
SUB HEAD : 21.0
ALUMINIUM WORK

SUB HEAD : 21.0
ALUMINIUM WORK

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
21.1	Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections/ appropriate Z sections and other sections of approved make conforming to IS: 733 and IS: 1285, fixing with dash fasteners of required dia and size, including necessary filling up the gaps at junctions, i.e. at top, bottom and sides with required EPDM rubber/ neoprene gasket etc. Aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat angle, Aluminium snap beading for glazing / paneling, C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing, paneling and dash fasteners to be paid for separately).				
21.1.1	For fixed portion.				
21.1.1.1	Anodised aluminium (anodised transparent or dyed to required shade according to IS: 1868, Minimum anodic coating of grade AC 15).				
	Details of cost for 40.02 kg.				
	MATERIAL:				
	Aluminium Section				
	(i) External member of the frame (Jindal section no 4605)				
	V = 2x2.40 = 4.80 m				
	H = 2x3x0.95 = 5.70 m				
	= 10.50 m @ 1.653 kg/m = 17.36 kg				
	(ii) Internal member of the frame (Jindal section no 4604)				
	V = 2x2.40 = 4.80 m				
	H = 1x3x0.95 = 2.85 m				
	Total = 7.65 m @ 1.692 kg/m = 12.94 kg				
	(iii) Aluminium snap beading on both side (Jindal section no 4407)				
	2x6x2 (1.14+0.95) = 50.16 m				
	Snap beading = 50.16 m @ 0.176 kg/m = 8.33 kg				
	(iv) Angle cleat 38x38x4.8 mm 50 mm long				
	18x0.05 = 0.900 m @ 0.985 kg/m = 0.89 kg				
	Sub total = 40.02 kg				
	Add 5% wastage = 2.00 kg				
	Total = 42.02 kg				
7306	Aluminium T or L sections	kilogram	42.02	190.00	7983.80
	(v) C.P. brass /stainless steel screws 20 mm for cleat angle 18x4 = 72 Nos				
589	Chromium plated Brass screws 20 mm	100 nos	72.00	160.00	115.20
	(vi)				
7389	Anodising 15 microns on aluminium sections	kilogram	42.02	38.00	1596.76
	(vii)				
9999	Carriage of material	L.S.	52.00	2.12	110.24
	LABOUR:				
	For fabrication of frame				
116	Fitter (grade 1)	day	2.00	420.00	840.00
139	Skilled Beldar (for floor rubbing etc.)	day	1.00	369.00	369.00
114	Beldar	day	1.00	306.00	306.00
100	Bandhani	day	0.05	325.00	16.25
9999	Labour for drilling holes, hire charges of drill, electricity charges, carriage of dash hold fastners and sundries	L.S.	100.00	2.12	212.00

TOTAL

11549.25

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Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add Water Charges @ 1%				115.49
	TOTAL				11664.74 (X)
	Add GST 12% on "X"(multiplying factor 0.1405)				1638.90
	TOTAL				13303.64 (Y)
	Add CPOH @ 15% on "Y"				1995.55
	Cost of 40.02 kg				15299.18
	Cost of 1 kg				382.29
	Add labour cess @1%				3.82
	Rate per Kg				386.10

21.1.1.2 Powder coated aluminium (minimum thickness of powder coating 50 micron).

Details of cost for 40.02 kg.

MATERIAL:

Aluminium Section

(i) External member of the frame (Jindal section no 4605)

V= 2x2.40 = 4.80 m

H = 2x3x0.95 = 5.70 m

= 10.50 m @ 1.653 kg/m = 17.36 kg

(ii) Internal member of the frame (Jindal section no 4604)

V= 2x2.40 = 4.80 m

H= 1x3x0.95= 2.85 m

Total = 7.65 m @ 1.692 kg/m = 12.94 kg

(iii) Aluminium snap beading on both side (Jindal section no 4407)

2x6x2 (1.14+0.95) = 50.16 m

Snap beading = 50.16 m @ 0.176 kg/m = 8.83 kg

(iv) Angle cleat 38x38x4.8 mm 50 mm long

18x0.05 = 0.900 m @ 0.985 kg/m = 0.89 kg

Sub total =40.02 kg

Add 5% wastage = 2.00 kg

Total = 42.02 kg

7306	Aluminium T or L sections	kilogram	42.02	190	7983.80
	(v) C.P. brass /stainless steel screws 20 mm for cleat angle 18x4 = 72 Nos				
589	Chromium plated Brass screws 20 mm	100 nos	72	160	115.20
	(vi) Epoxy				
7392	Powder coating 50 microns on aluminium sections	kilogram	42.02	61.00	2563.22
	(vii)				
9999	Carriage of material	L.S.	52	2.12	110.24
	LABOUR:				
	For fabrication of frame				
116	Fitter (grade 1)	day	2	420.00	840.00
139	Skilled Beldar (for floor rubbing etc.)	day	1	369.00	369.00
114	Beldar	day	1	306.00	306.00
100	Bandhani	day	0.05	325.00	16.25
9999	Labour for drilling holes, hire charges of drill, electricity charges, carriage of dash hold fastners and sundries	L.S.	100	2.12	212.00

TOTAL 12515.71

Add Water Charges @ 1% 125.16

TOTAL 12640.87 (X)

Add GST 12% on "X"(multiplying factor 0.1405) 1776.04

TOTAL 14416.91 (Y)

Add CPOH @ 15% on "Y" 2162.54

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Cost of 40.02 kg				16579.45
	Cost of 1 kg				414.28
	Add labour cess @1%				4.14
	Rate per Kg				418.40

21.1.1.3 Polyester powder coated aluminium (minimum thickness of polyester powder coating 50 micron).

Details of cost for 40.02 kg.

MATERIAL:

Aluminium Section

(i) External member of the frame (Jindal section no 4605)

V= 2x2.40 = 4.80 m

H = 2x3x0.95 = 5.70 m

= 10.50 m @ 1.653 kg/m = 17.36 kg

(ii) Internal member of the frame (Jindal section no 4604)

V= 2x2.40 = 4.80 m

H= 1x3x0.95= 2.85 m

= 7.65 m @ 1.692 kg/m = 12.94 kg

(iii) Aluminium snap beading on both side (Jindal section no 4407)

2x6x2 (1.14+0.95) = 50.16 m

Snap beading = 50.16 m @ 0.176 kg/m = 8.33 kg

(iv) Angle cleat 38x38x4.8 mm 50 mm long

18x0.05 = 0.900 m @ 0.985 kg/m = 0.89 kg

Sub total =40.02 kg

Add 5% wastage = 2.00 kg

Total = 42.02 kg

7306	Aluminium T or L sections	kilogram	42.02	190.00	7983.80
	(v) C.P. brass /stainless steel screws 20 mm for cleat angle 18x4 = 72 Nos				
589	Chromium plated Brass screws 20 mm	100 nos	72.00	160.00	115.20
	(vi)				
7393	Polyester powder coating 50 microns on aluminium sections	kilogram	42.02	67.00	2815.34
	(vii)				
9999	Carriage of material	L.S.	52.00	2.12	110.24
	LABOUR:				
116	Fitter (grade 1)	day	2.00	420.00	840.00
139	Skilled Beldar (for floor rubbing etc.)	day	1.00	369.00	369.00
114	Beldar	day	1.00	306.00	306.00
100	Bandhani	day	0.05	325.00	16.25
9999	Labour for drilling holes, hire charges of drill, electricity charges, carriage of dash hold fastners and sundries	L.S.	100.00	2.12	212.00

TOTAL 12767.83

Add Water Charges @ 1% 127.68

TOTAL 12895.51 (X)

Add GST 12% on "X"(multiplying factor 0.1405) 1811.82

TOTAL 14707.33 (Y)

