



GOVERNMENT OF INDIA



CENTRAL PUBLIC WORKS DEPARTMENT

ANALYSIS OF RATES FOR DEBT

(Vol. 1)

2019

Director General, CPWD, New Delhi



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**DISCLAIMER**

The Delhi Analysis of Rates is indicative, as coefficients for labour are likely to vary due to technological innovations,

Price : Rs. 3200/- (for both volumes) excluding postage and forwarding charges etc.





1. C.P.W.D. Analysis of Rates for Delhi 2018 is the revised edition of C.P.W.D. Analysis of Rates for Delhi 2016.
2. Analysis of Rates for Delhi 2018 incorporates most of the analysis of items of Analysis of Rates for Delhi 2016 with updated correction slips, including analysis of existing items and also corresponding new items introduced in DSR 2018.
3. Analysis of Rates for Delhi, 2018 is published in two volumes i.e. volume I & II as under:

<b>Volume Number</b>	<b>Sub-head No.</b>	<b>Content/ Sub-head</b>
<b>One</b>	00	Basic Rates
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	02	Earth Work
	03	Mortars
	04	Concrete Work
	05	Reinforced Cement Concrete
	06	Masonry Work
	07	Stone Work
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**Volume  
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<b>SH. No.</b>	<b>NAME OF SUB-HEAD</b>	<b>PAGE No.</b>
13.	Finishing	895-994







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**BASIC RATES : 0.1 HIRE CHARGES OF PLANTS & MACHINERY**

Co  
Vo

De r p on

no

4



0100	Bandhani	day	617.00
0101	Bhisti	day	617.00
0102	Blacksmith 1st class	day	738.00
0103	Blacksmith 2nd class	day	679.00
0111	Carpenter 1st class	day	738.00
0112	Carpenter 2nd class	day	679.00
0113	Chowkidar	day	558.00
0114	Beldar	day	558.00
0115	Coolie	day	558.00
0116	Fitter (grade 1)	day	738.00
0117	Assistant Fitter or 2nd class Fitter	day	679.00
0119	Glazier	day	679.00
0122	Mason (for plaster of paris work) 1st class	day	738.00
0123	Mason (brick layer) 1st class	day	738.00
0124	Mason (brick layer) 2nd class	day	679.00
0125		day	679.00



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Code No.	Description	Unit	Rate ₹
036511	Soft brush11	e	2
036711	P	t	4940.00



Code No.	Description	Unit	Rate ₹
0571			

**Code**

*B A C A E , 3 A E A*

Code No.	Description	Unit	Rate ₹
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Code

Description

Unit

Ratc 17.20 0 17-3  
A

Code No.	Description	Unit	Rate ₹
1243	Tile fixing chemical adhesive	kg	8.70
1244	Cement Polymer Grout Compound	kg	16.00
1245	Acid for cleaning tiles	litre	18.00
1246	Silicon based Joint Sealant for Tiles	kg	160.00
1247	Rubber base Adhesive	kg	223.00
1248	Epoxy based sealing Compound	kg	535.00
1249	Acrylic based sealing compound	kg	500.00
1250	Non woven reinforcement Tape	metre	0.14
1251	M-60 grade cementitious grout (Non Shrink)	kg	28.00
1252	Cementitious polymer base adhesive confirming to EOTA ET		

Code

Description

Unit







Code No.	Description			Unit	Rate ₹
1736	1776	1786	1796	854617536 Tc 49.5602 0 Td LS	







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**CodeCode**

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Code	Description	Unit
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Code No.	Description	Unit	Rate ₹
7010	Galvanised Steel ceiling section (size 80x26x0.50 mm)	metre	46.00
7011	Galvanised Steel perimetre Channel (Size 20x27x30x0.50 mm)	metre	22.00
7012	Galvanised Steel intermediate Channel (Size 15x45x15x0.90 mm)	metre	38.00
7013	Galvanised Steel angle hangea (Celling angle) (Size 25x10x0.50 mm)	metre	12.00
7014	Galvanised Steel connecting clips (2.64 mm dia and 230 mm long GI wire)	each	4.00
7015	Galvanised Steel soffit cleat (Size 27x37x25x0.60 mm)	each	3.00
7016	Joint filler	kg	26.00
7017	Joint finisher	kg	23.00
7018	Joint tape roll	roll	100.00
7019	Dash fastenea / Chemical fastenea	each	14.00
7020	All drive screws (for gypsum board)	100 Nos	58.00
7021	Primer (for gypsum board)	litre	85.00
7022	Chlorpyriphos 20% E.C. / Lindane 20% E.C.	litre	150.00
7023	Chromium plated brackets (curtain rods)	each	7.00
7024	Acid Proof cement	tonne	7800.00
7025	Self tapping pan head nickel coated mild steel screws of size 13 x 3.2 mm	1000 Nos	525.00
7026	Fibre joint tape 50 mm wide (90 metre) roll	each roll	165.00

M.S. Butt h



Code

Description

*B A C A E , 3 A E A*

**Code**

**Description**

**Unit**

Code No.	Description	Unit	Rate ₹
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7248	V		
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Code No.	Description	Unit	Rate ₹
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Code

Description

UnitCode



Code No.	Description	Unit	Rate ₹
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Code No.	Description	Unit	Rate
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Code	Description	Unit	Rate
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*B A C A E , 3 A E A*

o.

Code

Description

Unit

Rate





Code No.	Descriptioc	Unit	Rate ₹
8308	PPR Union 32 mm	each	137.20
8309	PPR Union 40 mm	each	184.80
8310	PPR Union 50 mm	each	352.80
8311	PPR Union 63 mm	each	483.60
8312	PPR Union 75 mm	each	933.00
8500	Water for jetting / blowback	1000 litre	1500.00
8501	Polymer modified cementatioc coating	kg	140.00
8502	Fibre glass cloth	sqm	25.00
8504	Multi surface paint	litre	255.00



**Code**

**Description**

**Unit**







Code No.	Description	Unit	Rate
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Code No.	Description	Unit	Rate ₹
8858	Stainless steel Male thread Tee for 42.70 mm outer dia X 32 mm nominal dia threaded	each	683.00
8859	Stainless steel Male thread Tee for 42.70 mm outer dia X 40 mm nominal dia threaded	each	683.00
8860	Stainless steel Male thread Tee for 48.60 mm outer dia X 15 mm nominal dia threaded	each	887.00
8861	Stainless steel Male thread Tee for 48.60 mm outer dia X 20 mm nominal dia threaded	each	887.00
8862	Stainless steel Male thread Tee for 48.60 mm outer dia X 25 mm nominal dia threaded	each	887.00
8863	Stainless steel Male thread Tee for 48.60 mm outer dia X 32 mm nominal dia threaded	each	887.00
8864	Stainless steel Male thread Tee for 48.60 mm outer dia X 40 mm nominal dia threaded	each	887.00
8865	Stainless steel Male thread Tee for 48.60 mm outer dia X 50 mm nominal dia threaded	each	887.00
8866	Stainless steel Female thread Tee for 15.88 mm outer dia X 15 mm nominal dia threaded	each	179.00
8867	Stainless steel Female thread Tee for 22.22 mm outer dia X 15 mm nominal dia threaded	each	200.00
8868	Stainless steel Female thread Tee for 22.22 mm outer dia X 20 mm nominal dia threaded	each	200.00
8869	Stainless steel Female thread Tee for 28.58 mm outer dia X 15 mm nominal dia threaded	each	273.00
8870	Stainless steel Female thread Tee for 28.58 mm outer dia X 20 mm nominal dia threaded	each	273.00
8871	Stainless steel Female thread Tee for 28.58 mm outer dia X 25 mm nominal dia threaded	each	273.00
8872	Stainless steel Female thread Tee for 34.00 mm outer dia X 15 mm nominal dia threaded	each	437.00
8873	Stainless steel Female thread Tee for 34.00 mm outer dia X 20 mm nominal dia threaded	each	437.00
8874	Stainless steel Female thread Tee for 34.00 mm outer dia X 25 mm nominal dia threaded	each	437.00
8875	Stainless steel Female thread Tee for 34.00 mm outer dia X 32 mm nominal dia threaded	each	437.00
8876	Stainless steel Female thread Tee for 42.70 mm outer dia X 15 mm nominal dia threaded	each	683.00
8877	Stainless steel Female thread Tee for 42.70 mm outer dia X 20 mm nominal dia threaded	each	683.00
8878	Stainless steel Female thread Tee for 42.70 mm outer dia X 25 mm nominal dia threaded	each	683.00
8879	Stainless steel Female thread Tee for 42.70 mm outer dia X 32 mm nominal dia threaded	each	683.00
8880	Stainless steel Female thread Tee for 42.70 mm outer dia X 40 mm nominal dia threaded	each	683.00
8881	Stainless steel Female thread Tee for 48.60 mm outer dia X 15 mm nominal dia threaded	each	887.00
8882	Stainless steel Female thread Tee for 48.60 mm outer dia X 20 mm nominal dia threaded	each	887.00
8883	Stainless steel Female thread Tee for 48.60 mm outer dia X 25 mm nominal dia threaded	each	887.00

Code No.	Description	Unit	Rate	₹
8884	Stainless steel Female thread Tee for 48.60 mm outer dia X 32 mm nominal dia threaded	each	887.00	
8885	Stainless steel Female thread Tee for 48.60 mm outer dia X 40 mm nominal dia threaded	each	887.00	
8886	Stainless steel Female thread Tee for 48.60 mm outer dia X 50 mm nominal dia threaded	each	887.00	
8887	Stainless steel Female threaded Connector/Adapter for 15.88 mm outer dia X 15 mm nominal threaded	each	190.00	
8888	Stainless steel Female threaded Connector/Adapter for 22.22 mm outer dia X 15 mm nominal threaded	each	230.00	
8889	Stainless steel Female threaded Connector/Adapter for 22.22 mm outer dia X 20 mm nominal threaded	each	237.00	
8890	Stainless steel Female threaded Connector/Adapter for 28.58 mm outer dia X 15 mm nominal threaded	each	277.00	
8891	Stainless steel Female threaded Connector/Adapter for 28.58 mm outer dia X 20 mm nominal threaded	each	286.00	
8892	Stainless steel Female threaded Connector/Adapter for 28.58 mm outer dia X 25 mm nominal threaded	each	337.00	
8893	Stainless steel Female threaded Connector/Adapter for 34.00 mm outer dia X 25 mm nominal threaded	each	409.00	
8894	Stainless steel Female threaded Connector/Adapter for 34.00 mm outer dia X 32 mm nominal threaded	each	538.00	
8895	Stainless steel Female threaded Connector/Adapter for 42.70 mm outer dia X 32 mm nominal threaded	each	576.00	576.00





Code

Description

Unit

Rate

Code No.	Description	Unit	Rate
22	am oa	onn	2
22	Bt	No	2 2
22 2	on 2 2 a oy 4 mm nom na	m	
22	Coat an	m	
224	m t	m	

**Code**





**SUB HEAD : 1.0**

# **CARRIAGE OF MATERIALS**



## **CARRIAGE OF MATERIALS**

### **Data Sheet No 1 for Analysis of Rates**

#### **1.1 By Mechanical Transport including loading, unloading and stacking:**

Lead	Ave-	Nos of	Nos of	Litres of	Cost of	Litres of
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**1.1.18 Disposal of moorum/building rubbish/ malba/ similar unserviceable, dismantled or waste material by mechanical transport including loading, transporting, unloading to approved municipal dumping ground for lead upto 10 km for all lifts, complete as per directions of Engineer-in-charge.**





## 1.0 CARRIAGE OF MATERIALS

### Data Sheet for Analysis of Rates

Code	Name	Unit	Rate
0114	Beldar	Day	558.00
0115	Coolie	Day	558.00

The following labour work for 8 hours a day will carry following material upto 1st 50 metre as given below:

0114 Beldars 9.20 Nos @ 558.00 = 5133.60 (X)

Quantity of material as per column 3 of table below will be carried in 50 metres lead including loading and unloading.

NOTE:- 1.35 extra Beldar will be required for every additional lead of 50 metre 0114 coolie 1.35 Nos @ 558.00 = 753.30 (Y)

52.55982 Td 327)Tj9749382557 Tc 31.92034199 T75903.64

5m582033 T80638 T3519 (0.15)T 2 (.058203352951602 02 52.55982 Td 327)Tj9749382557 Tc 31.92034199 T75903.64

1.2.12	1.2.11	Stone blocks,G.I.,C.I.	Steel	27	tonne	0.15	5903.64	128.34	18.83
		Stainless Steel pipes							
		below 100 mm dia and							
		other heavy material							
	5903.64cum	162857 Tc 31.9203.65	46 t	46	tonne	0.15	5903.64	128.34	18.83
	1.2.12	Cement	57.99 t	57.99	tonne	0.15	5903.64	101.80	14.94
	1.2.13	Steel	27 t	27	tonne	0.15	5903.64	218.65	32.09
	1.2.14								







**SUB HEAD : 2.0**  
**EARTH WORK**









## 2.5 Deduct for not watering the excavated earth for banking

Code	Description	Unit	Quantity	Rate	Amount
	Details of cosxcavat10 cum.				
0101	LABOUR Bhisti	day			







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Code	Description	Unit	Quantity	Rate ₹	Amount ₹
2.8.1	0.40 + 0.45 = 0.85 m, 60x0.85x1.35 = 68.85 cum, 5% for collars = 3.44 cum, Total = 72.29 cum Rate as per item no. 2.8.1 of SH: Earth work	cum	72.29	252.30	18238.77 A
2.25	Rate as per Item Number 2.25 of SH: Earth Work	cum	72.29	219.65	15878.50 A
	TOTAL				34117.27
	Cost of 60m length of pipe				34117.27
	Cost for 1m length of pipe				568.62
	Say				568.60

**2.11 Extra for excavating trenches for pipes, cables etc. in all kinds of soil for depth exceeding 1.5 m, but not exceeding 3 m. (Rate is over corresponding basic item for depth upto 1.5 metre).**

Code	Unit	Quantity	Rate	Amount
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Slope assumed 1:200





2.9.2	Rate as per item no. 2.9.2 of SH: Earth Work Refilling, ramming and watering	cum	40.399	729.00	29450.87	A
2.25	Rate as per item No.2.25 of SH: Earth Work	cum	40.399	219.65	8873.64	A

### 2.13.3.2 Pipes, cables etc. exceeding 80 mm dia but not exceeding 300 mm dia

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 80 m length of a pipe of an average dia. say 200mm. Slope assumed 1:200 Excavation-				



	Max depth assumed 3.5m					
	Excavation-					
	100x0.90x2 = 180 cum.					
2.9.2	Rate as per item no. 2.9.2 of					
	SH: Earth Work	cum	180.00	729.00	131220.00	A
	100x1.90x1.25 = 237.5 cum					
2.7.2	Rate as per item no. 2.7.2 of					
	SH: Earth Work	cum	237.50	609.65	144791.88	A



1198	Second class kail wood in planks 90x0.038 = 3.42 cum = 3420 cudm Qty taken for cost of using once	10 cudm	21.375	260.00	5557.50
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1198	Second class kail wood in planks 90x0.038 = 3.42 cum = 3420 cudm Qty taken for cost of using once after deducting for credit = 3420x $\frac{1}{4}$ x $\frac{1}{4}$ = 213.75dm <sup>3</sup>	10 cudm	21.375	260.00	5557.50
1197	Wallings 100mmx 100mm of Second class kail wood in scantling 4x30x0.10x0.10 = 1.20cum = 1200 dm <sup>3</sup> Qty taken for cost of using once after deducting for credit = 1200x $\frac{1}{4}$ x $\frac{1}{4}$ = 75 dm <sup>3</sup>	10 cudm	7.50	260.00	1950.00
0302	Safeda ballies 125 mm diameter				

90x0.038= 213.753118' 0.0598243 Tc 0.1.3333 0 = .42 cum.= 213198 46' 0.0631804 Tc B.333 struts



## 2.17.2 Depth exceeding 1.5 m but not exceeding 3 m

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for a manhole 1.2m x 1.0m x1.5m- Surface area: $2 \times (1.2+1.0) \times 1.5 = 6.6\text{sqm}$ MATERIAL The Material can be used four times on the same work and after use of material credit is given @ 75% of cost Poling boards of				
1198	Second class kail wood in planks $6.6 \times 0.038 = 0.251 \text{ cum} = 251 \text{ cudm}$ Qty taken for cost of using once after deducting for credit = $251 \times \frac{1}{4} \times \frac{1}{4} =$ $15.6875 \text{ dm}^3$ Walling of	10 cudm	1.56875	260.00	407.88
1197	Second class kail wood in scantling $2 \times 2 \times 1.124 \times 0.1 \times 0.1 = 0.045 \text{ cum}$ $2 \times 2 \times 0.924 \times 0.1 \times 0.1 = 0.037 \text{ cum.}$ Total Kail wood = $0.082 \text{ cum.} = 82 \text{ dm}^3$ Qty taken for cost of using once after deducting for credit = $82 \times \frac{1}{4} \times \frac{1}{4} =$ $5.125 \text{ dm}^3$	10 cudm	0.5125	260.00	133.25
2	Safeda ballies 125 mm diameter and n long	metre	0.4118	40.00	16.47

### 2.17.3 Depth exceeding 3 m but not exceeding 4.5 m









**2.19      Extra for planking, strutting and packing materials for cavities (in close timbering)**

- 2.20 Open timbering in trenches including strutting and shoring complete  
(  
2.20.1 Depth not exceeding 1.5 m

Code	Description	Unit	Quantity	RaTj 0.021167907 Tc 52.9199 0 Td (Amount D783311 T40m 8 0 l 8 0 l 8fTjrfacTj .146258
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2.21 Open timbering in case of shafts, wells, cesspits, manholes and the like including strutting and shoring complete (Measurements to be taken of the face area timbered):

2.21.1 Depth not exceeding 1.5 m

Code	Description	Unit	Quantity	Rate	Amount
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1	1	.	5		m
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0101	Bhisti	day	0.20	617.00	123.40	
	TOTAL				1641.80	W
	Add 1 % Water charges on "W"				16.42	
	TOTAL				1658.22	X
	Add GST on "X" (multiplying factor 0.1405)				232.98	
	TOTAL				1891.20	Y
	Add 15% CPOH on "Y"				283.68	
	TOTAL				2174.88	Z
	Add Cess @ 1% on "Z"				21.75	







0101

9999



9999	Sundries	L.S.	1.82	2.00	3.64	
	TOTAL				477.94	W
	Add 1 % Water charges on "W"				4.78	
	TOTAL				482.72	X
	Add GST on "X" (multiplying factor 0.1405)				67.82	
	TOTAL				550.54	Y
	Add 15% CPOH on "Y"				82.58	
	TOTAL				633.12	Z
	Add Cess @ 1% on "Z"				6.33	
	Cost of 100 sqm				639.45	
	Cost of 1 sqm				6.39	
	Say					



### 2.33.4 Above 240 cm girth

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for a tree of average girth 300cm, average dia. 1m and length 10m				
	LABOUR				
	quantity of wood- (22 x 1 x 1 x 10)/ 7x4 = 7.86 cum + 20% Branches = 1.57 cum. Total = 9.43 cum.				
	Labour for cutting trees, removing roots from the soil and filling in pit & depressions:				
0114	Beldar	day	14.00	558.00	7812.00
0115	Coolie	day	7.00	558.00	3906.00
9999	Sundries	L.S.	26.91	2.00	53.82
	TOTAL				11771.82 W
	Add 1 % Water charges on "W"				117.72
	TOTAL				11889.54 X
	Add GST on "X" (multiplying factor 0.1405)				1670.48
	TOTAL				13560.02 Y
	Add 15% CPOH on "Y"				2034.00
	TOTAL				15594.02 Z
	Add Cess @ 1% on "Z"				155.94
	Cost of one tree				15749.96
	Say				Dehos/ Linda ofeX" epfiablals

## 2.35 Diluting and injecting chemical emulsion for POST-CONSTRUCTIONAL anti-





9999      Sundries, rent of sprayer and mortar

**2.35.5 Treatment at points of contact of wood work by chemical emulsion Chlorpyriphos/ Lindane (in oil or kerosene based solution) @ 0.5 litres per hole by drilling 6 mm dia holes at downward angle of 45 degree at 150 mm centre to centre and sealing the same.**

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 10 metres				
	MATERIAL				
	No. of holes $10.0/0.15 = 66.67+1 =$				
	67.67 holes. Say 68 holes				
	Chlordane 1% concentration required				
	$= 68 \times 0.5 = 34.00$ litres				











2. Cost of cement mortar (1:3) for 1 cum

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 cum				
	MATERIAL				
	(0.7175 cum. of cement = 1.02 tonne)				
	Cement required for cement mortar is 71.25%				
0367	Portland Cement	tonne	1.02	4940.00	5038.80
2209	Carriage of Cement	tonne	1.02	92.24	94.08
0983	Fine Sand (Zone IV)	cum	0.7125	900.00	641.25
2261	Carriage of Fine sand (1 part badarpur sand : 2 parts jamuna sand)	cum	0.7125	103.77	73.94
	LABOUR				
	For measuring, carrying, depositing and mixing-				
0114	Beldar	day	0.75	558.00	418.50
0101	Bhisti	day	0.07		43.19
9999	Hire and running charges of mechanical mixer		26.90		53.80
9999	Sundries		13.52		27.04
	Cost of 1.00 cum				
	Say				



Co e	Un i	Q a i	Ar-o n i	i ₹	a ₹
2261	Carriage of Fine sand (1 part badarpur sand : 2 parts jamuna sand) LABOUR For measuring, carrying, depositing and mixing-	cum	1.07	103.77	111.03
0114	Beldar	day	0.75	558.00	418.50
0101	Bhisti	day	0.07	617.00	43.19
9999	Hire and running charges of mechanical mixer	L.S.	26.91	2.00	53.82
9999	Sundries	L.S.	13.52	2.00	27.04
	Cost of 1.00 cum				4183.03
	Say				4183.05

0114	Beldar	day	0.75	558.00	418.50
0101	Bhisti	day	0.07	617.00	43.19
9999	Hire and running charges of mechanical mixer	L.S.	26.91	2.00	53.82
9999	Sundries	L.S.	13.52	2.00	27.04
	Cost of 1.00 cum				3176.58
	Say				

୩.୮ C ଫାଣ୍ଟି ମୋର୍ଟାର୍ ଥି ଫାଣ୍ଟି ଓ ଗୁଣ୍ଡା ଥି.

Co	De r p i on	Un	ଓ ଗୁଣ୍ଡା	ୱାଲ୍	ଆମୋଣ୍ଟ
	Details of cost for 1 cum MATERIAL (0.357 cum. of cement = 0.51 tonne) Cement requireT for cement mortar is 35.70%				
0367	Portland Cement	tonne	0.51	4940.00	2519.40
2209	Carriage of Cement	tonne	0.51	92.24	47.04
0982	Coarse sand (zone III)	cum	1.07	1350.00	1444.50
2203	Carriage of Coarse sand	cum	1.07	103.77	111.03
	LABOUR For measuring, carrying, depositing and mixing-				
0114	Beldar	day	0.75	558.00	418.50
0101	Bhisti	day	0.07	617.00	43.19
9999	H982 and running charges of mechanical mixer	L.S.	26.91	2.00	53.82
9999	Sundries	L.S.	13.52	2.00	27.04
	Cost of 1.00 cum				4664.53
	Say				4664.55

