)
	Net rate for 1 sqm A+B					730.95
	Add labour cess @ 1%					7.31
	Rate including labour cess					738.26

Say Rs.738.30 per sqm

- 12.45 Providing and fixing false ceiling at all height including providing and fixing of frame work made of special sections, power pressed from M.S. sheets and galvanized with zinc coating of 120 gms/sqm (both side inclusive) as per IS : 277 and consisting of angle cleats of size 25 mm wide x 1.6 mm thick with flanges of 27 mm and 37 mm, at 1200 mm centre to centre, one flange fixed to the ceiling with dash fastener 12.5 mm dia x 50 mm long with 6 mm dia bolts, other flange of cleat fixed to the angle hangers of 25x10x0.50 mm of required length with nuts & bolts of required size and other end of angle hanger fixed with intermediate G.I. channels 45x15x0.9 mm running at the spacing of 1200 mm centre to centre, to which the ceiling section 0.5 mm thick bottom wedge of 80 mm with tapered flanges of 26 mm each having lips of 10.5 mm, at 450 mm centre to centre, shall be fixed in a direction perpendicular to G.I. intermediate channel with connecting clips made out of 2.64 mm dia x 230 mm long G.I. wire at every junction, including fixing perimeter channels 0.5 mm thick 27 mm high having flanges of 20 mm and 30 mm long, the perimeter of ceiling fixed to wall/partition with the help of rawl plugs at 450 mm centre, with 25 mm long dry wall screws @ 230 mm interval, including fixing of gypsum board to ceiling section and perimeter channel with the help of dry wall screws of size 3.5 x 25 mm at 230 mm c/c, including jointing and finishing to a flush finish of tapered and square edges of the board with recommended jointing compound , jointing tapes , finishing with jointing compound in 3 layers covering upto 150 mm on both sides of joint and two coats of primer suitable for board, all as per manufacturer's specification and also including the cost of making openings for light fittings, grills, diffusers, cutouts made with frame of perimeter channels suitably fixed, all complete as per drawings, specifica> @**

- 12.45.1 12.5 mm thick tapered edge gypsum plain board conforming to IS: 2095- Part I**

Details of cost for 10.8x9.6m = 103.68sqm

MATERIAL: Gypsum board 12.5mm thick = 103.68 sqm.+

Add wastage @ 5% = 5.18sqm.

Total = 108.86 sqm

7009	12.5 mm thick tapered edge gypsum plain borad	sqm	108.86	140.00	(7009)	15240.40
7010	Galvanised Steel ceiling section (size	metre	238.14	46.00	(7010)	10954.44

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Item No.	Description	Unit	Qty	Rate ₹	Rate Code.	Cost ₹
7011	80x26x0.50 mm) Galvanised Steel perimeter Channel (Size 20x27x30x0.50 mm)	metre	41.84	22.00	(7011)	920.48
7012	Galvanised Steel intermediate Channel (Size 15x45x15x0.90 mm)	metre	90.72	38.00	(7012)	3447.36
7013	Galvanised Steel angle hanger (Ceiling angle) (Size 25x10x0.50 mm)	metre	10.8	12.00	(7013)	129.60
7014	Galvanised Steel connecting clips (2.64 mm dia and 230 mm long GI wire)	each	189	4.00	(7014)	756.00
1022	Galvanised steel bolts & nuts 6 mm dia and 25 mm long round head with slots	10 Nos	216	38.00	1022	820.80
7015	Galvanised Steel soffit cleat (Size 27x37x 25x0.60 mm)	each	72	3.00	7015	216.00
7020	All drive screws (for gypsum board)	100 Nos	1000	58.00	7020	580.00
7016	Joint filler	kilogram	22.81	24.00	7016	547.44
7017	Joint finisher	kilogram	34.21	21.00	7017	718.41
7018	Joint tape roll	roll	1.27	90.00	7018	114.30
7021	Primer (for gypsum board)	litre	18.66	70.00	7021	1306.20
7388	Dash hold fastener 12.5 mm dia, 50 mm long with 6 mm dia bolt	each	72	10.00	7388	720.00
	12 mm dia 40 mm long with 6 mm dia bolt					
9999	Sundries like rawl plug scaffolding etc.	L.S.	807.3	2.120	9999	1711.48
9999	Carriage of material etc.	L.S.	447.2	2.120	9999	948.06
	LABOUR:					
112	Carpenter 2nd class	day	31.104	369.00	112	11477.38
114	Beldar	day	31.104	306.000	114	9517.82
131	Painter	day	10.368	391.00	131	4053.89
	TOTAL					64180.06
	Add Water Charges @ 1%					641.80
	TOTAL					64821.86 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)					9107.471
	Total					73929.330 (Y)
	Add for contractor's profit and overheads @ 15% on "Y"					11089.399
	Cost of 103.68 sqm					85018.73
	Cost of 1 sqm					820.01
	Add labour cess @ 1%					8.20
	Rate including labour cess					828.21
				Say	Rs.828.20	per sqm

12.45.2 12.5 mm thick tapered edge gypsum fire resistant board conforming to IS: 2095- Part I

Details of cost for 103.68 sqm

Details cost for 103.68 sqm

MATERIAL:

Gypsum board 12.5mm thick = 103.68 sqm. +

Add wastage @ 5% = 5.18sqm.

Total = 108.86 sqm

12.5 mm thick tapered edge gypsum fire resistant board

Galvanised Steel ceiling section (size 80x26x0.50 mm) metre

Galvanised Steel perimeter Channel (Size 20x27x30x0.50 mm) metre

Galvanised Steel intermediate Channel (Size 15x45x15x0.90 mm) metre

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Item No.	Description	Unit	Qty	Rate ₹	Rate Code.	Cost ₹
	Galvanised Steel angle hanger (Celling angle) (Size 25x10x0.50 mm) metre	metre	10.8	12.00	7013	129.60
	Galvanised Steel connecting clips (2.64 mm dia and 230 mm long GI wire)	each	189	4.00	7014	756.00
	Galvanised steel bolts & nuts 6 mm dia and 25 mm long round head with slots 10	10 Nos	216	38.00	1022	820.80
	Galvanised Steel soffit cleat (Size 27x37x 25x0.60 mm)	each	72	3.00	7015	216.00
	All drive screws (for gypsum board) 100	100 Nos	1000	58.00	7020	580.00
	Joint filler kilogram	kilogram	22.81	24.00	7016	547.44
	Joint finisher kilogram	kilogram	34.21	21.00	7017	718.41
	Joint tape roll	roll	1.27	90.00	7018	114.30
	Primer (for gypsum board)	litre	18.66	70.00	7021	1306.20
	Dash hold fastener 12.5 mm dia, 50 mm long with 6 mm dia bolt	each	72	10.00	7388	720.00
	Sundries like rawl plug scaffolding etc.	L.S.	807.3	2.120	9999	1711.48
	Carriage of material etc.	L.S.	447.2	2.120	9999	948.06
	LABOUR:					
	Carpenter 2nd class	day	31.104	369.00	112	11477.38
	Beldar	day	31.104	306.000	114	9517.82
	Painter	day	10.37	391.00	131	4054.67
	TOTAL					74776.18
	Add Water Charges @ 1%					747.76
	TOTAL					75523.95 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)					10611.114
	Total					86135.060 (Y)
	Add for contractor's profit and overheads @ 15% on "Y"					12920.259
	Cost of 103.68 sqm					99055.32
	Cost of 1 sqm					955.39
	Add labour cess @ 1%					9.55
	Rate including labour cess					964.95
			Say	Rs.964.90	per sqm	
12.45.3	12.5 mm thick tapered edge gypsum moisture resistant board					
	Details of cost for 103.68 sqm					
	Details cost for 103.68 sqm					
	MATERIAL:					
	Gypsum board 12.5mm thick = 103.68 sqm.+					
	Add wastage @ 5% = 5.18sqm.					
	Total = 108.86 sqm					
	12.5 mm thick tapered edge gypsum moisture resistant board	sqm	108.86	250.00	7031	27215.00
	Galvanised Steel ceiling section (size 80x26x0 50 mm) metre	metre	238.14	46.00	7010	10954.44
	Galvanised Steel perimetre Channel (Size 20x27x30x0.50 mm) metre	metre	41.84	22.00	7011	920.48
	Galvanised Steel intermediate Channel (Size 15x45x15x0.90 mm) metre	metre	90.72	38.00	7012	3447.36
	Galvanised Steel angle hanger (Celling angle) (Size 25x10x0.50 mm) metre	metre	10.8	12.00	7013	129.60
	Galvanised Steel connecting clips (2.64 mm dia and 230 mm long GI wire)	each	189	4.00	7014	756.00
	Galvanised steel bolts & nuts 6 mm dia and 25 mm long round head with slots 10	10 Nos	216	38.00	1022	820.80
	Galvanised Steel soffit cleat (Size 27x37x 25x0.60 mm)	each	72	3.00	7015	216.00

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Item No.	Description	Unit	Qty	Rate ₹	Rate Code.	Cost ₹
	All drive screws (for gypsum board) 100	100 Nos	1000	58.00	7020	580.00
	Joint filler kilogram	kilogram	22.81	24.00	7016	547.44
	Joint finisher kilogram	kilogram	34.21	21.00	7017	718.41
	Joint tape roll	roll	1.27	90.00	7018	114.30
	Primer (for gypsum board)	litre	18.66	70.00	7021	1306.20
	Dash hold fastener 12.5 mm dia, 50 mm long with 6 mm dia bolt	each	72	21.00	7388	1512.00
	Sundries like rawl plug scaffolding etc.	L.S.	807.3	2.120	9999	1711.48
	Carriage of material etc.	L.S.	447.2	2.120	9999	948.06
	LABOUR:					
	Carpenter 2nd class	day	31.104	369.00	0112	11477.38
	Beldar	day	31.104	306.000	0114	9517.82
	Painter	day	10.37	391.00	0131	4054.67
	TOTAL					76947.44
	Add Water Charges @ 1%					769.47
	TOTAL					77716.91 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)					10919.226
	Total					88636.141 (Y)
	Add for contractor's profit and overheads @ 15% on "Y"					13295.421
	Cost of 103.68 sqm					101931.56
	Cost of 1 sqm					983.14
	Add labour cess @ 1%					9.83
	Rate including labour cess					992.97
				Say	Rs.993.00	per sqm

12.45.4 Fully Perforated Gypsum Plaster Board of size 1200 x 2400x12.5 mm having approx. 15 % perforated area with perforation size and pattern as approved by the Engineer-in-charge and as per manufacturer's specification, with all 4 side tapered and backed by acoustical tissue with NRC value not less than 0.60.

Details of cost for 103.68 sqm

Details cost for 103.68 sqm

MATERIAL:

Gypsum board 12.5mm thick = 103.68 sqm.+

Add wastage @ 5% = 5.18sqm.

Total = 108.86 sqm

12.5 mm thick tapered edge gypsum moisture resistant board

Galvanised Steel ceiling section (size 80x26x0.50 mm) metre

Galvanised Steel perimetre Channel (Size 20x27x30x0.50 mm) metre

Galvanised Steel intermediate Channel (Size 15x45x15x0.90 mm) metre

Galvanised Steel angle hanger (Ceiling angle) (Size 25x10x0.50 mm) metre

Galvanised Steel connecting clips (2.64 mm dia and 230 mm long GI wire)

Galvanised steel bolts & nuts 6 mm dia and 25 mm long round head with slots 10

Galvanised Steel soffit cleat (Size 27x37x 25x0.60 mm)

All drive screws (for gypsum board) 100

Joint filler kilogram

Joint finisher kilogram

Joint tape roll

100 Nos 1000 58.00 7020 580.00

kilogram 22.81 24.00 7016 547.44

kilogram 34.21 21.00 7017 718.41

roll 1.27 90.00 7018 114.30

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Item No.	Description	Unit	Qty	Rate ₹	Rate Code.	Cost ₹
	Primer (for gypsum board)	litre	18.66	70.00	7021	1306.20
	Dash hold fastener 12.5 mm dia, 50 mm long with 6 mm dia bolt	each	72	21.00	7388	1512.00
	Sundries like rawl plug scaffolding etc.	L.S.	807.3	2.120	9999	1711.48
	Carriage of material etc.	L.S.	447.2	2.120	9999	948.06
	LABOUR:					
	Carpenter 2nd class	day	31.104	369.00	0112	11477.38
	Beldar	day	31.104	306.000	0114	9517.82
	Painter	day	10.37	391.00	0131	4054.67
	TOTAL					91099.24
	Add Water Charges @ 1%					910.99
	TOTAL					92010.23 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)					12927.438
	Total					104937.670 (Y)
	Add for contractor's profit and overheads @ 15% on "Y"					15740.651
	Cost of 103.68 sqm					120678.32
	Cost of 1 sqm					1163.95
	Add labour cess @ 1%					11.64
	Rate including labour cess					1175.59
	Say			Rs.1175.60	per sqm	

12.46 Providing and fixing to the inlet mouth of rain water pipe PTMT (an Engineering Thermoplastic) grating square (Slit) 150 mm square with a height of 8 mm and weighing not less than 100 gms.

Details of cost for 1 grating

Item No.	Description	Unit	Qty	Rate	Code	Cost
7857	P.T.M.T. Grating square slit 150mm	each	1.00	45.00	7857	45.00
9977	Carriage of material and fixing charges	L.S.	4.16	2.12	9977	8.82
	TOTAL					53.82
	Add 1 % Water charges					0.54
	TOTAL					54.36 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)					7.637
	Total					61.995 (Y)
	Add 15 % Contractor's profit and overheads					9.299
	Cost of each grating					71.29
	Add labour cess @ 1%					0.71
	Rate including labour cess					72.01
	Say			Rs.72.00	Each	

12.47 Providing & fixing UV stabilised fiberglass reinforced plastic sheet roofing up to any pitch, including fixing with polymer coated 'J' or 'L' hooks, bolts & nuts 8mm dia. G.I plain/bitumen washers complete but excluding the cost of purlins, rafters, trusses etc. The sheets shall be manufactured out of 2400 TEX panel rovigs incorporating minimum 0.3% ultra-violet stabiliser in resin system under approximately 2400 psi and hot cured. They shall be of uniform pigmentation and thickness without air pockets and shall conform to IS 10192 and IS 12866. The sheets shall be opaque or translucent, clear or pigmented, textured or smooth as specified.

12.47.1 2 mm thick corrugated (2.5" or 4.2" or 6") or step-down (2" or 3" or 6") as specified

Details of cost for area of roof.

2x18.09x5.1 = 184.518 sqm.