Add CPOH @ 15% 2206.10

Cost of 40.02 kg 16913.43

Cost of 1 kg 422.62

Add labour cess @1% 4.23

Rate per Kg 426.90

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Code	Description	Unit	Quantity	Rate ₹	Amount ₹
21.1.2	For shutters of doors, windows & ventilators including providing and fixing hinges / pivots and making provision for fixing of fittings wherever required including the cost of EPDM rubber / neoprene gasket required (Fittings shall be paid for separately).				
21.1.2.1	Anodised aluminium (anodised transparent or dyed to required shade according to IS: 1868, Minimum anodic coating of grade AC 15)				
	Details of cost for 20.21 kg.				
	MATERIAL:				
	(i) Hanging style (Jindal section no 4524)				
	1x2.35 = 2.35 m @ 2.53 kg/m = 5.95 kg				
	(ii) Meeting style (Jindal section no 4526)				
	1x2.35 = 2.35 m @ 2.465 kg/m = 5.79 kg				
	(iii) Top & bottom rail (Jindal section no 4510)				
	2x0.75 = 1.50 m @ 2.48 kg/m = 3.72 kg				
	(iv) Lock rail (Jindal section no 4524)				
	1x0.75 = 0.75 m @ 2.53 kg/m = 1.90 kg				
	(v) Glazing plate (Jindal section no 440) on one side of lock rail				
	1x0.75 = 0.75 m @ 0.459 kg/m = 0.34 kg				
	(vi) Aluminium snap beading (Jindal section no 4497) on both side				
	2x2 (0.75+1.26) = 8.04 m				
	2x2 (0.75+0.81) = 6.24 m				
	= 14.28 m @ 0.176 kg/m = 2.51 kg				
	(vii) Aluminium angle cleat 38x38x4.8 mm 35 mm long				
	3x4x0.035 = 0.42 m @ 0.985 kg/m = 0.41 kg				
	Sub total = 20.62 kg				
	Add 5% wastage = 1.03 kg				
	Total = 21.65 kg				
7306	Aluminium T or L sections (viii)	kilogram	21.65	190	4113.50
689	Anodised Aluminium butt hinges 100x75x4 mm (ix) C.P. brass /stainless steel screws 20 mm	10 Nos	4	393.00	157.20
	For cleat 12x4 = 48				
	For cleat 4x8 = 32				
	For glazing plate @ 15 cm centre to centre in 75 cm length 2x6 = 12				
0589	Total = 92 Nos	100 nos	92	160	147.20
	Chromium plated Brass screws 20 mm (x)				
7389	Anodising 15 microns on aluminium sections (xi)	kilogram	21.65	38.00	822.70
9999	Carriage of material (xii) Neoprene/ EPDM gasket in groove of meeting style	L.S.	31.2	2.12	66.14
7390	Neoprene/EPDM rubber gasket	metre	2.35	15.00	35.25
	LABOUR:				
116	Fitter (grade 1)	day	1	420.00	420.00
139	Skilled Beldar (for floor rubbing etc.)	day	1	369.00	369.00
114	Beldar	day	0.5	306.00	153.00
100	Bandhani	day	0.4	325.00	130.00
	For fixing the shutter including hinges				
111	Carpenter 1 st class	day	0.2	413.00	82.60
114	Beldar	day	0.5	306.00	153.00

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	Labour for making provision for fittings and carriage of screws etc. including sundries	L.S.	50	2.12	106.00
	TOTAL				6755.59
	Add Water Charges @ 1%				67.56
	TOTAL				6823.15
	Add GST 12% on "X"(multiplying factor 0.1405)				958.65
	TOTAL				7781.80 (Y)
	Add CPOH @ 15%				1167.27
	Cost of 20.21 kg				8949.07
	Cost of 1 kg				442.80
	Add labour cess @1%				4.43
	Rate per Kg				447.20

21.1.2.2 Powder coated aluminium (minimum thickness of powder coating 50 micron).

Details of cost for 20.21 kg.

MATERIAL:

(i) Hanging style (Jindal section no 4524)

1x2.35 = 2.35 m @ 2.53 kg/m = 5.95 kg

(ii) Meeting style (Jindal section no 4526)

1x2.35 = 2.35 m @ 2.465 kg/m = 5.79 kg

(iii) Top & bottom rail (Jindal section no 4510)

2x0.75 = 1.50 m @ 2.48 kg/m = 3.72 kg

(iv) Lock rail (Jindal section no 4524)

1x0.75 = 0.75 m @ 2.53 kg/m = 1.90 kg

(v) Glazing plate (Jindal section no 440) on one side of lock rail

1x0.75 = 0.75 m @ 0.459 kg/m = 0.34 kg

(vi) Aluminium snap beading

(Jindal section no 4497) on both side

2x2 (0.75+1.26) = 8.04 m

2x2 (0.75+0.81) = 6.24 m

= 14.28 m @ 0.176 kg/m = 2.51 kg

(vii) Aluminium angle cleat 38x38x4.8 mm

35 mm long

3x4x0.035 = 0.42 m @ 0.985 kg/m = 0.41 kg

Sub total = 20.62 kg

Add 5% wastage = 1.03 kg

Total = 21.65 kg

7306	Aluminium T or L sections (viii)	kilogram	21.65	190	4113.50
689	Anodised Aluminium butt hinges 100x75x4 mm (ix) C.P. brass /stainless steel screws 20 mm For cleat 12x4 = 48 For cleat 4x8 = 32 For glazing plate @ 15 cm centre to centre in 75 cm length 2x6 = 12 Total = 92 Nos	10 Nos	4	393	157.20
589	Chromium plated Brass screws 20 mm (x) Epoxy	100 nos	92	160	147.20
7392	Powder coating 50 microns on aluminium sections (xi)	kilogram	21.65	61.00	1320.65
9999	Carriage of material (xii) Neoprene/ EPDM rubber gasket in groove of meeting style	L.S.	31.2	2.12	66.14














Code	Description	Unit	Quantity	Rate ₹	Amount ₹
7390	Neoprene/EPDM rubber gasket	metre	2.35	15	35.25
	LABOUR:				
116	Fitter (grade 1)	day	1	420.00	420.00
139	Skilled Beldar (for floor rubbing etc.)	day	1	369.00	369.00
114	Beldar	day	0.5	306.00	153.00
100	Bandhani	day	0.4	325.00	130.00
	For fixing the shutter including hinges:				
111	Carpenter 1 st class	day	0.2	413.00	82.60
114	Beldar	day	0.5	306.00	153.00
9999	Labour for making provision for fittings and carriage of screws etc. including sundries	L.S.	50	2.12	106.00
	TOTAL				7253.54
	Add Water Charges @ 1%				72.54
	TOTAL				7326.08 (X)
	Add GST 12% on "X"(multiplying factor 0.1405)				1029.31
	TOTAL				8355.39 (Y)
	Add CPOH @ 15% on "Y"				1253.31
	Cost of 20.21 kg				9608.70
	Cost of 1 kg				475.44
	Add labour cess @1%				4.75
	Rate per Kg				480.20

21.1.2.3 Polyester powder coated aluminium (minimum thickness of polyester powder coating 50 micron).

Details of cost for 20.21 kg.