୩.୯ C ଫାଣ୍ଟି ମୋର୍ଟାର୍ ଥି ଫାଣ୍ଟି ଓ ଗୁଣ୍ଡା ଥି.

Co	De r p i on	Un	ଓ ଗୁଣ୍ଡା	ୱାଲ୍	ଆମୋଣ୍ଟ
	Details of cost for 1 cum MATERIAL (0.268 cum. of cement = 0.38 tonne) Cement requireT for cement mortar is 26.80%				
0367	Portland Cement	tonne	0.38	4940.00	1877.20
2209	Carriage of Cement	tonne	0.38	92.24	35.05
0982	Coarse sand (zone III)	cum	1.07	1350.00	1444.50
2203	Carriage of Coarse sand	cum	1.07	103.77	111.03
	LABOUR For measuring, carrying, depositing and mixing-				
0114	Beldar	day	0.75	558.00	418.50
0101	Bhisti	day	0.07	617.00	43.19
9999	H982 and running charges of mechanical mixer	L.S.	26.91	2.00	53.82
9999	Sundries	L.S.	13.52	2.00	27.04
	Cost of 1.00 cum				4010.34
	Say				4010.35

୩. C ଫାଣ୍ଟି ମୋର୍ଟାର୍ ଥି ଫାଣ୍ଟି ଓ ଗୁଣ୍ଡା ଥି.

Co	De r p i on	Un	ଓ ଗୁଣ୍ଡା	ୱାଲ୍	ଆମୋଣ୍ଟ
	Details of cost for 1 cum MATERIAL (0.214 cum. of cement = 0.31 tonne) Cement requireT for cement mortar is 21.40%				
0367	Portland Cement	tonne	0.31	4940.00	1531.40
2209	Carriage of Cement	tonne	0.31	92.24	28.59

0982	Coarse sand (zone III)	cum	1.07
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2. **উৎপাদন** **ক** **উৎপাদন** **ক**

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Details of cost for 1 cum

	LABOUR	
	For measuring, carrying, depositing and	
	mixing-	
0114	Beldar	day

**SUB HEAD : 4.0**  
**CONCRETE WORK**







0155	LABOUR Mason (average)
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9999



2202	Carriage of Stone aggregate below 40 mm nominal size	cum	0.24	103.77	24.90
0982	Coarse sand (zone III)	cum	0.47	1350.00	634.50
2203	Carriage of Coarse sand	cum	0.47	103.77	48.77
0367	Portland Cement (0.1175 cum)	tonne	0.17	4940.00	839.80
2209	Carriage of Cement	tonne	0.17	92.24	15.68
	LABOUR				
0155	Mason (average)	day	0.10	709.00	70.90
0114	Beldar	day	1.63	558.00	909.54
0101	Bhisti	day	0.70	617.00	431.90
0002	Hire charges of Concrete Mixer 0.25 to 0.40 cum with hooper	day	0.07	800.00	56.00
0012	Vibrator(Needle type 40mm)	day	0.07	370.00	25.90
9999	Sundries	L.S.	13.52	2.00	27.04
	TOTAL				4327.25 W
	Add 1 % Water charges on "W"				43.27
	TOTAL				4370.52 X
	Add GST on "X" (multiplying factor 0.1405)				614.0603 s8(TOTAL)Tj 0.01









	LABOUR				
0114	Beldar	day	0.90	558.00	502.20
0115	Coolie	day	0.78	558.00	435.24
0101	Bhisti	day	0.70		

0115	Coolie	day	1.88	558.00	1049.04	
	TOTAL				6393.80	W
	Add 1 % Water charges on "W"				63.94	
	TOTAL				6457.74	X
	Add GST on "X" (multiplying					



40 times, Adding for maintenance @  
10% of cost, Taking salvage value  
after full use of material @ 25% of  
cost

7319	Wall form panel 1250x500 mm	each	0.34	860.00	292.40
	Qty taken for cost of using once = $16 \times 0.85 / 40 = 0.34$				
7326	Corner angle 45x45x5 mm 1.50 m long	each	0.085	240.00	
	Qty taken for cost of using once = $16 \times 0.850 / 40 = 0.34$				

40

860.00

each 0.34



7331	Wall form panel 1250x450 mm Qty taken for cost of using once = $8 \times 0.85 / 40 = 0.17$	each	0.17	860.00	146.20
7332	Corner angle 45x45x5 mm 2.50 m long Qty taken for cost of using once = $4 \times 0.85 / 40 = 0.085$	each	0.085	255.00	21.68
7333	Column clamp 450x1070 mm Qty taken for cost of using once = $5 \times 0.85 / 40 = 0.1063$	each	0.1063	965.00	102.58
7334	Prop 2 m ( 2-3.5m) Qty taken for cost of using once = $4 \times 0.85 / 40 = 0.085$	each	0.085	635.00	53.98
9999	Assembly nut & bolt	L.S.	27.62	2.00	55.24
	CARRIAGE	L.S.	52.00	2.00	104.00
	LABOUR				
0116	Fitter (grade 1)	day	1.00	738.00	738.00
0114	Beldar	day	2.00		











finished contents =  $1\text{m} \times 0.5\text{m} \times 0.1\text{m} =$

0.05cum

MATERIAL

Cement concrete 1:1.5:3

Net qty =  $0.05[6 \times 0.5 \times \{2 \times 1/2(0.05+7)\} \times$

0.074] = 0.023cum











0114

2261	Carriage of Fine sand (1 part badarpur sand : 2 parts jamuna sand)	cum	0.06	103.77	6.23
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0004

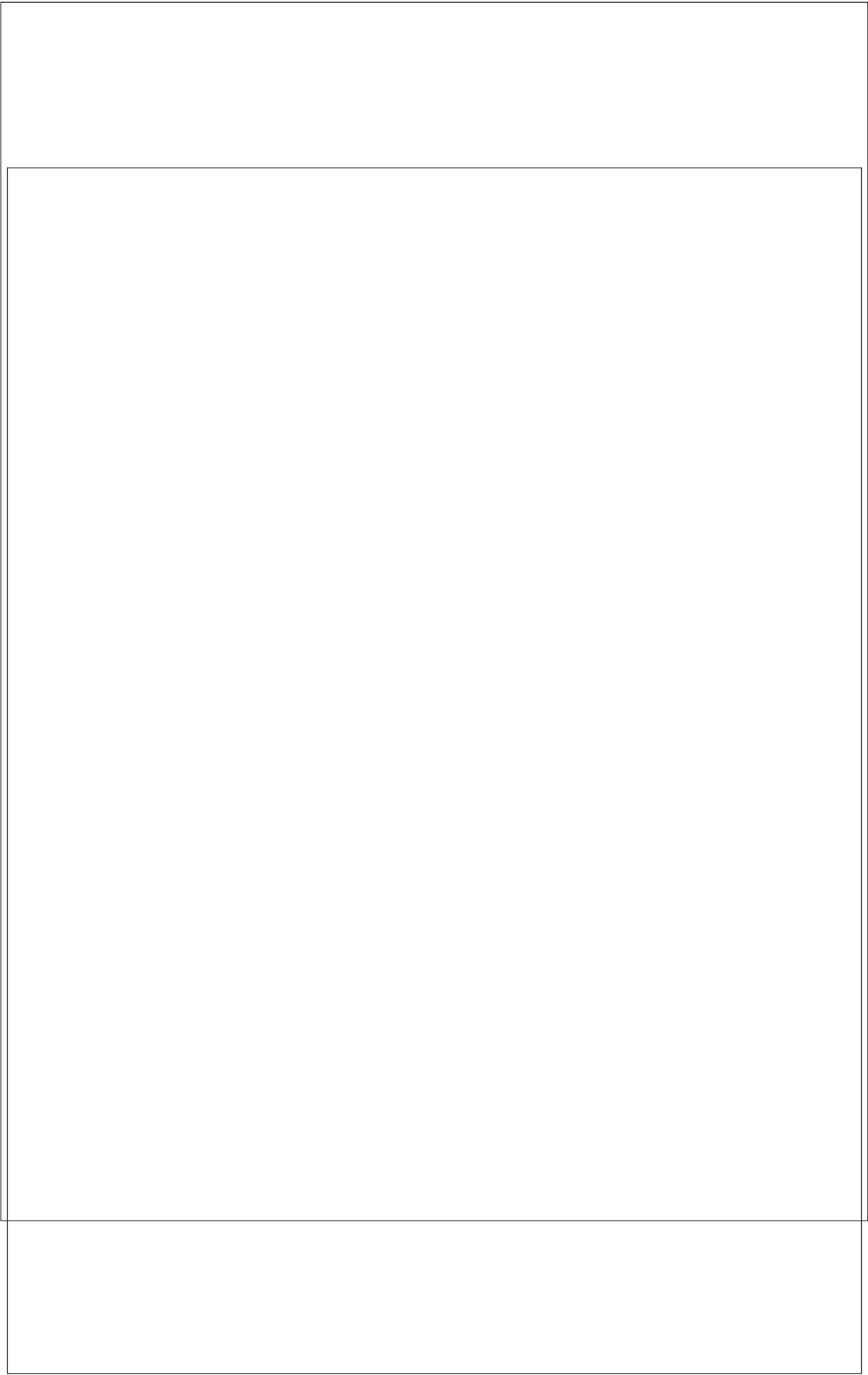
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0367	Portland Cement	tonne	0.22	4940.00	1086.80
2209	Carriage of Cement	tonne	0.22	92.24	20.29
7318	Plasticizer / super plasticizer	kilogram	1.10	36.00	39.60
	Production cost, pumping to respective floors and laying in position				
0004	Production cost of concrete by batch mix plant.	cum	1.00	350.00	350.00
0029	Carriage of concrete by transit mixer.	km/ cum			

7318	Plasticizer / super plasticizer Production cost, pumping to respective floors and laying in position	kilogram	1.20	36.00	43.20
0004	Production cost of concrete by batch mix plant.	cum			







- 5.1 Providing and laying in position specified grade of reinforced cement concrete, excluding the cost of centering, shuttering, finishing and reinforcement - All work up to plinth level :
- 5.1.2 1:1.5:3 (1 cement : 1.5 coarse sand (zone-III): 3 graded stone aggregate 20 mm nominal size)

	LABOUR				
0155	Mason (average)	day	0.17	709.00	120.53
0114	Beldar	day	2.00	558.00	1116.00
0101	Bhisti	day	0.90	617.00	555.30
0002	Hire charges of Concrete Mixer				
	0.25 to 0.40 cum with hooper	day	0.07		
				1116.00	

9999

Scaffolding

L.S.



Code	Description	Unit	Quantity	Rate ₹	Amount
0115	Coolie	day	1.88	558.00	1049.04
	TOTAL				7297.65 W
	Add 1 % Water charges on "W"				72.98
	TOTAL				7370.63 X
	Add GST on "X" (multiplying factor 0.1405)				1035.57
	TOTAL				8406.20 Y
	Add 15% CPOH on "Y"				1260.93
	TOTAL				9667.13 Z
	Add Cess @ 1% on "Z"				96.67
	Cost for 1 cum.				9763.80
	Say				9763.80

**5.5 Reinforced cement concrete work in arches, archribs, domes, vaults, shells, folded plate and roofs having slope more than 15° up to floor five level, excluding the cost of centering, shuttering, finishing and reinforcement, with 1:1.5:3 (1 cement : 1.5 coarse sand (zone-III) : 3 graded stone aggregate 20 mm nominal size).**

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 26.73cum for semicircular arch 6m clear span and 9m long and 30cm thick. Cement concrete 1:1.5:3 = 1x0.50x3.14x6.30x9.00x0.30 = 26.73cum MATERIA%				
0295	Stone Aggregate (Single size) : 20 mm nominal size	cum	153.36	1500	229,980











#### 5.9.4 Shelves (Cast in situ)

Code	Description	Unit	Quantity	Rate	Amount
	Detail of cost for a room 4.50x3 =				



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### 5.9.10 Extra for arches, domes, vaults exceeding 6 m span

Code	Description	Unit	Quantity	Rate	Amount
	<p>Details of cost for 33.31 sqm  Centering and shuttering for arches  and carved surface exceeding 6m in  span (an average of 8m)  Radius R = 5m <math>2R-2 = 8</math>  <math>\tan^{-1} (4/3)=53.28^\circ</math>  <math>2 \times 53.28^\circ = 106^\circ</math>  Surface area <math>= 2 \times 22/7 \times 5 \times 3.6 \times 106/360 = 33.31 \text{sqm.}</math>  Arc <math>= 9.25 \text{m}</math>  MATERIAL  Tie <math>- 2 \times 8 \times 0.18 \times 0.05 = 0.144 \text{cum}</math>  Struts <math>- 2 \times 2.5 \times 0.1 \times 0.1 = 0.050 \text{cum.}</math>  Struts <math>- 2 \times 1.77 \times 0.1 \times 0.1 = 0.035 \text{cum.}</math>  Ribs <math>- 6 \times 1.54 \times 0.23 \times 0.1 = 0.213 \text{cum.}</math>  Struts <math>- 2 \times 1.72 \times 0.1 \times 0.1 = 0.034 \text{cum.}</math>  Total <math>= 0.476 \text{cum.}</math>  For four such frames <math>= 0.476 \times 4 = 1.904 \text{ cum.}</math>  laggings <math>- 75 \times 3.6 \times 0.125 \times 0.075 = 2.531 \text{cum.}</math>  Tie <math>- 2 \times 3.6 \times 0.225 \times 0.038 = 0.062 \text{cum.}</math>  Brace <math>- 3 \times 2 \times 2.14 \times 0.225 \times 0.038 = 0.110</math>  Brace <math>- 3 \times 4 \times 3.8 \times 0.225 \times 0.038 = 0.390</math>  Sleepers <math>- 4 \times 3.6 \times 0.20 \times 0.15 = 0.432</math>  Sleepers <math>- 2 \times 4 \times 3.6 \times 0.175 \times 0.075 = 0.348</math>  Vertical post <math>- 4 \times 4 \times 3.6 \times 0.15 \times 0.15 = 1.296</math>  Total <math>= 7.103 \text{cum. or } 7103 \text{ cudm}</math>  Qty taken 1/8th of qty for cost using  once <math>= 7.103/8 = \text{cum} = 887.9 \text{ Cudm}</math></p>				
1197	Second class kail wood in scantling	10 cudm	88.79	260.00	23085.40
2204	0.0633501342 Tc 47.1602 0 Td 0.39999 Tw (Carriage of Timber 0.063387539 Tc 188.64 0 Td (cum)Tj 0.0462344 Tc 61.0				

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TOTAL	4165.51	
Add for carriage, labour for erection and dismantling etc @ 1/6 (16.667%) of cost of material	694.27	
TOTAL	4859.78	W
Add 1 % Water charges on "W"	48.60	
TOTAL	4908.38	X
Add GST on "X" (multiplying factor 0.1405)	689.63	
TOTAL	5598.01	Y
Add 15% CPOH on "Y"	839.70	
TOTAL	6437.71	Z
Add Cess @ 1% on "Z"	64.38	
Cost for 26.39sqm.	6502.08	
Cost per sqm.	246.38	
Say	246.40	

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7327	100 mm channel shoulder 2.5 m long	each	0.17
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1197	Second class kail wood in scantling (ii) Battens 75mmx100mm (2nd class Kail wood) Horizontal $2 \times 4 \times 0.075 \times 0.1 \times 0.5 = 0.030$ Horizontal $2 \times 4 \times 0.075 \times 0.1 \times 1.5 = 0.090$ (iii) Vertical battens $16 \times 0.15 \times 0.075 \times 0.030 \text{m} = 0.0054$ (iv) Struts	10 cudm	1.9375	260.00	503.75
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	LABOUR				
	Labour for assembling, erection, dismantling & cleaning				
0112	Carpenter 2nd class	day	0.80	679.00	543.20
0114	Beldar	day	0.80	558.00	446.40
9999	Sundries	L.S.	7.15	2.00	14.30
	TOTAL				1460.16 W
	Add 1 % Water charges on "W"				14.60
	TOTAL				1474.76 X
	Add GST on "X" (multiplying factor 0.1405)				207.20
	TOTAL				1681.97 Y
	Add 15% CPOH on "Y"				252.30
	TOTAL				1934.26





10.1

**5.9.21    Lintels, beams, plinth beams, girders, bressumers and cantilevers. with water proof ply 12 mm thick**

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for a beam of 6 m clear span, 0.50 m deep 0.30 m wide				







	7346	Double coupler (40x40)		each	0.4463	46.00	20.53
		Qty taken for cost using once =					
		21 x0.85/40 = 0.4463					
	9977	Carriage		L.S.	65.00	2.00	130.00
		LABOUR					
	0116	Fitter (grade 1)		day	3.00	738.00	
0114	Beldar		day	6.00	558.00		
Sundries		L.S.	130.00	2.00	260.00		











**5.17 Providing, hoisting and fixing above plinth level up to floor five level precast reinforced cement concrete in vertical & horizontal fins, individually or forming box louvers, setting in cement mortar 1:2 (1 cement : 2 coarse sand), including the cost of required centering, shuttering but , excluding the cost of reinforcement, with 1:1.5:3 (1 cement : 1.5 coarse sand(zone-III) : 3 graded stone aggregate 20 mm nominal size).**

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 4 RCC vertical fins 4m high at 1m centre to centre with two horizontal fins, all projecting 60cm from face of wall and 5cm thick cubical contents = 0.66 cum. MATERIAL Cement concrete 1:1½:3				
4.1.2	Rate as per Item No.4.1.2 of SH: Concrete Work	cum	0.66	7210.55	4758.96 A
	Centering and shuttering				
4.3.1	Rate as per item no. 4.3.1 of SH: Concrete work	sqm	2.56	284.85	729.22 A
	Extra labour for lifting material upto floor V level				
0115	Coolie	day	0.75	558.00	418.50
	LABOUR				
	Extra labour for laying cement concrete in RCC work due to delay etc.ng cement	2.56			

**5.18 Providing precast cement concrete Jali 1:2:4 (1 cement : 2 coarse sand(zone-III) : 4 graded stone aggregate 6mm nominal size ), reinforced with 1.6 mm dia mild steel wire, including centering and shuttering, roughening cleaning, fixing and finishing in cement mortar 1:3 (1 cement: 3 fine sand) etc. complete, excluding plastering of the jambs, sills and soffits.**

**5.18.1 50 mm thick**

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for jali 2.00mx 0.75m = 1.50 sqm.				
0768	Cement Concrete Jali 50 mm thick	sqm	1.50	400.00	600.00
9999	Mortar for fixing	L.S.	6.24	2.00	12.48
9988	Carriage and sundries	L.S.	6.20	2.00	12.40
	LABOUR				
0123	Mason (brick layer) 1st class	day	0.30	738.00	221.40
0124	Mason (brick layer) 2nd class	day	0.30	679.00	203.70
0114	Beldar	day	1.08	558.00	602.64
	TOTAL				1652.62 W
	Add 1 % Water charges on "W"				16.53
	TOTAL				1669.15 X
	Add GST on "X" (multiplying factor 0.1405)				234.52
	TOTAL				1903.66 Y1.08
	<del>TOTAL</del>				









9999	Sundries and binding wire	L.S.	26.91	2.00	53.82	
	TOTAL				6136.51	W
	Add 1 % Water charges on "W"				61.37	
	TOTAL				6197.87	X
	Add GST on "X" (multiplying factor					

1005	Twisted steel / deformed bars	quintal	1.05	4600.00	4830.00
2205	Carriage of Steel $1.05/10 = 0.105t$				

**5.22.5 Hard drawn steel wire fabric**

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 1 quintal- MATERIAL Hard drawn steel wire fabric 100kg , 7.75kg per sqm = 12.903 sqm. Add 5% wastage = 0.645 sqm. Total =13.548 sqm				

9999	Sundries and binding wire	L.S.	26.91
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**5.23 Smooth finishing of the exposed surface of R.C.C. work with 6 mm thick cement mortar 1:3 (1 Cement : 3 fine sand).**

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 10sqm. MATERIAL Cement mortar 1 : 3 (1 cement : 3 fine sand)				



MATERIAL

Bitumen 85/25 @ 1050kg per cum.

$1.125 \times 1050 \text{ kg} = 1181.25 \text{ kg}$

Add wastage @ 5% = 59.06 kg.

= 1240.31 = 1.240 tonne

0313	Blown type petroleum bitumen of penetration 85/25 of approved quality	tonne	1.24	34000.00	42160.00
2211	Carriage of Tar/ bitumen	tonne	1.24	103.77	128.67
0370	Coal (steam)	quintal	2.480	440.00	1091.20
	For heating of bitumen @ 2.0 quintal per tonne of bitumen.				
	$1.240 \times 2.0 = 2.48 \text{ q} = 0.248 \text{ t}$				
2200	Carriage of /La4.4rtal				

2200	Carriage of steam coal	tonne	0.061	120.00	7.32
0367	Portland Cement	tonne	0.0036	4940.00	17.78
	1/80x288.34=3.6 kg = 0.0036 Tonne				
2209	Carriage of Cement	tonne	0.0036	92.24	0.33
0982	Coarse sand (zone III)	cum	0.90	1350.00	1215.00
	1/4th of the quantity of cement in				
	kg = 3.6/4= 0.90 cum				
2203	Carriage of Coarse sand	cum	0.90	103.77	93.39
	LABOUR				
	Labour for heating and filling :				
0123	Mason (brick layer) 1st class	day	2.52	738.00	1859.76
0124	Mason (brick layer) 2nd class	day	2.52		

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	LABOUR				
0123	Mason (brick layer) 1st class	day	0.12	738.00	88.56
0124	Mason (brick layer) 2nd class	day	0.12	679.00	81.48
0114	Beldar	day	0.25	558.00	139.50
9999	Sundries	L.S.	26.91	2.00	53.82
	TOTAL				











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5.33.2













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- 5.41**      **Supplying and applying pre tested and approved water based concrete curing compound to concrete/ masonry surface, all as per manufacturer's specification and direction of Engineer-in-charge.**
- 5.41.1**    **Non pigmented wet curing compound**

<b>Code</b>	<b>Description</b>	<b>Unit</b>	<b>Quantity</b>	<b>Rate</b>	<b>Amountte</b>
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9999	Sundries	L.S.	<del>104</del> <b>TOTAL</b>	2.00	4.68
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corresponding aluminum extrusion cavity to allow freedom of movement and flexure in all directions including vertical displacement. Provision of Moisture Barrier Membrane in the Joint System to have watertight joint is mandatory requirement all as per the manufactures design and as approved by Engineer -in-Charge. (Material shall confirm to ASTM 6063).