MATERIAL

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Item No.	Description	Unit	Qty	Rate ₹	Rate Code.	Cost ₹
8668	UV stabilised 2 mm thick corrugated FRPsheet	sqm	240.41	525.00	8668	126214.20
9977	Carriage of sheet G.I.Seam bolts and nuts 60cm centre to centre zig-zag i.e. 30cm centre to centre straight Breadth is 5.1metre No. of bolts in one lap 5.1/0.3 =17 nos. 2x26(laps)x17 nos. = 884 nos.	L.S.	104.00	2.12	9977	220.48
1022	Galvanised steel bolts & nuts 6 mm dia and 25 mmlong round head with slots G.I.,J or L hooks 8mm dia. (No. of purlins to be used 5 on either side)2x5x27 (No. of sheets)x23 nos. of bolts in each sheet = 810 nos.	10 Nos	88.40	38.00	1022	3359.20
1023	Galvanised steel J or L hooks 8 mm dia	10 Nos	81.00	120.00	1023	9720.00
1207	G.I. Limpet washer (total of seam and J bolts) 884+810= 1694	100 Nos	16.94	21.00	1207	355.74
1208	Bitumen washer	100 Nos	16.94	30.00	1208	508.20
9977	Carriage of bolts and washers	L.S.	26.91	2.12	9977	57.05
9999	Sundries LABOUR	L.S.	53.82	2.12	9999	114.10
130	Mistry	day	1.30	306.00	0130	397.80
112	Carpenter 2nd class	day	15.50	369.00	0112	5719.50
114	Beldar	day	15.50	306.00	0114	4743.00
	TOTAL					151409.27
	Add 1 % Water charges					1514.09
	TOTAL					152923.36 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)					21485.73
	Total					174409.09 (Y)
	Add 15 % Contractor's profit and overheads					26161.36
	Cost of 184.518 Sqm.					200570.46
	Cost of 1 Sqm.					1087.00
	Add labour cess @ 1%					10.87
	Rate including labour cess					1097.87
	Say		Say	Rs.1097.90	Sqm	

12.47.2 2 mm thick flat

Details of cost for area of roof.
2x18.09x5.1 = 184.518 sqm.

MATERIAL

8667	UV stabilised 2 mm thick plain FRP sheet	sqm	240.41	450.00	8667	108183.60
9977	Carriage of sheet G.I.Seam bolts and nuts 60cm centre to centre zig-zag i.e. 30cm centre to centre straight Breadth is 5.1metre No. of bolts in one lap 5.1/0.3 =17 nos. 2x26(laps)x17 nos. = 884 nos.	L.S.	104.00	2.12	9977	220.48
1022	Galvanised steel bolts & nuts 6 mm dia and 25 mmlong round head with slots	10 Nos	88.4	38.00	1022	3359.20

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Item No.	Description	Unit	Qty	Rate ₹	Rate Code.	Cost ₹
	G.I.,J or L hooks 8mm dia. (No. of purlins to be used 5 on either side)2x5x27 (No. of sheets)x23 nos. of bolts in each sheet = 810 nos.					
1023	Galvanised steel J or L hooks 8 mm dia	10 Nos	81.00	120.00	1023	9720.00
1207	G.I. Limpet washer (total of seam and J bolts) 884+810= 1694	100 Nos	16.94	21.00	1207	355.74
1208	Bitumen washer	100 Nos	16.94	30.00	1208	508.20
9977	Carriage of bolts and washers	L.S.	26.91	2.12	9977	57.05
9999	Sundries	L.S.	53.82	2.12	9999	114.10
	LABOUR					
130	Mistry	day	1.30	306.00	0130	397.80
112	Carpenter 2nd class	day	15.50	369.00	0112	5719.50
114	Beldar	day	15.50	306.00	0114	4743.00
	TOTAL					133378.67
	Add 1 % Water charges					1333.79
	TOTAL					134712.45 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)					18927.10
	Total					153639.55 (Y)
	Add 15 % Contractor's profit and overheads					23045.93
	Cost of 184.518 Sqm.					176685.49
	Cost of 1 Sqm.					957.55
	Add labour cess @ 1%					9.58
	Rate including labour cess					967.13
	Say		Say	Rs.967.10	Sqm	
12.48	Providing & fixing on roof pressed clay tile (Mangalore tile) of 20 mm nominal thickness and of approved size and as per approved pattern on steel frame work complete (steel frame work to be paid separately)					
	Details of cost for 10 sqm					
	MATERIAL					
8670	Mangalore tiles 20 mm thick	each	160.00	8.00	8670	1280.00
2207	Carriage of Brick tiles	1000 Nos	0.16	166.03	2207	26.56
	LABOUR					
123	Mason (brick layer) 1st class	day	0.30	413.00	123	123.90
114	Beldar	day	1.56	306.00	114	477.36
9999	Sundries	L.S.	130.00	2.12	9999	275.60
	Total					2183.42
	Add 1 % Water charges					21.83
	Total					2205.26 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)					309.84
	Total					2515.10 (Y)
	Add 15 % Contractor's profit and overheads					377.26
	Cost of 10 sqm					2892.36
	Cost of 1 sqm					289.24
	Add labour cess @ 1%					2.89
	Rate including labour cess					292.13
	Say		Say	Rs.292.10	Sqm	

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Item No.	Description	Unit	Qty	Rate ₹	Rate Code.	Cost ₹
12.49	Providing & laying on roof pressed clay tile ridge (Mangalore tile) of 20mm thickness and of approved pattern on steel frame work complete (steel frame work to be paid separately).					
	Details of cost for 3.60 metre					
	MATERIAL					
8669	Mangalore ridge tiles 20 mm thick	each	12.00	8.00	8669	96.00
2207	Carriage of Brick tiles	1000 Nos	0.01	166.03	2207	1.99
	LABOUR					
123	Mason (brick layer) 1st class	day	0.01	413.00	123	4.13
114	Beldar	day	0.15	306.00	114	45.90
9999	Sundries	L.S.	2.60	2.12	9999	5.51
	Total					153.53
	Add 1 % Water charges					1.54
	Total					155.07 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)					21.79
	Total					176.86 (Y)
	Add 15 % Contractor's profit and overheads					26.53
	Cost of 3.60 metre					203.39
	Cost for 1 metre					20.34
	Add labour cess @ 1%					0.20
	Rate including labour cess					20.54
	Say			Rs.20.50	Sqm	
12.50	Providing and fixing pre-coated galvanised iron profile sheets (size, shape and pitch of corrugation as approved by Engineer-in-charge) 0.50 mm (+ 0.05 %) total coated thickness with zinc coating 120 grams per sqm as per IS: 277, in 240 mpa steel grade, 5-7 microns epoxy primer on both side of the sheet and polyester top coat 15-18 microns. Sheet should have protective guard film of 25 microns minimum to avoid scratches during transportation and should be supplied in single length upto 12 metre or as desired by Engineer-in-charge. The sheet shall be fixed using self drilling /self tapping screws of size (5.5x 55 mm) with EPDM seal, complete upto any pitch in horizontal/ vertical or curved surfaces, excluding the cost of purlins, rafters and trusses and including cutting to size and shape wherever required.					
	Details of cost of 216.14 sqm.					
	Consider a shed of 20x10 metres.					
	(External dimensions of plinth).					
	Area of roof-					
	20.2x10.70m = 216.14 sqm.					
	MATERIAL					
	Sheets used = 20 nos.x10.70mx1.06m					
	= 226.84sqm					
	Add 3% wastage = 6.81					
	Total = 233.65sqm.					
8671	Pre-coated galvanised iron profile sheet 0.50 mm TCT	sqm	233.65	375.00	8671	87618.75
9977	Carriage of sheets	L.S.	104.00	2.12	9977	220.48
1023	Galvanised steel J or L hooks 8 mm dia	10 Nos	47.60	120.00	1023	5712.00
1208	Bitumen washer	100 Nos	4.76	30.00	1208	142.80
1209	G.I. plain washer thick	100 Nos	4.76	35.00	1209	166.60
9977	Carriage of bolts and nuts, washers etc.	L.S.	8.06	2.12	9977	17.09
9999	Sundries	L.S.	39.52	2.12	9999	83.78
	LABOUR					
130	Mistry	day	2.34	306.00	130	716.04
112	Carpenter 2nd class	day	9.34	369.00	112	3446.46



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Item No.	Description	Unit	Qty	Rate ₹	Rate Code.	Cost ₹
114	Beldar	day	9.34	306.00	114	2858.04
	TOTAL					100982.04
	Add 1 % Water charges					1009.82
	TOTAL					101991.86 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)					14329.86
	Total					116321.72 (Y)
	Add 15 % Contractor's profit and overheads					17448.26
	Cost of 216.14 sqm.					133769.97
	Cost of 1.00 sqm.					618.90
	Add labour cess @ 1%					6.19
	Rate including labour cess					625.09
	Say			Rs.625.10	Sqm	

12.51 Providing and fixing precoated galvanised steel sheet roofing accessories 0.50 mm (+0.05 %) total coated thickness, Zinc coating 120 grams per sqm as per IS: 277, in 240 mpa steel grade, 5-7 microns epoxy primer on both side of the sheet and polyester top coat 15- 18 microns using self drilling/ self tapping screws complete :

12.51.1 Ridges plain (500 - 600mm)

Detail of cost for 20.20 metre
 One piece plain ridges
 Consider a shed of 20x10m (external dimensions at plinth).
 Length of ridges 20.2 metre + 5% wastage = 23.11 metre.
MATERIAL
 8672 Precoated galvanised steel plain ridges 0.50 mm TCT and 500 -600 mm wide
 9977 Carriage (The ridge is to be fixed with the same hooks as the Sheets)
 9999 Sundries
LABOUR
 130 Mistry
 112 Carpenter 2nd class
 114 Beldar

		metre	23.11	225.00	8672	5199.75
		L.S.	13.52	2.12	9977	28.66
		L.S.	6.76	2.12	9999	14.33
		day	0.14	306.00	130	42.84
		day	0.55	369.00	112	202.95
		day	1.64	306.00	114	501.84
	TOTAL					5990.37
	Add 1 % Water charges					59.90
	TOTAL					6050.28 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)					850.06

Total 6900.34 (Y)
 Add 15 % Contractor's profit and overheads 1035.05
 Cost of 20.20 metre 7935.39
 Cost of 1.00 metre 392.84
 Add labour cess @ 1% 3.93
 Rate including labour cess 396.77
 Say Rs.396.80 Sqm

12.51.2 Flashings/ Aprons.(Upto 600 mm)

Details for shed of 20.2 metres completed length

MATERIAL
 Precoated galvanised steel flashings/ aprons
 0.50mm TCT and wide upto 600 mm

8673 20.20 + 5% wastage = 23.11 metre

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Item No.	Description	Unit	Qty	Rate ₹	Rate Code.	Cost ₹
9977	Carriage of apron pieces. (The apron pieces are to be fixed with the same hooks as the sheets)	metre	23.11	230.00	235 20	5315.30
		L.S.	3.25	2.12	9977	6.89
9999	Sundries LABOUR	L.S.	3.25	2.12	9999	6.89
130	Mistry	day	0.07	306.00	130	21.42
112	Carpenter 2nd class	day	0.28	369.00	112	103.32
114	Beldar	day	0.82	306.00	114	250.92
	TOTAL					5704.74
	Add 1 % Water charges					57.05
	TOTAL					5761.79 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)					809.53
	Total					6571.32 (Y)
	Add 15 % Contractor's profit and overheads					985.70
	Cost of 20.20 metre					7557.02
	Cost of 1.00 metre					374.11
	Add labour cess @ 1%					3.74
	Rate including labour cess					377.85
	Say		Say	Rs.377.90	metre	
12.51.3 North light curves						
	Details of North light curve 20.20 metres long complete length					
	MATERIAL					
8675	Precoated galvanised steel north light curves	metre	23.11	240.00	8675	5546.40
	20.20 + 5% wastage = 23.11 metre					
1023	Galvanised steel J or L hooks 8 mm dia	10 Nos	4.00	120.00	1023	480.00
1209	G.I. plain washer thick	100 Nos	0.40	35.00	1209	14.00
1208	Bitumen washer	100 Nos	0.40	30.00	1208	12.00
9977	Carriage of hooks, nuts, washers and curves	L.S.	9.88	2.12	9977	20.95
9999	Sundries LABOUR	L.S.	6.24	2.12	9999	13.23
130	Mistry	day	0.10	306.00	130	30.60
112	Carpenter 2nd class	day	0.30	369.00	112	110.70
114	Beldar	day	1.00	306.00	114	306.00
	TOTAL					6533.87
	Add 1 % Water charges					65.34
	TOTAL					6599.21 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)					927.19
	Total					7526.40 (Y)
	Add 15 % Contractor's profit and overheads					1128.96
	Cost of 20.20 metre					8655.36
	Cost of 1.00 metre					428.48
	Add labour cess @ 1%					4.28
	Rate including labour cess					432.77
	Say		Say	Rs.432.80	metre	
12.51.4 Barge board (Upto 300 mm)						
	Details of cost for 8.23 metres					
	Completed length of barge boards					
	= 8.23 + 5% wastage = 8.64 metre					
	MATERIAL					

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Item No.	Description	Unit	Qty	Rate ₹	Rate Code.	Cost ₹
8676	Precoated galvanised steel barge board	metre	8.64	230.00	8676	1987.20
222	Seam bolts and nuts 6 mm dia and 25 mm long	10 Nos	0.50	10.00	0222	5.00
1211	G.I. plain washer for seam bolts	100 Nos	0.10	32.00	1211	3.20
1208	Bitumen washer	100 Nos	0.05	30.00	1208	1.50
9977	Carriage of barge boards, bolts, nuts and washers	L.S.	9.36	2.12	9977	19.84
9999	Sundries LABOUR	L.S.	6.76	2.12	9999	14.33
130	Mistry	day	0.04	306.00	130	12.24
112	Carpenter 2nd class	day	0.06	369.00	112	22.14
114	Beldar	day	0.40	306.00	114	122.40
	TOTAL					2187.85
	Add 1 % Water charges					21.88
	TOTAL					2209.73 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)					310.47
	Total					2520.20 (Y)
	Add 15 % Contractor's profit and overheads					378.03
	Cost of 8.23 metre					2898.23
	Cost of 1.00 metre					352.15
	Add labour cess @ 1%					3.52
	Rate including labour cess					355.68
	Say		Say	Rs.355.70	metre	
12.51.5	Crimp curve					
	Details of crimp curve 20.2 metres long complete length, Area 20.20 x 1.06 =21.412 sqm					
	MATERIAL					
8677	Precoated galvanised steel crimp curve	sqm	22.48	235.00	8677	5283.51
1023	Galvanised steel J or L hooks 8 mm dia	10 Nos	4.00	120.00	1023	480.00
1209	G.I. plain washer thick	100 Nos	0.40	35.00	1209	14.00
1208	Bitumen washer	100 Nos	0.40	30.00	1208	12.00
9977	Carriage of hooks, nuts, washers and curves	L.S.	9.88	2.12	9977	20.95
9999	Sundries LABOUR	L.S.	6.24	2.12	9999	13.23
130	Mistry	day	0.10	306.00	130	30.60
112	Carpenter 2nd class	day	0.30	369.00	112	110.70
114	Beldar	day	1.00	306.00	114	306.00
	TOTAL					6270.98
	Add 1 % Water charges					62.71
	TOTAL					6333.69 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)					889.88
	Total					7223.57 (Y)
	Add 15 % Contractor's profit and overheads					1083.54
	Cost of 21.412 sqm					8307.11
	Cost of 1.00 sqm					387.97
	Add labour cess @ 1%					3.88
	Rate including labour cess					391.84
	Say		Say	Rs.391.80	sqm	
12.51.6	Gutter (600 mm over all girth)					
	Detail of cost of 10 metre 0.63mm thick with zinc coating not less than 275gm/sqm					