MATERIAL:

(i) Hanging style (Jindal section no 4524)

1x2.35 = 2.35 m @ 2.53 kg/m = 5.95 kg

(ii) Meeting style (Jindal section no 4526)

1x2.35 = 2.35 m @ 2.465 kg/m = 5.79 kg

(iii) Top & bottom rail (Jindal section no 4510)

2x0.75 = 1.50 m @ 2.48 kg/m = 3.72 kg

(iv) Lock rail (Jindal section no 4524)

1x0.75 = 0.75 m @ 2.53 kg/m = 1.90 kg

(v) Glazing plate (Jindal section no 440)

on one side of lock rail

1x0.75 = 0.75 m @ 0.459 kg/m = 0.34 kg

(vi) Aluminium snap beading (Jindal section no 4497) on both side

2x2 (0.75+1.26) = 8.04 m

2x2 (0.75+0.81) = 6.24 m

= 14.28 m @ 0.176 kg/m = 2.51 kg

(vii) Aluminium angle cleat 38x38x4.8 mm

35 mm long

3x4x0.035 = 0.42 m @ 0.985 kg/m = 0.41 kg

Sub total = 20.62 kg

Add 5% wastage = 1.03 kg

Total = 21.65 kg

7306	Aluminium T or L sections	kilogram	21.65	190	4113.50
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(viii)

689	Anodised Aluminium butt hinges 100x75x4 mm	10 Nos	4.0	61	24.40
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(ix) C.P. brass /stainless steel screws 20 mm

For cleat 12x4 = 48

For cleat 4x8 = 32

For glazing plate @ 15 cm centre to centre

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	in 75 cm length 2x6 = 12				
	Total = 92 Nos				
589	Chromium plated Brass screws 20 mm (x)	100 nos	92	160	147.20
7393	Polyester powder coating 50 microns on aluminium sections (xi)	kilogram	21.65	67.00	1450.55
9999	Carriage of material (xii) Neoprene/ EPDM rubber gasket in groove of meeting style	L.S.	31.2	2.12	66.14
7390	Neoprene/EPDM rubber gasket LABOUR:	metre	2.35	15	35.25
	For fabrication				
116	Fitter (grade 1)	day	1	420.00	420.00
139	Skilled Beldar (for floor rubbing etc.)	day	1	369.00	369.00
114	Beldar	day	0.5	306.00	153.00
100	Bandhani	day	0.4	325.00	130.00
	For fixing the shutter including hinges				
111	Carpenter 1 st class	day	0.2	413.00	82.60
114	Beldar	day	0.5	306.00	153.00
9999	Labour for making provision for fittings and carriage of screws etc. including sundries	L.S.	50	2.12	106.00
	TOTAL				7250.64
	Add Water Charges @ 1%				72.51
	TOTAL				7323.15 (X)
	Add GST 12% on "X"(multiplying factor 0.1405)				1028.90
	TOTAL				8352.05 (Y)
	Add CPOH @ 15% on "Y"				1252.81
	Cost of 20.21 kg				9604.86
	Cost of 1 kg				475.25
	Add labour cess @1%				4.75
	Rate per Kg				480.00

21.2 Providing and fixing 12 mm thick prelaminated particle board flat pressed three layer or graded wood particle board conforming to IS: 12823 Grade I Type II, in panelling fixed in aluminum doors, windows shutters and partition frames with C.P. brass / stainless steel screws etc. complete as per architectural drawings and directions of Engineer-in-Charge.

21.2.1 Pre-laminated particle board with decorative lamination on one side and balancing

lamination on other side.

Details of cost for 7 sqm

MATERIAL:

12 mm thick particle board = 7.00 sqm

Add 5% wastage = 0.35 sqm

Total = 7.35 sqm

7477	Prelaminated particle board with one side decorative and other side balancing lamination, flat pressed 3 layer & graded (medium density) Grade I, Type II conforming to IS : 12823 (exterior grade) 12 mm thick	sqm	7.35	500.00	3675.00
9999	Carriage of particle board	L.S.	13.65	2.12	28.94
9999	Sundries & screws etc.	L.S.	27.3	2.12	57.88
	LABOUR:				
112	Carpenter 2nd class	day	0.9	369.00	332.10
114	Beldar	day	1	306.00	306.00









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Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL				4399.91
	Add Water Charges @ 1%				44.00
	TOTAL				4443.91 (X)
	Add GST 12% on "X"(multiplying factor 0.1405)				624.37
	TOTAL				5068.28 (Y)
	Add CPOH @ 15%				760.24
	Cost of 7 sqm				5828.53
	Cost of 1 sqm				832.65
	Add labour cess @1%				8.33
	Rate per sqm				841.00
21.2.2	Pre-laminated particle board with decorative lamination on both sides.				
	Details of cost for 7 sqm.				
	MATERIAL:				
	12 mm thick particle board = 7.00 sqm				
	Add 5% wastage = 0.35 sqm.				
	Total = 7.35 sqm				
7480	Pre/aminated particle board with both sides decorative lamination, flat pressed 3 layer & graded (medium density) Grade I, Type II conforming to IS : 12823 (exterior grade) 12 mm thick	sqm	7.35	490.00	3601.50
9999	Carriage of particle board	L.S.	13.65	2.12	28.94
9999	Sundries & screws etc.	L.S.	27.3	2.12	57.88
	LABOUR:				
112	Carpenter 2nd class	day	0.9	369.00	332.10
114	Beldar	day	1	306.00	306.00
	TOTAL				4326.41
	Add Water Charges @ 1%				43.26
	TOTAL				4369.68 (X)
	Add GST 12% on "X"(multiplying factor 0.1405)				613.94
	TOTAL				4983.62 (Y)
	Add CPOH @ 15%				747.54
	Cost of 7 sqm				5731.16
	Cost of 1 sqm				818.74
	Add labour cess @1%				8.19
	Rate per sqm				826.90
21.3	Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with EPDM rubber / neoprene gasket etc. complete as per the architectural drawings and the directions of Engineer-in-Charge. (Cost of aluminium snap beading shall be paid in basic item).				
21.3.1	With float glass panes of 4.0 mm thickness.(weight not less than 10kg/sqm)				
	Details of cost for 1 sqm				
	MATERIAL:				
	Float glass panes 4.00 mm thick = 1.00 sqm				
	Add for wastage and breakage @ 10%=0.10 sqm.				
	Total =1.10 sqm				
2406	Float glass sheet of nominal thickness 4 mm (weight not less than 10 kg/sqm)	sqm	1.1	309.00	339.90
9999	Carriage of glass	L.S.	2.42	2.12	5.13
7390	Neoprene/EPDM rubber gasket	metre	6	15.00	90.00
	LABOUR:				
112	Carpenter 2nd class	day	0.23	369.00	84.87
114	Beldar	day	0.23	306.00	70.38
9999	Sundries and carriage of gasket	L.S.	6.89	2.12	14.61
	TOTAL				604.89

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add Water Charges @ 1%				6.05
	TOTAL				610.94
	Add GST 12% on "X"(multiplying factor 0.1405)				85.84
	TOTAL				696.77 (Y)
	Add CPOH @ 15%				104.52
	Cost of 1 sqm				801.29
	Add labour cess @1%				8.01
	Rate per sqm				809.30
21.3.2	With float glass panes of 5.50 mm thickness.(weight not less than 12.50 kg/sqm)				
	Details of cost for 1 sqm.				
	MATERIAL:				
	Glass panes 5.50 mm thick = 1.00 sqm				
	Add for wastage and breakage @ 10%= 0.10 sqm				
	Total =1.00 sqm				
2407	Float glass sheet of nominal thickness 5.5 mm (weight not less than 13.50 kg/sqm)	sqm	1.1	515.00	566.50
9999	Carriage of glass	L.S.	3.33	2.12	7.06
7390	Neoprene/EPDM rubber gasket	metre	6	15	90.00
	LABOUR:				
112	Carpenter 2nd class	day	0.23	369.00	84.87
114	Beldar	day	0.23	306.00	70.38
9999	Sundries and carriage of gasket	L.S.	6.89	2.12	14.61
	TOTAL				833.42
	Add Water Charges @ 1%				8.33
	TOTAL				841.75 (X)
	Add GST 12% on "X"(multiplying factor 0.1405)				118.27
	TOTAL				960.02 (Y)
	Add CPOH @ 15%				144.00
	Cost of 1 sqm				1104.02
	Add labour cess @1%				11.04
	Rate per sqm				1115.10
21.3.3	With float glass panes of 8 mm thickness(weight not less than 20 kg/sqm).				
	Details of cost for 1 sqm.				
	MATERIAL:				
	Float glass panes 8.00 mm thick = 1.00 sqm				
	Add for wastage and breakage @ 10%= 0.10 sqm				
	Total =1.10 sqm				
2408	Float glass sheet of nominal thickness 8 mm (weight not less than 20.00 kg/sqm)	sqm	1.1	628.00	690.80
9999	Carriage of glass	L.S.	4.84	2.12	10.26
7390	Neoprene/EPDM rubber gasket	metre	6	15	90.00
	LABOUR:				
112	Carpenter 2nd class	day	0.23	369.00	84.87
114	Beldar	day	0.23	306.00	70.38
9999	Sundries and carriage of gasket	L.S.	6.89	2.12	14.61
	TOTAL				960.92
	Add Water Charges @ 1%				9.61
	TOTAL				970.53 (X)
	Add GST 12% on "X"(multiplying factor 0.1405)				136.36
	TOTAL				1106.89 (Y)
	Add CPOH @ 15%				166.03
	Cost of 1 sqm				1272.92
	Add labour cess @1%				12.73
	Rate per sqm				1285.60