**5.44.1 Floor Joint of 100 mm gap**

Code	Description	Unit	Quantity	Rate	Amount
	Details of Cost of 1 metre. MATERIALS :				
2403		metre	1.00	321..00	321..00
2402	Epoxy adhesive	kg	<del>4.5</del> 500	637.50	
9977	Carriage				
2403	MATERIALS :				



### 5.44.3 Floor Joint of 200 mm gap

Cod6	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of Cost of 1 metre.				
	MATERIALS :				
2405	Floor Joint of 200 mm	metre	1.00	5400.00	5400.00
2402	Epoxy adhesive	kg	4.75	150.00	712.50
9977	Carriage	L.S.	124.90	2.00	249.80
	LABOUR :				
0102	Blacksmith 1st class	day	0.05	738.00	36.90
0123	Mason (brick layer) 1st class	day	0.10	738.00	73.80
0114	Beldar	day	0.15	558.00	83.70
	TOTAL				6556.70 W
	Add 1 % Wat6r charges on "W"				65.57
	TOTAL				6622.27 X
	Add GST on "X" (multiplying factor 0.1405)				930.43
	TOTAL				7552.70 Y
	Add 15% CPOH on "Y"				1132.90
	TOTAL				8685.60 Z
	Add Cess @ 1% on "Z"				86.86
	Cost of 1 metre.				8712.46
	Say				8712.45

0114	Beldar	day	0.15	558.00	83.70
	TOTAL				





0114

Beldar

day





**5.48.1 Reinforced Cement Concrete -M-50**

Code	Description	Unit	Quantity	Rate	Amount
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**5.48.3    Extra for using M-50/ M-60 Grade Self-compacting Cement Concrete**

<b>Code</b>	<b>Description</b>	<b>Unit</b>	<b>Quantity</b>
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0367 MATERIALS :

0066	MACHINERY : Batching and Mixing Plant @ 75 cum per hour	hour	1.60	2400.00	3840.00
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0029      Carriage of concrete by transit mixer

0082	Excavation of Diaphragm wall by Mechanical Grab	sqm	240.00	1300.00	312000.00	
	Guide wall RCC 1:2:4					
	RCC 2x20x(0.45+1.5)x.15 = 11.70 cum					
5.1.3	Rate as per Item No.5.1.3 of SH: REINFORCED CEMENT CONCRETE	cum	11.70	7296.35	85367.30	A
	Reinforcement@ 70 kg/Cum for guide wall= 11.70x 70 kg/cum= 819 kg					
5.22.6	Rate as per Item No.5.22.6 of SH: REINFORCED CEMENT CONCRETE	kilogram	819.00	83.50	68386.50	A
	Add for chipping/dismantling top 50 cm contaminated concrete =20 x 0.50 x 0.60= 6.00 cum					
	RMC M-30 as per qty=144.00 cum					
	Add 10% extra for bulges etc. i.e.					

9999	Labour for grouting diaphragm wall under pressure i/c fixing nozzle etc	L.S.	23530.00	2.00	47060.00
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**SUB HEAD : 6.0**  
**MASONRY WORK**





**6.1 Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundation and plinth in:**  
**6.1.1 Cement mortar 1:4 (1 cement : 4 coarse sand)**

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 1 cum MATERIAL				
2602	Common burnt clay F.P.S. (non modular) bricks class designation 7.5	1000 Nos	0.494	4500.00	2223.00
2201	Carriage of Bricks Cement mortar 1 : 4 (1 cement : 4 coarse sand)	1000 Nos	0.494	276.72	136.70
3.9	0.77498				



2201	Carriage of Bricks	1000 Nos	0.487	276.72	134.76
	Cement mortar 1 : 6 (1 cement : 6 coarse sand)				
3.11	Rate as per item No 3.11 of SH: Mortar	cum	0.22	3356.15	738.35
9999	Sundries	L.S.	2.73	2.00	5.46
	LABOUR				
0123	Mason (brick layer) 1s5.765as				



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Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0115	Coolie	day	1.80	558.00	1004.40
0101	Bhisti	day	0.20	617.00	123.40
9999	Scaffolding	L.S.	22.36	2.00	44.72
	Extra labour element required for lifting of materials (above floor two level upto floor five level)				
0115	Coolie	day	1.13	558.00	630.54
	TOTAL				5673.25 W
	Add 1 % Water charges on "W"				56.73
	TOTAL				5729.98 X
	Add GST on "X" (multiplying factor 0.1405)				805.06
	TOTAL				6535.04 Y
	Add 15% CPOH on "Y"				980.26
	TOTAL				7515.30 Z
	Add Cess @ 1% on "Z"				75.15
	Cost of 1 Cum.				7590.45
	Say				7590.45

**6.5 Extra for brick work / AAC block masonry / Tile brick masonry in superstructure above floor V level, for each four floors or part thereof by mechanical means.**

Code	Description	Unit	Quantity	Rate ₹	Amount
	Details of cost for 5.3 cum per four floors .				
0037	Mobile crane	day	0.125	7500.00	
	TOTAL				937.50
	Add 1 % Water charges on "W"			9.38	
	TOTAL			946.88	X
	Add GST on "X" (multiplying factor 0.1405)			133.04	
	TOTAL			1079.91	Y
	Add 15% CPOH on "Y"			161.99	
	TOTAL			1241.90	Z
	Add Cess @ 1% on "Z"			12.42	
	Cost of 5.3 Cum.			1254.32	
	Cost for 1 cum			236.66	
	Say			236.65	





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9999	Sundries Centring and shuttering	L.S.	2.73	2.00	5.46
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Code	Description	Unit	Rate	Amount	
0101	Bhisti	day	0.70	.17.00	431.90
	TOTAL				5783.23 W
	Add 1 % Water charges on "W"				57.83
	TOTAL				5841.07 X
	Add GST on "X" (multiplying factor 0.1405)				820.67
	TOTAL				6661.74 Y
	Add 15% CPOH on "Y"				999.26
	TOTAL				7661.00 Z
	Add Cess @ 1% on "Z"				76..1
	Cost for 10 sqm.				7737..1
	Cost for 1 sqm.				773.76
	Say				773.75







**6.16.2 Cement mortar 1:6 (1 cement : 6 coarse sand)**

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 1 cum. MATERIAL				
1984	Common burnt clay F.P.S. (non modular) bricks tile class designation 10	1000 Nos	0.777	4500.00	3496.50
	Cement mortar 1 : 6				
3.11	Rate as per Item Number 3.11 of SH: Mortars	cum	0.40	3356.15	1342.46
2207	Carriage of Brick tiles	1000 Nos	0.777	166.03	129.01

Bhisti

0.20

123.40

123.1598 0 TY462304g66121







- 6.24** Extra for laying brick work in or under water and/or liquid mud including cost of pumping or bailing out water and removing slush etc. complete.
- NOTE :-** The quantity will be calculated by multiplying the depth measured from sub - soil water level up to the centre of gravity of brick work under sub - soil water with the quantity of brick work in cum. executed under the sub - soil water. The depth of centre of gravity shall be reckoned correct to 0.1 m, 0.05 m or more shall be taken as 0.1 m and less than 0.05 m ignored.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0011	Details of cost for depth of water 0.30m depth. Quantity of concrete = 14 cum. pumping hours = 3 hrs. on 0.375 day. Hire charges of Pumpset of capacity 4000 litres/hour.	day	0.375	700.00	262.50
0114	Beldar	day	4.00	558.00	2232.00
	TOTAL				2494.50 W
	Add 1 % Water charges on "W"				24.95
	TOTAL				2519.45 X
	Add GST on "X" (multiplying factor 0.1405)				353.98
	TOTAL				2873.43 Y
	Add 15% CPOH on "Y"				431.01
	TOTAL				3304.44 Z
	Add Cess @ 1% on "Z"				33.04
	Cost of 14cum. per 0.30m depth				3337.49
	Cost of cum. per m depth				794.64
	Say				794.65

Code	Description	Unit	Quantity	Rate	Amount
0123	Details of cost for 1 cum. Extra labour due to slow progress- Mason (brick layer) 1st class	day	9	262.50	2362.50
	Add GST @ 12% on 2362.50				283.50
	TOTAL				2646.00
	Add Cess @ 1% on 2646.00				26.46
	TOTAL				2672.46







Code



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Code	Description	Unit	Quantity	Rate	Amount
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3.11 Cement mortar 1 : 6 (1 cement :  
6 coarse sand) (Rate as per item  
No 3.11)

~~CU 22~~

3356.15

738.35

9999 Sundries i/c steel / wooden strips for  
making grooves  
LABOUR

L.S.

16.38

2.00

32.76

0123 Mason (brick layer) 1st class

day

9999	Sundries	L.S.	22.36	2.00	44.72	
	TOTAL				5646.02	W
	Add 1 % Water charges on "W"				56.46	
	TOTAL				5702.48	X

Code	Description	Unit	Quantity	Rate	Amount
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Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 1 cum.				
	MATERIAL				
8655	Autoclaved aerated cement (AAC) blocks.				

	Description	Unit	Quantity	Rate	Amount
8657	Bonding plaster for Gypsum panel.	kg	25.00	25.00	625.00
9999	Sundries & scaffolding	L.S.	13.52	2.00	27.04
	LABOUR				
0123	Mason (brick layer) 1st class	day	0.50	738.00	369.00
0114	Beldar	day	1.00	558.00	558.00
	TOTAL				6379.04 W
	Add 1 % Water charges on "W"				63.79
	TOTAL				6442.83 X
	Add GST on "X" (multiplying factor 0.1405)				905.22
	TOTAL				7348.05 Y
	Add 15% CPOH on "Y"				1102.21
	TOTAL				8450.26 Z
	Add Cess @ 1% on "Z"				84.50
					8534.76
					853.48
	Say				853.50

Code	Description				
2602	Common burnt clay F.P.S. (non modular) bricks class designation 7.5	1000 Nos	0.046	4500.00	207.00
2201	Carriage of Bricks	1000 Nos	0.046	276.72	12.73
	Cement mortar 1 : 4 (1 cement : 4 fine sand)				
3.4	Rate as per Item Number 3.4 of SH: Mortars	cum	0.0036	3528.85	12.70
	LABOUR				
0155	Mason (average)	day	0.10	709.00	70.90
0114	Beldar	day	0.10	558.00	55.80
0101	Bhisti	day	0.03	617.00	18.51
9999	Sundries	L.S.	2.73	2.00	5.46
	TOTAL				388.56 W
	Add 1 % Water charges on "W"				3.89
	TOTAL				392.45 X
	Add GST on "X" (multiplying factor 0.1405)				55.14
	TOTAL				447.59 Y
	Add 15% CPOH on "Y"				67.14
	TOTAL				514.73 Z
	Add Cess @ 1% on "Z"				5.15
	Cost of 10 metres				519.87
	Cost of 1 metre				51.99
	Say				52.00

0115	Coolie	day	1.29	558.00	719.82	
	TOTAL				7036.88	W
	Add 1 % Water charges on "W"				70.37	
	TOTAL				7107.25	X



Code	Description	Unit	Quantity
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**SUB HEAD : 7.0**  
**STONE WORK**



- 7.1 Random rubble masonry with hard stone in foundation and plinth including levelling up with cement concrete 1:6:12 (1 cement : 6 coarse sand : 12 graded stone aggregate 20 mm nominal size) upto plinth level with :**
- 7.1.1 Cement mortar 1:6 (1 cement : 6 coarse sand)**

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 1 cum MATERIAL				
1157	Stone for masonry work	cum			











9999	Sundries, scaffolding etc.	L.S.	37.70	2.00	75.40	
	TOTAL				6515.98	W
	Add 1 % Water charges on "W"				65.16	
	TOTAL				6581.14	X
	Add GST on "X" (multiplying factor 0.1405)				924.65	
	TOTAL				7505.80	Y
	Add 15% CPOH on "Y"				1125.97	
	TOTAL				8631.66	Z

**7.10 Extra for coursed rubble masonry with hard stone (first or second sort) in:**  
**7.10.1 Square or rectangular pillars**

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 1 cum				
	LABOUR				
0125	Mason (for plain stone work) 2nd class)	day	0.67	679.00	300.16
0115	Coolie	day	0.27	558.00	150.66
	TOTAL				450.82 W
	Add 1 % Wate wiharges on "W"				4.51
	TOTAL				455.33 X
	Add GST on "X" (multiplying factor				
	0.1405)				63.97
	TOTAL				519.30 Y
	Add 15% CPOH on "Y"				77.90
	TOTAL				597.20 Z

0125

Code	Description	Unit	Quantity		
9999	Scaffolding	L.S.	2.73	2.00	5.46
9999	Mortar for laying and pointing	L.S.	8.06	2.00	16.12
	TOTAL				352.28 W
	Add 1 % Water charges on "W"				3.52
	TOTAL				355.80 X
	Add GST on "X" (multiplying factor 0.1405)				49.99
	TOTAL				405.79 Y
	Add 15% CPOH on "Y"				60.87
	TOTAL				466.66 Z
	Add Cess @ 1% on "Z"				4.67
	Cost of 10 cudm.				471.32
	Cost of 1 cum.				47132.00
	Say				47132.00







9999



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0115	Coolie	day	0.015	558.00	8.37
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0115	Coolie	day	0.015	558.00
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9999	Centring and shuttering	L.S.	33.15	2.00	66.30	
9999	Extra for using white cement	L.S.	8.06	2.00	16.12	
	Extra labour for lifting of material up to floor five level (0.01 x 1.5 = 0.015)					
0115	Coolie	day	0.015	558.00	8.37	
	TOTAL				792.29	W
	Add 1 % Water charges on "W"				7.92	
	TOTAL				800.22	X
	Add GST on "X" (multiplying factor 0.1405)				112.43	
	TOTAL				912.65	Y
	Add 15% CPOH on "Y"				136.90	
	TOTAL				1049.55	Z
	Add Cess @ 1% on "Z"				10.50	
	Cost of 10 cu dm.				1060.04	
	Cost of 1 cum.				106004.00	
	Say				106004.00	



9999	Mortar for laying and pointing	L.S.	8.06	2.00	16.12
9999	Centring and shuttering	L.S.	33.15	2.00	66.30
9999	Extra for using white cement	L.S.	8.06	2.00	16.12









0115	Coolie	day	0.022	558.00	12.28	
0100	Bandhani	day	0.022	617.00	13.57	
0101	Bhisti	day	0.022	617.00	13.57	
9999	Scaffolding	L.S.	2.73	2.00	5.46	
9999	Mortar for laying and pointing	L.S.	8.06	2.00	16.12	
	TOTAL				609.01	W
	Add 1 % Water charges on "W"				6.09	
	TOTAL				615.10	X
	Add GST on "X" (multiplying factor 0.1405)				86.42	
	TOTAL				701.52	Y
	Add 15% CPOH on "Y"				105.23	
	TOTAL				806.75	Z
	Add Cess @ 1% on "Z"				8.07	
	Cost of 10 cu dm.				814.82	
	TOTAL				Cost of 1 cum.	



$2 \times 53.28 = 106^\circ$   
Surface area  $= 2 \times 22/7 \times 5 \times 3.6 \times 106 / 360 = 33.31 \text{sqm.}$   
Arc  $= 9.25 \text{m}$   
MATERIAL  
Tie  $- 2 \times 8 \times 0.18 \times 0.05 = 0.144 \text{cum}$   
Struts  $- 2 \times 2.5 \times 0.1 \times 0.1 = 0.050 \text{cum.}$   
Struts  $- 2 \times 1.77 \times 0.1 \times 0.1 = 0.035 \text{cum.}$   
Ribs  $- 6 \times 1.54 \times 0.23 \times 0.1 = 0.213 \text{cum.}$   
Struts  $- 2 \times 1.72 \times 0.1 \times 0.1 = 0.034 \text{cum.}$   
Total  $= 0.476 \text{cum.}$

5.9.9



Code	Description	Unit	Quantity	Rate	Amount
				₹	₹
0115	Coolie	day	0.015	558.00	8.37
	TOTAL				674.19 W
	Add 1 % Water charges on "W"				6.74
	TOTAL				680.93 X
	Add GST on "X" (multiplying factor				95.67
	TOTAL				776.60 Y
	Add 15% CPOH on "Y"				116.49
	TOTAL				893.10 Z
	Add Cess @ 1% on "Z"				8.93
	Cost of 10 cu dm.				902.03
	Cost of 1 cum.				90203.00
	Say				90203.00

**7.21 Extra for stone work ashlar sunk or moulded or sunk and moulded or carved in :**





Code	Description	Unit	Quantity	Rate ₹	Amount ₹
3.7	Rate as per Item Number 3.7 of SH: Mortars	cum	0.001	5345.55	5.35
	TOTAL				34.21 W
	Add 1 % Water charges on "W"				0.34
	TOTAL				34.55 X
	Add GST on "X" (multiplying factor 0.1405)				4.85
	TOTAL				39.40 Y
	Add 15% CPOH on "Y"				5.91
	TOTAL				45.31 Z
	Add Cess @ 1% on "Z"				0.45
	Cost of each dowel				45.76
	Say				45.75

7.28





9999	Pigment	L.S.	6.24	2.00	12.48	
9999	Extra cost of white cement	L.S.	26.91	2.00	53.82	
	LABOUR					
0125	Mason (for plain stone work) 2nd class)	day	0.60	679.00	407.40	
0114	Beldar	day	0.80	558.00	446.40	
9999	Scaffolding and sundries etc.	L.S.	13.52	2.00	27.04	
	TOTAL				1831.27	W
	Add 1 % Water charges on "W"				18.31	
	TOTAL				1849.58	X

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

Code	Description	Unit	Quantity	Rate	Amount
	Detail of cost for window 1.6m length and 0.70m width = 1.12 sqm. MATERIAL over all width $0.70+0.15=0.85$ metres Total area = $1.6 \times 0.85=1.36$ sqm. Red stone brackets (chisel dressed) 30mm average thickness over all width of brackets $0.53+0.23=0.76$ m $2 \times 0.3 \times 0.76=0.46$ Total $1.36+0.46 =1.82$ sqm.+ Add wastage @10% = 0.18sqm. Total = 2.00 sqm.				
1166	Red sand stone slab 30 mmthick (un-dressed)	sqm	2.00	200.00	400.00
2216	Carriage of Stone blocks white & red sand stone & kota stone slab	tonne	0.14	92.24	12.91
9999	Cement mortar 1 :4	L.S.	13.52	2.00	27.04
	Labour for dressing and fixing: LABOUR				
0125	0.14				

2216	Carriage of Stone blocks white & red sand stone & kota stone slab @ 2.3kg/ cu dm.	tonne	0.14	92.24	12.91
	Dressing charges				
	LABOUR				
0125	Mason (for plain stone work) 2nd class)	day	1.7926	679.00	1217.18
0102	Blacksmith 1st class	day	0.037	738.00	27.31
0114	Beldar	day	0.271	558.00	151.22
0115	Coolie	day	0.1355	558.00	75.61
0100	Bandhani	day	0.271	617.00	167.21
0373	Cramp Gun metal 25x6x300 mm	each	4.00	80.00	320.00
	Fixing charges				
	LABOUR				
0125	Mason (for plain stone work) 2nd class)	day	0.2464	679.00	167.31
0102	Blacksmith 1st class	day	0.0336	738.00	24.80
0114	Beldar	day	0.1232	558.00	68.75
0115	Coolie	day	0.1232	558.00	68.75
0100	Bandhani	day	0.1232	617.00	76.01
0101	Bhisti	day	0.1232	617.00	76.01
9999	Scaffolding	L.S.	15.29	2.00	30.58
9999	Mortar for laying and pointing	L.S.	45.14	2.00	90.28
	Extra labour for ornamental finish :				
0126	Mason (for ornamental stone work) 1st class	day	0.95	738.00	701.10
	TOTAL				

0125	Mason (for plain stone work) 2nd class)	day	0.07	679.00	47.53	
0114	Beldar	day	0.07	558.00	39.06	
	TOTAL				415.39	W
	Add 1 % Water charges on "W-A"				0.97	
	TOTAL				416.36	X
	Add GST on "X-A" (multiplying factor 0.1405)				13.80	
	TOTAL				430.16	Y
	Add 15% CPOH on "Y-A"				16.80	
	TOTAL				446.97	Z
	Add Cess @ 1% on "Z-A"				1.29	
	Cost of 6.75 cu dm				448.26	
	Cost per cum.				66408.89	
	Say				66408.90	







- 7.38 Stone tile work for wall lining upto 10 m height with special adhesive over 12 mm thick bed of cement mortar 1:3 (1 cement : 3 coarse sand), including pointing in white cement with an admixture of pigment to match the stone shade.**
- 7.38.1 8mm thick (mirror polished and machine cut edge)**
- 7.38.1.1 Granite stone of any colour and shade**

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 10sqm. MATERIAL Granite stone tile = 10.00sqm. Add 2.5% wastage = 0.25sqm. Total =10.25 sqm				
2750	8 mm thick granite stone tiles (mirror polished of all shades)	sqm	10.25	700.00	7175.00
9977	Carriage of granite tiles Cement mortar 1:3 (1 cement : 3 coarse sand)	L.S.	40.04	2.00	80.08
3.8	Rate as per Item Number 3.8 of SH: Mortars	cum			









**8.1 Marble work gang saw cut (polished and machine cut) of thickness 18 mm for wall lining (veneer work), backing filled with a grout of average 12 mm thick in cement mortar 1:3 (1 cement : 3 coarse sand), including pointing with white cement mortar 1:2 (1 white cement : 2 marble dust) with an admixture of pigment to match the marble shade (To be secured to the backing by means of cramps, which shall be paid for separately).**

**8.1.1 Raj Nagar Plain white marble/ Udaipur green marble/ Zebra black marble.**

**8.1.1.1 Area of slab upto 0.50 sqm**

Details of cost for 0.50 sqm.

MATERIAL

Finished work = 0.50sqm. Add for wastage @ 20% = 0.10 sqm. Total = 0.60 sqm.

7452 Raj nagar plain white marble (table rubbed and polished) 18 mm thick (slab area upto 0.50 sqm)

sqm	0.60	575.00	345.00
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be paid for separately).