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Item No.	Description	Unit	Qty	Rate ₹	Rate Code.	Cost ₹
	Consider a length of 10.00m					
	Sheet used = 10x1.06m x 0.60 = 6.36 sqm.					
	Total = 6.36 metre					
8674	Precoated galvanised steel gutter	metre	10.00	440.00	8674	4400.00
9977	Carriage of gutter	L.S.	1.04	2.12	9977	2.20
1008	Flats upto 10 mm in thickness	quintal	0.07	4850.00	1008	363.27
1022	Galvanised steel bolts & nuts 6 mm dia and 25 mm long round head with slots	10 Nos	2.00	38.00	1022	76.00
1024	Galvanised steel bolts & nuts 10 mm dia and 125 mm long round head with slots	each	30.00	9.00	1024	270.00
1210	G.I. plain washer thin	100 Nos	0.70	21.00	1210	14.70
1208	Bitumen washer	100 Nos	0.40	30.00	1208	12.00
9977	Carriage of G.I. seam bolts and washers	L.S.	2.73	2.12	9977	5.79
9999	Sundries	L.S.	5.33	2.12	9999	11.30
	LABOUR					
102	Blacksmith 1st class	day	0.50	413.00	102	206.50
114	Beldar	day	0.50	306.00	114	153.00
9999	Sundries	L.S.	12.61	2.12	9999	26.73
130	Mistry	day	0.28	306.00	130	85.68
102	Blacksmith 1st class	day	0.84	413.00	102	346.92
112	Carpenter 2nd class	day	0.62	369.00	112	228.78
114	Beldar	day	1.68	306.00	114	514.08
	TOTAL					
	6716.95					
	Add 1 % Water charges					
	67.17					
	TOTAL					
	6784.12 (X)					
	Add GST 12% on "X" (multiplying factor 0.1405)					
	953.17					
	Total					
	7737.29 (Y)					
	Add 15 % Contractor's profit and overheads					
	1160.59					
	Cost of 10.00 metres					
	8897.88					
	Cost of 1.00 metre					
	889.79					
	Add labour cess @ 1%					
	8.90					
	Rate including labour cess					
	898.69					
	Say Rs.898.70 metre					

12.52X Providing and fixing tiled false ceiling of specified materials of size 595x595 mm in true horizontal level, suspended on inter locking metal grid of hot dipped galvanized steel sections (galvanized @ 120 grams/ sqm, both side inclusive) consisting of main "T" runner with suitably spaced joints to get required length and of size 24x38 mm made from 0.30 mm thick (minimum) sheet, spaced at 1200 mm center to center and cross "T" of size 24x25 mm made of 0.30 mm thick (minimum) sheet, 1200 mm long spaced between main "T" at 600 mm center to center to form a grid of 1200x600 mm and secondary cross "T" of length 600 mm and size 24x25 mm made of 0.30 mm thick (minimum) sheet to be interlocked at middle of the 1200x600 mm panel to form grids of 600x600 mm and wall angle of size 24x24x0.3 mm and laying false ceiling tiles of approved texture in the grid including, required cutting/making, opening for services like diffusers, grills, light fittings, fixtures, smoke detectors etc. Main "T" runners to be suspended from ceiling using GI slotted cleats of size 27 x 37 x 25 x 1.6 mm fixed to ceiling with 12.5 mm dia and 50 mm long dash fasteners, 4 mm GI adjustable rods with galvanised butterfly level clips of size 85 x 30 x 0.8 mm spaced at 1200 mm center to center along main T, bottom exposed width of 24 mm of all T-sections shall be pre-painted with polyester paint, all complete for all heights as per specifications, drawings and as directed by Engineer-in-charge.


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Item No.	Description	Unit	Qty	Rate ₹	Rate Code.	Cost ₹
12.52X.1	GI Metal Ceiling Lay in plain Tegular edge Global white color tiles of size 595x595 mm, and 0.5 mm thick with 8 mm drop; made of G I sheet having galvanizing of 100 gms/sqm (both sides inclusive) and electro statically polyester powder coated of thickness 60 microns (minimum), including factory painted after bending.					
	Details of cost for 100 sqm.					
	MATERIAL					
	Celling Area = 100 sqm					
	Add wastage @ 5% = 0.05 sqm.					
8599	Total = 100.05 sqm					
	GI Metal Tile Lay-in Plain Tegular edge global white color tiles of Size 595x595mm and 0.5 mm thick					
		sqm	105.00	625.00	8599	65625.00
8611	Main T ceiling sections 24x38x0.3 mm (3 metre long)	each	29.50	130.00	8611	3835.00
	Including Wastage @ 10%					
8612	Perimeter wall angle 24x24x0.3mm (3 metre long)	each	13.50	80.00	8612	1080.00
	Including Wastage @ 10%					
8613	Intermediate cross T-section 24x25x 0.3mm (1.2 mtrs long)	each	147.00	40.00	8613	5880.00
	Including Wastage @ 10% on Grid for cut outs					
8614	Intermediate cross T-section 24x25x 0.3mm (0.6 mtrs long)	each	147.00	20.00	8614	2940.00
	Including Wastage @ 10% on Grid for cut outs					
8615	Hanger rod 4 mm thick	each	72.00	10.00	8615	720.00
8616	Adjustment clip 85x30x0.8mm	each	72.00	6.00	8616	432.00
8617	Soffit cleat (Size 27x37x25x1.60mm)	each	72.00	5.00	8617	360.00
7388	Dash hold fastener 12.5 mm dia, 40 mm long with 6 mm dia bolt	each	72.00	10.00	7388	720.00
9999	Sundries i.e. scaffolding etc.	L.S.	187.95	2.12	9999	398.45
9977	Carrage of materials etc.	L.S.	89.28	2.12	9977	189.27
	LABOUR					
111	Carpenter 1st class	day	28.00	413.00	111	11564.00
114	Beldar	day	23.00	306.00	114	7038.00
	TOTAL					
	Add 1 % Water charges					
	TOTAL					
	Add GST 12% on "X" (multiplying factor 0.1405)					
	Total					
	Add 15 % Contractor's profit and overheads					
	Cost of 100 sqm.					
	Cost of 1 sqm.					
	Add labour cess @ 1%					
	Rate including labour cess					
	Say		Say	Rs.1348.40	sqm	1348.40
12.52x.2	GI Metal Ceiling Lay in perforated Tegular edge global white color tiles of size 595x595 mm and 0.5 mm thick with 8 mm drop; made of GI sheet having galvanizing of 100 gms/ sqm (both sides inclusive) and 20% perforation area with 1.8 mm dia holes and having NRC (Noise Reduction Coefficient) of 0.5, electro statically polyester powder coated of thickness 60 microns (minimum), including factory painted after bending and perforation, and backed with a black Glass fiber acoustical fleece.					

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Item No.	Description	Unit	Qty	Rate ₹	Rate Code.	Cost ₹
Details of cost for 100 sqm.						
MATERIAL						
Ceiling Area =100 sqm						
Add wastage @ 5% = 0.05 sqm.						
8600	Total=100.05 sqm					
	GI Metal Tile Lay-in Perforated Tegular edge global white color tiles of Size 595x595mm and 0.5 mm thick	sqm	105.00	735.00	8600	77175.00
8611	Main T ceiling sections 24x38x0.3 mm (3 metre long)	each	29.50	130.00	8611	3835.00
Including Wastage @ 10%						
8612	Perimeter wall angle 24x24x0.3mm (3 metre long)	each	13.50	80.00	8612	1080.00
Including Wastage @ 10%						
8613	Intermediate cross T-section 24x25x 0.3mm (1.2 mtrs long)	each	147.00	40.00	8613	5880.00
Including Wastage @ 10% on Grid for cut outs						
8614	Intermediate cross T-section 24x25x 0.3mm (0.6 mtrs long)	each	147.00	20.00	8614	2940.00
Including Wastage @ 10% on Grid for cut outs						
8615	Hanger rod 4 mm thick	each	72.00	10.00	8615	720.00
8616	Adjustment clip 85x30x0.8mm	each	72.00	6.00	8616	432.00
8617	Soffit cleat (Size 27x37x25x1.60mm)	each	72.00	5.00	8617	360.00
7388	Dash hold fastener 12.5 mm dia, 40 mm long with 6 mm dia bolt	each	72.00	10.00	7388	720.00
9999	Sundries i.e. scaffolding etc.	L.S.	187.95	2.12	9999	398.45
9977	Carriage of materials etc.	L.S.	89.28	2.12	9977	189.27
LABOUR						
111	Carpenter 1st class	day	28.00	413.00	111	11564.00
114	Beldar	day	23.00	306.00	114	7038.00
TOTAL						112331.73
Add 1 % Water charges						1123.32
TOTAL						113455.04 (X)
Add GST 12% on "X" (multiplying factor 0.1405)						15940.43
Total						129395.48 (Y)
Add 15 % Contractor's profit and overheads						19409.32
Cost of 100 sqm.						148804.80
Cost of 1 sqm.						1488.05
Add labour cess @ 1%						14.88
Rate including labour cess						1502.93
Say			Rs.1502.90	sqm		

12.52x.3 12.5 mm thick square edge PVC Laminated Gypsum Tile of size 595x595 mm, made of Gypsum plasterboard, manufactured from natural gypsum as per IS 2095 part I and laminated with white 0.16mm thick fire retardant PVC film on the face side and 12micron metalized polyester on the back side with all edges sealed with the face side PVC film which goes around and wraps the edges and is bonded to the edges and the back side metalized polyester film so as to make the tile a completely sealed unit.

Details of cost for 100 sqm.

MATERIAL

Ceiling Area =100 sqm


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Item No.	Description	Unit	Qty	Rate ₹	Rate Code.	Cost ₹
	Add wastage @ 5% = 0.05 sqm.					
8601	Total=100.05 sqm PVC Laminated Gypsum Tiles (Square edge) of Size 595x595 mm and 12.5 mm thick	sqm	105.00	880.00	8601	92400.00
8611	Main T ceiling sections 24x38x0.3 mm (3 metre long)	each	29.50	130.00	8611	3835.00
	Including Wastage @ 10%					
8612	Perimeter wall angle 24x24x0.3mm (3 metre long)	each	13.50	80.00	8612	1080.00
	Including Wastage @ 10%					
8613	Intermediate cross T-section 24x25x0.3mm (1.2 mtrs long)	each	147.00	40.00	8613	5880.00
	Including Wastage @ 10% on Grid for cut outs					
8614	Intermediate cross T-section 24x25x0.3mm (0.6 mtrs long)	each	147.00	20.00	8614	2940.00
	Including Wastage @ 10% on Grid for cut outs					
8615	Hanger rod 4 mm thick	each	72.00	10.00	8615	720.00
8616	Adjustment clip, 85x30x0.8mm	each	72.00	6.00	8616	432.00
8617	Soffit cleat (Size 27x37x25x1.60mm)	each	72.00	5.00	8617	360.00
7388	Dash hold fastener 12.5 mm dia, 40 mm long with 6 mm dia bolt	each	72.00	10.00	7388	720.00
9999	Sundries i.e. scaffolding etc.	L.S.	187.95	2.12	9999	398.45
9977	Carriage of materials etc.	L.S.	89.28	2.12	9977	189.27
	LABOUR					
111	Carpenter 1st class	day	28.00	413.00	111	11564.00
114	Beldar	day	23.00	306.00	114	7038.00
	TOTAL					127556.73
	Add 1 % Water charges					1275.57
	TOTAL					128832.29 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)					18100.94
	Total					146933.23 (Y)
	Add 15 % Contractor's profit and overheads					22039.98
	Cost of 100 sqm.					168973.22
	Cost of 1 sqm.					1689.73
	Add labour cess @ 1%					16.90
	Rate including labour cess					1706.63
	Say		Say	Rs.1706.60	sqm	

12.52x.4 12.5 mm thick fully Perforated Gypsum Board tile made from plasterboard having glass fibre conforming to IS: 2095 part I, of size 595x595 mm, having perforation of 9.7x9.7 mm at 19.4 mm c/c with center borders of 48 mm and the side borders of 30 mm, backed with non woven tissue on the back side, having an NRC (Noise Reduction Coefficient) of 0.79, with 50 mm resin bonded glass wool backing.

Details of cost for 100 sqm.

MATERIAL

Celling Area = 100 sqm

Add wastage @ 5% = 0.05 sqm.

8602 Total=100.05 sqm

Gypsum Tiles Fully Perforated Square edge

of Size 595x595 mm and 12.5 mm thick

sqm 105.00 380.00 8602 39900.00

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Item No.	Description	Unit	Qty	Rate ₹	Rate Code.	Cost ₹
8611	Main T ceiling sections 24x38x0.3 mm (3 metre long) Including Wastage @ 10%	each	29.50	130.00	8611	3835.00
8612	Perimeter wall angle 24x24x0.3mm (3 metre long) Including Wastage @ 10%	each	13.50	80.00	8612	1080.00
8613	Intermediate cross T-section 24x25x0.3mm (1.2 mtrs long) Including Wastage @ 10% on Grid for cut outs	each	147.00	40.00	8613	5880.00
8614	Intermediate cross T-section 24x25x0.3mm (0.6 mtrs long) Including Wastage @ 10% on Grid for cut outs	each	147.00	20.00	8614	2940.00
8615	Hanger rod 4 mm thick	each	72.00	10.00	8615	720.00
8616	Adjustment clip 85x30x0.8mm	each	72.00	6.00	8616	432.00
8617	Soffit cleat (Size 27x37x25x1.60mm)	each	72.00	5.00	8617	360.00
7388	Dash hold fastener 12.5 mm dia, 40 mm long with 6 mm dia bolt	each	72.00	10.00	7388	720.00
9999	Sundries i.e. scaffolding etc.	L.S.	187.95	2.12	9999	398.45
9977	Carriage of materials etc. LABOUR	L.S.	89.28	2.12	9977	189.27
111	Carpenter 1st class	day	28.00	413.00	111	11564.00
114	Beldar	day	23.00	306.00	114	7038.00
	TOTAL					75056.73
	Add 1 % Water charges					750.57
	TOTAL					75807.29 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)					10650.92
	Total					86458.22 (Y)
	Add 15 % Contractor's profit and overheads					12968.73
	Cost of 100 sqm.					99426.95
	Cost of 1 sqm.					994.27
	Add labour cess @ 1%					9.94
	Rate including labour cess					1004.21
	Say			Say	Rs.1004.20	sqm