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Code	Description	Unit	Quantity	Rate ₹	Amount ₹
21.4	Providing and fixing double action hydraulic floor spring of approved brand and manufacture conforming to IS : 6315 , having brand logo embossed on the body/plate with double spring mechanism and door weight upto 125 kg, for doors including cost of cutting floors ,embedding in floors as required and making good the same matching to the existing floor finishing and cover plates with brass pivot and single piece M.S. sheet outer box with slide plate etc. complete as per the direction of Engineer-in-Charge.				
21.4.1	With stainless steel cover plate minimum 1.25 mm thickness.				
	Details of cost for one number				
	MATERIAL:				
7394	Double action hydraulic floor spring with stainless steel cover plate	each	1	1500.00	1500.00
9999	Carriage	L.S.	13	2.12	27.56
9999	Sundries and screws	L.S.	26	2.12	55.12
	Cement concrete 1:2:4				
4.1.3	Rate as per Item Number 4.1.3 of SH:	cum	0.002	3958.5267	7.92 A
	Concrete work				
	LABOUR:				
123	Mason (brick layer) 1 st class	day	0.08	413.00	33.04
124	Mason (brick layer) 2nd class	day	0.08	369.00	29.52
112	Carpenter 2nd class	day	0.01	369.00	3.69
114	Beldar	day	0.17	306.00	52.02
	TOTAL				
	Add Water Charges @ 1% except on A i.e on (1708.87 - 7.92)				
	TOTAL				
	Add GST 12% on "X" except A(multiplying factor 0.1405)				
	TOTAL				
	Add CPOH @ 15% except on A i.e on (1725.88 - 7.92)				
	Cost of each				
	Add labour cess @1%				
	Rate per Each				
	2283.80				
21.4.2	With brass cover plate minimum 1.25 mm thickness.				
	Details of cost for one number.				
	MATERIAL:				
7396	Double action hydraulic floor spring with brass cover plate	each	1	1620.00	1620.00
9999	Carriage	L.S.	13	2.12	27.56
9999	Sundries and screws	L.S.	26	2.12	55.12
	Cement concrete 1:2:4				
4.1.3	Rate as per Item Number 4.1.3 of SH:	cum	0.002	3958.5267	7.92 A
	Concrete work				
	LABOUR:				
	For cutting hole and making it good				
123	Mason (brick layer) 1 st class	day	0.08	413.00	33.04
124	Mason (brick layer) 2nd class day	day	0.08	369.00	29.52
112	Carpenter 2nd class	day	0.01	369.00	3.69
	for fixing				
114	Beldar	day	0.17	306.00	52.02
	TOTAL				
	Add Water Charges @ 1% except on A i.e on (1828.87 - 7.92)				
	TOTAL				
	Add GST 12% on "X" except A(multiplying factor 0.1405)				
	TOTAL				
	1847.08 (X)				
	258.40				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL				2105.48 (Y)
	Add CPOH @ 15% except on A i.e on (1847.08 - 7.92)				314.63421
	Cost of each				2420.11
	Add labour cess @1%				24.20
	Rate per Each				2444.30
21.5	Providing and fixing powder coated aluminium work (minimum thickness of powder coating 50 micron) consisting of tee / angle sections, of approved make conforming to IS : 733 in frames of false ceiling including aluminium angle cleats with necessary C.P. brass / stainless steel sunk screws, aluminium perimeter angles fixed to wall with stainless steel rawl plugs @ 450mm centre to centre and fixing the frame work to G.I. level adjusting hangers 6mm dia. with necessary cadmium plated machine screws all complete as per approved architectural drawings and direction of the Engineer-in-Charge (level adjusting hangers, ceiling cleats and expansion hold fasteners to be paid for separately).				
	Details of cost for 6.35 kg (2.40x2.40= 5.76 sqm). MATERIAL: (i) Aluminium main runner - assuming Tee of size 35x23.5x1.5 mm @ 600 mm centre to centre 3.00x2.40m, =7.20m Extra for light fittings 2x1.20 m = 2.40 m Total = 9.60 m @ 0.247 kg/m = 2.370 kg Aluminium cross runner - assuming Tee of size 35x23.5x1.5 mm @ 600 mm centre to centre 3x4x0.60 m = 7.20 m (-) 2x0.30 = (-) 0.60 m Total =6.60 m @ 0.247 kg/m = 1.630 kg Perimeter angle aluminium - assuming size 25.4x25.4x1.63 mm @ 600 mm centre to centre 4x2.40 m = 9.60 m @ 0.213 kg/m = 2.045 kg (ii) CLEATS Aluminium angle- assuming size 25.4x25.4x1.63 mm Extra for light fittings =3x2x2 = 12.00 Corner = 4.00 For joining runners = 42.00 Total = 58.00x0.025 = 1.45 m@ 0.213 kg/m = 0.309 kg Sub total = 2.370 + 1.630 + 2.045 + 0.309 = 6.354 kg Add 5% wastage = 0.318 kg Total = 6.672 kg				
7306	Aluminium T or L sections	kilogram	6.672	190.00	1267.68
	(iii) C.P. brass/ stainless steel screws 20 mm for angle cleats				
589	Chromium plated Brass screws 20 mm	100 nos	1.16	160	1.86
	(iv) Rawl plug for fixing perimeter angles				
7048	Rawl plug 50 mm (designation 10 nos)	each	24	22.00	528.00
	Epoxy				
7392	Powder coating 50 microns on aluminium sections	kilogram	6.67	61.00	406.87