718047w (Raj nagar plain whit3.8499 -49.4  
ta3126 separ72 plain whiATE1xtu Tc 4W  
ta6070.674984833150.07815tch



#### 8.1.1.2 Area of slab over 0.50 sqm



9999	Sundries apoxy resin & cutting machine etc.	L.S.	32.50	2.00	65.00
	TOTAL				1907.91 W
	ADD 1 % Water charr1T/R "W"0				
	126.9999997 Tc 35.4398 0 Td XW				



### 8.3.2 Granite work

8.5

- 8.7 Providing and fixing cramps of required size & shape in RCC/ CC / Brick masonry backing with cement mortar 1:2 ( 1 cement :2 coarse sand), including drilling necessary hole in stones and embedding the cramp in the hole (fastener to be paid separately).**
- 8.7.1 Gunmetal cramps**

Details of cost for 1.03kg

MATERIAL

Gun metal cramp

$$10 \times 0.064 \times 0.025 \times 0.006 = 9.6 \times 10^{-5}$$





### 8.8.1.2 Fastener with threaded dia 10 mm

9999      Hire and running charges for hand drill

### 8.9.1.2 Granite of any colour and shade

Details of cost for 1 sqm.					
8mm thick Granite tiles. Qty. = 1.00					
sqm. + Add wastage @ 2.5% =					
0.025 sqm. Total = 1.025 sqm.					
2750	8 mm thick granite stone tiles (mirror polished of all shades)	sqm	1.025	700.00	717.50
9977	Carriage of tiles	L.S.	3.95	2.00	7.90
Cement mortar 1:3 (1 cement : 3 coarse sand)					
3.8	Rate as per Item Number 3.8 of SH: Mortars	cum	0.014	4664.55	65.30
9999	Mortar for pointing9977				









0102	Blacksmith 1st class	day	0.032	738.00	23.62
0114	Beldar	day	0.224	558.00	11a799
0115	Coolie	day	0.112	558.00	62.50
0100	Bandhani	day	0.224	617.00	138.21
	Fixing charges				
	LABOUR				
0125					



	LABOUR				
0125	Mason (for plain stone work) 2nd class)	day	0.448	679.00	304.19
0100	Bandhani	day	0.336	617.00	207.31
0114	Beldar	day	0.336	558.00	187.49
0115	Coolie	day	0.336	558.00	187.49
0101	Bhisti	day	0.336	617.00	207.31
1237	Cutting marble or sand stone slab upto 50 mm thick by mechanical device	metre	4.00	10.00	40.00
9999	Scaffolding	L.S.	19.76	2.00	39.52
3.8	Mortar for laying and pointing				
	Rate as per Item Number 3.8 of SH: Mortars	cum	0.018		

1237





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Code	Description	Unit	Quantity	Rate ₹	Amount ₹
3.8	Rate as per Item Number 3.8 of SH: Mortars TOTAL W 41.67	cum	0.018	4664.55	83.96

### 8714.3 White sand stone - exposed face fine dressed with rough backing .

#### 8714.3.1 70 mm thick

Details of cost for 1 sqm.					
MATERIAL					
Finished work = 70 cudm. Add					
wastage @ 33.3% = 23.33 cudm.					
Total = 93.33 cudm.					
1161	White sand stone block	10 cudm	9.333	205.00	1913.27
2216	Carriage of Stone blocks white & red sand stone & kota stone slab	tonne		92.24	19.83
	@ 2.30kg/cudm				
9999	Extra for using white cement	L.S.	26.91	2.00	53.82
Dressing charges 61.5602Dp 161.5602 0 Td (2.00)Tj 0.0582033 Tc 55.43(LABOUR(1161)Tj 0.0635538 Tc 47.15					

3.8	Rate as per Item Number 3.8 of				
	SH: Mortars	cum	0.018	4664.55	83.96
	TOTAL				4510.15 W



3.8	Rate as per Item Number 3.8 of SH: Mortars TOTAL Add 1 % Water charges on "W" TOTAL Add GST on "X" (multiplying factor 0.1405) TOTAL Add 15% CPOH on "Y" TOTAL Add Cess @ 1% on "Z" Cost of 1 sqm. Say	cum	0.018	4664.55	83.96 4234.03 W 42.34 4276.37 X  600.83 4877.20 Y 731.58 5608.78 Z 56.09 5664.87 5664.85
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3.8	Rate as per Item Number 3.8 of					
	SH: Mortars	cum	0.018	4664.55	83.96	
	TOTAL				3958.52	W
	Add 1 % Water charges on "W"				39.59	
	TOTAL				3998.10	X
	Add GST on "X" (multiplying factor					
	0.1405)				561.73	
	TOTAL				4559.84	Y
	Add 15% CPOH on "Y"				683.98	
	TOTAL				5243.81	Say

3.8	Rate as per Item Number 3.8 of				
	SH: Mortars	cum	0.018	4664.55	83.96
	TOTAL				3681.05 W

3.8

3.8	Rate as per Item Number 3.8 of					
	SH: Mortars	cum	0.018	4664.55	83.96	
	TOTAL				5776.11	W
	Add 1 % Water charges on "W"				57.76	
	TOTAL				5833.88	X
	Add GST on "X" (multiplying factor					
	0.1405)				819.66	
	TOTAL				6653.54	Y
	Add 15% CPOH on "Y"				998.03	
	TOTAL				7651.57	

3.8	Rate as per Item Number 3.8 of SH: Mortars 55.00 W 55.00	cum	0.018	4664.55	83.96
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3.8	Rate as per Item Number 3.8 of SH: Mortars 527418 W	cum	0.018	4664.55	83.96
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#### 8.14.5.2 30mm thick Red sand stone

Details of cost for 1 sqm.

MATERIAL

1.00 sqm + 0.05 sqm

(Add wastage @ 5%) = 1.05 sqm

8683

	Add wastage @ 5% = 0.047kg.				
	Total = 0.981 kg.				
7339	Stainless steel cramp	kilogram	0.981	290.00	284.49
9977	CARRIAGE	L.S.	3.90	2.00	7.80
	Cement mortar 1:2 (1 cement :				
	2 coarse sand)				
3.7					

**8.17      Wall lining butch work upto 10m height with Dholpur stone 40 mm thick rough**



9999	Sundries	L.S.	111.54	2.00	223.08	
	TOTAL				21602.44	W
	Add 1 % Water charges on "W"				216.02	
	TOTAL				21818.46	X
	Add GST on "X" (multiplying factor					
	0.1405)				3065.49	
	TOTAL				24883.95	Y

## 8.20.1 Red sand stone - 30mm thick gang saw cut stone

Details of cost for 1 sqm.

MATERIAL

Red sand stone = 1.00sqm. Add 5% wastage = 0.05sqm. Total = 1.05 sqm

8683	Red sand stone gang saw cut 30 mm thick	sqm	1.05	425.00	446.25
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2216	Carriage of Stone blocks white & red sand stone & kota stone slab @ 2.30kg/cudm	tonne	0.072	92.24	6.64
	Fixing Charges				

LABOUR

0125	Mason (for plain stone work) 2nd class	day	0.448	679.00	304.19
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0100	Bandhani	day	0.336	617.00	207.31
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0114	Beldar	day	0.336	558.00	187.49
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0115	Coolie	day	0.336	558.00	187.49
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1237	Cutting marble or sand stone slab up to 50 mm thick by mechanical device	metre	4.00	10.00	40.00
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9999	Scaffolding	L.S.	19.76	2.00	39.52
------	-------------	------	-------	------	-------

9999	Fixing including weather sealant and removing	L.S.	51.10	2.00	102.20
------	---	------	-------	------	--------

9999	Silicon gun/ pump etc.	L.S.	68.25	2.00	136.50
------	------------------------	------	-------	------	--------

TOTAL

1657.59 W

Add 1 % Water charges on "W"

16.58

TOTAL

1674.17 XTOTAg5 0.0439

TOTAL1674.17

(396)29 0.0640379 Tc -8c 473598124j Cess @ 1%4 5% Zater charges on "W")Tj 0.05821.93.16 -11.901(16.58)Tj 0.2057038 Tc 47.1598 0

0115	Coolie	day	0.336	558.00	187.49
1237	Cutting marble or sand stone slab up				



4009	Mild steel tubes hot finished welded type Angle iron 50x50x6mm 16x0.60=9.60 16x0.15=2.40 Total=12.00 Add 10% wastage = 1.20m Total=13.20m @4.50kg/m=59.40kg	kilogram	51.47	57.00	2933.79
------	---	----------	-------	-------	---------



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9999	Labour for drilling holes and making good etc.	L.S.	26.00	2.00	52.00	
	TOTAL				152.00	WAdd 1 % Water ch
						TOTAL
						Add GST on "X" (m
						0.1405)
						TOTAL
						Add 15% CPOH on
						TOTAL

9999	Labour for drilling holes and making good etc.	L.S.	26.00	2.00	52.00	
	TOTAL				192.00	W
	Add 1 % Water charges on "W"				1.92	
	TOTAL				193.92	X
	Add GST on "X" (multiplying factor 0.1405)				27.25	
	TOTAL				221.17	Y
	Add 15% CPOH on "Y"				33.17	
	TOTAL				254.34	Z
	Add Cess @ 1% on "Z"				2.54	
	Cost of 10 nos.				256.88	
	Cost of 1 no.				25.69	
	Say				25.70	





2204	Carriage of Timber	cum	0.132	118.59	15.65
	Second class teak wood plugs including cutting brick work and fixing in cement mortar 1:3 (1 cement : 3 fine sand)				
9.32	Rate as per item no 9.32 of SH : Wood work	each	55.00	33.90	1804.50 A
	LABOUR				
0111	Carpenter 1st class	day	1.08	738.00	797.04
0112	Carpenter 2nd class	day	0.80	679.00	543.20
0114	Beldar	day	1.08		



	LABOUR				
0112	Carpenter 2nd class	day	1.28	679.00	869.12
0114	Beldar	day	1.43	558.00	797.94
7048	Rawl plug 50 mm (designation 10 no.)	each	55.00	25.00	1375.00
	TOTAL				9633.42

8.26.3 2e7mm thick

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0111	LABOUR				
0114	Carpenter 1st class	day	1.00	738.00	738.00
9999	Beldar	day	0.25	558.00	139.50
	Sundries	L.S.	6.76	2.00	13.52
	Painting with ready mixed priming coat on ground 5x500x15 cm =3.75 sqm				
13.50.1	Rate as per item no 13.50.1 of SH : Finishing	sqm	3.75	57.05	213.94 A
7048	Rawl plug 50 mm (designation 10 no.)	each	55.00	25.00	1375.00
9999	Labour for drilling holes, steel tape, sundries etc.	L.S.	71.50	2.00	143.00
	TOTAL				3913.87 W
	Add 1 % Water charges on "W-A"				37.00
	TOTAL				3950.87 X
	Add GST on "X-A" (multiplying factor 0 . 1 4 0 5 )				525.04
	TOTAL				4475.91 Y
	Add 15% CPOH on "Y-A"				639.30
	TOTAL				5115.21 Z
	Add Cess @ 1% on "Z-A"				49.01
	Cost of 31.25 cu dm.				5164.22
	Cost of 1 cum.				165255.04
	Say				165255.05

8.28

13.50.1	Rate as per item no 13.50.1 of					
	SH : Finishing	sqm	10.00	57.05	570.50	A
	TOTAL				12207.56	W
	Add 1 % Water charges on "W-A"				97.73	
	TOTAL				12305.29	X
	Add GST on "X-A" (multiplying factor					
	0.1405)				1386.78	
	TOTAL				13692.06	Y
	Add 15% CPOH on "Y-A"				1688.56	
	TOTAL				15380.62	Z
	Add Cess @ 1% on "Z-A"				129.46	

- 8.30 Providing and fixing skirting with Pre-laminated (one side decorative and other side balancing lamination) flat pressed 3 layer or graded particle board (medium density) Grade I, Type II, IS :12823 marked, with necessary fixing arrangements and screws, including drilling necessary holes for rawl plugs etc. and priming coat on unexposed surface complete :**
- 8.30.1 18 mm thick**

Details of cost for skirting 200mm wide  
and 30m long Area =  $0.2 \times 30 = 6$  sqm.  
Area =  $0.2 \times 30 = 6$  sqm.  
MATERIAL

mediu  
dd wastage @0 1%a = 06 sqm.

mediu

MATERIAL

Teak shade prelaminated Particle  
board (three layer medium density) =

1375 47.159 :0992 Td82499988 TPe prelaminatpd Parti w (boawith oneIAL)Tj 099 98353 Tc 37479988 Tsishadeo

S

7800	Ceramic Glazed Tiles 1st quality minimum thickness 5mm in all colours shades and designs except burgundy, bottle green, black	Sq.m.
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aluminium composite panel cladding, cleaning and protection of the curtain wall with aluminium composite panel cladding till the handing over of the building for occupation. Base frame work for ACP cladding is payable under the relevant aluminium item.s The Contractor shall provide curtain wall with aluminium composite panel cladding, having all the performance characteristics all complete, as per the Architectural draMings, as per item description, as specified, as per the approved shop draMings and as di7dined by the Engineer-in-Charge. However" for the purpose of payment, only the actual area on the external face of the curtain wall with Aluminum Composite Panel Cladding (including width of groove) shall Wi2ieasured in sqm. up to two decimal places.

Details of cost for 6.72 sqm  
Width of the unit 1.6 m  
Height of the unit 4.2 m  
Area of Single Unit 6.72 sqm  
Total Area 6.72 sqm  
No of Panels 1 no  
Area i/c wastafi2k 5% = 7.06 sqm  
Details of cost for 6.72 sqm

MATERIALS					
2607	Weather Sealant - Non Staining (600 ml)	each	2.00	325.00	650.00
2608	Weather Sealant - Normal (300 ml)	each	2.00	98.00	196.00
2609	MS Brackets/Aluminium Alloy Brackets	kg	10.00	100.00	
				eac56.280	2.002608DeF979n0.4- M10











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**9.2 Providing laminated veneer lumber conforming to IS:14616 and TAD -15: 2001 (Part B) in factory made frames of doors, windows, clerestory windows and other frames, wrought framed and fixing in position with hold fast lugs or with dash fasteners of required dia & length (hold fast lugs or dash fastener shall be paid for separately).**

Details of cost for Chowkhat of a  
ws, 206.75x117.5cm.  
MATERIAL  
Laminated veneer lumber including  
wastage @ 5%  
 $2 \times 206.75 \times 9.5 \times 7.0 \text{ cm} = 0.028 \text{ cum} +$   
 $1 \times 117.5 \times 9.5 \times 7.0 \text{ cm} = 0.008 \text{ cum.} =$







### 9.4.3 Kiln seasoned and chemically treated hollock wood

Details of cost for Chowkhat of a door  
206.75x117.5cm.

Extra Materials and labour for wastage  
@ 10% on quantity of item no 9.1.3

MATERIAL					
2466	Hollock wood in scantling	10 cudm	0.38	350.00	133.00
2204	Carriage of Timber	cum	0.0038	118.59	0.45
2504	Kiln seasoning of timber	cum	0.0038	750.00	2.85
9999	Chemical treatment	L.S.	0.90	2.00	1.80
LABOUR					
0156	Carpenter (average)	day	0.072		



9999      Sundries



Top rails 1x110.5x10.0x3.5cm =  
0.004cum.+  
Lock rails 1x110.5x15x3.5cm =  
0.006cum+  
Beading 2x186.1x1.9x1.2cm =  
0.001cum.  
Total = 0.047 cum+  
Add for wastage @ 10% = 0.005cum  
Grand Total = 0.051 cum or = 51 cudm

2204	Carriage of Timber	cum	0.044	118.59	5.22
2504	Kiln seasoning of timber	cum	0.044	750.00	33.00
	LABOUR				
0156	Carpenter (average)	day	1.83	709.00	1297.47
011433:(Beldarter (average))Tj 0.20336 Tc 201.36 0 Td (day)Tj 0.0781513 Tc0.769199 0 Td (1.83)Tj 0.0462344 T[5j 0719-3544 c					

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	Sundries	L.S.	35.88	2.00	71.76
	TOTAL				4690.12 W
	Add 1 % Water charges on "W"				46.90
	TOTAL				4737.02 X
	Add GST on "X" (multiplying factor 0.1405)				665.55
	TOTAL				5402.57 Y
	Add 15% CPOH on "Y"				810.39
	TOTAL				6212.96 Z
	Add Cess @ 1% on "Z"				62.13
	Cost of 2.38 sqm.				6275.09
	Cost of 1 sqm.				2636.59
	Say				2636.60

**9.6.2      12 mm thick pre-laminated particle board (decorative lamination on both sides) grade -1, medium density flat pressed, three layer particle board FPT- I or graded wood particle board FPT- I, conforming to IS : 3087, bonded with BWP type synthetic**







**9.7.3**      **Ply wood 5 ply, 9 mm thick**  
**9.7.3.1**



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	LABOUR				
0111	Carpenter 1st class	day	0.57	738.00	420.66
9999	Sundries	L.S.	4.42	2.00	8.84
	TOTAL				833.14 W
	Add 1 % Water charges on "W"				8.33
	TOTAL				841.47 X
	Add GST on "X" (multiplying factor 0.1405)				118.23
					Add 15% CPOH on "Y"d (8



9999	Sundries	L.S.	4.42	2.00	8.84
	TOTAL				969.14 W
	Add 1 % Water charges on "W"				9.69
	TOTAL				978.83 X
	Add GST on "X" (multiplying factor 0.1405)				137.53
	TOTAL				Y".4 Td (TOTAL)Tj 0.046234





Code	Description	Unit	Quantity	Rate	
9999	Sundries	L.S.	4.42	2.00	8.84
	TOTAL				719.51 W
	Add 1 % Water charges on "W"				7.20
	TOTAL				726.41 X
	Add GST on "X" (multiplying factor 0.1405)				102.10
	TOTAL				828.81 Y
	Add 15% CPOH on "Y"				124.32
	TOTAL				953.13 Z
	Add Cess @ 1% on "Z"				9.53
	Cost of 0.66 sqm.				962.66
	Cost of 1 sqm.				1458.58
	Say				1458.60

	LABOUR				
0156	Carpenter (average)	day	1.83	709.00	1297.47
0119	Glazier	day	0.23	679.00	156.17
0114	Beldar	day	0.77	558.00	429.66
9999	Sundries	L.S.	40.43	2.00	80.86
	TOTAL				7028.84 W
	Add 1 % Water charges on "W"				70.29
	TOTAL				7099.13 X
	Add GST on "X" (multiplying factor 0.1405)				997.43
	TOTAL				8096.55 Y
	Add 15% CPOH on "Y"				1214.48
	TOTAL				9311.04 Z
	Add Cess @ 1% on "Z"				93.11
	Cost of 2.16 sqm.				9404.15
	Cost of 1 sqm.				4353.77
	Say				4353.75

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	LABOUR				
0156	Carpenter (average)	day	1.83	709.00	1297.47
0119	Glazier	day	0.23	679.00	156.17
0114	Beldar	day	0.77	558.00	429.66
9999	Sundries	L.S.	40.43	2.00	80.86
	TOTAL				4445.79 W
	Add 1 % Water charges on "W"				44.46
	TOTAL				4490.25 X
	Add GST on "X" (multiplying factor 0.1405)				630.88
	TOTAL				5121.13 Y
	Add 15% CPOH on "Y"				768.17
	TOTAL				5889.30 Z
	Add Cess @ 1% on "Z"				58.89
	Cost of 2.16 sqm.				5948.19

0640	Bright finished or black enamelled mild steel screws 20 mm	100 Nos	0.08	30.00	2.40
2204	Carriage of Timber	cum	0.058	118.59	6.88
	LABOUR				
0156	Carpenter (average)	day	1.83	709.00	1297.47
0119	Glazier	day	0.23	679.00	156.17
0114	Beldar	day	0.77	558.00	429.66
9999	Sundries	L.S.	40.43	2.00	80.86
	TOTAL				6254.54 W
	Add 1 % Water charges on "W"				62.55
	TOTAL				6317.08 X
	Add GST on "X" (multiplying factor 0.1405)				887.55
	TOTAL				7204.63 YTOTALY".4 Td (T

2204	Carriage of Timber	cum	0.05	118.59	5.93
	LABOUR				
0156	Carpenter (average)				





**9.13 Deduct for providing pin headed glass panes instead of ordinary float glass panes weighing 4 mm thick in doors, windows and clerestory windows shutters (Area of opening for glass panes excluding portion inside rebate shall be measured).**

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
2406	Cost for 1 sqm. MATERIAL Float glass sheet of nominal thickness 4 mm (weight not less than 10kg/sqm). Deduct	sqm	-1.00	300.00	-300.00
7451	Glass sheet (Pin headed) 4 mm thick TOTAL	sqm	1.00	305.00	305.00
	Add 1 % Water charges on "W"				5.00 W
	TOTAL				0.05
	Add GST on "X" (multiplying factor 0.1405)				5.05 X
	TOTAL				0.71
	Add 15% CPOH on "Y"				5.76 Y
	TOTAL				0.86
	Add Cess @ 1% on "Z"				6.62 Z
	Cost of 1 sqm.				0.07
	Say				6.69
					6.70

**9.14 Extra for providing ISI marked Stainless Steel butt hinges instead of M.S. pressed butt Shutter area to be measured).**

Details of cost for one door shutter of a door

2822

0640	Bright finished or black enamelled mild steel screws 20 mm	100 Nos	-0.08	30.00	-2.40
	TOTAL				204.20 W

**9.15.2 ISI marked M.S. pressed butt hinges bright finished of required size.**

**9.15.2.1 For 2nd class teak wood and other class of wood shutters**

	Details of cost of hinges with screws for shutters of size 200x108cm = 2.16 sqm.					
	MATERIAL					
0595	Bright finished or black enamelled mild steel butt hinges 100x58x1.90 mm	10 Nos	0.60	80.00	48.00	
0597	Bright finished or black enamelled mild steel butt hinges 50x37x1.50 mm	10 Nos	0.20	49.00	9.80	
0637	Bright finished or black enamelled mild steel screws 40 mm	100 Nos	0.48	60.00	28.80	
0640	Bright finished or black enamelled mild steel screws 20 mm	100 Nos	0.08	30.00	2.40	
	TOTAL					89.00 W
	Add 1 % Water charges on "W"				0.89	
	TOTAL					89.89 X
	Add GST on "X" (multiplying factor 0.1405)					12.63
	TOTAL					
	Add 15% CPOH on "Y"					
	TOTAL					
	Add Cess @ 1% on "Z"					
	Cost of 2.16 sqm.					
	Cost of 1 sqm.					
	Say					

	Add for wastage @ 10% = 0.0037 cum.				
	Grand Total = 0.0403 cum or 40 cudm				
1190	Second class teak wood in planks	10 cudm	4.00	791.00	3164.00
2204	Carriage of Timber	cum	0.04	118.59	4.74
2406	Float glass sheet of nominal thickness 4 mm (weight not less than 10kg/sqm).	sqm	0.99	300.00	297.00
	Fittings-				
0694	Anodised Aluminium butt hinges				
	75x45x3.2 mm	10 Nos	0.60	196.00	117.60
0586					

1190	Second class teak wood in planks	10 cudm	4.00	791.00	3164.00
2204	Carriage of Timber	cum	0.04	118.59	4.74
2406	Float glass sheet of nominal thickness 4 mm (weight not less than 10kg/sqm).	sqm	0.99	300.00	297.00
	Fittings-				
0608	Nickel plated mild steel piono hinges 1 mm thick 25 mm wide	metre	4.00	39.00	156.00
0586	Chromium plated Brass screws 40 mm	100 Nos	1.14	290.00	330.60
0111	LABOUR				



9999	Sundries	L.S.	40.43	2.00	80.86
	TOTAL				5948.60 W
	Add 1 % Water charges on "W"				59.49
	TOTAL				6008.09 X
	Add GST on "X" (multiplying f.3897 Tw (Ad GST 05 72 0 w 0 0 31997 L (/RTd ))6008.09 X 0 Td .86)Tj 0.44				6008.09 X





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**9.20**

0114	Beldar	day	0.55	558.00	306.90	
	TOTAL				4532.33	W
	Add 1 % Water charges on "W"				45.32	
	TOTAL				4577.65	X
	Add GST on "X" (multiplying factor 0.1405)				643.16	
	TOTAL				5220.81	Y
	Add 15% CPOH on "Y"				783.12	

**9.21.1**

0114	Beldar	day	0.55	558.00	306.90
	TOTAL				2992.33 W
	Add 1 % Water charges on "W"				29.92
	TOTAL				3022.25 X
	Add GST on "X" (multiplying factor 0.1405)				

**9.22 Extra for Providing and fixing flush doors with decorative veneering instead of non decorative ISI marked flush door shutters conforming to IS: 2202 (Part I)**  
**9.22.1 On one side only**

7307	<p>Details of cost for 1sqm.            For flush door shutters Extra for            providing teak veneering on one side            instead of commercial veneering</p>	sqm	330.00	330.00
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#### 9.27.1.1.2 Kiln seasoned and chemically treated hollock wood

Details of cost for door shutters

2.00x1.08m = 2.16 sqm.