12.53X Providing and Fixing 15 mm thick densified tegular edged eco friendly light weight calcium silicate false ceiling tiles of approved texture of size 595 x 595 mm in true horizontal level, suspended on inter locking metal grid of hot dipped galvanised steel sections (galvanising @ 120 grams per sqm including both side) consisting of main 'T' runner suitably spaced at joints to get required length and of size 24x38 mm made from 0.33 mm thick (minimum) sheet, spaced 1200 mm centre to centre, and cross "T" of size 24x28 mm made out of 0.33 mm (Minimum) sheet, 1200 mm long spaced between main 'T' at 600 mm centre to centre to form a grid of 1200x600 mm and secondary cross 'T' of length 600 mm and size 24 x28 mm made of 0.33 mm thick (Minimum) sheet to be inter locked at middle of the 1200x 600 mm panel to form grid of size 600x600 mm, resting on periphery walls /partitions on a Perimeter wall angle pre-coated steel of size(24x24X3000 mm made of 0.40 mm thick (minimum) sheet with the help of rawl plugs at 450 mm centre to centre with 25 mm long dry wall screws @ 230 mm interval and laying 15 mm thick densified edges


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Item No.	Description	Unit	Qty	Rate ₹	Rate Code.	Cost ₹
	calicum silicate ceiling tiles of approved texture in the grid, including, cutting/ making opening for services like diffusers, grills, light fittings, fixtures, smoke detectors etc., wherever required. Main 'T' runners to be suspended from ceiling using G.I. slotted cleats of size 25x35x1.6 mm fixed to ceiling with 12.5 mm dia and 50 mm long dash fasteners, 4 mm G.I. adjustable rods with galvanised steel level clips of size 85 x 30 x 0.8 mm, spaced at 1200 mm centre to centre along main 'T', bottom exposed with 24 mm of all Tsections shall be pre-painted with polyster baked paint, for all heights, as per specifications, drawings and as directed by Engineer-in-Charge.					
	Details of cost for 100 sqm. MATERIAL					
8589	Calcium Silicate tegular edged ceiling tiles 495x495 mm and 15 mm thick Area = 100 sqm + Add 5% wastage = 5 sqm	sqm	105.00	685.00	8589	71925.00
	Total = 105 sqm					
8590	Galvanised Steel main Tee ceiling section Size 24x38x0.33mm (3.00 metre long)	each	29.50	140.00	8590	4130.00
8591	Galvanised Steel perimeter wall Angle Size 24 x 24 x 0.40 mm (3.00 metre long)	each	13.50	90.00	8591	1215.00
8592	Galvanised Steel intermediate cross T section Size 24 x 25 x 0.33 mm (1.2 metre long)	each	147.00	45.00	8592	6615.00
8593	Galvanised Steel intermediate cross T section Size 24 x 25 x 0.33. (0.6 metre long)	each	147.00	22.00	8593	3234.00
8615	Hanger rod 4 mm thick	each	72.00	10.00	8615	720.00
8616	Adjustment clip 85x30x0.8mm	each	72.00	6.00	8616	432.00
7388	Dash hold fastener 12.5 mm dia, 40 mm long with 6 mm dia bolt	each	72.00	10.00	7388	720.00
8617	Soffit cleat (Size 27x37x25x1.60mm)	each	72.00	5.00	8617	360.00
8595	Wooden screws with plastic rawl plugs 35x8 mm	each	100.00	1.00	8595	100.00
9999	scaffolding etc.	L.S.	498.65	2.12	9999	1057.14
9977	Carriage of materials etc.	L.S.	237.48	2.12	9977	503.46
9999	Sundries	L.S.	310.70	2.12	9999	658.68
	LABOUR					
111	Carpenter 1st class	day	28.00	413.00	111	11564.00
114	Beldar	day	23.00	306.00	114	7038.00
	TOTAL					
	Add 1 % Water charges					
	TOTAL					
	Add GST 12% on "X" (multiplying factor 0.1405)					
	Total					
	Add 15 % Contractor's profit and overheads					
	Cost of 100 sqm.					
	Cost of 1 sqm.					
	Add labour cess @ 1%					
	Rate including labour cess					
	Say					
		Say		Rs.1475.40	sqm	

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Item No.	Description	Unit	Qty	Rate ₹	Rate Code.	Cost ₹
12.54x	Providing and fixing GI Clip in Metal Ceiling System of 600x600 mm module which includes providing and fixing 'C' wall angle of size 20x30x20 mm made of 0.5 mm thick pre painted steel along the perimeter of the room with help of nylon sleeves and wooden screws at 300 mm center to centre, suspending the main C carrier of size 10x38x10 mm made of G.I steel 0.7 mm thick from the soffit with help of soffit cleat 37x27x25x1.6 mm, rawl plugs of size 38x12 mm and C carrier suspension clip and main carrier bracket at 1000 mm c/c. Inverted triangle shaped Spring Tee having height of 24 mm and width of 34 mm made of GI steel 0.45 mm thick is then fixed to the main C carrier and in direction perpendicular to it at 600 mm centers with help of suspension brackets. Wherever the main C carrier and spring T have to join, C carrier and spring T connectors have to be used. All sections to be galvanized @ 120 gms/sqm (both side inclusive), fixing with clip in tiles into spring T with :					
12.54x.1	GI Metal Ceiling Clip in plain Beveled edge global white color tiles of size 600x600 and 0.5 mm thick with 25 mm height, made of GI sheet having galvanizing of 100 gms/ sqm (both sides inclusive) and electro statically polyester powder coated of thickness 60 microns (minimum), including factory painted after bending.					
	Details of cost for 100 sqm.					
	MATERIAL					
	Ceiling Area =100 sqm					
	Add wastage @ 5% = 5 sqm.					
	Total=105 sqm					
8597	GI Metal Tile Clip in Plain Beveled edge global white colour tiles of size 600x600 mm and 0.5mm thick	sqm	105.00	710.00	8597	74550.00
8604	Spring T-section 24x34x0.45 mm (3.00 meter long)	metre	60.00	220.00	8604	13200.00
	Including Wastage @ 10%					
8605	C Wall angle section 20x30x20x0.50 mm (3.00 meter long)	metre	27.70	110.00	8605	3047.00
	Including Wastage @ 10%					
8606	Main C Carrier Size 10x38x10x0.70mm (3.00 meter long)	metre	33.00	130.00	8606	4290.00
	Including Wastage @ 10% on Grid for cut outs					
8607	Spring T-connector	each	44.00	5.00	8607	220.00
8608	C Carrier Connector	each	44.00	12.00	8608	528.00
8609	C Suspension Clip	each	88.00	10.00	8609	880.00
8610	Wire Coupling Clip	each	333.00	10.00	8610	3330.00
8615	Hanger rod 4 mm thick	each	80.00	8.00	8615	640.00
8616	Adjustment clip 85x30x0.8mm	each	80.00	6.00	8616	480.00
8617	Soffit cleat (Size 27x37x25x1.60mm)	each	80.00	5.00	8617	400.00
7388	Dash hold fastener 12.5 mm dia, 40 mm long with 6 mm dia bolt	each	80.00	10.00	7388	800.00
9999	Sundries i.e. scaffolding etc.	L.S.	188.00	2.12	9999	398.56
9977	Carriage of materials etc.	L.S.	90.00	2.12	9977	190.80
	LABOUR					
111	Carpenter 1st class	day	28.00	413.00	111	11564.00
114	Beldar	day	23.00	306.00	114	7038.00
	TOTAL					
	Add 1 % Water charges					
	TOTAL					
	121556.36					
	1215.56					
	122771.92 (X)					



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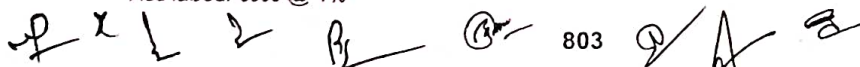
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Item No.	Description	Unit	Qty	Rate ₹	Rate Code.	Cost ₹
	Add GST 12% on "X" (multiplying factor 0.1405)					17249.46
	Total					140021.38 (Y)
	Add 15 % Contractor's profit and overheads					21003.21
	Cost of 100 sqm.					161024.59
	Cost of 1 sqm.					1610.25
	Add labour cess @ 1%					16.10
	Rate including labour cess					1626.35
	Say		Say	Rs.1626.30	sqm	
12.54x.2	GI Metal Ceiling Clip in plain Beveled edge global white color tiles of size 600x600 and 0.5 mm thick with 25 mm height, made of GI sheet having galvanizing of 100 gms/ sqm (both sides inclusive) and 20% perforation area with 1.8 mm dia holes and having NRC of 0.5, electro statically polyester powder coated of thickness 60 microns (minimum), including factory painted after bending and perforation.					
	Details of cost for 100 sqm. MATERIAL					
	Ceiling Area =100 sqm					
	Add wastage @ 5% = 5 sqm. Total=105 sqm					
	GI Metal Tile Clip in Perforated Beveled edge global white colour tiles of size 600x600 mm and 0.5mm thick					
	Spring T-section 24x34x0.45 mm (3.00 meter long)					
	Including Wastage @ 10%					
8598	C Wall angle section 20x30x20x0.50 mm (3.00 meter long)					
	Including Wastage @ 10%					
	Main C Carrier Size 10x38x10x0.70mm (3.00 meter long)	sqm metre	105.00	800.00	8598	84000.00
8604	Including Wastage @ 10% on Grid for cut outs					
	Spring T-connector C Carrier Connector C	metre	60.00	220.00	8604	13200.00
	Suspension Clip Wire Coupling Clip					
	Hanger rod 4 mm thick Adjustment clip 85x30x0.8mm					
8605	Soffit cleat (Size 27x37x25x1.60mm) Dash hold fastener 12.5 mm dia, 40 mm long with 6 mm dia bolt					
	Sundries i.e. scaffolding etc. Carriage of materials etc.	metre	27.70	110.00	8605	3047.00
8606	Main C Carrier Size 10x38x10x0.70mm (3.00 meter long) Including Wastage @ 10% on Grid for cut outs	metre	33.00	130.00	8606	4290.00
8607	Spring T-connector	Each	44.00	5.00	8607	220.00
8608	C Carrier Connector	Each	44.00	12.00	8608	528.00
8609	C Suspension Clip Wire Coupling Clip	Each	88.00	10.00	8609	880.00
8610	Wire Coupling Clip	Each	333.00	10.00	8610	3330.00
8615	Hanger rod 4 mm thick	Each	80.00	8.00	8615	640.00
8616	Adjustment clip 85x30x0.8mm	Each	80.00	6.00	8616	480.00
8617	Soffit cleat (Size 27x37x25x1.60mm)	Each	80.00	5.00	8617	400.00
7388	Dash hold fastener 12.5 mm dia, 40 mm long with 6 mm dia bolt	Each	80.00	10.00	7388	800.00
9999	Sundries i.e. scaffolding etc.	LS	188.00	2.12	9999	398.56
9977	Carriage of materials etc.	LS	90.00	2.12	9977	190.80

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Item No.	Description	Unit	Qty	Rate ₹	Rate Code.	Cost ₹
LABOUR						
111	Carpenter 1st class	day	28.00	413.00	111	11564.00
114	Beldar	day	23.00	306.00	114	7038.00
	TOTAL					131006.36
	Add 1 % Water charges					1310.06
	TOTAL					132316.42 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)					18590.46
	Total					150906.88 (Y)
	Add 15 % Contractor's profit and overheads					22636.03
	Cost of 100 sqm.					173542.91
	Cost of 1 sqm					1735.43
	Add labour cess @ 1%					17.35
	Rate including labour cess					1752.78
	Say			Rs.1752.80	sqm	
12.55x	Providing and fixing Heat Resistant Terrace Tiles (300 mm x 300 mm x 20 mm) with SRI (solar refractive index) > 78, solar reflection > 0.70 and initial emittance > 0.75 on waterproof and sloped surface of terrace, laid on 20 mm thick cement sand mortar in the ratio of 1:4 (1 cement : 4 coarse sand) and grouting the joints with mix of white cement & marble powder in ratio of 1:1, including rubbing and polishing of the surface upto 3 cuts complete, including providing skirting upto 150 mm height along the parapet walls in the same manner.					
	Details of cost for 10 sqm					
	Area= 10 sqm+					
	Add wastage @ 3%=0.3 sqm					
	Total=10.30 sqm					
MATERIAL						
1204	Precast heat resistant terrace tiles (size 300x300mm) and 20mm thick	sqm	10.30	409.00	1204	4212.70
	Cement mortar 1:4 (1 cement : 4 coarse sand)					
3.9	Rate as per Item No.2113 of SH:Mortar	cum	0.22	2256.97	2113	505.56 A
367	Portland Cement (OPC-43 grade)	tonne	0.04	4408.00	0367	193.95
368	White Cement	tonne	0.04	11200.00	0368	492.80
2209	Carriage of Cement	tonne	0.09	0.00	2209	0.00
875	Red, chocolate, orange, buff or yellow (red oxide of iron) light shade pigment	kilogram	3.08	60.00	0875	184.80
LABOUR						
124	Mason (brick layer) 2nd class	day	1.60	369.00	0124	590.40
115	Coolie	day	2.00	318.00	0115	636.00
139	Skilled Beldar (for floor rubbing etc.)	day	1.00	369.00	0139	369.00
101	Bhisti	day	1.00	332.00	0101	332.00
13	Machine for rubbing of floors	day	1.60	300.00	0013	480.00
9999	Sundries including carborandum stone etc.	L.S.	169.98	2.12	9999	360.36
	Total					8357.57
	Add 1 % Water charges except A					78.52
	Total					8436.09 (X)
	Add GST 12% on "X" except A (multiplying factor 0.1405)					1114.24
	Total					9550.33 (Y)
	Add 15 % Contractor's profit and overheads except A					1356.72
	Cost of 10 sqm					10907.05
	Cost of 1 sqm					1090.70
	Add labour cess @ 1%					10.91


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Item No.	Description	Unit	Qty	Rate ₹	Rate Code.	Cost ₹
	Rate including labour cess					1101.61
	Say		Say	Rs.1101.60	sqm	
12.56x	Providing and laying roof insulation with 40 mm thick impervious sprayed, closed cell free Rigid Polyurethane foam over deck insulation conforming to IS - 12432 Pt. III (density of foam being 40-45 kg/ cum), over a coat of polyurethane primer applied @ 6-8 sqm per litre, laying 400 G polythene sheet over PUF spray and providing a wearing course of 40 mm thick cement screed 1:2:4 (1 cement : 2 coarse sand : 4 stone aggregate 20 mm nominal size) in chequered rough finish, in panels of 2.5 m x 2.5 m and embedding with 24 G wire netting and sealing the joints with polymerized mastic, all complete as per direction of Engineer-in-Charge.					
	Details of cost for 1 sqm					
	MATERIAL					
7050	PU Primer	sqm	1.00	50.00	7050	50.00
	Area for PU Spray = 1 sqm+					
	Add for wastage @ 10%=0.10 sqm					
	Total=1.10 sqm					
7051	40 mm (average) PU spray having 40-45 kg/m3 density	sqm	1.10	350.00	7051	385.00
7052	GI wire netting 3/4" x 24 G	sqm	1.00	26.00	7052	26.00
9999	Sundries	L.S.	6.71	1.73	9999	11.61
9999	Polymerized mastic for all joints	L.S.	20.13	1.73	9999	34.82
7053	400 G polythene sheet	sqm	1.00	12.00	7053	12.00
9999	Cement	L.S.	44.67	2.12	9999	94.70
9999	Graded stone	L.S.	13.75	2.12	9999	29.15
9999	Sand	L.S.	21.48	2.12	9999	45.54
9977	Carriage of material	L.S.	16.78	2.12	9977	35.57
	LABOUR					
9999	For PU spray	L.S.	80.54	2.12	9999	170.74
9999	For cement screed with Polythene sheet	L.S.	53.69	2.12	9999	113.82
	Total					
	1008.96					
	Add 1 % Water charges					
	10.09					
	Total					
	1019.05 (X)					
	Add GST 12% on "X" (multiplying factor 0.1405)					
	143.18					
	Total					
	1162.23 (Y)					
	Add 15 % Contractor's profit and overheads					
	174.33					
	Total					
	1336.56					
	Cost of 1 sqm					
	1336.56					
	Add labour cess @ 1%					
	13.37					
	Rate including labour cess					
	1349.93					
	Say		Say	Rs.1349.90	sqm	
12.57x	Providing and fixing thermal insulation with Resin Bonded Fibre glass wool conforming to IS: 8183 having density 24 kg/m3, 50 mm thick, wrapped in 200G Virgin Polythene Bags fixed to wall with screw, rawel plug & washers and held in position by criss crossing GI wire etc. complete as per directions of Engineer-in-Charge.					
	Details of cost for 10 sqm					
	MATERIAL					
	Area for 10.00sqm. (Finished surface) =					
	10.00sqm.+					
	Add Wastage @ 10% =1.00 sqm					
	Total =11.00sqm					
7232	Resin Bonded Glass wool 24 kg/m ³ 50 mm thick	sqm	11.00	130.00	7232	1430.00