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Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	Carriage of material (vii)	L.S.	13	2.12	27.56
9999	C.P. brass screws for fixing frame with suspenders	L.S.	13	2.12	27.56
	LABOUR:				
	For fabrication and erection				
111	Carpenter 1 st class	day	0.64	413.00	264.32
114	Beldar	day	0.64	306.00	195.84
9999	Scaffolding and sundries	L.S.	13	2.12	27.56
	TOTAL				2747.25
	Add Water Charges @ 1%				27.47
	TOTAL				2774.72 (X)
	Add GST 12% on "X"(multiplying factor 0.1405)				389.85
	TOTAL				3164.57 (Y)
	Add CPOH @ 15% on "Y"				474.68
	Cost of 6.35 kg				3639.25
	Cost of 1 kg				573.11
	Add labour cess @1%				5.73
	Rate per Kg				578.80
21.6	Providing and fixing 6 mm dia. G.I. level adjusting hangers (upto 1200 mm length), fixed to roof slabs by means of ceiling cleats made out of G.I. flat 40x3 mm size 60 mm long and stainless steel expandable dash fastener of 12.5 mm dia and 50 mm long, complete as per direction of Engineer -in-charge.				
	Details of cost for 23 nos (hangers in 2.40m x 2.40 m = 5.76 sqm).				
	MATERIAL:				
	6 mm dia G.I. adjustable hangers including clips (upto 1.20 metre length)				
	For light fitting 2x4=8.00 Nos				
	For runners = 15.00 total = 23.00 Nos				
7395	6 mm dia G.I. adjustable hangers including clips	each	23	20.00	460.00
	(up to 1.2 m length)				
	Ceiling cleats				
	G.I. flat 40X3 mm 60mm long				
	23x0.06= 1.38m@0.95kg/m= 1.31kg				
	Add 5% wastage = 0.07 kg				
	Total = 1.38 kg				
992	Galvanised steel plain sheets	quintal	0.014	5000.00	70.00
7388	Dash hold fastener 12.5 mm dia, 50 mm long with	each	23	10.00	230.00
	6 mm dia bolt				
9999	Carriage of material	L.S.	5.2	2.12	11.02
	LABOUR:				
111	Carpenter 1 st class	day	0.35	413.00	144.55
114	Beldar	day	0.27	306.00	82.62
	TOTAL				998.19
	Add Water Charges @ 1%				9.98
	TOTAL				1008.18 (X)
	Add GST 12% on "X"(multiplying factor 0.1405)				141.65
	TOTAL				1149.82 (Y)
	Add CPOH @ 15% on "Y"				172.47
	Cost of 23 nos				1322.30
	Cost of each				57.49
	Add labour cess @1%				0.57
	Rate per Each				58.10

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
21.7	Providing and fixing machine moulded aluminium covering of approved pattern & design, made out of machine cut aluminium sheet and machine holed for receiving dash fastener, over expansion joints on vertical surfaces/ceiling floors, the fixing on plate in one row on one side of joint only shall be done with stainless steel dash fasteners of 8 mm dia and 75 mm long bolt including providing aluminium washers 2 mm thick 15 mm dia, at a staggered pitch of 200 mm centre to centre including drilling holes in the receiving surface and providing expandable plastic sleeves in holes etc. complete as per drawing and direction of Engineer-in-charge.				
21.7.1	Anodised aluminium sheet 2.5 mm thick (anodised transparent or dyed to required shade according to IS: 1868, Minimum anodic coating of grade AC 15).				
	Details of cost for 7 kg.				
	MATERIAL:				
	Anodised aluminium sheet 2.5 mm thick,				
	170 mm wide				
	5.88m x 0.17m = 1.00 sqm @ 7.00 kg/sqm				
	= 7.00kg Add 5% wastage = 0.035 kg				
	Total = 7.35 kg				
2704	Aluminium Strip 40 mm wide and 2 mm thick	kilogram	7.35	240.00	1764.00
7389	Anodising 15 microns on aluminium sections	kilogram	7.35	38.00	279.30
7347	Cadmium plated full threaded steel screws (30x4 mm dia)	100 Nos	30	27.00	8.10
7348	Aluminium washer 2 mm thick 15 mm dia	100 nos	30	10.00	3.00
8776	Stainless steel dash fastener of 8 mm dia and 75 mm long bolt	each	30	17.00	510.00
9999	Carriage of material	L.S.	6.5	2.12	13.78
	LABOUR:				
112	Carpenter 2nd class	day	0.392	369.00	144.65
114	Beldar	day	0.392	306.00	119.95
9999	Sundries including machine work	L.S.	21.45	2.12	45.47
	TOTAL				2888.25
	Add Water Charges @ 1%				28.88
	TOTAL				2917.14 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)				409.86
	TOTAL				3326.99 (Y)
	Add CPOH @ 15% on "Y"				499.05
	Cost of 7 kg				3826.04
	Cost of 1 kg				546.58
	Add labour cess @1%				5.47
	Rate per kg				552.00
21.7.2	Powder coated aluminium sheet 2.5 mm thick (minimum thickness of powder coating 50 micron).				
	Details of cost for 7 kg.				
	MATERIAL:				
	Anodised aluminium sheet 2.5 mm thick,				
	170 mm wide				
	5.88 mm x 0.17m = 1.00 m @ 7.00kg/sqm				
	wide Add 5% wastage = 0.35 kg				
	Total = 7.35 kg				
2704	Aluminium Strip 40 mm wide and 2 mm thick	kilogram	7.35	240	1764.00
7392	Powder coating 50 microns on aluminium sections	kilogram	7.35	61	448.35
7347	Cadmium plated full threaded steel screws (30x4 mm dia)	100 Nos	30	27.00	8.10
7348	Aluminium washer 2 mm thick 15 mm dia	100 nos	30	10	3.00
8776	Stainless steel dash fastener of 8 mm dia and mm long bolt	each	30	17	510.00














Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	Carriage of material	L.S.	6.5	2.12	13.78
	LABOUR:				
112	Carpenter 2nd class	day	0.392	369.00	144.65
114	Beldar	day	0.392	306.00	119.95
9999	Sundries including machine work	L.S.	21.45	2.12	45.47
	TOTAL				3057.30
	Add Water Charges @ 1%				30.57
	TOTAL				3087.88 (X)
	Add GST 12% on "X"(multiplying factor 0.1405)				433.85
	TOTAL				3521.72 (Y)
	Add CPOH @ 15% on "Y"				528.26
	Cost of 7 kg				4049.98
	Cost of 1 kg				578.57
	Add labour cess @1%				5.79
	Rate per Kg				584.40
21.8	Filling the gap in between aluminium frame & adjacent RCC / Brick / Stone work by providing weather silicon sealant over backer rod of approved quality as per architectural drawings and direction of Engineer-in-Charge complete.				
21.8.1	Upto 5 mm depth and 5 mm width.				
	Details of cost for one metre				
	MATERIAL:				
8646	Silicon sealant	cartridge	0.087	112.00	9.74
	(including 5% wastage)				
8654	Masking tape	metre	2	2.18	4.36
9999	Sundries and profile	L.S.	2.6	2.12	5.51
9999	Labour	L.S.	20.8	2.12	44.10
	TOTAL				63.71
	Add Water Charges @ 1%				0.64
	TOTAL				64.35 (X)
	Add GST 12% on "X"(multiplying factor 0.1405)				9.04
	TOTAL				73.39 (Y)
	Add CPOH @ 15% on "Y"				11.01
	Cost of 1 metre				84.40
	Add labour cess @1%				0.84
	Rate per m				85.20
21.9	Extra for applying additional anodic coating AC 25 instead of AC 15 to aluminium extruded sections.				
21.9.1	For fixed portion.				
	Details of cost for 41.09 kg				
	Difference in cost of				
7391	Anodising 25 microns on aluminium sections	kilogram	41.09	48.00	1972.32
7389	Anodising 15 microns on aluminium sections	kilogram	-41.09	38.00	-1561.42
	TOTAL				410.90
	Add Water Charges @ 1%				4.11
	TOTAL				415.01 (X)
	Add GST 12% on "X"(multiplying factor 0.1405)				58.31
	TOTAL				473.32 (Y)
	Add CPOH @ 15% on "Y"				71.00
	Cost of 41.09 kg				544.32
	Cost of 1 kg				13.25
	Add labour cess @1%				0.13
	Rate per Kg				13.40
21.9.2	For shutters of doors, windows & ventilators.				
	Details of cost for 21.65 kg.				
	Difference in cost of				
7391	Anodising 25 microns on aluminium sections	kilogram	21.65	48.00	1039.20







