The capacity of Doing work by skilled labor in the form of quantity per day is called task or out turn work.

Task or Out Turn Work (Labor output)

Some of the task of major construction activities has been listed below:

	Particulars of Item	Qty	UnitPer Day
A.	Brickwork		
1	Brickwork in Lime or Cement Mortar (Foundation & Plinth)	1.25	Cum Per Mason
2	Brickwork in Lime or Cement Mortar (Super structure)	1	Cum Per Mason
3	Brickwork in Mud Mortar (Foundation & Plinth)	1.5	Cum Per Mason
4	Brickwork in Mud Mortar (Super structure)	1.25	Cum Per Mason
5 6	Brick in Cement or lime mortars in arches Brick in Cement or lime mortars in Jack arches	0.55 0.55	Cum Per Mason Cum Per Mason
7	Half Brick wall in Partition (115 mm)		
B.	Stone Work		
8	Course Rubble Stone Masonary in lime/cement mortar + dressing	0.8	Cum Per Mason
9	Random Rubble Stone Masonary in lime/cement mortar + dressing	1	Cum Per Mason
10	Ashlar Masonary in lime/cement Mortar	0.4	Cum Per Mason
11	Stone Arch Work	0.4	Cum Per Mason
C.	Concrete Work		
12	Lime concrete in foundation/ floor	8.5	Cum Per Mason
13	Lime concrete in roof terracing	6	Cum Per Mason
14	Cement concrete (1:2:4)	5	Cum Per Mason
15	R.B. work	1	Cum Per Mason
16	R.c.c work	3	Cum Per Mason

D. Plastering work

17 Plastering (12mm)with cement/ lime mortar	8	Cum Per Mason
18 Pointing with Cement/ Lime mortar	10	Cum Per Mason

E. Whitewashing or Painting

19 Whitewashing or Colour Washing - 1 coat	200	sqm	per White Washer
20 Whitewashing or Colour Washing - 3 coats	70	sqm	per White Washer
21 Door / Windows painting or varnishing- 1 Coat	25	sqm	per painter
22 Painting large surface -1 Coat	35	sqm	per painter
23 Distempering - 1 coat	35	sqm	per painter

F. Flooring

24	2.5 cm (1 inch) C.C. floor	7.5	sqm	Per Mason
25	Flagstone floor laying with lime/cemnt mortar excluding L.C.	10	sqm	Per Mason
26	Terazzo flooring (6mm thick mosaic work) ove 2 cm thk Cement concrete (1:2:4)	^r 5	sqm	Per Mason
27	Brick on edge in floor lime/cement mortar excluding L.c.	7	sqm	Per Mason
28	Brick flat floor lime/cement mortar excluding L.c.	8	sqm	Per Mason

G. Door Frame

29 Timber Framing (Sal/ Teak wood)	0.07	cum	per carpenter
30 Timber Framing (Country wood)	0.15	cum	per carpenter

D/W Shutters

31 Door/ window shutters panelled or glazed	0.15	sqm	per carpenter
32 Door/ window shutters battened	0.8	sqm	per carpenter
33 Sawing Hard wood	4	sqm	per pair of sawers
34 Sawing Soft wood	6	sqm	per pair of sawers
H.Tiling			

35 Single Allahbad/ Mangalore tiling 6 sqm Per Tile layer

36	Double allahbaad tiling	4	sqm	Per Tile layer
37	Breaking of brick ballast			
a	40 mm Gauge	0.75	Cum	Per Labor
b	25 mm Gauge	0.55	Cum	Per Labor
38	Breaking of Stone ballast			
a	40 mm Gauge	0.4	Cum	Per Labor
b	25 mm Gauge	0.25	Cum	Per Labor
I.	Dressing Work			
43	Ashlar Stone dressing	0.7	cum	Per stone cutter
44	Flag stone dressing	1.5	sqm	Per stone cutter
J.	Earth Work			
45	Earthwork in excavation in ordinary soil	3	cum	per labor
46	Earthwork in excavation in hard soil	2	cum	per labor
47	Excavation in rock	1	cum	per labor
				per labor
48	Sand filling in plinth	4	cum	

Construction Material Cost in Gujarat

Cement & Sand rate in Gujarat

CEMENT & SAND	UNIT	MINIMUM RATE	AVERAGE COST	MAX. PRICE
Cement	Qty	₹ 342	₹ 376.2	₹ 410.4
River Sand	Qty	₹ 2970	₹ 3267	₹ 3564
M Sand	Qty	₹ 1980	₹ 2178	₹2376

Construction Bricks Rate in Gujarat

BRICKS	UNIT	MINIMUM RATE	AVERAGE COST	MAX. PRICE
Cement Blocks	Qty	₹ 25	₹ 27.5	₹ 30
AAC Blocks	Qty	₹ 36	₹ 39.6	₹ 43.2
Gravel	Qty	₹21	₹23.1	₹ 25.2
TMT Steel	Qty	₹ 55440	₹ 60984	₹ 66528