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Item No.	Description	Unit	Qty	Rate ₹	Rate Code.	Cost ₹
9999	Sundries including GL wire 20 SWg and Virgin polythene bags 200 gram LABOUR	L.S.	52.00	2.12	9999	110.24
111	Carpenter 1st class	day	0.50	413.00	111	206.50
114	Beldar	day	0.50	306.00	114	153.00
9999	Sundries (screws and washers)	L.S.	20.00	2.12	9999	42.40
	Total					1942.14
	Add 1 % Water charges					19.42
	Total					1961.56 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)					275.60
	Total					2237.16 (Y)
	Add 15 % Contractor's profit and overheads					335.57
	Cost of 10 sqm					2572.73
	Cost of 1 sqm					257.27
	Add labour cess @ 1%					2.57
	Rate including labour cess					259.85
	Say		Say	Rs.259.80	sqm	

12.58x Providing and fixing tiled false ceiling of specified materials of size 595x595 mm in true horizontal level, suspended on interlocking metal grid of hot dipped galvanized steel sections (galvanized @ 120 grams/ sqm, both side inclusive) consisting of main "T" runner with suitably spaced joints to get required length and of size 24x38 mm made from 0.30 mm thick (minimum) sheet, spaced at 1200 mm center to center and cross "T" of size 24x25 mm made of 0.30 mm thick (minimum) sheet, 1200 mm long spaced between main "T" at 600 mm center to center to form a grid of 1200x600 mm and secondary cross "T" of length 600 mm and size 24x25 mm made of 0.30 mm thick (minimum) sheet to be interlocked at middle of the 1200x600 mm panel to form grids of 600x600 mm and wall angle of size 24x24x0.3 mm and laying false ceiling tiles of approved texture in the grid including, required cutting/making, opening for services like diffusers, grills, light fittings, fixtures, smoke detectors etc. Main "T" runners to be suspended from ceiling using GI slotted cleats of size 27 x 37 x 25 x 1.6 mm fixed to ceiling with 12.5 mm dia and 50 mm long dash fasteners, 4 mm GI adjustable rods with galvanized butterfly level clips of size 85 x 30 x 0.8 mm spaced at 1200 mm center to center along main T, bottom exposed width of 24 mm of all T-sections shall be pre-painted with polyester paint, all complete for all heights as per specifications, drawings and as directed by Engineer-in-charge.

12.58x.1 8 mm thick fully perforated calcium silicate board made with Calcareous & Siliceous materials reinforced with cellulose fiber manufactured through autoclaving process to give stable crystalline structure with minimum compressive strength 225 kg/ sq. cm, bending strength 100 kg/sq. cm , of size 595x595 mm, having perforation of dia. 10 mm with minimum perforated area 18 % with non woven tissue on the back side, having an NRC (Noise Reduction Coefficient) of 0.85, with 50 mm thick rockwool of 48 kg /cum backing.

Details of cost for 100 sqm

Ceiling area = 100 sq.m
Add wastage @ 5% = 0.05 Sqm
Total = 100.05 Sq.m

MATERIALS :

8784	8mm thick Calcium silicate perforated tiles of size 595 x595mm	sqm	100.05	850.00	8784	85042.50
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8611	Main T ceiling sections 24x38x0.3 mm (3 metre long)	each	29.50	130.00	8611	3835.00
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Item No.	Description	Unit	Qty	Rate ₹	Rate Code.	Cost ₹
8612	Perimeter wall angle 24x24x0.3mm (3 metre long)	each	13.50	80.00	8612	1080.00
8613	Intermediate cross T-section 24x25x 0.3mm (1.2 mtrs long)	each	147.00	40.00	8613	5880.00
8614	Intermediate cross T-section 24x25x 0.3mm (0.6 mtrs long)	each	147.00	20.00	8614	2940.00
8615	Hanger rod 4 mm thick	each	72.00	10.00	8615	720.00
8616	Adjustment clip 85x30x0.8mm	each	72.00	6.00	8616	432.00
8617	Soffit cleat (Size 27x37x25x1.60mm)	each	72.00	5.00	8617	360.00
7388	Dash hold fastener 12.5 mm dia, 40 mm long with 6 mm dia bolt	each	72.00	10.00	7388	720.00
9977	Sundries	L.S.	89.28	2.12	9977	189.27
9999	Sundries i.e scaffolding etc.	L.S.	187.95	2.12	9999	398.45
	LABOUR :					
111	Carpenter 1st class	day	28.00	413.00	0111	11564.00
114	Beldar	day	23.00	306.00	0114	7038.00
	TOTAL					120199.23
	Add 1 % Water charges					1201.99
	TOTAL					121401.22 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)					17056.87
	Total					138458.09 (Y)
	Add 15 % Contractor's profit and overheads					20768.71
	Cost of 100 sqm.					159226.80
	Cost of 1 sqm.					1592.27
	Add labour cess @ 1%					15.92
	Rate including labour cess					1608.19
	Say		Say	Rs.1608.20	sqm	

12.59x Providing & fixing false ceiling at all height including providing & fixing of framework made of special section, power pressed from M.S. sheets and galvanised with zinc coating of 120 gms/ sqm (both side inclusive) as per IS : 277 and consisting of angle cleat of size 25mm wide x 1.6mm thick with flanges of 27mm and 37mm, at 1200mm c/c, one flange fixed to the ceiling with dash fastener 12.5mm dia x 50mm long with 6mm dia bolts, other flange of cleat fixed to the angle hangers of 25 x10 x0.50mm of required length with nuts & bolts of required size and other end of angle hanger fixed with intermediate G.I channels 45 x15 x 0.90mm running at the spacing of 1200 mm c/ c, to which the ceiling section 0.5mm thick bottom wedge of 80mm with tapered flanges of 26 mm each having lips of 10.5mm, at 450mm c/c, shall be fixed in a direction perpendicular to G.I intermediate channel with connecting clip made out of 2.64mm dia x 230mm long G.I wire at every junction, including fixing perimeter channels 0.50mm thick 27mm high having flanges of 20mm and 30mm long, the perimeter of ceiling fixed to wall/ partitions with the help of Rawl plugs at 450mm centre, with 25mm long dry wall screws @ 230mm interval, including fixing of Calcium Silicate Board to ceiling section and perimeter channels with the help of dry wall screws of size 3.5 x25mm at 230mm c/c, including jointing & finishing to a flush finish of tapered and square edges of the board with recommended jointing compounds, jointing tapes, finishing with jointing compounds in three layers covering up to 150mm on both sides of joints and two coats of primer suitable for boards, all as per manufacture's specification and also including the cost of making opening for light fittings, grills, diffusers, cut outs made with frame of perimeter channels suitably fixed, all complete as per drawings, specification and direction of the Engineer in charge but excluding the cost of painting with:

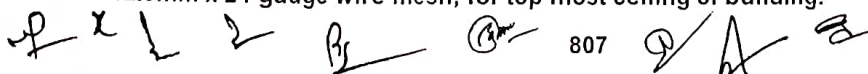
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Item No.	Description	Unit	Qty	Rate ₹	Rate Code.	Cost ₹
12.59.1	8 mm thick Calcium Silicate Board made with Calcareous & Siliceous materials reinforced with cellulose fiber manufactured through autoclaving process.					
	Details of cost for 10.8 m x 9.6m = 103.68					
	sqm MATERIALS Area = 103.68 sq.m +					
	Add. Wastage of 5% = 5.18 Sq m Total =					
	108.86 Sqm					
	MATERIALS :					
8699	8 mm thick tapered edge calcium silicate board	sqm	108.86	270.00	8699	29392.20
7010	G.I Ceiling Section (80 x26mm x26mm x 10.5mm each lip x 0.55 mm)	metre	238.14	46.00	7010	10954.44
7011	Galvanised Steel perimetre Channel (Size 20x27x30x0.50mm)	metre	41.84	22.00	7011	920.48
7012	Galvanised Steel intermediate Channel (Size 15x45x15x0.90mm)	metre	90.72	38.00	7012	3447.36
7013	Galvanised Steel angle hanger (Celling angle) (Size 25x10x0.50mm)	metre	10.80	12.00	7013	129.60
7014	Galvanised Steel connecting clips (2.64mm dia and 230 mm long GI wire)	each	189.00	4.00	7014	756.00
1022	Galvanised steel bolts & nuts 6 mm dia and 25 mmlong round head with slots	10 Nos	21.60	38.00	1022	820.80
8617	Soffit cleat (Size 27x37x25x1.60mm)	each	72.00	5.00	8617	360.00
7020	All drive screws (for gypsum board)	100 Nos	10.00	58.00	7020	580.00
7016	Joint filler	kilogram	22.81	24.00	7016	547.44
7017	Joint finisher	kilogram	34.21	21.00	7017	718.41
7388	Dash hold fastener 12.5 mm dia, 40 mm long with 6 mm dia bolt	each	72.00	10.00	7388	720.00
7018	Joint Tape roll (120mm Roll)	roll	1.27	90.00	7018	114.30
7021	Primer (for gypsum board// calcium silicate board)	litre	18.66	70.00	7021	1306.20
9977	Carriage	L.S.	447.20	2.12	9977	948.06
9999	Sundries i.e rawl plug, scaffolding etc.	L.S.	807.30	2.12	9999	1711.48
	LABOUR :					
112	Carpenter 2nd class	day	31.10	369.00	0112	11475.90
114	Beldar	day	31.10	306.00	0114	9516.60
131	Painter	day	10.37	391.00	0131	4054.67
	TOTAL					
	Add 1 % Water charges					
	TOTAL					
	Add GST 12% on "X" (multiplying factor 0.1405)					
	Total					
	Add 15 % Contractor's profit and overheads					
	Cost of 103.68 sqm.					
	Cost of 1 sqm.					
	Add labour cess @ 1%					
	Rate including labour cess					
	Say					
		Say		Rs.1012.70	sqm	1012.67

12.60X Providing and fixing thermal insulation of ceiling (under deck insulation) with Resin Bonded Rockwool conforming to IS: 8183, density 48 kg/ m3, 50 mm thick, wrapped in 200 G Virgin Polythene bags fixed to ceiling with metallic cleats (50x50x3 mm) @ 60 cm and wire mesh of 12.5mm x 24 gauge wire mesh, for top most ceiling of building.

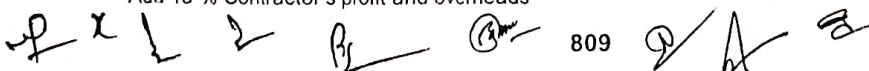

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Item No.	Description	Unit	Qty	Rate ₹	Rate Code.	Cost ₹
Details of cost for 10 sqm						
Area for 10.00 sqm.						
(Finished surface)=10.00sqm. + Add 10% for overlappings &wastage= 1.00sqm.						
Total= 11.00sqm						
7273	Resin Bonded Rockwool 48 kg/m3	sqm	11.00	110.00	7273	1210.00
9999	Sundries including GI wire 20 SWG and polythene bags 200gms	L.S.	104.00	2.12	9999	220.48
9999	GI chicken mesh 12.5mm x 24 SWG	L.S.	351.00	2.12	9999	744.12
LABOUR						
111	Carpenter 1st class	day	1.00	413.00	0111	413.00
114	Beldar	day	2.00	306.00	0114	612.00
TOTAL						3199.60
Add 1 % Water charges						32.00
TOTAL						3231.60 (X)
Add GST 12% on "X" (multiplying factor 0.1405)						454.04
Total						3685.64 (Y)
Add 15 % Contractor's profit and overheads						552.85
Cost of 10 sqm.						4238.48
Cost of 1 sqm.						423.85
Add labour cess @ 1%						4.24
Rate including labour cess						428.09
Say			Say	Rs.428.10	sqm	
12.61X Providing and fixing thermal insulation with Resin bonded rock wool conforming to IS: 8183, density 48 kg/m3, 50 mm thick, wrapped in 200 G virgin Polythene bags placed over existing false ceiling and held in position by criss- crossing GI wire.						
Details of cost for 10 sqm						
Area for 10.00sqm. (Finished surface)=10.00sqm.+ Add 10% for overlappings &wastage= 1.00sqm. Total= 11.00sqm						
7273	Resin Bonded Rockwool 48 kg/m3	sqm	11.00	110.00	7273	1210.00
9999	Sundries including GI wire 20 SWG and polythene bags 200gms	L.S.	52.00	2.12	9999	110.24
LABOUR						
111	Carpenter 1st class	day	0.50	413.00	0111	206.50
114	Beldar	day	0.50	306.00	0114	153.00
TOTAL						1679.74
Add 1 % Water charges						16.80
TOTAL						1696.54 (X)
Add GST 12% on "X" (multiplying factor 0.1405)						238.36
Total						1934.90 (Y)
Add 15 % Contractor's profit and overheads on "Y"						290.24
Cost of 10 sqm						2225.14
Cost of 1 sqm						222.51
Add labour cess @ 1%						2.23
Rate including labour cess						224.74
Say			Say	Rs.224.70	sqm	