MATERIAL

Hollock wood

Styles 4r9937 /R73.5cm = 0.0266cum+

Top Rail - 1x110/R7 /R73.5cm =  
0.0036cum+

Lock and bottom rail

2x110/R719.773.5cm = 0.0152 cum.+

Beadings - (2x312+2x150)x(1.2)x  
(1.2)cm = 0.001 cum.

Total = 0.0464 cum.+

**9.27.1.1.3**

**9.27.1.2 With ISI marked stainless steel butt hinges of required size**

**9.27.1.2.1 Second class teak wood**

Details of cost for door shutters

2.00x1.08m = 2.16 sqm.

MATERIAL

Second class Teak wood

Styles 4x200x9.5x3.5cm = 0.0266cum+

Top Rail - 1x110.5x9.5x3.5cm =

0.0036cum+

Lock and bottom rail

### 9.27.1.2.2 Kiln seasoned and chemically treated hollock wood

Details of cost for door shutters 2.00x1.08m = 2.16 sqm. MATERIAL Hollock wood Styles 4x200x9.5x3.5cm = 0.0266cum+ Top Rail - 1x110.5x9.5x3.5cm = 0.0036cum+ Lock and bottom rail 2x110.5x19.7x3.5cm = 0.0152 cum.+ Beadings - (2x312+2x150)x(1.2)x (1.2)cm = 0.001 cum. Total = 0.0464 cum.+ Add for wastage @ 10% = 0.005 cum. Total = 0.0514 cum. Say 51.4 cudm.					
2505	Hollock wood in planks	10 cudm	5.14	390.00	2004.60
2504	Kiln seasoning of timber	cum	0.0514	750.00	38.55
9999	Chemical treatment	L.S.	8.97	2.00	17.94
Wire gauge 2x160x40cm = 1.28 sqm.+ Add wastage @ 10% = 0.13 sqm. Total = 1.41 sqm.					
7029	Galvanised wire mesh of average width of aperture 1.4 mm and nominal dia. Of wire 0.63 mm	sqm	1.41	250.00	352.50
8220	Stainless steel butt hinges (heavy weight) 100x60x2.5 mm IS : 12817 marked	10 Nos	0.60	255.00	153.00
8218	Stainless steel butt hinges 50x37x 1.5 mm IS : 12817 marked	10 Nos	0.20	135.00	27.00
8211	Stainless steel screws 40 mm	100 Nos	0.48	215.00	103.20
8214	Stainless steel screws 20 mm	100 Nos	0.08	125.00	10.00
2204	Carriage of Timber	cum	0.0514	118.59	6.10
LABOUR					
0111	Carpenter 1st class	day	1.30	738.00	959.40
0112	Carpenter 2nd class	day	0.90	679.00	611.10
0114	Beldar	day	1.05	558.00	585.90
0130	Mistry	day	0.105	738.00	77.49
9999	Sundries	L.S.	33.80	2.00	67.60
TOTAL					5014.38 (738.0099987 Tc 39 Wire gauge 2x160x cum. <b>5776.08</b>

### 9.27.1.2.3 Kiln seasoned selected class of sheesham wood

Details of cost for door shutters

2.00x1.08m = 2.16 sqm.

MATERIAL

Hollock wood

Styles 4x200x9.5x3.5cm = 0.0266cum+

Top Rail - 1x110.5x9.5x3.5cm =

0.0036cum+

Lock and bottom rail

2x110.5x19.7x3.5cm = 0.0152 cum.+

Beadings - (2x312+2x150)x(1.2)x

(1.2)cm = 0.001 cum.

Total = 0.0464 cum.+

Add for wastage @ 10% = 0.005 cum.

Total = 0.0514 cum. Say 51.4 cudm.

1200	Kiln seasoned selected sheesham wood planks	10 cudm	5.14	650.00	3341.00
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2504	Kiln seasoned selected class of sheesham wood	38.55			
------	---	-------	--	--	--

Wire gauge 2x160x40cm = 1.28 sqm.+

Add wastage @ 10% = 0.13 sqm.

Total = 1.41 sqm.

7029	Galvanised wire mesh of average width of aperture 1.4 mm and nominal dia. Of mesh 0.63 mm	1.41	250.00	352.50
------	---	------	--------	--------

8220	Stainless steel butt hinges (heavy weight) 100x60x2.5 mm IS : 12817 marked	10 Nos	0.60	255.00	153.00
------	--	--------	------	--------	--------

27.00  
 Nos)Tj 0.0781513 Tc 69 0 Td (0.48)Tj 0.0462344 Tc 45.7199 0 Td [215.00)-3544.38(103.20)]Tj -0.0421875 Tc -353.16 -11.4 Td (8214)Tj 0.0

**9.27.2      30 mm thick shutters**  
**9.27.2.1**







**9.27.2.2 With ISI marked stainless steel butt hinges of required size**

**9.27.2.2.1 Second class teak wood**

Details of cost for door shutters

2.00x1.08m = 2.16 sqm.

MATERIAL

Teak wood (2nd class)

#### 9.27.2.2.2 Kiln seasoned and chemically treated hollock wood

Details of cost for door shutters

2.00x1.08m = 2.16 sqm.

MATERIAL

Hollock wood

Styles 4x209x9.5x3cm = 0.023 cum+

Top Rail - 1x110.5x9.5x3cm =

2.00x1.x9.5x3c19.7 0.023 cum1













**9.41 Providing and fixing plain jaffri of 35x10 mm laths placed 35 mm apart (frames**

7055	Flat pressed 3 layer and graded particle board (medium density) Grade 1 conforming to IS : 3087 - 18 mm thick	sqm	0.32	480.00	153.60
	6mm thick commercial ply wood				
	Top-1x1.7x0.15= 0.255sqm.+				
	Add wastage @ 5% = 0.013 sqm. =				
	0.268 sqm. Say 0.27 sqm.				
2412	Ply wood 5 ply with commercial ply on both faces 6 mm thick	sqm	0.27	300.00	81.00
7034	Nickle plated M.S. pipe 20 mm dia.	metre	1.65	72.00	





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**9.48 Providing and fixing M.S. grills of required pattern in frames of windows etc. with M.S. flats, square or round bars etc. including priming coat with approved steel primer all complete.**

**9.48.1 Fixed to steel windows by welding**

	Details of cost for 18.54 kg Grill size 90x120cm = 1.08sqm. MATERIAL M.S. bar 16mm dia. metre- 11x86cm = 9.46m. @ 1.58kg/m = 14.95kg+ Add wastage @ 10% = 1.50kg. Total = 16.45kg. Say 0.165q				
1003	Mild steel round bar above 12 mm dia	quintal	0.165	4400.00	726.00
	M.S. flat 25x3.15mm 2x120cm = 2.40m+ 2x90cm = 1.80m+ 1x120cm = 1.20m+ 2x15cm = 0.30m Total =5.70m 5.70m @ 0.63kg/m = 3.59kg+ Add wastage @ 10% = 0.36kg. Total = 3.95kg. Say 4 kg. or 0.04q				
1008	Flats upto 10 mm in thickness	quintal	0.04	4500.00	180.00
2205	Carriage of Steel	tonne	0.02	92.24	1.84
					0.165 + 0.04 = 0.205 q = 0.020
					Say 0.02 tonne
				9999	Sundries
				9999	Welding charges
					Priming coat:
					Area=1x0.9x1.2x1=1.08 sqm
				13.50.3	Rate as per Item No.13.50.3 of
					SH: Finishing
					LABOUR
				0102	Blacksmith 1st class
				0114	Beldar
					TOTAL
					Add 1 % Water charges on "W"
					TOTAL
					Add GST on "X-A" (multiplying
					0.1405)
					TOTAL
					Add 15% CPOH on "Y-A"
					TOTAL
					Add Cess @ 1% on "Z"





**9.49 Providing and fixing expanded metal 20x60 mm strands 3.25 mm wide and 1.6mm thick for windows etc. including 62 x19 mm beading of II nd class teak wood and priming coat with approved steel primer all complete.**

Details of cost for a window of size 140x110cm =1.54sqm.				
MATERIAL				
Expanded metal -20x60mm mesh 3.2mm wide = 1.4x1.1m = 1.54sqm.+ Add wastage @ 10% = 0.15sqm. Total = 1.69 sqm.				
1015	Mild steel expanded metal 20x60 mm strands	sqm	1.69	280.00 473.20
9977	Carriage	L.S.	1.82	2.00 3.64
Priming coat Area=1.40x1.10x1.00=1.54sqm				
13.50.3	Rate as per Item No.13.50.3 of SH: FINISHING	sqm	1.54	50.70 78.08 A
Second class teak wood beading 5mx62mmx19mm = 0.0059cum. Add wastage @ 10% = 0.00059cum. Total = 0.00649cum. Say 6 cudm.				
1190	Second class teak wood in planks	10 cudm	0.60	

1021	Hard drawn steel wire fabric	sqm	1.69	430.00	726.70
9977	Carriage of wire fabric	L.S.	1.82	2.00	3.64
	Priming coat				
	Area=1.40x1.10x1.00=1.54sqm				
13.50.3	Rate as per Item No.13.50.3 of				
	SH: FINISHING				



**9.52      Deduct for fixing 75x25 mm hard drawn steel wire fabric of weight not less than 7.75 Kg per sqm in panelled and glazed door and window shutter instead of glass sheet 4 mm thick.**

Details of cost for 1 sqm.

MATERIAL

1021	Hard drawn steel wire fabric	sqm
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## 9.54.2 Hollock wood

Details of cost for a beam 450x30x 15cm = 0.203cum. or 203cudm.					
MATERIAL					
Hollock wood = 203 cudm.+					
Add wastage @ 2% = 4.06cudm.					
Total = 207.06cudm. Say 207.1 cudm.					
2466	Hollock wood in scantling	10 cudm	20.71	350.00	7248.50
2204	Carriage of Timber	cum	0.207	118.59	24.55
Priming coat (wood preservative)					
13.57.1	Rate as per item no 13.57.1				
	SH : Finishing	sqm	0.54	44.50	24.03 A
LABOUR					
0112	Carpenter 2nd class	day	0.70	679.00	475.30
0114	Beldar	day	1.45	558.00	809.10
0100	Bandhani	day	0.70	617.00	431.90
9999	Sundries	L.S.	26.91	2.00	53.82
TOTAL					9067.20 W
Add 1 % Water charg100					









0638	Bright finished or black enamelled mild steel screws 30 mm	100 Nos	0.60	45.00	27.00
9977	Carriage of materials LABOUR	L.S.	1.82	2.00	3.64
0112	Carpenter 2nd class	day	0.14	679.00	95.06
0114	Beldar	day	0.09	558.00	50.22
	TOTAL				270.92 W
	Add 1 % Water charges on "W"				2.71
	TOTAL				273.63 X 0.0640322591 T
					steel screws 300mm
		9977	Carriage of materials	1.82 T1sL.S.2.00	3.64
	LABOUR				
0112	Carpenter 2nd class	day	0.14	679.00	95.06



**9.57.3      75x47x1.70 mm**



**9.58.3      100x125x27x2.80 mm**

Details of cost for 10 nos.

**MATERIAL**

0648	Oxidised mild steel parliamentary hinges 100x125x27x2.8 mm	10 Nos	1.00	231.00	231.00
0683	Oxidised mild steel screws 40 mm	100 Nos	0.80		







**9.60.2      125 mm**

Details of cost for 10 nos.					
MATERIAL					
0654	Oxidised mild steel double acting spring hinges 125 mm	each	10.00	135.00	1350.00
0682	Oxidised mild steel screws 50 mm	100 Nos	0.80	76.00	60.80
9947	Carriage of materials	L.S.	2.73	2.00	5.46
LABOUR					
0112	Carpenter 2nd class				



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**9.62.2      250x16 mm**

Details of cost for 10 nos.					
MATERIAL					
0661	Oxidised mild steel sliding door bolt				
7040	250x16 mm	each	10.00	84.00	840.00

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**9.67.2     115 mm**

Details of cost for 10 nos.					
MATERIAL					
0680	Oxidised mild steel hasps and staples (safety type) 115 mm	10 Nos	1.00	108.00	108.00
0685	Oxidised mild steel screws 25 mm	100 Nos	0.70	36.00	25.20
9977	Carriage of materials	L.S.	1.82	2.00	3.64
LABOUR					
0112	Carpenter 2nd class	day	0.08	679.00	54.32
TOTAL					191.16 W
Add 1 % Water charges on "W"					1.91
TOTAL					54.32
<b>TOTAL</b>					



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9.72.2 125x70x4 mm (ordinary type)

10 nos.

(light/ordinary type) :

	10 Nos	1.00	775.00	775.00
mm	100 Nos	1.00	220.00	220.00
al	L.S.	3.64	2.00	7.28
s	day	0.14	738.00	103.32
	day	0.10	558.00	55.80
				1161.40W
arges on W"				11.61
				1173.01 X
ultiplying factor				164.81
				1337.82 Y
n Y				200.67
				1538.50 Z
n Z				15.38
				1553.88
				155.39

#### 9.72.4 100x70x4 mm (ordinary type)

	Details of cost for 10 nos.				
	MATERIAL				
0379	Brass butt hinges (light/ordinary type) :				
	100x70x4 mm	10 Nos	1.00	625.00	625.00
0450	Brass screws 40 mm	100 Nos	0.80	170.00	136.00
9977	Carriage of material				



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**9.73.3**







**9.75**      **Providing and fixing bright finished brass door latch with necessary screws etc. complete :**  
**9.75.1**      **300x16x5 mm**

0411      Details of cost for 10 nos.  
MATERIAL  
Brass door latch 300x16x5 mm  
(0.380 kg)

aaa2 43.T875 T76356 -41.2.72 0 1 430aaa2 434623670.635.2.72



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## 9.79.2 50 mm

	Details of cost for one No				
	MATERIAL				
2452	Brass cupboard lock 6 levers (best make of approved quality) 50 mm size	each	1.00	85.00	85.00
	LABOUR				
0111	Carpenter 1st class	day	0.17	738.00	125.46
9999	Sundries & screws	L.S.	3.64	2.00	7.28
	TOTAL				217.74 W
	Add 1 % Water charw1S46n "W"				2.18
	TOTAL				219.92 X
	Add GST46n "X" (multiplying factor 0.1405)				30.90
	TOTAL				250.82 Y
	Add 15% CPOH46n "Y"				37.62
	TOTAL				288.44 Z37.62







- 9.83 Providing and fixing aluminium die cast body tubular type universal hydraulic door closer (having brand logo with ISI, IS : 3564, embossed on the body, door**



**9.85 Providing and fixing bright finished brass casement window fastener with necessary screws etc. complete.**

Details of cost for 10 nos.

**MATERIAL**

0423	Brass casement window fastener	Each
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**9.87 Providing and fixing bright finished brass hasp and staple (safety type) with necessary screws etc. complete :**  
**9.87.1 150 mm**

Details of cost for 10 nos.

**MATERIAL**

0431	Brass hasps and staples (safety type)				
	150 mm	10 Nos	1.00	740.00	740.00
0452					



**9.89 Providing and fixing chromium plated brass night latch of approved quality including**

	LABOUR				
0111	Carpenter 1st class	day	0.17	738.00	125.46
9999	Sundries & screws	L.S.	3.64	2.00	7.28
	TOTAL				202.74 W
	Add 1 % Water charges on "W"				2.03
	TOTAL				204.77 X
	Add GST on "X" (multiplying factor				
	0.1405)				28.77
	TOTAL				233.54 Y
	Add 15% CPOH on "Y"				35.03
	TOTAL				268.57 Z



LABOUR



LABOUR

0588	Chromium plated Brass screws 25 mm	100 Nos	0.40	180.00	72.00
9977	Carriage of material	L.S.	0.91	2.00	1.82
	LABOUR				
0111	Carpenter 1st class	day	0.10	738.00	73.80
	TOTAL				1547.62 W
	Add 1 % Water charges on "W"				15.48
	TOTAL				1563.10 X
	Add 10% on "X" (multiplying factor				219.62
	TOTAL				1782.71 Y
	Add 15% CPOH on "Y"				267.41
	TOTAL				2050.12 Z
	Add Cess @ 1% on "Z"				20.50
	Cost of 10 nos				





**9.95.4      100x63x4 mm**

	Details of cost for 10 nos.	
	MATERIAL	
0691	Anodised Aluminium butt hinges 100x63x4 mm	SUB HEAD : 9100Nos

**9.95.6      75x63x4 mm**

Details of cost for 10 nos.

MATERIAL

0392	Anodised Aluminium butt hinges 75x63x4 mm	SUB HEAD : 910 Nos1.00275.00	275.00
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**9.95.8      75x45x3.2 mm**

Details of cost for 10 nos.					
MATERIAL					
0694	Anodised Aluminium butt hinges				
	75x45x3.2 mm	10 Nos	1.00	196.00	196.00
0587	Chromium plated Brass screws 30 mm	100 Nos	0.60	240.00	144.00
9977	Carriage of materials	L.S.	1.82	2.00	3.64
LABOUR					
0111	Carpenter 1st class	day	0.14	738.00	103.32
0114	Beldar	day	0.09	558.00	50.22
TOTAL					497.18 W
Add 1 % Water charges on "W"					4.97
TOTAL					502.15 X
Add GST on "X" (multiplying factor 0.1405)					

## 9.96.2 250x16 mm

	Details of cost for 10 nos.				
	MATERIAL				
0697	Anodised Aluminium sliding door bolt 250x16 mm	each	10.00	128.00	1280.00
0588	Chromium plated Brass screws 25 mm	100 Nos	0.40	180.00	72.00
9977	Carriage of materials	L.S.	5.46	2.00	10.92
	LABOUR				
0111	Carpenter 1st class	day	0.50	738.00	369.00
	TOTAL				1731.92 W
	Add 1 % Water charges on "W"				17.32
	TOTAL				1749.24 X
	Add GST on "X" (multiplying factor 0.1405)				245.77
	TOTAL				1995.01 Y
	Add 15% CPOH on "Y"				299.25
	TOTAL				2294.26 Z
	Add Cess @ 1% on "Z"				22.94
	Cost of 10 nos				2317.20
	Cost of 1 no				231.72
	Say				231.70



**9.97.2      250x10 mm**

Details of cost for 10 nos.  
MATERIAL

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**9.98      Providing and fixing aluminium pull bolt lock, ISI marked, anodised (anodic coating**



## 9.100.375 mm

Details of cost for 10 nos.