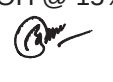



BCD Analysis of Rates 2022

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
114	Beldar	day	0.14	306.00	42.84
	TOTAL				2092.62
	Add Water Charges @ 1%				20.93
	TOTAL				2113.55 (X)
	Add GST 12% on "X"(multiplying factor 0.1405)				296.95
	TOTAL				2410.50 (Y)
	Add CPOH @ 15% on "Y"				361.58
	Cost of 10 nos				2772.08
	Cost of each				277.21
	Add labour cess @1%				2.77
	Rate each				280.00
21.11.2	255 X 19 mm.				
	Details of cost for 10 nos.				
	MATERIAL:				
8650	Stainless steel (SS 304 grade) adjustable friction window stay 255 x 19 mm	each	10	225.00	2250.00
8647	Stainless steel screws 30 mm x4 mm	100 Nos	40	35.84	14.34
9999	Carriage	L.S.	2.73	2.12	5.79
	LABOUR:				
112	Carpenter 2nd class	day	0.14	369.00	51.66
114	Beldar	day	0.14	306.00	42.84
	TOTAL				2364.62
	Add Water Charges @ 1%				23.65
	TOTAL				2388.27 (X)
	Add GST 12% on "X"(multiplying factor 0.1405)				335.55
	TOTAL				2723.82 (Y)
	Add CPOH @ 15% on "Y"				408.57
	Cost of 10 nos				3132.40
	Cost of each				313.24
	Add labour cess @1%				3.13
	Rate each				316.40
21.11.3	355 X 19 mm.				
	Details of cost for 10 nos				
	MATERIAL:				
8651	Stainless steel (SS 304 grade) adjustable friction window stay 355 x 19 mm	each	10	195.00	1950.00
8647	Stainless steel screws 30 mm x4 mm	100 Nos	40	35.84	14.34
9999	Carriage	L.S.	2.73	2.12	5.79
	LABOUR:				
112	Carpenter 2nd class	day	0.14	369.00	51.66
114	Beldar	day	0.14	306.00	42.84
	TOTAL				2064.62
	Add Water Charges @ 1%				20.65
	TOTAL				2085.27 (X)
	Add GST 12% on "X"(multiplying factor 0.1405)				292.98
	TOTAL				2378.25 (Y)
	Add CPOH @ 15% on "Y"				356.74
	Cost of 10 nos				2734.99
	Cost of each				273.50
	Add labour cess @1%				2.73
	Rate each				276.20
21.11.4	510X19 mm.				
	Details of cost for 10 nos.				
	MATERIAL:				
8652	Stainless steel (SS 304 grade) adjustable friction window stay 510 x 19 mm	each	10	535.00	5350.00
8647	Stainless steel screws 30 mm x4 mm	100 Nos	40	35.84	14.34

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	Carriage	L.S.	2.73	2.12	5.79
	LABOUR:				
112	Carpenter 2nd class	day	0.14	369.00	51.66
114	Beldar	day	0.14	306.00	42.84
	TOTAL				5464.62
	Add Water Charges @ 1%				54.65
	TOTAL				5519.27
	Add GST 12% on "X"(multiplying factor 0.1405)				775.46
	TOTAL				6294.73 (Y)
	Add CPOH @ 15% on "Y"				944.21
	Cost of 10 nos				7238.94
	Cost of each				723.89
	Add labour cess @1%				7.24
	Rate each				731.10
21.11.5	710X19 mm.				
	Details of cost for 10 nos.				
	MATERIAL:				
8653	Stainless steel (SS 304 grade) adjustable friction window stay 710 x 19 mm	each	10	925.00	9250.00
8647	Stainless steel screws 30 mm x4 mm	100 Nos	40	35.84	14.34
9999	Carriage	L.S.	2.73	2.12	5.79
	LABOUR:				
112	Carpenter 2nd class	day	0.14	369.00	51.66
114	Beldar	day	0.14	306.00	42.84
	TOTAL				9364.62
	Add Water Charges @ 1%				93.65
	TOTAL				9458.27 (X)
	Add GST 12% on "X"(multiplying factor 0.1405)				1328.89
	TOTAL				10787.16 (Y)
	Add CPOH @ 15% on "Y"				1618.07
	Cost of 10 nos				12405.23
	Cost of each				1240.52
	Add labour cess @1%				12.41
	Rate each				1252.90
21.12	Providing and fixing aluminium tubular handle bar 32 mm outer dia, 3.0 mm thick & 2100 mm long with SS screws etc .complete as per direction of Engineer-in-Charge.				
21.12.1	Anodized (AC 15) aluminium tubular handle bar.				
	Details of cost for 10 nos handle bar.				
	MATERIAL:				
	10x22/7 x 1/4 (0.032x0.032 - 0.026 x 0.026)				
	x 2.10 = 0.0057 cum				
	0.0057 cum @ 2710 kg/ cum = 15.56kg				
	Add 5% wastage = 0.78 kg				
	Total = 16.34 kg				
7306	Aluminium T or L sections	kilogram	16.34	190.00	3104.60
7389	Anodising 15 microns on aluminium sections	kilogram	16.34	38.00	620.92
9999	Carriage of material	L.S.	4.42	2.12	9.37
8647	Stainless steel screws 30 mm x4 mm	100 Nos	8	35.84	2.87
	LABOUR:				
111	Carpenter 1 st class	day	0.125	413.00	51.63
	TOTAL				3789.38
	Add Water Charges @ 1%				37.89
	TOTAL				3827.28 (X)
	Add GST 12% on "X"(multiplying factor 0.1405)				537.73
	TOTAL				4365.01 (Y)
	Add CPOH @ 15%on "Y"				654.75

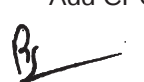






Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Cost of 10 nos				5019.76
	Cost of each				501.98
	Add labour cess @1%				5.02
	Rate each				507.00
21.12.2	Powder coated minimum thickness 50 micron aluminium tubular handle bar.				
	Details of cost for 10 nos handle bar.				
	MATERIAL:				
	10x22/7 x 1/4 (0.032x0.032 - 0.026 x 0.026)				
	x 2.10 = 0.0057 cum				
	0.0057 cum @ 2710 kg/ cum = 15.56kg				
	Add 5% wastage = 0.78 kg				
	Total = 16.34 kg				
7306	Aluminium T or L sections	kilogram	16.34	190.00	3104.60
	Epoxy				
7392	Powder coating 50 microns on aluminium sections	kilogram	16.34	61.00	996.74
9999	Carriage of material	L.S.	4.42	2.12	9.37
8647	Stainless steel screws 30 mm x4 mm	100 Nos	8.00	35.84	2.87
	LABOUR:				
111	Carpenter 1 st class	day	0.13	413.00	51.63
	TOTAL				4165.20
	Add Water Charges @ 1%				41.65
	TOTAL				4206.85 (X)
	Add GST 12% on "X"(multiplying factor 0.1405)				591.06
	TOTAL				4797.92 (Y)
	Add CPOH @ 15%				719.69
	Cost of 10 nos				5517.61
	Cost of each				551.76
	Add labour cess @1%				5.52
	Rate each				557.30
21.12.3	Polyester powder coated minimum thickness 50 micron aluminium tubular handle bar.				
	Details of cost for 10 nos handle bar.				
	MATERIAL:				
	10x22/7 x 1/4 (0.032x0.032 - 0.026 x 0.026)				
	x 2.10 = 0.0057 cum				
	0.0057 cum @ 2710 kg/ cum = 15.56kg				
	Add 5% wastage = 0.78 kg				
	Total = 16.34 kg				
7306	Aluminium T or L sections	kilogram	16.34	190.00	3104.60
7393	Polyester powder coating 50 microns on aluminium sections	kilogram	16.34	67.00	1094.78
9999	Carriage of material	L.S.	4.42	2.12	9.37
8647	Stainless steel screws 30 mm x4 mm	100 Nos	8.00	35.84	286.72
	LABOUR:				
111	Carpenter 1 st class	day	0.13	413.00	51.63
	TOTAL				4547.10
	Add Water Charges @ 1%				45.47
	TOTAL				4592.57 (X)
	Add GST 12% on "X"(multiplying factor 0.1405)				645.26
	TOTAL				5237.82 (Y)
	Add CPOH @ 15% on "Y"				785.67
	Cost of 10 nos				6023.50
	Cost of each				602.35
	Add labour cess @1%				6.02
	Rate each				608.40