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Item No.	Description	Unit	Qty	Rate ₹	Rate Code.	Cost ₹
12.62X	Providing and fixing thermal insulation with Resin Bonded rock wool conforming to IS: 8183, having density 48 kg/m³, 50 mm thick, wrapped in 200 G Virgin Polythene Bags fixed to wall with screw, rawel plug & washers and held in position by criss crossing GI wire etc. complete as per directions of Engineer-in-Charge.					
	Details of cost for 10 sqm Area for 10.00sqm. (Finished surface)=10.00sqm. + Add 10% for overlappings & wastage= 1.00sqm. Total= 11.00sqm					
7273	Resin Bonded Rockwool 48 kg/m ³	sqm	11.00	110.00	7273	1210.00
9999	Sundries including GI wire 20 SWG and Virgin polythene bags 200 gram and Carriage	L.S.	52.00	2.12	9999	110.24
	LABOUR					
111	Carpenter 1st class	fay	0.50	413.00	0111	206.50
114	Beldar	fay	0.50	306.00	0114	153.00
9999	Sundries (screws & washers)	L.S.	20.00	2.12	9999	42.40
	TOTAL					
	Add 1 % Water charges					1722.14
	TOTAL					17.22
	Add GST 12% on "X" (multiplying factor 0.1405)					1739.36 (X)
						244.38
	Total					
	Add 15 % Contractor's profit and overheads					1983.74 (Y)
	Cost of 10 sqm					297.56
	Cost of 1 sqm					2281.30
	Add labour cess @ 1%					228.13
	Rate including labour cess					2.28
	Say					230.41
			Say	Rs.230.40	sqm	
12.63X	Providing and applying two coats of High Albedo paint having minimum Solar Reflective Index (SRI) 108 (with solar reflectance & thermal emittance tested as per ASTM) C 1549 and ASTM C 1371 respectively), VOC less than 10 cc/gm. The coating thickness and the methodology of application shall strictly as per manufacturer's specifications and as approved by Engineer-in-Charge. Surface preparation includes cleaning with metal wire brush to remove all dust, fungus etc., washing with water all complete. The contractor shall give guarantee for the performance of SRI and also the durability of coating, all complete as per direction of Engineer-in-Charge.					
	Details of cost for 10 Sqm. MATERIALS :					
7238	High Albedo paint	kg	7.17	215.00	7238	1541.55
9977	Carriage of paint	L.S.	4.53	2.12	9977	9.60
	LABOUR :					
114	Beldar (for cleanign the surface)	day	0.54	306.00	0114	165.24
131	Painter	day	0.54	391.00	0131	211.14
9999	Sundries (Brushes & T&P etc.	L.S.	13.52	2.12	9999	28.66
	MACHINERY :					
	TOTAL					
	Add 1 % Water charges					1956.20
	TOTAL					19.56
	Add GST 12% on "X" (multiplying factor 0.1405)					1975.76 (X)
						277.59
	Total					
	Add 15 % Contractor's profit and overheads					2253.35 (Y)
						338.00


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Item No.	Description	Unit	Qty	Rate ₹	Rate Code.	Cost ₹
	Cost of 10 Sqm					2591.35
	Cost of 1 Sqm.					259.14
	Add labour cess @ 1%					2.59
	Rate including labour cess					261.73
	Say		Say	Rs.261.70	sqm	
12.64X	Providing & fixing at all heights, levels and locations Mill finish Aluminium alloy roofing sheets of alloy IS designation 31500, temper Hx8 conforming to IS 737 and dimensions as per IS code 2676 with characteristics of good formability and corrosion resistance. The profile sheets shall be fixed to truss members in slope or required pitch or curvature with Hex cap headed self drilling/tapping Stainless steel screws M6, 60 mm long with 3 mm EPDM seal washer etc. all inclusive of labour, scaffolding, T&P and sundries etc. complete as per directions of the Engineer-In-Charge. (Cost of truss/frame work shall be paid separately).					
12.64X.1	0.56 mm, Aluminium troughed profile with center to center pitch of 200 mm, depth of 32 mm, overall profile width 1092 mm, cover width 1000mm					
	Details of cost for 216.14 sqm. Consider a shed of 20x10 meters. (External dimensions of plinth) Area of roof- 20.20x10.70m = 216.14 sqm. MATERIAL: Sheets used = 20 Nos x 10.70m x 1.092m = 233.69 sqm. Add 3% wastage = 7.01 sqm Total = 240.70 sqm					
NA	Aluminium troughed profile sheet 0.56mm	sqm	240.7	549	NA	132144.30
9999	Carriage of sheets	L.S.	104	2.12	9999	220.48
NA	Stainless steel self tapping screw of 6x60mm with SS hex cap and 3mm thick EPDM seal (per sqm 4 nos) 216.14x4=864.55 no's	100 Nos	8.65	500	NA	4325.00
9999	Carriage of screws, washers	L.S.	8.06	2.12	9999	17.09
9999	Sundries	L.S.	39.52	2.12	9999	83.78
	LABOUR:					
0 130	Mistry	day	2.34	306.00	0 130	716.04
0 112	Carpenter 2nd class	day	9.34	369.00	0 112	3446.46
0 114	Beldar	day	9.34	306.00	0 114	2858.04
	Total					143811.19 W
	Add 1% Water charges on "W"					1438.11
	TOTAL					145249.30 X
	Add GST on "X" (multiplying factor 0.1405)					20407.53
	TOTAL					165656.83 Y
	Add 15% CPOH on "y"					24848.52
	TOTAL					190505.35 Z
	Add Cess @ 1% on "Z"					1905.05
	Cost of 216.14 sqm					192410.41
	Cost of 1 sqm					890.21
	Say		Say	890.20	per sqm	

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Item No.	Description	Unit	Qty	Rate ₹	Rate Code.	Cost ₹
12.64X.2	0.71 mm, troughed profile with center to center pitch of 200 mm, depth of 32 mm, overall profile width 1092 mm, cover width 1000mm.					
	Details of cost for 216.14 sqm. Consider a shed of 20x10 meter (External dimensions of plinth) Area of roof- 20.20x10.70m = 216.14 sqm. MATERIAL: - Sheets used = 20 Nos x 10.70mx1.092m= 233.69sqm. Add 3% wastage = 7.01sqm Total= 240.70 sqm					
NA	Aluminium troughed profile sheet 0.71mm	sqm	240.70	698.00	NA	168008.60
9999	Carriage of sheets	LS.	104.00	2.12	9999	220.48
NA	Stainless steel self tapping screw of 6x60mm with SS hex cap and 3mm thick EPDM seal (per sqm 4 nos) 216.14x4=864.55 no's	100 Nos	8.65	500.00	NA	4325.00
9999	Carriage of screws, washers	LS.	8.06	2.12	9999	17.09
	Sundries	L.S.	37.52	2.12	9999	79.54
	LABOUR:					
0 130	Mistry	day	2.34	306.00	0 130	716.04
0 112	Carpenter 2nd class	day	9.34	369.00	0 112	3446.46
0 114	Beldar	day	9.34	306.00	0 114	2858.04
	Total					179671.25 W
	Add 1 % Water charges on "W"					1796.71
	TOTAL					181467.96 X
	Add GST on "X" (multiplying factor 0.1405)					25496.25
	TOTAL					206964.21 Y
	Add 15% CPOH on "Y"					31044.63
	TOTAL					238008.84 Z
	Add Cess @ 1% on "Z"					2380.09
	Cost of 216.14 sqm					240388.93
	Cost of 1 sqm					1112.19
	Say		Say	1112.20	per sqm	

12.64X.3 0.91 mm, troughed profile with center to center pitch of 200 mm, depth of 32 mm, overall profile width 1092 mm, cover width 1000mm.

Description .
Details of cost for 216.14 sqm. Consider a shed of 20 x 10 meters. (External dimensions of plinth)
Area of roof- 20.20x10.70m = 216.14 sqm.
MATERIAL:
Sheets used = 20 Nos x 10.70mx1.092m= 233.69sqm.
Add 3% wastage= 7.01sqm
Total= 240.70 sqm

NA	Aluminium troughed profile sheet 0.91mm	sqm	240.70	895.00	NA	215426.50
9999	Carriage of sheets	LS.	104.00	2.12	9999	220.48
	Stainless steel self tapping screw of 6x60mm with SS hex cap and 3mm thick EPDM seal (per sqm 4 nos) 216.14x4=864.55 no's	100 Nos	8.65	500.00	NA	4325.00
9999	Carriage of screws, washers	L.S.	8.06	2.12	9999	17.09
9999	Sundries	L.S.	39.52	2.12	9999	83.78

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Item No.	Description	Unit	Qty	Rate ₹	Rate Code.	Cost ₹
	LABOUR:					
0 130	Mistry	day	2.34	306.00	0 130	716.04
0 112	Carpenter 2nd class	day	9.34	369.00	0 112	3446.46
0 114	Beldar	day	9.34	306.00	0 114	2858.04
	Total					227093.39 W
	Add 1 % Water charges on "W"					2270.93
	TOTAL					229364.32 X
	Add GST on "X" (multiplying factor 0.1405)					32225.69
	TOTAL					261590.01 Y
	Add 15% CPOH on "y"					39238.50
	TOTAL					300828.51 Z
	Add Cess @ 1% on "Z"					3008.29
	Cost of 216.14 sqm					303836.80
	Cost of 1sqm					1405.74
	Say			1405.70	per sqm	
12.64X.4	0.56mm Aluminium profile with center to center pitch of 175 mm, depth of 46mm, top crest width of 41mm, bottom valley width of 80mm, overall profile width of 1144mm, cover width 1050mm.					
	Description					
	Details of cost for 216.14sqm. Consider a shed of 20 x10meters(External dimensions of plinth)					
	Area of roof- 20.20x10.70m = 216.14 sqm.					
	MATERIAL:					
	Sheets used = 19 Nos x 10.70mx1.144m=					
	232.58sqm + Add 3% wastage= 6.98sqm					
	Total= 239.56 sqm					
NA	Aluminium profile sheet 0.56mm	sqm	239.56	730.00	NA	174878.80
9999	Carriage of sheets	L.S.	104.00	2.12	9999	220.48
NA	Stainless steel self tapping screw of 6x60mm with ss hex cap and 3mm thick EPDM seal(per sqm 4 nos) 216.14x4=864.55 no's	100 Nos	8.65	500.00	NA	4325.00
	Carriage of screws, washers	L.S.	8.06	2.12	9999	17.09
9999	Sundries	L.S.	39.52	2.12	9999	83.78
	LABOUR:					0.00
0 130	Mistry	day	2.34	306.00	0 130	716.04
0 112	Carpenter 2nd class	day	9.34	369.00	0 112	3446.46
0 114	Beldar	day	9.34	306.00	0 114	2858.04
	TOTAL					186545.69 W
	Add 1% Water charges on "W"					1865.46
	TOTAL					188411.15 X
	Add GST on "X" (multiplying factor 0.1405)					26471.77
	TOTAL					214882.91 Y
	Add 15% CPOH on "y"					32232.44
	TOTAL					247115.35 Z
	Add Cess @ 1 % on "Z"					2471.15
	Cost of 216.14 sqm					249586.50
	Cost of 1 sqm					1154.74
	Say			1154.70	per sqm	
12.64X.5	0.71mm Aluminium profile with center to center pitch of 175 mm,depth of 46mm, top crest width of 41mm, bottom valley width of 80mm, overall profile width of 1144mm cover width 1050mm.					
	Details of cost for 216.14 sqm.					
	Consider a shed of 20 x 10 meters. (External dimensions of plinth)					
	Area of roof- 20.20x10.70m = 216.14 sqm.					
	MATERIAL:					
	Sheets used =19 Nos x10.70mx 1.144m=					
	232.58sqm.					
	Add 3% wastage= 6.98sqm					
	Total= 239.56 sqm					

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Item No.	Description	Unit	Qty	Rate ₹	Rate Code.	Cost ₹
NA	Aluminium profile sheet 0.71mm	sqm	239.56	924.00	NA	221353.44
9999	Carriage of sheets	LS.	104.00	2.12	9999	220.48
NA	Stainless steel self tapping screw of 6x60mm with ss hex cap and 3mm thick EPDM seal(per sqm 4 nos) 216.14x4=864.55 no's	100 Nos	8.65	500.00	NA	4325.00
	Carriage of screws, washers	L.S.	8.06	2.12	9999	17.09
	Sundries	LS.	39.52	2.12	9999	83.78
	LABOUR:					
0 130	Mistry	day	2.34	306.00	0 130	716.04
0 112	Carpenter 2nd class	day	9.34	369.00	0 112	3446.46
0 114	Beldar	day	9.34	306.00	0 114	2858.04
	Total					233020.33 W
	Add 1% Water charges on "W"					2330.20
	TOTAL					235350.53 X
	Add GST on "X" (multiplying factor 0.1405)					33066.75
	TOTAL					268417.28 Y
	Add 15% CPOH on "Y"					40262.59
	TOTAL					308679.88 Z
	Add Cess @ 1% on "Z"					3086.80
	Cost of 216.14 sqm					311766.67
	Cost of 1 sqm					1442.43
	Say		Say	1442.40	per sqm	
12.64X.6	0.91mm Aluminium profile with center to center pitch of 175 mm, depth of 46mm, top crest width of 41mm, bottom valley width of 80mm, overall profile width of 1144mm,cover width 1050mm.					
	Details of cost for 216.14 sqm.					
	Consider a shed of 20 x 10 meters.					
	(External dimensions of plinth)					
	Area of roof- 20.20x10.70m = 216.14 sqm.					
	MATERIAL:					
	Sheets used =19 Nos x 10.70m x 1.144m=					
	232.58sqm.					
	Add 3% wastage= 6.98sqm					
	Total= 239.56 sqm					
9999	Aluminium profile sheet 0.91mm	sqm	239.56	1182.00	NA	283159.92
9999	Carriage of sheets	L.S.	104.00	2.12	9999	220.48
NA	Carriage of sheets	100 Nos	8.65	500.00	NA	4325.00
	Stainless steel self tapping screw of 6x60mm with 55 hex cap and 3mm thick EPDM seal(per sqm 4 nos) 216.14x4=864.55 no's					
9999	Carriage of screws, washers	L.S.	8.06	2.12	9999	17.09
9999	Sundries	L.S.	39.52	2.12	9999	83.78
	LABOUR:					
0 130	Mistry	day	2.34	306.00	0 130	716.04
0 112	Carpenter 2nd class	day	9.34	369.00	0 112	3446.46
0 114	Beldar	day	9.34	306.00	0 114	2858.04
	Total					294826.81 W
	Add 1 % Water charges on "W"					2948.27
	TOTAL					297775.08 X
	Add GST on "X" (multiplying factor 0.1405)					41837.40
	TOTAL					339612.48 Y
	Add 15% CPOH on "Y"					50941.87