### MATERIAL

0705	Anodised Aluminium handles 75mm with plate 125 x 32 mm	10 Nos	1.00	231.00	231.00
0589	Chromium plated Brass screws 20 mm	100 Nos	0.40	160.00	64.00
9977	Carriage of materials	L.S.	1.82	2.00	3.64
LABOUR					
0111	Carpenter 1st class	day	0.06	738.00	44.28
TOTAL					342.92 W
Add 1 % Water charges on "W"					3.43
TOTAL					346.35 X
Add GST on "X" (multiplying factor 0.1405)					48.66
TOTAL					395.01 Y
Add 15% CPOH on "Y"					59.25
TOTAL					454.26 Z
Add Cess @ 1% on "Z"					4.54
Grand Total					458.80



**9.103**

**9.105 Providing and fixing partition upto ceiling height consisting of G.I. frame and required board, including providing and fixing of frame work made of special section power**





7369	Galvanised M.S. sheet 0.50 mm thick pressed stud. 48x34x36 mm 48mm stud-72x34x36x0.5mm $(6.00/0.61)+1 = 11 \times 3.65 = 40.15\text{m}$	metre	40.15	71.00	2850.65
7020	All drive screws ( for gypsum board) $[(3.65/0.30)+1] \times 11 \times 2 = 308$ $[(6.00/0.30)+1] \times 2 \times 2 = 84$ Total = 392	100 Nos	3.92	58.00	



0114	Beldar	day	7.665	558.00	4277.07
	0.35x21.90=7.665				
	TOTAL				29594.69 W
	Add 1 % Water charges on "W"				295.95
	TOTAL				29890.63 X
	Add GST on "X" (multiplying factor				
	0.1405)				4199.63
	TOTAL				34090.27 Y
	Add 15% CPOH on "Y"				5113.54
	TOTAL				39203.81 Z
	Add Cess @ 1% on "Z"				392.04
	Cost for 21.90 sqm				39595.85

7021	Primer ( for gypsum board)	litre	7.88	85.00	669.80
	(36/100)x21.90 = 7.88 litre				
1022	Galvanised steel bolts & nuts 6 mm dia and 25 mmlong round head with slots	10 Nos	4.40	38.00	167.20
	11x2x2=44				
1211	G.I. plain washer for seam bolts	100 Nos	0.44	32.00	14.08
9977	Sundries carriage	L.S.	52.00	2.00	104.00
9999	Sundries scaffolding	L.S.	130.00	2.00	260.00
	Labour for 21.90 sqm.				
0111	Carpenter 1st class	day	6.57	738.00	4848.66
	0.3x21.90=6.57				
0112	Carpenter 2nd class	day	2.84	69 T Primer ( f999 0 Td (738.00)Tj 0.018256 T	155.6











9977	Carriage of materials	L.S.	2.73	2.00	5.46
	LABOUR				
0111	Carpenter 1st class	day	0.03	738.00	22.14
	TOTAL				274.80 W
	Add 1 % Water charges on "W"				2.75
	TOTAL				277.55 X
	Add GST on "X" (multiplying factor 0.1405)				39.00
	TOTAL				316.54 Y
	Add 15% CPOH on "Y"				47.48
	TOTAL				364.03 Z
	Add Cess @ 1% on "Z"				3.64
	Cost of 10 Nos				367.67
	Cost of 1 No				36.77
	Say				36.75







9977 CARRIAGE

CARRIAGE







**20 mm and 1 mm ( $\pm 0.1$  mm) wall thickness . The panels filled vertically and tie bar at two places by inserting horizontally 6 mm galvanised M.S. rod and fastened with nuts and washers, complete as per manufacturer's specification and direction of Engineer-in-charge.**

Detail of cost for one door shutter

2.20m.33841644 5 =69 38 sqm6537839 (5R13 9(MATERIAL19867204218/R9 11-47.159279L 1.33d (41.207328



**9.120 Providing and fixing factory made panel PVC door shutter consisting of frame made**

### 9.120.2 30 mm thick pre laminated PVC door shutters

Details of cost for one door shutter

2.20x1.08m = 2.38 sqm

MATERIAL

8004	Factory made PVC rigid foam panelled shutter as per IS : 4020 i/c carriage	sqm	2.38	1547.45	3682.93
8100	Powder coated M.S. butt hinges 100mm X58mmX1.9mm	10 Nos	0.40	123.00	49.20
0637	Bright finished or black enamelledCod 920VC 32				

49652128 of cost forL

2.20x1.08m = 2.38 sqmMAT70.20

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	Sundries	L.S.	7.80	2.00	15.60
	TOTAL				2540.65 W
	Add 1 % Water charges on "W"				25.41
	TOTAL				2566.06 X
	Add GST on "X" (multiplying factor 0.1405)				360.53
	TOTAL				2926.59 Y
	Add 15% CPOH on "Y"				438.99
	TOTAL				3365.58 Z
	Add Cess @ 1% on "Z"				33.66
	Cost of 5 metres				3399.23
	Cost of 1 metre				679.85
	Say				679.85

**9.122 Providing and fixing to existing door frames.**

**9.122.1 30 mm thick Glass Fibre Reinforced Plastic (FRP) panelled door shutter of required colour and approved brand and manufacture, made with fire - retardant grade unsaturated polyester resin, moulded to 3 mm thick FRP laminate for forming hollow rails and styles, with wooden frame and suitable blocks of seasoned wood inside at required places for fixing of fittings, cast monolithically with 5 mm thick FRP laminate for panels conforming to IS: 14856, including fixing to frames.**

Details of cost for one door shutter  
 2.20x1.08m = 2.38 sqm  
 MATERIAL  
 8708 30 mm thick factory made glass fiber reinforced plastic panel door shutter i/c carriage.

sqm 2.38 8326.00 5535.88

8708 Tw M00. bpan hincost of 5d (81)Tj 0.3

**9.122.2    30 mm thick Fiberglass Reinforced Plastic (F.R.P.) flush door shutter in different plain and wood finish made with fire retardant grade unsaturated polyester resin,**



9999	Sundries	L.S.	20.36
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**9.125 Providing and fixing PVC rigid foam sheet 1 mm thick on existing door shutters (bathroom and W.C. doors) using synthetic rubber based adhesive.**

Details of cost for 1.0x0.3m = 0.3 sqm

MATERIAL

PVC rigid foam shet 1mm thick =





**9.128**



9.130.2 With non decorative veneering on both sides

Details of cost for one shutter 2.20x1.00m= 2.20sqm.					
MATERIAL					
7269	25 mm thick particle board	sqm	2.20	460.00	1012.00
0347	Extra for veneered particle board with Commercial veneering on both sides	sqm	2.20	155.00	341.00
9977	CARRIAGE	L.S.	29.64	2.00	59.28
8678	1mm thick 35mm wide bright finished stainless steel piano hinges .	metre	4.40	42.00	184.80
0685	Oxidised mild steel screws 25 mm	100 Nos	1.25	36.00	45.00
LABOUR					
0111	Carpenter 1st class	day	0.50	738.00	369.00
0114	Beldar	day	0.50	558.00	279.00
0130	Mistry	day	0.07	738.00	51.66
7271	IInd class teak wood lipping 25 mm wide x 12 mm thick	metre	7.00	29.00	203.00
TOTAL					2544.74 W
Add 1 % Water charges on "W"					25.45
TOTAL					2570.19 X
Add GST on "X" (multiplying factor 0.1405)					361.11
TOTAL					2931.30 Y
Add 15% CPOH on "Y"					439.69
TOTAL					3370.99 W76057assplminor



- 9.133** Providing and fixing, in position concealed G.I. section for wall paneling using board of required thickness fixed on the 'W' profile (0.55 mm thick) having a knurled web of 51.55 mm and two flanges of 26 mm each with lips of 10.55 mm, placed @ 610 mm C/C in perimeter channel having one flange of 20 mm and another flange of 30 mm with thickness of 0.55 mm and web of length 27 mm. Perimeter channel is fixed on





















8220	Stainless steel butt hinges (heavy weight) 100x60x2.5 mm IS : 12817 marked	10 Nos	0.60	255.00	153.00
8218	Stainless steel butt hinges 50x37x 1.5 mm IS : 12817 marked	10 Nos	0.20	135.00	27.00
8211	Stainless steel screws 40 mm	100 Nos	0.48	215.00	103.20
8214	Stainless steel screws 20 mm	100 Nos	0.08	125.00	10.00
2204	Carriage of Timber LABOUR	cum	0.0514	118.59	6.10
0111 0112	Carpenter 1st class	day	1.30	738.00	959.40

0595	Bright finished or black enamelled mild steel butt hinges 100x58x1.90 mm	10 Nos	0.60	80.00	48.00
0597	Bright finished or black enamelled mild steel butt hinges 50x37x1.50 mm	10 Nos	0.20	49.00	9.80
0637	Bright finished or black enamelled mild steel screws 40 mm	100 Nos	0.48	60.00	28.80
0640	Bright finished or black enamelled mild steel screws 20 mm	100 Nos	0.0	Nos	

0595	Bright finished or black enamelled mild steel butt hinges 100x58x1.90 mm	10 Nos	0.60	80.00	48.00
0597	Bright finished or black enamelled mild steel butt hinges 50x37x1.50 mm	10 Nos	0.20	49.00	9.80
0637	Bright finished or black enamelled mild steel screws 40 mm	100 Nos	0.48	60.00	28.80
0640	Bright finished or black enamelled mild steel screws 20 mm	100 Nos	0.08	30.00	2.40
0111	LABOUR				



Code	Description			₹	₹
8220	Stainless steel butt hinges (heavy weight) 100x60x2.5 mm IS : 12817 marked				

**9.134.2.2.2 Kiln seasoned and chemically treated hollock wood**

8220	Stainless steel butt hinges (heavy weight) 100x60x2.5 mm IS : 12817 marked	10 Nos	0.60	255.00	153.00
8218	Stainless steel butt hinges 50x37x 1.5 mm IS : 12817 marked	10 Nos	0.20	135.00	27.00
8211	Stainless steel screws 40 mm	100 Nos	0.48	215.00	103.20
8214	Stainless steel screws 20 mm	100 Nos	0.08	125.00	10.00
	LABOUR				
0111	Carpenter 1st class	day	1.20	738.00	885.60
0112	Carpenter 2nd class	day	0.80	679.00	543.20
0114	Beldar	day	1.00	558.00	558.00
0130	Mistry	day	0.10	738.00	73.80
9999	Sundries	L.S.	33.80	2.00	67.60
	TOTAL				4757.82 W
	Add 1 % Water charges on "W"				47.58
	TOTAL				4805.40 X
	Add GST on "X" (multiplying factor 0.1405)				675.16
	TOTAL				5480.55 Y
	Add 15% CPOH on "Y"				822.08
	TOTAL				6302.64 Z
	Add Cess @ 1% on "Z"				63.03
					6 TcTc d Ce3 T205703 T3 -4



9999	Sundries	L.S.	19.76	2.00	39.52
	TOTAL				1558.04 W
	Add 1 % Water charges on "W"				15.58
	TOTAL				1573.62 X



**9.136**

	MATERIAL				
8739	Fire rated door shuttere made with 16 SWG G.I. sheet( 60 minutes) without panel	sqm	3.50	4500.00	15750.00
	LABOUR				
9999	Labour for fixing	L.S.	180.00	2.00	360.00

MATERIAL					
8760	Glass panes of required thickness having 60 minutes of fire resistance both integrity and radiation control (EW 60) and minimum 20 minutes of Insulation (EI 20)	sqm	2.46	22500.00	55350.00
2641	G.I. U beading of 1.6 mm thick G.I. Sheet with M4x38mm SS screws	metre	9.91	245.00	2427.95
2642	Ceramic tape 5x20 mm size	metre	19.82	410.00	8126.20
MATERIAL					





**9.142.2      Decorative finish (wood grained finish)**

Details of cost for of one shutter

2.20x1.08m = 2.38 sqm

MATERIAL

8736

9999	Sundries	L.S.	30.35	2.00	60.70
	TOTAL				6835.90 W





	MATERIAL				
8747	75mm x 53mm x 2.0mm thick Factory made door frame of PVC extruded section in white,grey or wooden finish	metre	5.00	400.00	2000.00
	LABOUR				
0156	Carpenter (average)	day	0.15	709.00	106.35
0114	Beldar	day	0.15	558.00	83.70
9999	Sundries	L.S.	4.68	2.00	9.36
	TOTAL				2199.41 W
	Add 1 % Water charges on "W"				21.99
	TOTAL				2221.40 X
	Add GST on "X" (multiplying factor 0.1405)				312.11
	TOTAL				2533.51 Y
	Add 15% CPOH on "Y"				

9999

3991	Galvanized iron (1.6 ± 0.2 mm) thick reinforcement for small series casement window frame, sash, mullion i/c 5% wastage Window Frame = 3.59 M + Window	metre	6.97	66.00	460.02
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8122	uPVC extruded (small series) casement window sash/window Mullion size 47x68 mm i/c 5% wastage Window Sash = 7.44 M + Window Mullion= 1.42 M Total = 8.86 M	metre	8.86	282.90	2506.49
8125	uPVC extruded glazing bead of appropriate dimension for small series casement window Sash i/c 5% wastage Galvanized iron reinforcement for	metre	7.06	98.40	694.70
3991	c	metre m m	e	t	r e

**9.147A.3** Casement window double panels with top fixed with S.S. friction hinges (350 x 19 x 1.9 mm) made of (small series) frame 47 x 50 mm, sash 47 x 68 mm & mullion 47 x 68 mm all having wall thickness of  $1.9 \pm 0.2$  mm and single glazing bead of appropriate dimension. ( Area of window upto 2.50 sqm).

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Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	Sundries, plastic packers, plastic caps, SS screws and carriage of material	L.S.	170.00	2.00	340.00
0162	LABOUR Labour for fabrication of uPVC extruded casement windows including drilling holes, fixing of fittings & hardwares, hire charges of drill machine and electricity charges etc.	sqm	0.95	485.00	460.75
0163	Labour for installation of uPVC extruded casement windows including scaffolding	sqm	0.95	430.00	408.50
	TOTAL				6625.45 W
	Add 1 % Water charges on "W"				66.25
	TOTAL				6691.70 X
	Add GST on "X" (multiplying factor 0.1405)				940.18
	TOTAL				7631.88 Y
	Add 15% CPOH on "Y"				1144.78
	TOTAL				8776.67 Z
	Add Cess @ 1% on "Z"				87.77
	Cost of 0.95 sqm				8864.43
	Cost of 1.00 sqm				9330.98
	Say				9331.00

**9.147A.5 Casement window double panels with S.S. friction hinges (350 x 19 x 1.9 mm) made of (big series)frame 67 x 60 mm & sash / mullion 67 x 80 mm both having wall thickness of 2.3 ± 0.2 mm and single glazing bead/ double glazing bead of appropriate dimension. (Area of window above 1.50 sqm).**

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Detail of Cost for uPVC casement window size 1.20 x 1.35 m = 1.62 sqm. MATERIAL				
8126	uPVC extruded (big series) casement window frame size 67x60 mm i/c 5% wastage	metre	5.36	319.80	1714.13
8128	uPVC extruded (big series) casement window sash/window mullion size 67x80 mm i/c 5% wastage Window Sash = 7.71 M + Window Mullion =1.42 M Total = 9.13 M	metre	9.13	426.40	3893.03
8130	uPVC extruded glazing bead of appropriate dimension for big series casement window sash i/c 5% wastage Galvanized iTon reinforcement for :-	metre	7.34	123.00	902.82

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	MATERIAL
8126	uPVC extruded (big series) casement

**9.147B** Providing and fixing factory made uPVC white colour fixed glazed windows/ventilators comprising of uPVC multi-chambered frame and mullion (where ever required) extruded profiles duly reinforced with  $1.60 \pm 0.2$  mm thick galvanized mild steel section made from roll forming process of required length (shape & size according to uPVC profile), uPVC extruded glazing beads of appropriate dimension, EPDM gasket, G.I fasteners 100 x 8 mm size for fixing frame to finished wall, plastic packers, plastic caps and necessary stainless steel screws etc. Profile of frame shall be mitred cut and fusion welded at all corners, mullion (if required) shall be also fusion welded including drilling of holes for fixing hardware and drainage of water etc. After fixing frame the gap between frame and adjacent finished wall shall be filled with weather proof silicon sealant over backer rod of required size and of appropriate width

0163	Labour for installation of uPVC extruded fixed windows including scaffolding	sqm	0.60	430.00	258.00
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LABOUR					
0162	Labour for fabrication of uPVC extruded casement doors including drilling holes, fixing of fittings & hardware, hire charges of drill machine and electricity charges etc.	sqm	2.43	485.00	1178.55
0163	Labour for installation of uPVC extruded casement ventilator and doors including scaffolding	sqm	2.43	430.00	1044.90
	TOTAL				16942.31 W
	Add 1 % Water charges on "W"				169.42
	TOTAL				17111.73 X
	Add GST on "X" (multiplying factor 0.1405)				2404.20
	TOTAL				19515.93 Y
	Add 15% CPOH on "Y"				2927.39
	TOTAL				22443.32 Z
	Add Cess @ 1% on "Z"				224.43
	Cost of 2.43 sqm				22667.75
	Cost of 1.00 sqm				9328.29
	Say				9328.30

8137	uPVC extruded (small series) 2 track sliding window sash size 32x60mm i/c 5% wastage	metre	7.90	265.00	2093.50
8140	uPVC extruded interlock of appropriate dimension for small series sliding window sash i/c 5% wastage	metre	2.69	80.00	215.20
8131	uPVC extruded glazing bead of appropriate dimension for small series sliding window sash i/c 5% wastage	metre	6.92	60.00	415.20
3991	Galvanized iron reinforcement for Galvanized iron (1.6 ± 0.2 mm) thick reinforcement for small series 2 track sliding window frame and sash i/c 5% wastage 2 Track Sliding (Window ,rame = 5.06 M + Window Sash = 7.30 M) Total = 12.36 M	metre	12.36	66.00	815.76
7390	EPDM Gasket for uPVC window/door i/c 5% wastage	metre	13.84	19.00	262.96
8773	Wool pile/ weather pile strip for uPVC sliding window i/c 5% wastage	metre	18.48	20.00	369.60
3995	G.I fasteners 100 x 8 mm	each	12.00	14.00	168.00
8751	Zinc seoy (white powder coated) touch lock with hook for uPVC window	each	2.00	105.00	210.00
8752	Zinc seoy body with single nylon roller (weight bearing capacity to be 40 Kg) for uPVC sliding window	each	4.00	56.00	224.00
9999	Sundries, plastic packers, plastic caps, SS screws and carriage of material LABOUR	L.S.	170.00	2.00	340.00
0162	Labour for fabrication of uPVC extruded sliding window		50.00	0.00	0.00

**9.147D.2**     **Three track three panels sliding window with fly proof SS wire mesh (Two nos. glazed & one no. wire mesh panels) made of (small series) frame 92 x 44 mm & sash 32 x 60 mm both having wall thickness of  $1.9 \pm 0.2$  mm and single glazing bead of appropriate dimension (Area of window upto 1.75 sqm).**

Detail of cost for uPVC sliding window  
size 1.20 x 1.35 m = 1.62 sqm.

MATERIAL



				0163	Labour for installation of uPVC sliding windows including s TOTAL Add 1 % Water charges on V TOTAL Add GST on X"(multiplying f 0.1405) TOTAL Add 15% CPOH on Y TOTAL Add Cess @ 1% on Z Cost of 1.62 sqm Cost of 1.00 sqm Say
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8751	Zinc alloy (white powder coated) touch				
	lock with hook for uPVC window	each	2.00	105.00	210.00
8752					



	MATERIAL				
8136	uPVC extruded (big series) 3 track sliding window frame size 116x45mm i/c 5% wastage	metre	6.62	530.00	3508.60
8139	uPVC extruded (big series) 3 track sliding window sash size 46x62mm i/c 5% wastage	metre	11.85	325.00	3851.25
8141					



7390	EPDM Gasket for uPVC window i/c 5% wastage	metre	24.08	19.00	457.52
8773	Wool pile/ weather pile strip for uPVC				

8138	uPVC extruded (big series) 2 track sliding window sash size 46x62mm i/c 5% wastage	metre	25.75	325.00	8368.75
8141					

0163      Labour for installation of uPVC





**9.147F.2**

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8141	uPVC extruded interlock of appropriate dimension for big series sliding door sash i/c 5% wastage	metre	6.34	90.00	570.60
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**9.152**

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**9.155 Providing and fixing panelling or paneling and glazing in panelled or panelled and glazed shutters for doors, windows and clerestory windows ( area of opening felled measured). Panelling for panelled and glazed shutters 25mm to 40mm thick:**

2484      Pre-laminated with decorative  
             lamination on both side exterior Grade -

- 9.157**      **Providing and fixing Pre-laminated medium density fibre board IS: 14587:1998 marked, with one side decorative lamination other side balancing lamination Grade-I(exterior grade) in shelves with screws and fittings wherever required, edges to be sealed with PVC edge bending tape 2.00 mm thick of approved brand (fittings to be paid separately).**
- 9.157.1**    **Pre-laminated with decorative lamination one side and other side balancing lamination exterior Grade - I MDF Board 18 mm thick confirming to IS:14587**

Details of cost for 0.60 sqm.  
Detail of cost for 4 Nos. 75x20 cm  
shelves =j 0.06339  
MATERIAL



7048	Rawl plug 50 mm (designation 10 nos)	each	55.00	25.00	1375.00
	TOTAL				7852.92 W
	Add 1 % Water charges on "W"				78.53



### 9.158.3 25 mm thick.

	Details of cost for 10.00 sqm			
	MATERIAL			
	25 mm thick MDF Board Grade-I,			
	one side laminated = 10.00 sqm			
	Add wastage @10 % = 1.00 sqm			
	Total= 11.00 sqm			
2486	Pre-laminated with decorative			
	lamination one side and other side			
	balancing lamination exterior Grade - I			
	MDF Board 25 mm thick confirming to			
	IS:14587			
	sqm	11.00	860.00	9460.00
9999	Sundries (Carriage of MDF board)	L.S.	13.52	27.04
9999	Sundries and screws	L.S.	26.91	53.82
	LABOUR			
0112	Carpenter 2nd class	day	1.28	869.12
0114	Beldar	day	1.43	797.94
7048	Rawl plug 50 mm (Designation 10 nosc 200T28135026 Tc 198272 0 Td (each)Tj0.0582033 Tc 56.2801 0 Td (55.0			

2489	PVC edge bending tape 2.00 mm thick Fitting for a door of 2.20 m x1.00 m Total = 2( 2.20) = 4.40 metre	metre	6.40	20.00	128.00
0608	Nickel plated bright finished mild steel piano hinge( 1 mm thick 25 mm wide)		0.109883	Tc 196.92 0 Td (metre)	Tj



**9.161**

	MATERIAL:				
8018	Fire Rated door shutter made with 1.6 mm thick Sheet (120 minutes), including hinges but without glass panels but including wastages	sqm	3.50	5000.00	17500.00
8101	Stainless steel ball bearing hinges of size 100x89x3mm	each			

9999	Sundries and carriage ( Fasteners, sims, Hole Plugs etc)	L.S.
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9999	Sundries and carriage & Calcium				
	Silicate Blocks	L.S.	10.00	2.00	20.00
	TOTAL				72434.15 W
	Add 1 % Water charges on "W"				724.34
	TOTAL				73158.49 X
	Add GST on "X" (multiplying factor				
	0.1405)				10278.77
	TOTAL				83437.26







**SUB HEAD : 10.0**  
**STEEL WORK**



**10.1      Structural steel work in single section, fixed with or without connecting plate, including cutting, hoisting, fixing in position and applying a priming coat of**

(ii) Ties (flats) 50x12mm  
 $2 \times 2.7 = 5.4\text{m}$  @  $4.7\text{kg/m}$  =  $25.38\text{kg}$ +  
 Ties central (flats) 50x10mm  
 $1 \times 2.28 = 2.28\text{m}$  @  $3.90\text{kg/m}$  =  $10.92\text{kg}$ .+  
 Braces (flats) 40x10mm  
 $2 \times 1.84 = 3.68\text{m}$  @  $3.9\text{kg/m}$  =  $14.35\text{kg}$ .  
 Total =  $50.65\text{kg}$ +  
 Add wastage @ 5% =  $2.53\text{kg}$ .  
 Total =  $53.18\text{kg}$ . =  $0.53\text{q}$

1009	Flats exceeding 10 mm in thickness	quintal	0.53	4600.00	2438.00
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(iii) Gusset plates 10mm thick  $600.001 \times 5 \times 0$  Tc  $11 \times 2.7242.735\text{m} = 0.5259\text{sqm}$ .