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
21.13	Providing and fixing Brass 100mm mortice latch and lock with 6 levers without pair of handles (best make of approved quality) for aluminium doors including necessary cutting and making good etc. complete.				
	Details of cost for one no.				
	MATERIAL:				
7001	Brass 100mm mortice latch and lock with 6 levers without pair of handles	each	1.00	195.00	195.00
	LABOUR:				
111	Carpenter 1 st class	day	0.17	413.00	70.21
9999	Sundry and screws	L.S.	3.64	2.12	7.72
	TOTAL				272.93
	Add Water Charges @ 1%				2.73
	TOTAL				275.66 (X)
	Add GST 12% on "X"(multiplying factor 0.1405)				38.73
	TOTAL				314.39 (Y)
	Add CPOH @ 15% on "Y"				47.16
	Cost of each				361.54
	Add labour cess @1%				3.62
	Rate each				365.20
21.14	Providing and fixing anodised aluminium (anodised transparent or dyed to required shade according to IS: 1868. Minimum anodic coating of grade AC 15) sub frame work for windows and ventilators with extruded built up standard tubular sections of approved make conforming to IS: 733 and IS: 1285, fixed with dash fastener of required dia and size (Dash fastener to be paid for separately).				
	Details of cost for 4.082 kg.				
	MATERIAL:				
	Aluminium Section				
	(i) External member of the frame (Jindal section no TU/ 3644)				
	V = 2x2.00 = 4.00 m				
	H = 2x1.20 = 2.40 m				
	Total = 6.40 m @ 0.607 kg/m = 3.885kg				
	Angle cleat 38x38x4.8 mm 50 mm long				
	4x0.05 = 0.200 m @ 0.985 kg/m = 0.197 kg				
	sub total = 4.082kg.				
	Add 5% wastage = 0.204kg				
	Total = 4.286kg				
7306	Aluminium T or L sections	kilogram	4.29	190.00	814.34
589	Chromium plated Brass screws 20 mm	100 nos	8.00	160.00	12.80
7389	Anodising 15 microns on aluminium sections	kilogram	4.29	38.00	162.87
9999	Carriage of material	L.S.	5.20	2.12	11.02
	LABOUR:				
	For fabrication of frame				
116	Fitter (grade 1)	day	0.04	420.00	16.80
139	Skilled Beldar (for floor rubbing etc.)	day	0.04	369.00	14.76
114	Beldar	day	0.02	306.00	6.12
100	Bandhani	day	0.01	325.00	3.25
9999	Labour for drilling holes, hire charges of drill, electricity charges, carriage of dash hold fastners and sundries	L.S.	5.20	2.12	11.02
	TOTAL				1052.99
	Add Water Charges @ 1%				10.53
	TOTAL				1063.52 (X)
	Add GST 12% on "X"(multiplying factor 0.1405)				149.42
	TOTAL				1212.94 (Y)
	Add CPOH @ 15% on "Y"				181.94



Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Cost of 4.082 kg				1394.88
	Cost of 1 kg				341.72
	Add labour cess @1%				3.42
	Rate Per Kg				345.10
21.15	Providing and fixing aluminium casement windows fastener of required length for aluminium windows with necessary screws etc. complete.				
21.15.1	Anodized (AC 15) aluminium.				
	Details of cost for 10 nos.				
	MATERIAL:				
8660	Aluminium casement window fastener (Anodised AC 15)	each	10	48.00	480.00
8666	Stainless steel screws 25 mm x4 mm	100 Nos	40	41.80	16.72
	LABOUR:				
111	Carpenter 1 st class	day	0.06	413.00	24.78
9999	Carriage of material	L.S.	2.73	2.12	5.79
	TOTAL				527.29
	Add Water Charges @ 1%				5.27
	TOTAL				532.56 (X)
	Add GST 12% on "X"(multiplying factor 0.1405)				74.82
	TOTAL				607.39 (Y)
	Add CPOH @ 15% on "Y"				91.11
	Cost of 10 nos				698.49
	Cost of each				69.85
	Add labour cess @1%				0.70
	Rate each				70.50
21.15.2	Powder coated minimum thickness 50 micron aluminium.				
	Details of cost for 10 nos.				
	MATERIAL:				
8661	Aluminium casement window fastener (powder coated)	each	10	52.64	526.40
8666	Stainless steel screws 25 mm x4 mm	100 Nos	40	41.8	16.72
	LABOUR:				
111	Carpenter 1 st class	day	0.06	413.00	24.78
9999	Carriage of material	L.S.	2.73	2.12	5.79
	TOTAL				573.69
	Add Water Charges @ 1%				5.74
	TOTAL				579.42 (X)
	Add GST 12% on "X"(multiplying factor 0.1405)				81.41
	TOTAL				660.83 (Y)
	Add CPOH @ 15% on "Y"				99.13
	Cost of 10 nos				759.96
	Cost of each				76.00
	Add labour cess @1%				0.76
	Rate each				76.80
21.15.3	Polyester powder coated minimum thickness 50 micron aluminium.				
	Details of cost for 10 nos.				
	MATERIAL:				
8662	Aluminium casement window fastener (polyester powder coated)	each	10.00	51.52	515.20
8666	Stainless steel screws 25 mm x4 mm	100 Nos	40.00	41.80	16.72
	LABOUR:				
111	Carpenter 1 st class	day	0.06	413.00	24.78
9999	Carriage of material	L.S.	2.73	2.12	5.79
	TOTAL				562.49
	Add Water Charges @ 1%				5.62
	TOTAL				568.11 (X)
	Add GST 12% on "X"(multiplying factor 0.1405)				79.82

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL				647.93 (Y)
	Add CPOH @ 15% on "Y"				97.19
	Cost of 10 nos				745.12
	Cost of each				74.51
	Add labour cess @1%				0.75
	Rate each				75.30
21.16	Providing and fixing aluminium round shape handle of outer dia 100 mm with SS screws etc. complete as per direction of Engineer-in-Charge.				
21.16.1	Anodized (AC 15) aluminium.				
	Details of cost for 10 nos.				
	MATERIAL:				
8663	Aluminium round shape handle (anodised AC 15)	each	10.00	59.36	593.60
8666	Stainless steel screws 25 mm x4 mm	100 Nos	40.00	41.80	16.72
	LABOUR:				
111	Carpenter 1 st class	day	0.06	413.00	24.78
9999	Carriage of material	L.S.	2.73	2.12	5.79
	TOTAL				640.89
	Add Water Charges @ 1%				6.41
	TOTAL				647.30 (X)
	Add GST 12% on "X"(multiplying factor 0.1405)				90.95
	TOTAL				738.24 (Y)
	Add CPOH @ 15% on "Y"				110.74
	Cost of 10 nos				848.98
	Cost of each				84.90
	Add labour cess @1%				0.85
	Rate each				85.70
21.16.2	Powder coated minimum thickness 50 micron aluminium.				
	Details of cost for 10 nos.				
8664	Aluminium round shape handle (powder coated)	each	10.00	60.00	600.00
8666	Stainless steel screws 25 mm x4 mm	100 Nos	40.00	41.80	16.72
	LABOUR:				
111	Carpenter 1 st class	day	0.06	413.00	24.78
9999	Carriage of materials	L.S.	2.73	2.12	5.79
	TOTAL				647.29
	Add Water Charges @ 1%				6.47
	TOTAL				653.76 (X)
	Add GST 12% on "X"(multiplying factor 0.1405)				91.85
	TOTAL				745.61 (Y)
	Add CPOH @ 15% on "Y"				111.84
	Cost of 10 nos				857.46
	Cost of each				85.75
	Add labour cess @1%				0.86
	Rate each				86.60
21.16.3	Polyester powder coated minimum thickness 50 micron aluminium.				
	Details of cost for 10 nos.				
	MATERIAL:				
8665	Aluminium round shape handle (polyester powder coated)	each	10.00	62.00	620.00
8666	Stainless steel screws 25 mm x4 mm	100 Nos	40.00	41.80	16.72
	LABOUR:				
111	Carpenter 1 st class	day	0.06	413.00	24.78
9999	Carriage of materials	L.S.	2.73	2.12	5.79
	TOTAL				667.29
	Add Water Charges @ 1%				6.67
	TOTAL				673.96 (X)