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Item No.	Description	Unit	Qty	Rate ₹	Rate Code.	Cost ₹
	TOTAL					390554.35 Z
	Add Cess @ 1% on "Z"					3905.54
	Cost of 216.14 sqm					394459.89
	Cost of 1 sqm					1825.02
	Say		Say	1825.00	per sqm	
12.64X.7	0.56mm Aluminium Circular (sinusoidal) profile with center to center pitch of 75 mm, depth of 19 mm, overall profile width 1250mm,cover width 1150mm.					
	Details of cost for 216.14 sqm. Consider a shed of 20x 10 meters. (External dimensions of plinth) Area of roof- 20.20x10.70m = 216.14 sqm. MATERIAL: Sheets used = 18 Nos x 10.70mx1.250m= Total= 240.75sqm. Add 3% wastage= 7.22sqm Total= 247.97sqm					
NA	Aluminium Circular(sinusoidal) profile sheet 0.56mm	sqm	247.97	520.00	NA	128944.40
9999	Carriage of sheets	L.S.	104	2.12	9999	220.48
NA	Stainless steel self tapping screw of 6x60mm with SS hex cap and 3mm thick EPDM seal(per sqm 4 nos) 216.14x4=864.55 no's	100 Nos	8.65	500.00	NA	4325.00
9999	Carriage of screws, washers	L.S.	8.06	2.12	9999	17.09
9999	Sundries	L.S.	39.52	2.12	9999	83.78
	LABOUR:					
0 130	Mistry	day	2.34	306.00	0 130	716.04
0 112	Helper	day	9.34	369.00	0 112	3446.46
0 114	Beldar	day	9.34	306.00	0 114	2858.04
	Total					140611.29 W
	Add 1 % Water charges on "W"					1406.11
	TOTAL					142017.40 X
	Add GST on "X" (multiplying factor 0.1405)					19953.45
	TOTAL					161970.85 Y
	Add 15% CPOH on "Y"					24295.63
	TOTAL					186266.47 Z
	Add Cess @ 1% on "Z"					1862.66
	Cost of 216.14 sqm					188129.14
	Cost of 1 sqm					870.40
	Say		Say	870.40	per sqm	
12.64X.8	0.71mm Aluminium Circular (sinusoidal) profile with center to center pitch of 75 mm,depth of 19 mm, overall profile width 1250mm,cover width 1150mm.					
	Description Details of cost for 216.14 sqm. Consider a shed of 20 x 10 meters. (External dimensions of plinth) Area of roof- 20.20x10.70m = 216.14 sqm. MATERIAL: Sheets used= 18 Nos x 10.70mx1.250m= Total= 240.75sqm. Add 3% wastage= 7.22sqm Total= 247.97sqm					

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Item No.	Description	Unit	Qty	Rate ₹	Rate Code.	Cost ₹
NA	Aluminium Circular(sinusoidal) profile sheet 0.71mm	sqm	247.97	670.00	NA	166139.90
	Carriage of sheets	L.S.	104.00	2.12	9999	220.48
NA	Stainless steel self tapping screw of 6x60mm with SS hex cap and 3mm thick EPDM seal (per sqm 4 nos) 216.14x4=864.55 no's	100 Nos	8.65	500.00	NA	4325.00
9999	Carriage of screws, washers	L.S.	8.06	2.12	9999	17.09
9999	Sundries	L.S.	39.52	2.12	9999	83.78
	LABOUR:					0.00
0 130	Mistry	day	2.34	306.00	0 130	716.04
0 112	Helper	day	9.34	369.00	0 112	3446.46
0 114	Beldar	day	9.34	306.00	0 114	2858.04
	Total					177806.79 W
	Add 1 % Water charges on "W"					1778.07
	TOTAL					179584.86 X
	Add GST on "X" (multiplying factor 0.1405)					25231.67
	TOTAL					204816.53 Y
	Add 15% CPOH on "Y"					30722.48
	TOTAL					235539.01 Z
	Add Cess @ 1% on "Z"					2355.39
	Cost of 216.14 sqm					237894.40
	Cost of 1 sqm					1100.65
	Say		Say	1100.60	per sqm	

12.64X.9 0.91mm Aluminium Circular (sinusoidal) profile with center to center pitch of 75 mm,depth of 19 mm, overall profile width 1250mm,cover width 1150mm.

Details of cost for 216.14 sqm. Consider a shed of 20x 10 meters. (External dimensions of plinth)

Area of roof- 20.20x10.70m = 216.14 sqm.

MATERIAL:


Sheets used= 18 Nos x 10.70mx1.250m=

Total= 240.75sqm.

Add 3% wastage= 7.22sqm

Total= 247.97sqm

NA	Aluminium Circular(sinusoidal) profile sheet 0.91mm	sqm	247.97	870.00	NA	215733.90
9999	Carriage of sheets	L.S.	104.00	2.12	9999	220.48
1023	Stainless steel self tapping screw of 6x60mm with SS hex cap and 3mm thick EPDM seal(per sqm 4 nos) 216.14x4=864.55 no's	100 Nos	8.65	500.00	1023	4325.00
9999	Carriage of screws, washers	L.S.	8.06	2.12	9999	17.09
9999	Sundries	L.S.	39.52	2.12	9999	83.78
	LABOUR:					
0 130	Mistry	day	2.34	306.00	0 130	716.04
0 112	Helper	day	9.34	369.00	0 112	3446.46
0 114	Beldar	day	9.34	306.00	0 114	2858.04
	Total					227400.79 W
	Add 1 % Water charges on "W"					2274.01

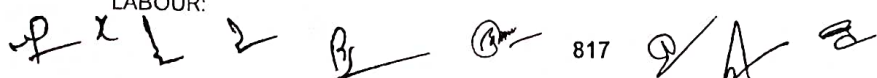

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Item No.	Description	Unit	Qty	Rate ₹	Rate Code.	Cost ₹
	TOTAL					229674.80 X
	Add GST on "X" (multiplying factor 0.1405)					32269.31
	TOTAL					261944.11 Y
	Add 15% CPOH on "y"					39291.62
	TOTAL					301235.72 Z
	Add Cess @ 1% on "Z"					3012.36
	Cost of 216.14 sqm					304248.08
	Cost of 1 sqm					1407.64
	Say		Say	1407.60	per sqm	
12.65X	Providing & fixing at all heights, levels and locations colour finish Aluminium alloy roofing sheets of alloy IS designation 31500, temper Hx8 conforming to IS 737 and dimensions as per IS code 2676 with characteristics of good formability and corrosion resistance. The profile sheets shall be fixed to truss members in slope or required pitch or curvature with Hex cap headed self drilling/tapping Stainless steel screws M6, 60 mm long with 3 mm EPDM seal washer etc. all inclusive of labour, scaffolding, T&P and sundries etc. complete as per directions of the Engineer-In-Charge. {Cost of truss/frame work shall be paid separately).					
12.65X.1	0.56 mm, Aluminium Color coated troughed profile with center to center pitch of 200 mm, depth of 32 mm, overall profile width 1092 mm, cover width 1000mm					
	Details of cost for 216.14 sqm. Consider a shed of 20 x 10 meters.					
	{External dimensions of plinth}					
	Area of roof- 20.20x10.70m = 216.14 sqm					
	MATERIAL:					
	Sheets used = 20 Nos x 10.70mx1.092m = 233.69sqm.					
	Add 3% wastage= 7.0lsqm					
	Total= 240.70 sqm					
NA	Precoated Aluminium troughed profile sheet 0.56mm	sqm	240.70	636.00	NA	153085.20
9999	Carriage of sheets	L.S.	104.00	2.12	9999	220.48
	Stainless steel self tapping screw of 6x60mm with SS hex cap and 3mm thick EPDM seal(per sqm 4 nos) 216.14x4=864.55 no's	100 Nos	8.65	500.00	NA	4325.00
9999	Carriage of screws, washers	L.S.	8.06	2.12	9999	17.09
9999	Sundries	L.S.	39.52	2.12	9999	83.78
	LABOUR:					
0 130	Mistry	day	2.34	306.00	0 130	716.04
0 112	Carpenter 2nd class	day	9.34	369.00	0 112	3446.46
0 114	Beldar	day	9.34	306.00	0 114	2858.04
	Total					164752.09 W
	Add 1% Water charges on "W"					1647.52
	TOTAL					166399.61 X
	Add GST on "X" (multiplying factor 0.1405)					23379.15
	TOTAL					189778.76 Y
	Add 15% CPOH on "y"					28466.81
	TOTAL					218245.57 Z
	Add Cess @ 1% on "Z"					2182.46
	Cost of 216.14 sqm					220428.02
	Cost of 1 sqm					1019.84
	Say		Say	1019.80	per sqm	

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Item No.	Description	Unit	Qty	Rate ₹	Rate Code.	Cost ₹
12.65X.2	0.71 mm, Aluminium Color coated troughed profile with center to center pitch of 200 mm, depth of 32 mm, overall profile width 1092 mm, cover width 1000mm. Details of cost for 216.14 sqm. Consider a shed of 20x 10 meters. (External dimensions of plinth) Area of roof- 20.20x10.70m = 216.14 sqm. MATERIAL: Sheets used = 20 Nos x 10.70m x 1.092m = 233.69sqm. Add 3% wastage= 7.0lsqm Total= 240.70 sqm					
	Precoated Aluminium troughed profile sheet 0.71mm	sqm	240.7	809	NA	194726.30
	Carriage of sheets	L.S.	104	2.12	9999	220.48
	Stainless steel self tapping screw of 6x60mm with SS hex cap and 3mm thick	100 Nos	8.65	500	NA	4325.00
	EPDM seal(per sqm 4 nos) 216.14x4=864.55 no's					
	Carriage of screws, washers	L.S.	8.06	2.12	9999	17.09
	Sundries	L.S.	39.52	2.12	9999	83.78
	LABOUR:					
	Mistry	day	2.34	306.00	0 130	716.04
	Carpenter 2nd class	day	9.34	369.00	0 112	3446.46
	Beldar	day	9.34	306.00	0 114	2858.04
	Total					206393.19 W
	Add 1 % Water charges on "W"					2063.93
	TOTAL					208457.12 X
	Add GST on "X" (multiplying factor 0.1405)					29288.23
	TOTAL					237745.35 Y
	Add 15% CPOH on "y"					35661.80
	TOTAL					273407.15 Z
	Add Cess @ 1% on "Z"					2734.07
	Cost of 216.14 sqm					276141.22
	Cost of 1 sqm					1277.60
	Say		Say	1277.60	per sqm	
12.65X.3	0.91 mm, Aluminium Color coated troughed profile with center to center pitch of 200 mm, depth of 32 mm, overall profile width 1092 mm, cover width 1000mm. Details of cost for 216.14 sqm. Consider a shed of 20 x 10 meters. (External dimensions of plinth) Area of roof- 20.20x10.70m = 216.14 sqm. MATERIAL: Sheets used = 20 Nos x 10.70mx1.092m =233.69sqm.Add 3% wastage= 7.0lsqm Total= 240.70 sqm					
	Precoated Aluminium troughed profile sheet 0.91mm	sqm	240.70	1038.00	NA	249846.60
	Carriage of sheets	L.S.	104.00	2.12	9999	220.48
	Stainless steel self tapping screw of 6x60mm with SS hex cap and 3mm thick	100 Nos	8.65	500.00	NA	4325.00
	EPDM seal(per sqm 4 nos) 216.14x4=864.55 no's					
	Carriage of screws, washers	L.S.	8.06	2.12	9999	17.09
	Sundries	L.S.	39.52	2.12	9999	83.78
	LABOUR:					


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Item No.	Description	Unit	Qty	Rate ₹	Rate Code.	Cost ₹
	Mistry	day	2.34	306.00	0 130	716.04
	Carpenter 2nd class	day	9.34	369.00	0 112	3446.46
	Beldar	day	9.34	306.00	0 114	2858.04
	Total					261513.49 W
	Add 1 % Water charges on "W"					2615.13
	TOTAL					264128.62 X
	Add GST on "X" (multiplying factor 0.1405)					37110.07
	Total					301238.70 Y
	Add 15% CPOH on "Y"					45185.80
	TOTAL					346424.50 Z
	Add Cess @ 1% on "Z"					3464.25
	Cost of 216.14 sqm					349888.75
	Cost of 1 sqm					1618.81
	Say		Say	1618.80	per sqm	
12.65X.4	0.56mm Aluminium color profile with center to center pitch of 175 mm, depth of 46mm, top crest width of 41mm, bottom valley width of 80mm, overall profile width of 1144mm, cover width 1050mm.					
	Details of cost for 216.14 sqm. Consider a shed of 20 x 10 meters. (External dimensions of plinth) Area of roof- 20.20x10.70m = 216.14 sqm.					
	MATERIAL:					
	Sheet used =19 Nosx 10.70mx1.144m= 232.58sqm.Add 3% wastage= 6.98sqm Total= 239.56 sqm					
	Aluminium color coated profile sheet 0.56mm	sqm	239.56	846.00	NA	202667.76
	Carriage of sheets	L.S.	104.00	2.12	9999	220.48
	Stainless steel self tapping screw of 6x60 mm with SS hex cap and 3mm thick EPDM seal(per sqm 4 nos) 216.14x4 = 864.55 no's	100 Nos	8.65	500.00	NA	4325.00
	Carriage of screws, washers	L.S.	8.06	2.12	9999	17.09
	Sundries	L.S.	39.52	2.12	9999	83.78
	LABOUR:					
	Mistry	day	2.34	306.00	0 130	716.04
	Carpenter 2nd class	day	9.34	369.00	0 112	3446.46
	Beldar	day	9.34	306.00	0 114	2858.04
	Total					214334.65 W
	Add 1 % Water charges on "W"					2143.35
	TOTAL					216478.00 X
	Add GST on "X" (multiplying factor 0.1405)					30415.16
	TOTAL					246893.15 Y
	Add 15% CPOH on "Y"					37033.97
	TOTAL					283927.13 Z
	Add Cess @ 1% on "Z"					2839.27
	Cost of 216.14 sqm					286766.40
	Cost of 1 sqm					1326.76
	Say		Say	1326.80	per sqm	

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Item No.	Description	Unit	Qty	Rate ₹	Rate Code.	Cost ₹
12.65X.5	<p>0.71mm Aluminium color coated profile with center to center pitch of 175 mm, depth of 46mm, top crest width of 41mm, bottom valley width of 80mm, overall profile width of 1144mm, cover width 1050mm.</p> <p>Details of cost for 216.14 sqm. Consider a shed of 20 x 10 meters. (External dimensions of plinth) Area of roof- 20.20x10.70m = 216.14 sqm. MATERIAL: Sheets used = 19 Nos x 10.70mx1.144m= 232.58sqm. Add 3% wastage= 6.98sqm Total= 239.56 sqm</p>					
	Aluminium color coated profile sheet 0.71mm	sqm	239.56	1071.00	NA	256568.76
	Carriage of sheets	L.S.	104.00	2.12	9999	220.48
	Stainless steel self tapping screw of 6x60mm with ss hex cap and 3mm thick EPDM seal(per sqm 4 nos) 216.14x4=864.55 no's	100 Nos	8.65	500.00	NA	4325.00
	Carriage of screws, washers	L.S.	8.06	2.12	9999	17.09
	Sundries	L.S.	39.52	2.12	9999	83.78
	LABOUR:					
	Mistry	day	2.34	306.00	0 130	716.04
	Carpenter 2nd class	day	9.34	369.00	0 112	3446.46
	Beldar	day	9.34	306.00	0 114	2858.04
	Total					268235.65 W
	Add 1% Water charges on "W"					2682.36
	TOTAL					270918.01 X
	Add GST on "X" (multiplying factor 0.1405)					38063.98
	TOTAL					308981.99 Y
	Add 15% CPOH on "y"					46347.30
	TOTAL					355329.28 Z
	Add Cess @ 1% on "Z"					3553.29
	Cost of 216.14 sqm					358882.58
	Cost of 1 sqm					1660.42
	Say			Say	1660.40	per sqm
12.65X.6	<p>0.91mm Aluminium color coated profile with center to center pitch of 175 mm, depth of 46mm, top crest width of 41mm, bottom valley width of 80mm, overall profile width of 1144mm, cover width 1050mm.</p> <p>Details of cost for 216.14 sqm. Consider a shed of 20 x 10 meters. (External dimensions of plinth) Area of roof- 20.20x10.70m = 216.14 sqm. MATERIAL: Sheets used = 19 Nos x 10.70mx1.144m= 232.58sqm + Add 3% wastage= 6.98sqm Total= 239.56 sqm</p>					
	Aluminium color coated profile sheet 0.91mm	sqm	239.56	1370	NA	328197.20