Braces  $2 \times 1.84 \times 0.12 = 0.44$  sqm.+13.5 03+

2205	Carriage of Steel (0.053+0.013+0.060=0.126 tonne)	tonne	0.126	92.24	11.62
9999	Cost of rivets fixing hooks and washers	L.S.	269.10	2.00	538.20

9999 Cost of locking a  
handles

$1/2 \times 0.26(0.04 + 0.3) = 0.0442$   
 Total = 0.0562sqm.+  
 $8 \times 0.0562 = 0.4496\text{sqm.} +$   
 $2 \times 22/7 \times 1/4 \times 0.3 \times 0.3 = 0.1414\text{sqm.}$   
 Total = 0.5910sqm.  
 $0.5910\text{sqm.} @ 23.55\text{kg/sqm.} = 13.92\text{kg.} +$   
 Add wastage @ 10% = 1.39kg  
 Total = 15.31kg. or 0.153q  
 Mild steel plates  
 (iii) Angle iron

1010	quiatal	0.153	4800.00	734.40
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	Add wastage @ 10% = 2.43m				
	Total =26.73m				
	26.73m @ 3.5kg. per m. =				
	93.56kg=0.936q				
1007	Structurals such as tees,angles channels and R.S. joists	quintal	0.936	4600.00	4305.60
2205	Carriage of Steel	tonne	0.1586	92.24	14.639. (0.nTd [92 Tc-3-11
			0190	each=	20000



9999	Sundries	L.S.	161.46	2.00	322.92
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## 10.6.2

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9999	Sundries	L.S.	13.52	2.00	27.04
	TOTAL				827.04 W
	Add 1 % Water charges on "W"				8.27
	TOTAL				835.31 X
	Add GST on "X" (multiplying factor 0.1405)				117.36

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
7068	Extra for providing grilled rolling shutters with 8 mm dia M.S. rod	sqm	1.50	500.00	750.00
	TOTAL				750.00 W
	Add 1 % Water charges on "W"				7.50
	TOTAL				757.50 X
	Add GST on "X" (multiplying factor 0.1405)				106.43
	TOTAL				863.93 Y
	Add 15% CPOH on "Y"				129.59
	TOTAL				993.52 Z
	Add Cess @ 1% on "Z"				9.94
	Cost of 1.5sqm.				1003.45
	Cost per sqm.				668.97
	Say				668.95

**10.10 Fixing standard steel glazed doors, windows and ventilators in walls, including fixing of float glass panes with glazing clips and special metal-sash putty of approved make, or metal beading with screws, (only steel windows, glass panes cut to size and glazing clips or metal beading with screws, shall be supplied by department free of cost.**

**10.10.1 Fixing with 15x3 mm lugs 10 cm long embedded in cement concrete block 15x10x10 cm of C.C. 1:3:6 (1 Cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size)**

Details of cost for one door 2x0.76m =  
1.52sqm.(weight 15 kg)

MATERIAL

Cement concrete blocks 15x10x10cm =  
0.009 cum

4.2.5 Rate as per item no 4.2.5 of

SH : Concrete work

cum

0.009

8025.00

72.23 A

LABOUR

0102 Blacksmith 1st class

0.23

Mason (bricklayer) 1st class

0.94 brick

125.76 47.1598 0 Td 06779821 Tw Sundrines forcar



**10.10.2      Fixing with carbon steel galvanised dash fastener of required dia and size (to be paid for separately)**

Details of cost for one door 2x0.76m =  
1.52sqm.(weight 15 kg)

**LABOUR**

0123	Mason (brick layer) 1st class	day	0.17	738.00	125.46
0114	Beldar	day	0.17	558.00	94.86

Fixing with CC 1:3:6 blocks, wooden





**10.13.2**

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9999	Screws, nuts and bolts 50x25x5mm. M.S. Angle for threshold 1 metre @ 2.75kg per uds =2.75kg. Say 0.03q	L.S.	35.88	2.00	71.76
1007	Structurals such as tees,angles channels and R.S. joists	quintal	0.03	4600.00	138.00
9977	Carriage of material	L.S.	5.33	2.00	10.66
0116	LABOUR				

13.50.3	Rate as per item no 13.50.3 of SH : Finishing	sqm	2.69
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**10.14.3 Profile E****10.14.3.1 Fixing with adjustable lugs with split end tail to each jamb**

	Details of cost for 5 metre				
	MATERIAL				
4008	Pressed steel door frames (mild steel sheet 1.60mm) Profile "E" 2+2+1m=5m	metre	5.00	240.00	1200.00
0595	Bright finished or black enamelled mild steel butt hinges 100x58x1.90 mm	10 Nos	0.60	80.00	48.00
9999	Screws, nuts and bolts 50x25x5mm. M.S. Angle for threshold 1 metre @ 2.75kg per uds =2.75kg. Say 0.03q	L.S.	35.88	2.00	71.76
1007	Structurals such as tees,angles channels and R.S. joists	quintal	0.03	4600.00	138.00
9977	Carriage of material	L.S.	5.33	2.00	10.66
	LABOUR				
0116	Fitter (grade 1)	day	0.15	738.00	110.70
0114	Beldar	day	0.20	558.00	111.60
9999	Sundries	L.S.	8.97	2.00	17.94





4011	Area of MS sheet = $0.1136 \times 5.00 \times 0.0016 = 0.0009088$ sqm				
	Weight of Sheet = $0.0009088 \times 7850 = 7.134$ kg				
	Add wastage @ 5% = 0.357Kg.				
	Total = 7.491 kg Say 7.49 kg				
	Mild steel tubes electric resistant or induction butt welded	kilogram	7.49	47.00	352.03
	M.S. bars 10mm = $1 \times 1 \text{ m} = 1$ metre				

16.60m @ 5.10kg./m = 84.66kg.  
 40mm dia. tube  
 Members = 2(0.45+1.25+0.90+2.15)  
 Total = 2x4.75=9.50m  
 9.50m @ 3.61kg/m = 34.60Kg.  
 Total = 118.96kg.  
 Add wastage @ 5% = 5.94Kg.  
 Total = 124.90Kg. Say 125 kg

4009 Mild steel tubes hot finished welded type

kilogram 52500 7125.00  
 0.125 92.24 11.53

2205 Carriage of Steel tonne

Priming coat  
 50mm dia. tube 16.60x0.157m =  
 1.61sqm.  
 40mm dia. tube 9.50x0.125m =  
 1.91 sqm.  
 Total = 2.80 sqm.

13.50.3 Rate as per item no 13.50.3 of  
 Sqm Finishing 141.96 A

cm 357.00 2.00 714.00

day 1.50 738.00 1107.00  
 day 0.75 617.00 462.75  
 day 5.50 558.00 3069.00

076 Tc 207.28 0 Td(L.S.0)Tj 0.0582033 Tc 47.7199 0 Td 8(0.30)Tj 0.0781513 Tc 61.56mbe0 Td (2.00)Tj 0.0462344 Tc 52.4398 0 Td 1 6146r)Tj  
 .0462344 Tc-369e0 Td 1.56.1r



MATERIAL

50mm dia. tube

Tie beam-1x8.0m = 8.00m+

Principal rafter 2x4.30m = 8.60m

Total = 16.60m

16.60m @ 5.10kg./m = 84.66kg.

40mm dia. tube

Members = 2U3c 0.5+.245+.940+2.15)'0.0987384 Tc 1Total = 1x4.375=.5 m









9999	Sundries	L.S.	0.26	2.00	0.52
	TOTAL				2.52 W
	Add 1 % Water charges on "W"				0.03
	TOTAL				2.55 X
	Add GST on "X" (multiplying factor 0.1405)				0.36
	TOTAL				2.90 Y
	Add 15% CPOH on "Y"				0.44
	TOTAL				3.34 Z
	Add Cess @ 1% on "Z"				<del>0.63</del>

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2205	Carriage of Steel	tonne	0.0229	92.24	2.11
1215	Welding by electric plant 60 cm	cm	60.00	2.00	120.00
	LABOUR				
0102	Blacksmith 1st class	day	0.70	738.00	516.60
0114	Beldar	day	0.50	558.00	279.00
0100	Bandhani	day	0.25	617.00	154.25
	Applying priming coat 0.6 sqm.				
13.50.3	Rate as per item no 13.50.3 of				
	SH : Finishing	sqm	0.60	50.70	30.42 A
9999	Sundries	L.S.	4.55	2.00	9.10
	TOTAL				2141.98 W
	Add 1 % Water charges on "W-A"				21.12
	TOTAL				2163.10 X
	Add GST on "X-A" (multiplying factor 0.1405)				299.64

0102 LABOUR



**10.27      Providing and fixing carbon steel galvanised ( minimum coating . micron) dash**



Code	Description				
9977	Sundries for carriage of material	L.S.	10.00	2.00	20.00
	TOTAL				814.80 W
	Add 1 % Water charges on "W"				8.15
	TOTAL				822.95 X
	Add GST on "X" (multiplying factor 0.1405)				115.62
	TOTAL				938.57 Y
	Add 15% CPOH on "Y"				140.79
	TOTAL				1079.36 Z
	Add Cess @ 1% on "Z"				10.79
	Cost of 10 Nos.				1090.15
	Cost of 1 no				109.02
	Say				109.00

screw comprising of 10 mm dia  
polyamide PA 6 grade sleeve. Size  
10mm x 140mm

10 nos

1.00

**10.28      Providing and fixing stainless steel ( Grade 304) railing made of Hollow tubes, channels, plates etc., including welding, grinding, buffing, polishing and making**

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
7029	MATERIAL Wire gauze 1.40x1.10=1.54 sqm Add wastage @ 10 %=0.15 sqm Total=1.69 sqm Galvanised wire mesh of average width of aperture 1.4 mm and nominal dia. of wire 0.63 mm	sqm	1.69	250.00	422.50
9977	CARRIAGE M.S. Flat 15x3=2x(1.40+1.10)=5.0 metre Add wastage @ 5%=0.25 m Total=5.25 m 5.25@0.35kg/m=1.84 kg	L.S.	1.82	2.00	3.64
1008	Flats upto 10 mm in thickness	quintal	0.0184	4500.00	82.80
9977	CARRIAGE	L.S.	1.82	2.00	3.64
	LABOUR				
0103	Blacksmith 2nd class	day	0.17	679.00	115.43
0112	Carpenter 2nd class	day	0.17	679.00	115.43
0114	Beldar	day	0.06	558.00	33.48
9999	Sundries	L.S.	19.76	2.00	39.52
	TOTAL				810.44 W
	Add 1 % Water charges on "W"				8.16
	TOTAL				824.60 X
	Add GST on "X" (multiplying factor 0.1405)				115.86
	TOTAL				940.46 Y
	Add 15% CPOH on "Y"				141.07
	TOTAL				1081.53 Z
	Add Cess @ 1% on "Z"				10.82
	Cost of 1.54 sqm.				1092.35
	Cost of 1 sqm.				709.32
	Say				709.30

#### 10.29.2 Stainless steel (grade 304) wire gauze of 0.5 mm dia wire and 1.4 mm aperture on both sides

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
8737	Details of cost for a window shutter 1.40x1.10=1.54 sqm MATERIAL Wire gauze 1.40x1.10=1.54 sqm Add wastage @ 10 %=0.15 sqm Total=1.69 sqm Stainless steel wire guage (Grade-304) aperture 1.4mm and 0.50 mm dia wire	sqm	1.69	400.00	670.00
9977	CARRIAGE M.S. Flat 15x3=2x(1.40+1.10)=5.0 metre Add wastage @ 5%=0.25 m Total=5.25 m 5.25@0.35kg/m=1.84 kg	L.S.	1.82	2.00	3.64
1008	Flats upto 10 mm in thickness	quintal	0.0184	4500.00	82.80
9977	CARRIAGE	L.S.	1.82	2.00	3.64

	LABOUR				
0103	Blacksmith 2nd class	day	0.17	679.00	115.43
0112	Carpenter 2nd class	day	0.17	679.00	115.43
0114	Beldar	day	0.06	558.00	33.48
9999	Sundries	L.S.	19.76	2.00	39.52
	TOTAL				1069.94 W
	Add 1 % Water charges on "W"				10.70
	TOTAL				1080.64 X
	Add GST on "X" (multiplying factor 0.1405)				151.83
	TOTAL				1232.47 Y
	Add 15% CPOH on "Y"				184.87
	TOTAL				1417.34 Z
	Add Cess @ 1% on "Z"				14.17
	Cost of 1.54 sqm.				1431.51











**11.1 Brick on edge flooring with bricks of class designation 7.5 on a bed of 12 mm cement mortar, including filling the joints with same mortar, with common burnt clay non modular bricks:**

**11.1.1 1:4 (1 cement : 4 coarse sand)**

	Details of cost for 10 sqm.				
	MATERIAL				
2602	Common burnt clay F.P.S. (non modular) bricks class designation 7.5	1000 Nos	0.565	4500.00	2542.50
2201	Carriage of Bricks	1000 Nos	0.565	276.72	156.35
	Cement mortar 1 : 4 (1 cement : 4 coarse sand)				
3.9	Rate as per Item Number 3.9 of SH: Mortars	cum	0.434	4010.35	1740.49
0367	Portland Cement	tonne	0.02	4940.00	98.80
2209	Carriage of Cement	tonne	0.02	92.24	1.84
	LABOUR				
0124	Mason (brick layer) 2nd class	day	1.08	679.00	733.32
0114	Beldar	day	0.25	558.00	139.50
0115	Coolie	day	1.62	558.00	903.96
0101	Bhisti	day	0.27	617.00	166.59
	TOTAL				6483.35 W
	Add 1 % Water charges on "W"				64.83

0101	Bhisti	day	0.27	617.00	166.59
	TOTAL				6199.43 W
	Add 1 % Water charges on "W"				61.99
	TOTAL				6261.43 X
	Add GST on "X" (multiplying factor				
	0.1405)				879.73
	TOTAL				7141.16

11.3

Cement concrete flooring 1:2:4 (1 cement : 2 coarse sand : 4 graded stone

aggregate) finished with a floating coat of ne a cem, includoatin1 cemeslurry,

a g g r e g 2 : 4 S o a t l e w ( a g a t e : 7 1 5 ) T j 5 7 6 4 2 8 T f T

c u m 7 1 5 0 . 3 5 6 7 1 5 1 0 3 . 7 7 7 1 5 3 6 d 9 4 o n e c u m 7 1 5 0 . 1

0297	Stone Aggregate (Single size) :				
	10 mm nominal size	cum	0.089	1350.00	120.15
2202	Carriage of Stone aggregate below				
	40 mm	cum	0.356	103.77	36.94
0982	Coarse sand (zone III)	cum	0.178	1350.00	240.30
2203	Carriage of Coarse sand	cum	0.178	103.77	18.47
0298	Stone Aggregate (Single size) :				
	06 mm nominal size	cum	0.115	1400.00	161.00
2202	Carriage of Stone aggregate below				
	40 mm nominal size	cum	0.115	103.77	11.93
0367	Portland Cement	tonne	0.211	4940.00	1042.34
0367	Portland Cement	tonne	0.02	4940.00	98.80
2209	Carriage of Cement	tonne	0.231	92.24	21.3136.94

0982	Coarse sand (zone III)	cum	0.222	1350.00	299.70
2203	Carriage of Coarse sand	cum	0.222	103.77	23.04
0298	Stone Aggregate (Single size) :				
	06 mm nominal size	cum	0.115	1400.00	161.00
2202	Carriage of Stone aggregate below				
	40 mm nominal size	cum	0.115	103.77	11.93
0367	Portland Cement	tonne	0.243	4940.00	1200.42
0367	Portland Cement	tonne	0.02	4940.00	98.80
2209	Carriage of Cement	tonne	0.263	92.24	24.26
		<del>0.222</del> cum			

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Code	Description	Unit	Quantity	Rate	Amount
9999	Chequered plate etc.	L.S.	13.52	2.00	27.04
	TOTAL				472.36 W
	Add 1 % Water charges on "W"				4.72
	TOTAL				477.08 X
	Add GST on "X" (multiplying factor 0.1405)				67.03
	TOTAL				544.11 Y
	Add 15% CPOH on "Y"				81.62
	TOTAL				625.73 Z
	Add Cess @ 1% on "Z"				6.26
	Cost of 10 sqm.				631.99
	Cost of 1 sqm.				63.20
	Say				63.20



Code	Description	Quantity	Rate	Amount	n	₹	₹ i
	LABOUR						
0124	Mason (brick layer) 2nd class	day	1.79	679.00			1215.41
0114	Beldar	day	1.99	558.00			1110.42
0101	Bhisti	day	1.04	617.00			641.68
0139	Skilled Beldar (for floor rubbing etc.)	day	1.00	617.00			617.00
0127	Driver (for Road Roller, Concrete Mixer, Truck etc.)	day	0.03	738.00			22.14
0002	Hire charges of Concrete Mixer 0.25 to 0.40 cum with hooper	day	0.03	800.00			24.00
0013	Machine for rubbing of floors	day	1.60	300.00			480.00
9999	Sundries	L.S.	161.46	2.00			322.92
	TOTAL						6330.64 W
	Add 1 % Water charges on "W"						63.31
	TOTAL						6393.94 X
	Add GST on "X" (multiplying factor 0.1405)						898.35
	TOTAL						7292.29 Y
	Add 15% CPOH on "Y"						1093.84
	TOTAL						8386.14 Z
	Add Cess @ 1% on "Z"						83.86
	Cost of 10 sqm						8470.00
	Cost of 1 sqm						847.00
	Say						847.00

## 11.9.2 Light shade pigment with white cement

11.9.1	Details of cost for 10 sqm. Rate as per item no 11.9.1 of SH: Flooring	sqm	10.00	847.00	8470.00	A
	Add difference of cost due to using light shade pigment instead of dark shade pigment					
0875	Add for Red, chocolate, orange, buff or yellow (7T) with white cement					



2209	Carriage of Cement	tonne	0.0405	92.24	3.74
0784	Marble dust/ powder	cum	0.007	1130.00	7.91
	LABOUR				
0124	Mason (brick layer) 2nd class	day	1.79	679.00	1215.41
0114	Beldar	day	1.99	558.00	1110.42
0101	Bhisti	day	1.04	617.00	641.68
0139	Skilled Beldar (for floor rubbing etc.)	day	1.00	617.00	617.00
0127					

















<b>Code</b>	<b>68.7199 0 AmouCement</b>				
0367	Portland Cement	tonne	-0.081	4940.00	-400.14
	TOTAL				9548.86 W
	Add 1 % Water charges on "W-A"				4.50
	TOTAL				9553.36 X
	Add GST on "X-A" (multiplying factor 0.1405)				63.91
	TOTAL				9617.27 Y
	Add 15% CPOH on "Y-A"				77.82
	TOTAL				9695.09 Z
	Add Cess @ 1% on "Z-A"				5.97
	Cost of 10 sqm.				9701.05
	Cost of 1 sqm.				970.11
	Say				970.10

#### **11.11.4      White cement without any pigment**

Details of cost for 10 sqm

MATERIAL

For under layer 28 mm thick

0296      Stone Aggregate (Single size) :

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	LABOUR				
0124	Mason (brick layer) 2nd class	day	1.79	679.00	1215.41
0114	Beldar	day	1.99	558.00	1110.42
0101	Bhisti	day	1.04	617.00	641.68
0139	Skilled Beldar (for floor rubbing etc.)	day	1.00	617.00	617.00
0127	Driver (for Road Roller, Concrete Mixer, Truck etc.)	day	0.03	738.00	22.14
0002	Hire charges of Concrete Mixer 0.25 to 0.40 cum with hooper	day	0.03	800.00	24.00
0013	Machine for rubbing of floors	day	1.60	300.00	480.00
9999	Sundries	L.S.	134.55	2.00	269.10
	TOTAL				6394.48 W
	MacAdd 1 % Water charges on "W"				63.94
	TOTAL				6458.42 X
	Add GST on "X" (multiplying factor 0.1405)				907.41
	TOTAL				7365.83 Y
	Add 15% CPOH on "Y"				1104.87
	TOTAL				8470.70 Z
	Add Cess @ 1% on "Z"				84.71
	MacCost of 10 sqm.				8555.41
	MacCost of 1 sqm.				855.54
	Say				855.55



0367





0875



**11.15 Crazy marble stone flooring, including filling the gaps with light shade pigment**

0013	Machine for rubbing of floors TOTAL Add 1 % Water charges on "W-A" TOTAL Add GST on "X-A" (multiplying factor 0.1405) TOTAL Add 15% CPOH on "Y-A" TOTAL Add Cess @ 1% on "Z-A" Cost of 10 Sqm. Cost of 1sqm. Say	day	4.00	300.00	1200.00 10398.11 W 85.64 10483.75 X  1215.32 11699.07 Y 1479.79 13178.87 Z 113.45 13292.32 1329.23 1329.25
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**11.16 Precast terrazo tiles 22 mm thick with graded marble chips of size upto 12 mm, laid in floors, and landings, jointed with neat cement slurry mixed with pigment to match the shade of the tiles, including rubbing and polishing complete, on 20 mm thick bed of cement mortar 1:4 (1 cement:4 coarse sand) :**

**11.16.1 Light shade pigment using white cement**

orange, buff or yellow (on) light shade pigment	kilogram	3.08	60.00	184.80
layer) 2nd class	day	1.60	679.00	1086.40
	day	2.00	558.00	1116.00
(for floor rubbing etc.)	day	1.00	617.00	617.00
	day	1.00	617.00	617.00
rubbing of floors using carborandum	day	1.60	300.00	480.00
	L.S.	161.98	2.00	323.96 9257.62 W

### 11.16.3     Dark shade pigment using ordinary cement

	Details of cost for 10 sqm.				
	MATERIAL				
1203	Precast terrazo tiles 22 mm thick				
	(dark shade) including 10% wastage	sqm	11.00	245.00	2695.00
9977	Carriage of tiles	L.S.	40.43	2.00	80.86
	Cement mortar 1 : 4 (1 cement :				
	4 coarse sand)				
3.9					

2209	Carriage of Cement	tonne	0.088	92.24	8.12
0874	Black colour dark shade pigr 1 a15070582030.5 182.28kilogramTm (742)Tj 0.078169.700 7182.28343. Cement				

0874	Black colour dark shade pigment	kilogram	-5.92	7662057
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9999	Sundries including carborandum stone	
	and polishing powder etc. 2.00	322.92
		13497.35 W
		134.97
		13632.33 X

charges on "W"

#### **11.18.4 Ordinary cement without any pigment**





9999	Sundries including carborandum stone etc.	L.S.	161008	323.96
TOTAL				8737.98 W
Add 1 % Water charges on "W"				87.38
TOTAL				8825.36 X
Add GST on "X" (multiplying factor 0.1405)				1239.96
TOTAL				10065.32 Y
Add 15% CPOH on "Y"				1509.80
TOTAL				11575.12 Z
Add Cess @ 1% on "Z"				115.75
Cost of 10 sqm.				11690.87
Cost of 1 sqm.				1169.09
Say				1169.10

- 11.20 Chequerred precast cement concrete tiles 22 mm thick in footpath & courtyard, jointed with neat cement slurry mixed with pigment to match the shade of tiles, including rubbing and cleaning etc. complete, on 20 mm thick bed of cement mortar 1:4 (1 cement: 4 coarse sand).**
- 11.20.1 Light shade pigment using white cement**

	Details of cost for 10 sqm.			
	MATERIAL			
7070	Chequerred precast cement concrete tiles 22mm thick using marble chips of size 6mm - Light shade using white cement including 10% wastage	sqm	11.00	400.00
9977				4400.00

9977	Carriage of tiles	L.S.	40.43
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0124	LABOUR Mason (brick layer) 2nd class
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**11.21.2 In dado/skirting on 12 mm thick mortar 1:4 (1 acid proof cement : 4 coarse sand)**  
**11.21.2.1 Acid and alkali resistant tile**

Details of cost for 1 sqm.  
MATERIAL

#### 11.22.1.1 8 mm thick

Details of cost for 1 sqm.					
MATERIAL					
2751	8 mm thick marble tiles (polished)				
	Raj Nagar	sqm	1.061	400.00	424.40