TMT Steel Rate in Gujarat for Construction

TMT STEEL	UNIT	MINIMUM RATE	AVERAGE COST	MAX. PRICE
Conduit Pipes	Qty	₹ 342	₹ 369.36	₹ 393.3

Electrical Items Rate in Gujarat for Construction

ELECTRICAL ITEMS	UNIT	MINIMUM RATE	AVERAGE COST	MAX. PRICE
Metal Boxes 6 Switches	Qty	₹ 50	₹ 55	₹70

ELECTRICAL ITEMS	UNIT	MINIMUM RATE	AVERAGE COST	MAX. PRICE
cables and Wires (1 To 6 SQ MM - 90 Meters) FROM	Qty	₹ 842	₹ 926.2	₹1178.8
cables and Wires (1 To 6 SQ MM - 90 Meters) HIGH	Qty	₹ 4950	₹ 5445	₹ 6930
Switches Lower Range	Qty	₹ 20	₹ 22	₹28
Switches High Range	Qty	₹ 134	₹ 147.4	₹ 187.6
Sockets	Qty	₹ 30	₹ 33	₹ 42
Dimmers	Qty	₹ 198	₹ 217.8	₹ 277.2
MCB	Qty	₹ 149	₹ 163.9	₹ 208.6

Plumbing Materials Rate in Gujarat for Construction

PLUMBING ITEMS	UNIT	MINIMUM RATE	AVERAGE COST	MAX. PRICE
Pipes UPVC	Qty	₹218	₹ 239.8	₹ 272.5
Pipes PVC	Qty	₹ 158	₹ 173.8	₹ 197.5
UPVC	Qty	₹ 396	₹ 435.6	₹ 495

Timber Wood Market Rate in Gujarat for Construction

TIMBER / WOOD	UNIT	MINIMUM	AVERAGE	MAX.
COST		RATE	COST	PRICE
Teak Wood	Vood Qty		₹ 1306.8	₹ 1485

Floor Tiles / Granite Rate in Gujarat for Construction

FLOOR	UNIT	MINIMUM RATE	AVERAGE COST	MAX. PRICE
Marbles	Qty	₹ 495	₹ 569.25	₹ 643.5

FLOOR	UNIT	MINIMUM RATE	AVERAGE COST	MAX. PRICE
Tiles	Qty	₹ 89	₹ 102.35	₹ 115.7

Painting Rate (Home & Office building) in Gujarat

PAINTING	UNIT	MINIMUM	AVERAGE	MAX.
RATE		RATE	COST	PRICE
Per Square Feet	Qty	₹40	₹43.2	₹ 48

Railing & Gril Rate in Gujarat for Construction

RAILING AND	UNIT	MINIMUM	AVERAGE	MAX.	
GRILLS		RATE	COST	PRICE	
Raliling And Grills - Per Kg	Qty	₹ 84	₹ 90.72	₹96.6	

Building Construction materials Price list i

Gujarat Minimum Wage w.e.f April 1, 2019 to September 30, 2019

Scheduled Employment	Category of Workers	Total Minimum Wage
	Unskilled	315.9
Cement Prestressed Products Industry	Semi-Skilled	323.9
2	Skilled	332.9
Maintenance of Buildings and construction and maitenance of runways	Unskilled	315.9





Assuming:-

28MAR 2018

Volume of brickwork = 1m³

Size of brick->19x9x9 cm

Thickness of mortar = 10mm (1cm)

Quantity of Bricks:-

No. of bricks = Volume of brickwork/ volume of 1 brick with mortar

Volume of 1 Brick with mortar = 0.20×0.10×0.10=0.002 m³

∴ No. of bricks = 1/0.002 = **500 No's**

Quantity of cement:-

Volume of bricks= (0.19×0.09×0.09) x 500 = 0.001539 x 500 = 0.7695 m³

Quantity of mortar = Quantity of brickwork – Volume of bricks

Quantity of mortar = $1 - 0.7695 = 0.2305 \text{ m}^3$

Mix Ratio -> 1:6

Dry volume of mortar = Wet volume x 1.33

Dry Volume = 0.2305 m³x 1.33 = 0.3066 m³

Quantity of Cement = {(Dry Volume of mortar x Cement ratio) / (Sum of the ratio)}

∴Quantity of cement = (0.3066 x 1) /(1+6)=0.0438 m³

Density of Cement = 1440 kg/m³

: Weight of Cement = 1440 x 0.0438 = 63.072Kg

1 bag of cement contains 50 kg of cement

: Number of bags = 63.072 Kg / 50 kg = 1.261 No's

Quantity of Sand:-

Cement : Sand :: 1:6

Quantity of Sand = Quantity of Cement x 6

: Quantity of Sand = $0.0438m^3x_6 = 0.2628 m^3$

1 m³=35.3147 Cubic Feet (CFT)