BCD Analysis of Rates 2022

Item No.	Description	Unit	Qty	Rate ₹	Rate Code.	Cost ₹
	Carriage of sheets	L.S.	104	2.12	9999	220.48
	Stainless steel self tapping screw of 6x60mm with SS hex cap and 3mm thick	100 Nos	8.65	500	NA	4325.00
	EPDM seal(per sqm 4 nos) 216.14x4=864.55 no's					
	Carriage of screws, washers	L.S.	8.06	2.12	9999	17.09
	Sundries	L.S.	39.52	2.12	9999	83.78
	LABOUR:					0.00
	Mistry	day	2.34	306.00	0 130	716.04
	Carpenter 2nd class	day	9.34	369.00	0 112	3446.46
	Beldar	day	9.34	306.00	0 114	2858.04
	Total					339864.09 W
	Add 1 % Water charges on "W"					3398.64
	TOTAL					343262.73 X
	Add GST on "X" (multiplying factor 0.1405)					48228.41
	TOTAL					391491.14 Y
	Add 15% CPOH on "y"					58723.67
	TOTAL					450214.82 Z
	Add Cess @ 1% on "Z"					4502.15
	Cost of 216.14 sqm					454716.96
	Cost of 1 sqm					2103.81
	Say		Say	2103.80	per sqm	

12.65X7 0.56 mm Aluminium profile with center to center pitch of 177.5 mm, depth of 28.5 mm, 987mm overall profile width, cover

Details of cost for 216.14 sqm.

Consider a shed of 20 x 10 meters.

(External dimensions of plinth)

Area of roof- 20.20x10.70m = 216.14 sqm.

MATERIAL:

Sheets used = 22 Nos x 10.

70mx0.987m=

232.34sqm.

Add 3% wastage= 6.97sqm

Total= 239.31 sqm

Aluminium profile sheet 0.56mm	sqm	239.31	680	NA	162730.80
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Carriage of sheets	LS.	104	2.12	9999	220.48
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Stainless steel self tapping screw of 6x60mm with SS hex cap and 3mm thick	100 Nos	8.65	500	NA	4325.00
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EPDM seal(per sqm 4 nos) 216.14x4=864.55 no's					
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Carriage of screws, washers	L.S.	8.06	2.12	9999	17.09
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Sundries	L.S.	39.52	2.12	9999	83.78
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LABOUR:					
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Mistry	day	2.34	306.00	0 130	716.04
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Carpenter 2nd class	day	9.34	369.00	0 112	3446.46
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Beldar	day	9.34	306.00	0 114	2858.04
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Total					174397.69 W
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Add 1 % Water charges on "W"					1743.98
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TOTAL					176141.67 X
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Add GST on "X" (multiplying factor 0.1405)					24747.90
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TOTAL					200889.57 Y
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Add 15% CPOH on "Y"					30133.44
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TOTAL					231023.01 Z
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Add Cess @ 1 % on "Z"					2310.23
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Cost of 216.14 sqm					233333.24
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Item No.	Description	Unit	Qty	Rate ₹	Rate Code.	Cost ₹
	Cost of 1 sqm					1079.55
	Say		Say	1079.50	per sqm	
12.65X.8	0.71 mm Aluminium profile with center to center pitch of 177.5 mm, depth of 28.5 mm, 987mm overall profile width, cover width 900mm					
	Details of cost for 216.14 sqm. Consider a shed of 20 x 10 meters. (External dimensions of plinth) Area of roof- 20.20x10.70m = 216.14 sqm. MATERIAL: Sheets used = 22 Nosx 10.70mx0.987m= 232.34sqm. Add 3% wastage= 6.97sqm Total= 239.31 sqm					
	Aluminium profile sheet 0.71mm	sqm	239.31	872	NA	208678.32
	Carriage of sheets	L.S.	104	2.12	9999	220.48
	Stainless steel self tapping screw of 6x60mm with SS hex cap and 3mm thick EPDM seal(per sqm 4 nos) 216.14x4=864.55 no's	100 Nos	8.65	500	NA	4325.00
	Carriage of screws, washers	L.S.	8.06	2.12	9999	17.09
	Sundries	L.S.	39.52	2.12	9999	83.78
	LABOUR:					0.00
	Mistry	day	2.34	306.00	0 130	716.04
	Carpenter 2nd class	day	9.34	369.00	0 112	3446.46
	Beldar	day	9.34	306.00	0 114	2858.04
	Total					220345.21 W
	Add 1 % Water charges on "W"					2203.45
	TOTAL					222548.66 X
	Add GST on "X" (multiplying factor 0.1405)					31268.09
	TOTAL					253816.75 Y
	Add 15% CPOH on "Y"					38072.51
	TOTAL					291889.26 Z
	Add Cess @ 1% on "Z"					2918.89
	Cost of 216.14 sqm					294808.15
	Cost of 1 sqm					1363.97
	Say		Say	1364.00	per sqm	
12.66X	Providing and fixing of Pre-coated colour or mill finish Aluminium Roofing Accessories in 0.71 mm thickness ,Alloy 31500 (IS designation) [Aluminium Alloy (AA) 3004 (ISO designation)] For color, coating shall be 5-7 microns epoxy primer on both sides of the sheet and polyester top coat 15-18 microns, using self drilling/tapping SS screws of size 6 x 60mm with 3mm thick EPDM seal and SS plain washer complete:					
12.66X.1	Precoated/mill finish aluminium Ridges plain (500- 600mm)					
	Detail of cost for 20.20 metre One piece plain ridges Consider a shed of 20x10m (external dimensions at plinth) Length of ridges 20.2 metre + 5% wastage = 1.01 metre. Total =23.11 metre. MATERIAL					
	Precoated/Mill finish Aluminium plain ridges 0.71 mm TCT/plain and 500- 600 mm wide	metre	23.11	564	NA	13034.04
	Carriage (The ridge is to be fixed with the same screws as the Sheets)	L.S.	13.52	2.12	9999	28.66
	Sundries	L.S.	6.76	2.12	9999	14.33
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Item No.	Description	Unit	Qty	Rate ₹	Rate Code.	Cost ₹
	LABOUR					
	Mistry	day	0.14	306.00	0 130	42.84
	Carpenter 2nd class	day	0.55	369.00	0 112	202.95
	Beldar	day	1.64	306.00	0 114	501.84
	Total					13824.66 W
	Add 1 % Water charges on "W"					138.25
	TOTAL					13962.91 X
	Add GST on "X" (multiplying factor 0.1405)					1961.79
	TOTAL					15924.70 Y
	Add 15% CPOH on "y"					2388.70
	TOTAL					18313.40 Z
	Add Cess @ 1% on "Z"					183.13
	Cost of 20.20 metre					18496.54
	Cost of 1 metre					915.67
	Say		Say	915.70	per m	

12.66X.2 Precoated/mill finish aluminium Flashings/ Aprons (Upto 600 mm)

Details for shed of 20.2 metres completed length

MATERIAL

Length of ridges 20.2 metre + 5% wastage = 1.01 metre. Total = 23.11 metre.

Precoated/Mill finish Aluminium flashings/aprons 0.50mm TCT/plain and wide upto 600 mm	metre	23.11	544	NA	12571.84
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Carriage of apron pieces. (The apron pieces are to be fixed with the same screws as the sheets)	L.S.	3.25	2.12	9977	6.89
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Sundries	L.S.	3.25	2.12	9999	6.89
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LABOUR

Mistry	day	0.07	306.00	0 130	21.42
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Carpenter 2nd class	day	0.28	369.00	0 112	103.32
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Beldar	day	0.82	306.00	0 114	250.92
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Total					12961.28 W
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Add 1 % Water charges on "W"					129.61
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TOTAL					13090.89 X
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Add GST on "X" (multiplying factor 0.1405)					1839.27
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TOTAL					14930.16 Y
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Add 15% CPOH on "Y"					2239.52
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TOTAL					17169.69 Z
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Add Cess @ 1% on "Z"					171.70
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Cost of 20.20 metre					17341.38
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Cost of 1 metre					858.48
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Say		Say	858.50	per m	
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12.66X.3 Precoated/mill finish aluminium North light curves

Details of North light curve 20.20metres long complete length

MATERIAL

Length of ridges 20.2 metre + 5% wastage = 1.01 metre. Total = 23.11 metre.

Precoated/Mill finish Aluminium plain north light curves	metre	23.11	584	NA	13496.24
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Stainless steel self lapping screw of 6x60mm with SS hex cap and 3mm thick EPDM seal	10 Nos	4	50	NA	200.00
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Carriage of screws, washers and curves	L.S.	9.88	2.12	9977	20.95
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BCD Analysis of Rates 2022

Item No.	Description	Unit	Qty	Rate ₹	Rate Code.	Cost ₹
	Sundries	L.S.	6.24	2.12	9999	13.23
	LABOUR					
	Mistry	day	0.1	306.00	0 130	30.60
	Carpenter 2nd class	day	0.3	369.00	0 112	110.70
	Beldar	day	1	306.00	0 114	306.00
	Total					14177.71 W
	Add 1 % Water charges on "W"					141.78
	TOTAL					14319.49 X
	Add GST on "X" (multiplying factor 0.1405)					2011.89
	TOTAL					16331.38 Y
	Add 15% CPOH on "Y"					2449.71
	TOTAL					18781.09 Z
	Add Cess@ 1 % on "Z"					187.81
	Cost of 20.20 metre					18968.90
	Cost of 1 metre					939.05
	Say		Say	939.10	per m	
12.66X.4	Precoated/mill finish aluminium Barge board (Upto 200 mm)					
	Details of cost for 8.23 metres Completed length of barge boards					
	MATERIAL					
	Length of barge boards = 8.23 metre + Add wastage @ 5% = 0.41 metre. Total = 8.64 metre					
	Precoated/mill finish aluminium Barge board (Upto 200 mm)	metre	8.64	487	NA	4207.68
	Seam bolts and nuts 6 mm dia and 25 mm long	10 Nos	0.5	10.00	0222	5.00
	Washer for seam bolts	100 Nos	0.1	32.00	1211	3.20
	EPDM washer	100 Nos	0.5	30	NA	15.00
	Carriage of barge boards, bolts, nuts and washers	L.S.	9.36	2.12	9977	19.84
	Sundries	L.S.	6.76	2.12	9999	14.33
	LABOUR					
	Mistry	day	0.04	306.00	0 130	12.24
	Carpenter 2nd class	day	0.06	369.00	0 112	22.14
	Beldar	day	0.4	306.00	0 114	122.40
	Total					4421.83 W
	Add 1 % Water charges on "W"					44.22
	TOTAL					4466.05 X
	Add GST on "X" (multiplying factor 0.1405)					627.48
	TOTAL					5093.53 Y
	Add 15% CPOH on "y"					764.03
	TOTAL					5857.56 Z
	Add Cess @ 1 % on "Z"					58.58
	Cost of 8.23 metre					5916.14
	Cost of 1 metre					718.85
	Say		Say	718.90	per m	
12.66X.5	Precoated/mill finish aluminium Crimp curve					
	Details of cost for 21.412 sqm					
	MATERIAL					
	crimp curve 20.2 metres long complete length and 1.06 metre wide					
	Area 20.20 x 1.06 = 21.412 sqm + Add wastage @ 5% = 1.071 sqm. Total = 22.483 sqm.					

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BCD Analysis of Rates 2022

Item No.	Description	Unit	Qty	Rate ₹	Rate Code.	Cost ₹
	Precoated/Mill finish Aluminium crimp curve	sqm	22.48	538	NA	12094.24
	Stainless steel self tapping screw of 6x60mm with SS hex cap and 3mm thick EPDM seal	10 Nos	4	50	NA	200.00
	Carriage of screws, washers and curves	L.S.	9.88	2.12	9977	20.95
	Sundries	L.S.	6.24	2.12	9999	13.23
	LABOUR					
	Mistry	day	0.1	306.00	0 130	30.60
	Carpenter 2nd class	day	0.3	369.00	0 112	110.70
	Beldar	day	1	306.00	0 114	306.00
	Total					12775.71 W
	Add 1% Water charges on "W"					127.76
	TOTAL					12903.47 X
	Add GST on "X" (multiplying factor 0.1405)					1812.94
	TOTAL					14716.41 Y
	Add 15% CPOH on "y"					2207.46
	TOTAL					16923.87 Z
	Add Cess @ 1% on "Z"					169.24
	Cost of 21.412 metre					17093.11
	Cost of 1 metre					798.30
	Say		Say	798.30	per m	
12.66X.6	Precoated/mill finish aluminium Gutter (600 mm over all girth)					
	Detail of cost of 10 metre					
	0.63mm thick with zinc coating not less than 275gm/ sqm Consider a length of 10.00m					
	Precoated/Mill finish Aluminium gutter	metre	10	725	NA	7250.00
	Carriage of gutter	L.S.	1.04	2.12	9977	2.20
	Flats upto 10 mm in thickness	quintal	0.07	4850.00	1008	339.50
	Stainless steel self tapping screw of 6x60mm with SS hex cap and 3mm thick EPDM seal	10 Nos	2	50	NA	100.00
	Stainless steel bolts & nuts 10 mm dia and 125 mm long round head with slots	each	30	38	NA	1140.00
	Carriage of screws, seam bolts & washer	L.S.	2.73	2.12	9977	5.79
	Sundries	L.S.	5.33	2.12	9999	11.30
	LABOUR					
	Blacksmith 1st class	day	0.5	413.00	0 102	206.50
	Beldar	day	0.5	306.00	0 114	153.00
	Sundries	L.S.	12.61	2.12	9999	26.73
	Mistry	day	0.28	306.00	0 130	85.68
	Blacksmith 1st class	day	0.84	413.00	0 102	346.92
	Carpenter 2nd class	day	0.62	369.00	0 112	228.78
	Beldar	day	1.68	306.00	0 114	514.08
	Total					10410.49 W
	Add 1% Water charges on "W"					104.10
	TOTAL					10514.59 X
	Add GST on "X" (multiplying factor 0.1405)					1477.30
	TOTAL					11991.89 Y
	Add 15% CPOH on "y"					1798.78
	TOTAL					13790.67 Z
	Add Cess @ 1% on "Z"					137.91
	Cost of 10 metre					13928.58
	Cost of 1 metre					1392.86
	Say		Say	1392.90	per m	