3.9	Rate as per Item Number 3.9 of SH: Mortars Cement for slurry @4.4kg/sqm. (i) for bedding = 44 kg+ (ii) for jointing = 6 kg. Total = 50 kg	cum	0.224	4010.35	898.32
0367	Portland Cement	tonne	0.05	4940.00	247.00
9977	Carriage of marble slab LABOUR (for finishing, polishing and fixing)	L.S.	26.91	2.00	53.82









	3.9	Rate as per Item Number 3.9 of					
		SH: Mortars	cum	0.224	4010.35	898.32	
		Cement for slurry @ 4.4kg sqm.		cum2.00	53.82		
	LABOUR	(i) for bedding = 44 kg+					
	(for finishing, polishing, and fixing)	(ii) for jointing = 6 kg.					
0123	Mason (brick layer) 1st class	Total = 50 kg	day	1.20	738.00	885.60	
0114	Beldar	Portland Cement	day	1.00	558.00	558.00	
0115	Coolie	Carriage of marble slab	day	1.00	558.00	558.00	247.00
0139			L.S.	26.91			

**11.25      Extra for marble stone flooring in treads of steps and risers using single length up to 2.00 metre.**

Details of cost for 10sqm.					
LABOUR					
0123	Mason (brick layer) 1st class	day	1.95	738.00	1439.10
0114	Beldar	day	1.40	558.00	781.20
0115	Coolie	day	0.75	558.00	418.50
0139	Skilled Beldar (for floor rubbing etc.)	day	3.18	617.00	1962.06
9999	Sundries	L.S.	26.91	2.00	53.82
TOTAL					

ed

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9999	Sundries	L.S.	26.91	2.00	53.82	
	TOTAL				8031.40	W
	Add 1 % Water charges on "W"				80.31	
	TOTAL				8111.71	X
	Add GST on "X" (multiplying factor 0.1405)				1139.70	
	TOTAL				9251.41	Y
	Add 15% CPOH on "Y"				1387.71	
	TOTAL				10639.12	Z
	Add Cess @ 1% on "Z"				106.39	
	Cost for 10sqm.				10745.51	
	Cost for 1sqm.				1074.55	Cost r 1ostU9

0013



0013      Machine for rubbing of floors

- 11.33      25 mm wooden planking, tongued and grooved in flooring, including fixing with iron screws complete with :**
- 11.33.1    Second class teak wood**



0130	Mistry	day	0.10	738.00	73.80
9999	Sundries such as fuel, kerosene oil, sand paper etc.	L.S.	80.73	2.00	161.46
	TOTAL				7452.67 W
	Add 1 % Water charges on "W"				74.53
	TOTAL				7527.20 X
	Add GST on "X" (multiplying factor 0.1405)				1057.57
	TOTAL				8584.77 Y

13.50.3	Rate as per item no 13.50.3 of SH : Finishing	sqm	0.60	50.70	30.42 A
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9988	Sundries including carriage of cement etc	L.S.	26.91	2.00	53.82	
	TOTAL				692.78	W
	Add 1 % Water charges on "W"				6.93	
	TOTAL				699.71	X
	Add GST on "X" (multiplying factor 0.1405)				98.31	
	TOTAL				798.01	Y
	Add 15% CPOH on "Y"				119.70	
	TOTAL				917.72	Z
	Add Cess @ 1% on "Z"				9.18	
	Cost for 1 sqm				926.89	

**11.38 Providing and laying Ceramic glazed floor tiles of size 300x300 mm (thickness**





**11.40 Providing and laying rectified Glazed Ceramic floor tiles of size 300x300 mm or more (thickness to be specified by the manufacturer), of 1st quality conforming to IS : 15622, of approved make, in all colours, shades, except White, Ivory, Grey, Fume Red Brown, laid on 20 mm thick Cement Mortar 1:4 (1 Cement : 4 Coarse sand), jointing with grey cement slurry @ 3.3 kg/sqm including pointing the joints with white cement and matching pigments etc., complete.**

Details of cost for 1 sqm

MATERIAL

Rectified Ceramic Glazed floor tiles

300x300 mm size or more = 1.000 sqm

Add for wastage & breakage @

2.5 % = 0.025 sqm

1.025

Total = 1.025 sqm

7804

Rectified Ceramic Glazed Tiles Ist

quality 300x300mm or more in all

shades designs except White, Ivory,

Grey, Fume Red Brown etc.

sq.m.



0367	Portland Cement	tonne	0.0033	4940.00
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#### **11.41.4      Size of Tile 1000x1000 mm**

Details of cost fo510066q

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**11.44** Crazy ceramic tile flooring, with under layer 12 mm thick cement mortar 1:4 (1 cement: 4 coarse sand), with joints not exceeding 5 mm, including filling the gaps with ordinary cement mixture & mixing with synthetic polyester fibre, triangular in shape having specific gravity of 1.34 to 1.40, cross section size 100 mm x 100 mm x 12 mm (under ) 2stuclass11.44  
Beld m4 (1  
Bhisti4 (111.44



- 11.46 Providing and laying Vitrified tiles in different sizes (thickness to be specified by manufacturer), with water absorption less than 0.08 % and conforming to I.S. 15622, of approved make, in all colours & shade, in skirting, riser of steps, over 12 mm thick bed of cement mortar 1:3 (1 cement: 3 coarse sand), jointing with grey cement slurry @ 3.3 kg/ sqm including grouting the joint with white cement & matching pigments etc. complete.**



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**11.46A Providing and fixing glazed screen printed border tile 75mm wide having thickness 5mm, of approved quality & make, in all shades, design and prints, in dado, over 12mm thick bed of cement mortar 1:3 (1 Cement : 3 Coarse sand) and jointing with grey cement slurry @ 3.3 kg/sqm including pointing with white cement mixTc with pigment of matching shade, all complete as approved by Engineer - in - Charge**

	Details for 1sqm (i.e. 13.33m length)				
	Material				
8624	Border tiles 200x75mm size 5mm thick	each	68.00	16.00	1088.00
	Tile required= $1.00/(0.20 \times 0.075) = 66.70$ tile.				
	Add 2.5% wastage = 1.67 tile				
	Total 68.37 say 68 tiles				
9999	Carriage	L.S.	6.24	2.00	12.48

8620	Vitrified floor tile 50x50 cm	sqm	1.025	490.00	502.25
9977	Carriage of tiles	L.S.	6.24	2.00	12.48
8731					



9988	Sundries including carriage of quick set polymer etc.	L.S.	26.91	2.00	53.82	
	TOTAL				2044.55	W
	Add 1 % Water charges on "W"				20.45	
	TOTAL				2065.00	X
	Add GST on "X" (multiplying factor 0.1405)				290.13	
	TOTAL				2355.13	Y
	Add 15% CPOH on "Y"					



CodeDescriptionUnitQuantityRateAmount

99886 Sub#125 14.57 TONGUE & GROOVE 24.5 SA 500 5% CPO 2.00 10.00 774.10 24.5 163.5 163.5 100% Waste @ 12% ges 17.22 136.28 TOTAL 103.28



#### 11.49.2      **Size of Tile 600x600 mm**

Details of cost for 1 sqm

MATERIAL

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

Add wastage & breakage @ 2.5% =  
0.025 sqm

Total = 1.025 sqm

9988	Sundries including carriage of quick set polymer etc.	L.S.	26.91
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	LABOUR :			
	(for finishing , polishing and fixing)	5.00	738.00	738.00
0123	Mason (brick layer) 1st class	day	1.75	738.00
0114	Beldar	day	1.25	558.00
0115	Coolie	day	1.00	558.00
0139	Skilled Beldar (for floor rubbing etc.)	day	5.00	617.00
0013	Machine feflo8fr (fost class	day		3085.00

Code	Description	Unit	Quantity	Rate	Amount
9999	Sundries including carriage of adhesive etc.	L.S.	26.91	2.00	53.82
	TOTAL				19435.06 W
	Add 1 % Water charges on "W"				194.35
	TOTAL				19629.41 X
	Add GST on "X" (multiplying factor 0.1405)				2757.93
	TOTAL				22387.34 Y
	Add 15% CPOH on "Y"				3358.10
	TOTAL				25745.44 Z
	Add Cess @ 1% on "Z"				257.45
	Cost for 8.00 sqm				26002.90
	Cost for 1.00 sqm				3250.36
	Say				3250.35

for superior adhesion and Surface flatness within 0.75mm. The panel is to withstand a Concentrated Load of 363 kgs applied on area 25mm x 25mm without collapse in the centre of the panel which is placed on four steel blocks. The panel will withstand and Uniformly Distributed Load (UDL) minimum 1250 kg/sqm and an impact load of 50kg all complete as per the approved manufacturers specification and as per the direction of Engineer-in-charge. All specification must be printed on the side of the panel to ensure the quality of the product.

**11.54.1      300 mm Finished Floor Height (FFH)**

0111      LABOUR :



0115	Coolie	day	1.00	558.00	558.00
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SUB HEAD : 10.0

# ROOFING



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

up to 8% pitch vertical / horizontal // curved surface, b face fixed

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
4202	Red oxide Zinc chromate primer	litre	2.53	110.00	278.30
9977	Carriage of material	L.S.	0.52	2.00	1.04
0131	Painter	day	1.13	679.00	767.27
0115	Coolie	day	1.13	558.00	630.54
9999	Brushes, sand papers i/c sundries	L.S.	50.57	2.00	101.14
0845	Roofing paint for iron sheets in red colour	litre	3.75	120.00	450.00
9977	Carriage of paint	L.S.	6.76	2.00	13.52
0131	Painter	day	2.53	679.00	1717.87
0115	Coolie	day	2.53	558.00	1411.74
9999	Brushes and Sandpapers	L.S.	31.98	2.00	63.96
9999	Sundries	L.S.	38.09	2.00	76.18
	TOTAL				170219.61 W
	Add 1 % Water charges on "W"				1702.20
	TOTAL				171921.81 X
	Add GST on "X" (multiplying factor 0.1405)				24155.01
	TOTAL				196076.82 Y
	Add 15% CPOH on "Y"				29411.52
	TOTAL				225488.34 Z
	Add Cess @ 1% on "Z"				2254.88
	Cost of 184.518 Sqm.				227743.23
	Cost of 1 Sqm.				1234.26
	Say				1234.25

### 12.1.2 0.80 mm thick with zinc coating not less than 275 gm/m²

Details of cost for a roof with each sloping side 18.09x5.10m and slop being flatter than 1 vertical to 2.5 horizontal  
Area of roof =  $2 \times 18.09 \times 5.1 = 184.518$  sqm.  
Details of length and breadth.  
Length  $26(\text{laps}) \times 0.135(\text{each lap}) = 3.51$   
Width of Corrugator sheet with 10 corrugation measured end to end = 0.8 metres  
 $27(\text{nos. of sheets}) \times 0.80(\text{width of sheet}) = 21.60$  length  
Less laps = 3.51  
Length = 18.09  
Breadth  
C.G 0. Sheet 1 No. of = 2.5 metres length+  
C.G 0. Sheet 1 No. of = 2.8 metres length  
T3 0.975-12q75 o752











### 12.2.3      0.63 mm thick

Details of cost for 3 metres periphery  
Assuming a hole of 10dmx5dm area of  
the hole 50dm<sup>2</sup> and the perimeter of  
the hole 3 metre  
LABOUR

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0222	Seam bolts and nuts 6 mm dia and 25 mm long	10 Nos	1.20	10.00	12.00
	25mmx6mm (There are 14 joints)				
1211	G.I. plain washer for seam bolts	100 Nos	0.12	32.00	



LABOUR





0112	Carpenter 2nd class	day	9.34	679.00	6341.86	
0114	Beldar	day	9.34	558.00	5211.72	
	TOTAL				73225.00	W
	Add 1 % Water charges on "W"				732.25	
	TOTAL				73957.25	X
	Add GST on "X" (multiplying factor 0.1405)				10390.99	X

0114	Beldar	day	1.00	558.00	558.00
	TOTAL				1296.00 W
	Add 1 % Water charges on "W"				12.96
	TOTAL				1308.96 X
	TOTAL				
	ADJUST on "X" (multiplying				

One piece corrugated serrated  
adjustable ridges  
Consider a shed of 20x10m (external  
dimensions at plinth).  
Length of ridges 20.2 metre  
MATERIAL  
Ridge piece required each of 1.22mm  
length = 19 nos. +



## 12.12.4 Unserrated adjustable hips

	Details of cost for a shed with hip as 20.2 metres Unserrated adjustable hips Consider a shed with hip as 20.2 metres No. of hi pieces required = 19 pairs Length of each pair 1.22 metres Add 5 % wastage = 0.95 pairs = 19.95 pairs x 1.22 = 24.339 metre				
0227	Fibre reinforced by organic fibres and/ or inorganic synthetic fibres cement unserrated adjustable adjustable ridge for hips.	metre	24.339	210.00	5111.19
9977	Carriage	L.S.	6.76	2.00	13.52
9999	Sundries	L.S.	6.63	2.00	13.26
	LABOUR				
0130	Mistry	day	0.14	738.00	103.32
0112	Carpenter 2nd class	day	0.55	679.00	373.45
0114	Beldar	day	1.64	558.00	915.12
	TOTAL				6529.86 W
	Add 1 % Water charges on "W"				65.30
	TOTAL				6595.16 X
	Add GST on "X" (multiplying factor 0.1405)				926.62
	TOTAL				7521.78 Y
	Add 15% CPOH on "Y"				1128.27
	TOTAL				8650.05 Z
	Add Cess @ 1% on "Z"				86.50
	Cost of 20.20 metre				8736.55
	Cost of 1.00 metre				432.50
	Say				432.50



0130	LABOUR Mistry	day
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12.13.3 North light curves

0230	Details of North light curve 20.2 metres long complete length				
	MATERIAL				
	North light curves of 1.016 metres nominal length = 20 nos. + Add 5% wastage = 1.0 No. = 21 nos.x 1.016 = 21.336 metre				
	Fibre reinforced by organic fibres and/or inorganic synthetic fibres cement north light curves.	metre	21.336	280.00	5974.08 22(280.00)T.4 00462346 To 1 1493sR90 674.08

	LABOUR				
0130	Mistry	day	0.10	738.00	73.80
0112	Carpenter 2nd class	day	0.30	679.00	203.70
0114	Beldar	day	1.00		

### 12.13.6 Ridge finials

Details of a pair of ridge final

MATERIAL

Ridge final = pair

Add 5% wastage = 0.05pair.

Total = 1.05 pair

0233

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0114	Beldar	day	1.00	558.00	558.00
	TOTAL				13028.74 W
	Add 1 % Water charges on "W"				130.29
	TOTAL				13159.03 X

### 12.13.8 S type louvers

5475.00 m<sup>2</sup> for 58.74 metres





0124	LABOUR				
0114	Mason (brick layer) 2nd class	day	1.30	679.00	882.70
0101	Beldar	day	3.75	558.00	2092.50
	Bhisti	day	1.10	617.00	678.70



3.3      Rate as per Item Number 3.3 of



3.9	Rate as per Item Number 3.9 of SH: Mortars Integral water proofing compound	cum	0.037	4010.35	148.38
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0124



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3.3	Rate as per Item Number 3.3 of						
	SH: Mortars	cum	0.0075	4183.05	31.37		
	TOTAL				6092.74	W	
	Add 1 % Water charges on "W"				60.93		
	TOTAL				6153.66	X	
	Add GST on "X" (multiplying						X





- 12.25**      **Providing and fixing flat pressed 3 layer medium density particle board or graded particle board (Grade I) IS: 3087 marked, in ceiling with necessary nails etc. complete (frame work to be paid separately):**
- 12.25.1**    **12 mm thick**

Details of cost for 10 sqm.  
MATERIAL



Code	Description	Unit	Quantity	Rate ₹	Amount
	Area = $10 \times (22/7) / 4 \times 0.5 \times 0.5 =$ 1.96sqm. + Wastage @ 10% = 0.19 sqm. = 2.15 sqm x 20mm = 0.043 cum				
1190	Second class teak wood in planks	10 cudm	4.30	791.00	3401.30
2204	Carriage of Timber	cum	0.041	118.59	4.86
0637	Bright finished or black enamelled mild steel screws 40 mm	100 Nos	0.31	60.00	18.60
	LABOUR				
0111	Carpenter 1st class	day	2.65	738.00	1955.70
0112	Carpenter 2nd class	day	0.145	679.00	98.46
0114	Beldar	day	2.79	558.00	1556.82
9999	Scaffolding	L.S.	7.8	2.00	15.60
9999	Sundries	L.S.	14.69	2.00	29.38
	TOTAL				7080.72 W
	Add 1 % Water charges on "W"				70.81
	TOTAL				7151.52 X
	Add GST on "X" (multiplying factor 0.1405)				1004.79
	TOTAL				8156.31 Y
	Add 15% CPOH on "Y"				1223.45
	TOTAL				9379.76 Z
	Add Cess @ 1% on "Z"				93.80
	Cost of 15.71 metre				9473.56
	Cost of 1.00 metre				603.03
	Say				603.05

9999	Scaffolding	L.S.	10.79	2.00	21.58
	TOTAL				4334.18

**12.27.4 Flame retardant face insulating board:**  
**12.27.4.1 12 mm thick**

Details of cost for 15.71 metre

MATERIAL

0.5 metre dia. each =  $10 \times 22/7 \times$

$0.5 = 15.71\text{m}$

Area =  $10 \times (22/7) / 4 \times 0.5 \times 0.5 = 1.96\text{sqm.} +$

Wastage =  $10 \times (22/7) / 4 \times 0.5 \times 0.5 = 1.96\text{sqm.} +$





0869 Plaster of Paris



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**12.35 Providing and fixing thermal insulation with Resin Bonded Fibre glass wool conforming to IS: 8183. Density 16 kg/m<sup>3</sup>, 50 mm thick, wrapped in 200G Virgin**



- 12.37 Providing and fixing 100 mm diameter and 60 cm long rain water spout in cement mortar 1:4 (1 cement : 4 fine sand).
- 12.37.1

0982	Coarse sand (zone III)	cum	0.0022	1350.00	2.97
2203	Carriage of Coarse sand	cum			







- 12.41 Providing and fixing on wall face 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, (i) Single socketed pipes.**
- 12.41.1 75 mm diameter**

7188	Details of cost for 6.00 metres U-PVC pipes (working pressure 4 kg / sqcm.) Single socketed pipe 75 mm dia.	metre	6.00	70.00
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9988	Adhesive, Carriage of material rubber washer etc. including fixing charges	L.S.	13.47	2.00	26.94
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9988	Carriage and fixing charges	L.S.	10.79	2.00
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12.45



7020	All drive screws (for gypsum board)	100 Nos
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7020	All drive screws ( for gypsum board)	100 Nos	10.00	58.00	580.00
7016	Joint filler	kilogram	22.81	26.00	593.06
7017	Joint finisher	kilogram	34.21	23.00	786.83
7018	Joint tape roll	roll	1.27	100.00	127.00
7021					



12.47

## 12.47.2 2 mm thick flat

Details of cost for area of roof.

$2 \times 18.09 \times 5.1 = 184.518$  sqm.

MATERIAL

8667	UV stabilised 2 mm thick plain FRP sheet	sqm	240.408	430.00	103375.44
9977	Carriage of sheet	L.S.	104.00	2.00	208.00
	G.I.Seam bolts and nuts 60cm centre to centre zig-zag i.e. 30cm centre to centre straight Breadth is 5.1metre				





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.

MATERIAL

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	metremetre

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9977	Consider a length of 10.00m				
	Precoated galvanised steel gutter	metre	10.00	420.00	4200.00

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**12.52.2 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.**

Details of cost for 100 sqm.

MATERIAL

Celling Area =100 sqm

Add wastage @ 5% = 0.05 sqm.

Total=100.05 sqm

8600	GI Metal Tile Lay-in Perforated Tegular edge global white color tiles of Size 595x595mm and 0.5 mm thick	sqm	105.00	715.00	75075.00
8611	Main T ceiling sections 24x38x0.3 mm (3 metre long)	each	29.50	115.00	3392.50
8612	Including Wastage @ 10% Perimeter wall angle 24x24x0.3mm (3 metre long)	each	13.50	80.00	1080.00
8613	Including Wastage @ 10% Intermediate cross T-section 24x25x0.3mm (1.2 mtrs long)	each	147.00	35.00	5145.00
8614	Including Wastage @ 10% on Grid for cut outs Intermediate cross T-section 24x25x0.3mm (0.6 mtrs long)	each	147.00	17.00	2499.00
8615	Including Wastage @ 10% on Grid for cut outs Hanger rod 4 mm thick	each	72.00	8.00	576.00
8616					



**12.52.3**      **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 i3rd,4ith white1 0 612.5 mm tfi sqretterant edgefilm ol fre maele de Twart I**

**12.52.4      12.5 mm thick fully Perforated Gypsum Board tile made from plasterboard having**

**12.53 Providing and Fixing 15 mm thick densified tegular edged eco friendly light weight**

	LABOUR				
0111	Carpenter 1st class	day	28.00	738.00	20664.00
0114	Beldar	day	23.00	558.00	12834.00
	TOTAL				122870.16 W
	Add 1 % Water charges on "W"				1228.70
	TOTAL				124098.86 X
	Add GST on "X" (multiplying factor 0.1405)				17435.89
	TOTAL				141534.75 Y
	Add 12% Cess on "Y"				17184.17
	TOTAL				158718.92 Z
	Add 1% Surtax on "Z"				1627.65
	TOTAL				160346.57

00 sq (X)Tj 0.06017525 Tc 42 -11.4 0.983308 Tdd Cess @ 1% on "Z")Tj 0.043.90 1 2964560160 Td (1228.70)Tj 0.205S0.20336 Td Cess @



8606	Main C Carrier Size 10x38x10x0.70mm (3.00 meter long)	metre	33.00	115.00
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0368

	LABOUR				
9999	For PU spray	L.S.	80.54	2.00	161.08
9999	For cement screed with Polythene sheet	L.S.	53.69	2.00	107.38
	TOTAL				1055.50 W
	Add 1 % Water charges on "W"				10.56
	TOTAL				1066.06 X
	Add GST on "X" (multiplying factor 0.1405)				149.78
	TOTAL				1215.84 Y
	Add 15% CPOH on "Y"				182.38
	TOTAL				1398.21 Z
	Add Cess @ 1% on "Z"				13.98
	Cost of 1 sqm				1412.19



**12.58 Providing and fixing tiled false ceiling of specified materials of size 595x595 mm in**

0114	Beldar	day	23.00	558.00	12834.00
	TOTAL				131526.61 W



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0114	Beldar	day	0.50	558.00	279.00	
	TOTAL				2072.00	W
	Add 1 % Water charges on "W"				20.72	
	TOTAL				2092.72	X
	Add GST on "X" (multiplying factor 0.1405)				294.03	
	TOTAL				2386.75	Y
	Add 15% CPOH on "Y"				358.01	
	TOTAL				2744.76	Z

- 12.63 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	High Albedo paint	kg	7.17	230.00	1649.10197	HCarr
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Available at: JAIN BOOK AGENCY (PENT-21)

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