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Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add GST 12% on "X"(multiplying factor 0.1405)				94.69
	TOTAL				768.65 (Y)
	Add CPOH @ 15% on "Y"				115.30
	Cost of 10 nos				883.95
	Cost of each				88.39
	Add labour cess @1%				0.88
	Rate each				89.30

- 21.17 Providing and fixing anodised aluminium grill (anodised transparent or dyed to required shade according to IS: 1868 with minimum anodic coating of grade AC 15) of approved design/pattern, with approved standard section and fixed to the existing window frame with C.P. brass/ stainless steel screws @ 200 mm centre to centre, including cutting the grill to proper opening size for fixing and operation of handles and fixing approved anodised aluminium standard section around the opening, all complete as per requirement and direction of Engineer-in-charge. (Only weight of grill to be measured for payment).**

Details of cost for 10 kg.

MATERIAL:

Aluminium grill = 10 Kg.

Add Wastage @ 20% = 2 Kg.

= 12 Kg.

8774	Aluminium Grill	kg	12.00	279.00	3348.00
9999	Carriage	L.S.	11.00	2.12	23.32
	LABOUR:				
	for fixing				
116	Fitter (grade 1)	day	0.50	420.00	210.00
139	Skilled Beldar (for floor rubbing etc.)	day	0.25	369.00	92.25
114	Beldar	day	0.25	306.00	76.50
100	Bandhani	day	0.05	325.00	16.25
9999	Sundries	L.S.	25.00	2.12	53.00

TOTAL

3819.32

Add Water Charges @ 1%

38.19

TOTAL

3857.51 (X)

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

541.98

TOTAL

4399.49 (Y)

Add CPOH @ 15% on "Y"

659.92

Cost of 10 kg

5059.42

Cost of 1 kg

505.94

Add labour cess @1%

5.06

Rate Kg

511.00

- 21.18 Providing and fixing 12 mm thick frameless toughened glass door shutter of approved brand and manufacture, including providing and fixing top & bottom pivot & spring type fixing arrangement and making necessary holes etc. for fixing required door fittings, all complete as per direction of Engineer-incharge (Door handle, lock and stopper etc.to be paid separately).**

Details of cost for 2.10 sqm.

MATERIAL:

Glass= 2.10 Sqm.

Add Wastage @ 10% = 0.21 sqm.

Total= 2.31 sqm.

8778	Toughened glass 12 mm thickness	sqm	2.31	1750.00	4042.50
9999	Carriage of glass panes and other materials	L.S.	8.19	2.12	17.36
9999	Methylated spirit	L.S.	5.33	2.12	11.30
21.4.1	Stainless steel pivot and spring type fixing	each	2.00	2261.15	4522.30 A

Rate as per Item Number 21.4.1 of SH:

Aluminium Work

LABOUR:

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
119	Glazier	day	0.90	344.00	309.60
114	Beldar	day	0.90	306.00	275.40
9999	Sundries, sush rog cotton etc.	L.S.	1.13	2.12	2.40
	TOTAL				9180.86
	Add Water Charges @ 1% except on A i.e on (9180.86 -4522.3)				46.59
	TOTAL				9227.44 (X)
	Add GST 12% on "X" except A(multiplying factor 0.1405)				661.07
	TOTAL				9888.52 (Y)
	Add CPOH @ 15% on "Y" except A (9227.44 -4522.3)				804.93
	Cost of 2.1 sqm				10693.45
	Cost of 1 sqm				5092.12
	Add labour cess @1%				50.92
	Rate sqm				5143.00
21.19	Filling the gap in between aluminium/ stone/ wood frame and adjacent RCC/ Brick/ Stone/ wood/ Ceramic/ Gypsum work by providing weather/structural non sag elastomeric PU sealant over backer rod of approved quality as per architectural drawings and direction of Engineer-in-charge complete, complying to ASTM C920, DIN 18540-F & ISO 11600				
21.19.1	Upto 5 mm depth and 5 mm width				
	Details of cost for 10m length width 5mm & depth 5mm				
	MATERIAL				
2604	Weather/structural non sag elastomeric PU sealant (600ml Sausage) for joints in RCC/Brick/ Stone/ wood/ Ceramic/ Gypsum/Alluminium work complying to ASTM C920,DIN 18540-F & ISO 11600 incl all taxes	each	1.00	543.00	543.00
8654	Masking tape	metre	20.00	2.18	43.60
9999	Sundries, including charges of Sealant gun machine, dhoti etc	L.S.	26.00	2.12	55.12
9977	Carriage of material	L.S.	8.40	2.12	17.81
	LABOUR				
0123	Mason (brick layer) 1st class	day	0.40	413.00	165.20
	TOTAL				824.73
	Add 1 % Water charges				8.25
	TOTAL				832.98 (X)
	Add GST 12% on "X"(multiplying factor 0.1405)				117.03
	TOTAL				950.01 (Y)
	Add CPOH @ 15% on "Y"				142.50
	Cost of 10 metre				1092.51
	Cost per metre				109.25
	Add labour cess @1%				1.09
	Rate per metre				110.30
21.19.2	Upto 10 mm depth and 10 mm width				
	Details of cost for 10m length width 10mm & depth 10mm				
	MATERIAL				
2604	Weather/structural non sag elastomeric PU sealant (600ml Sausage) for joints in RCC/Brick/ Stone/ wood/ Ceramic/ Gypsum/Alluminium work complying to ASTM C920,DIN 18540-F & ISO 11600 incl all taxes	each	1.50	543.00	814.50
8654	Masking tape	metre	20.00	2.18	43.60

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	Sundries, including charges of Sealant gun machine, dhoti etc	L.S.	26.00	2.12	55.12
9977	Carriage of material	L.S.	8.40	2.12	17.81
123	Mason (brick layer) 1st class	day	0.50	413.00	206.50
	TOTAL				1137.53
	Add 1 % Water charges				11.38
	TOTAL				1148.90 (X)
	Add GST 12% on "X"(multiplying factor 0.1405)				161.42
	TOTAL				1310.32 (Y)
	Add CPOH @ 15% on "Y"				196.55
	Cost of 10 metre				1506.87
	Cost per metre				150.69
	Add labour cess @1%				1.51
	Rate per metre				152.20
21.19.3	Upto 20 mm depth and 20 mm width				
	Details of cost for 10m length width 20mm & depth 20mm				
	MATERIAL				
2604	Weather/structural non sag elastomeric PU sealant (600ml Sausage) for joints in RCC/Brick/Stone/ wood/ Ceramic/ Gypsum/Alluminium work complying to ASTM C920,DIN 18540-F & ISO 11600 incl all taxes	each	3.00	543.00	1629.00
8654	Masking tape	metre	20.00	2.18	43.60
2630	Baker rod	metre	10.00	6.00	60.00
9999	Sundries, including charges of Sealant gun machine, dhoti etc	L.S.	26.00	2.12	55.12
9977	Carriage of material	L.S.	8.40	2.12	17.81
	LABOUR				0.00
123	Mason (brick layer) 1st class	day	0.75	413.00	309.75
	TOTAL				2115.28
	Add 1 % Water charges				21.15
	TOTAL				2136.43 (X)
	Add GST 12% on "X"(multiplying factor 0.1405)				300.17
	TOTAL				2436.60 (Y)
	Add CPOH @ 15% on "Y"				365.49
	Cost of 10 metre				2802.09
	Cost per metre				280.21
	Add labour cess @1%				2.80
	Rate per metre				283.00