: Quantity of sand = 0.2628 x 35.3147 = 9.280 CFT

Density of sand = 1920 kg/m³

: Weight of the sand= 0.2628 x 1920= 504.576 kg =>0.504 tonnes

Material Cost:-

Labours for 5 m ²	No's	Wages/day	Amount
Mason	1.25	<u>Rs</u> . 550	<u>Rs</u> . 687.5
Male <u>Mazdoor</u>	2	<u>Rs</u> . 500	<u>Rs</u> . 1000
Female <u>mazdoor</u>	3	<u>Rs</u> . 450	<u>Rs</u> . 1350
Bhisti	1/2	<u>Rs</u> . 400	<u>Rs</u> . 200
			<u>Rs</u> . 3237.5

Labour Cost:-

Area=volume/thickness = 1m³/0.20m = 5m²

Material for one cu. m.	Quantity	rate	per	Amount
Bricks	550	<u>Rs</u> . 4500	1000 No's	<u>Rs</u> . 2475
Cement	1.261	<u>Rs</u> . 350	bag	<u>Rs</u> . 441.35
Sand	0.2628 Rs. 1350 m ³		m ³	<u>Rs</u> . 354.78
			Total	<u>Rs</u> . 3271.13

Summary:-

Cost of material = Rs. 3271.13

Cost of labours = Rs. 3237.5

Sum of labour & material cost= Rs. 6508.63

Add:-

1.Water charge @ 1.5% = (1.5/100)x6508.63 = Rs. 97.629

2.Contractor's profit @15 % = (15/100)x6508.63= Rs. 976.294

Total cost = 97.532 + 975.323+6502.15 = Rs. 7582.553

So, Cost of brickwork may vary from Rs. 6000 to 8500 based on location.

Rate Analysis of RCC (Reinforcement <u>Cement</u> <u>Concrete</u>)

Example for Rate Analysis of RCC

Sr No.	Description	Qty	Unit	Rate	Cost
R.C.C	. works of M-20 grade with 20mm and downgrades bl	ack hard	granite	(crusher bro	ken) stone
	chips including hoisting and laying D	ata for 1	.0 cu.m.		
	Details of cost for 10.00 Cu.m.				
		1			
A	Labour Charges				
1	Mason -1 st	0.50	Day	700.00	350.00
2	Mason -2nd	0.50	Day	600.00	300.00

3	Bhisti	2.70	Day	400.00	1080.00
4	Coolie	6.00	Day	400.00	2400.00
5	Mate	0.40	Day	500.00	200.00
В	Material				
1	Cement	85.20	Bag	320.00	27264.00
2	Wastage Extra	2%			545.28
3	Sand	4.43	Cu.m.	1325.00	5869.75
4	Wastage Extra	7%			410.88
5	Aggregate 20 mm	5.40	Cu.m.	1125.00	6075.00
6	Wastage Extra	5%			303.75
7	Aggregate 10 mm	3.60	Cu.m.	1110.00	3996.00
8	Wastage Extra	5%			199.80
9	Reinforcement 2% as per Volume(2%*10 Cu.m)	200	K.g.	56.00	11200.00
10	Wastage Extra @ reinforcement	2%			224.00
C	Hire and Running Charges of Mech Mixer	5%			2804.42
D	Transportation Cost 1%	1%			560.88

E	Other Charges 2 % Extra	2%			1208.37
F	Add for Water Charge @ 1% on Items Marked	1%			604.18
G	Add for Contractor's Profit @15% on Items Marked	15%			9062.77
			Cost of 2	10.00 Cu.m.	74009.09
			Co	ost of Cu.m.	7400.91
			Rour	ıd off Cu.m.	7401.00

Calculation of Concrete for Rate Analysis of RCC (Reinforcement Cement Concrete): <u>Excel Sheet</u>

In this **<u>Rate Analysis</u>** of **RCC** calculation of material, labor, wastage, and other charges in rate analysis.

Also, read: Rate Analysis of Brick Masonry

Material calculation in Rate Analysis like Cement, sand, aggregate, and reinforcement

Cement calculation

Dry <u>Cement</u> volume = 1.25 convert <u>Wet</u> cement.(The <u>concrete</u> mortar dry volume of concrete decrease volume of dry cement mortar, so 1.25 time of dry mortar)

Wastage of cement mortar 30 % (1.25) extra

So, Cement calculation requirement of cement = $1 \times 1.25 \times 1.30 = 1.625$ cu.m,

Herer calculation concrete ratio 1:1.5:3

The required amount of Cement quantity at <u>concrete</u> = 1.625 Cu.m. x (1/(1+1.5+3))

• = 1.625×0.1819

- = 0.2956 cu.m. cement requirement
- Cement in k.g. = volume x density cement
- Cement in k.g. = 0.2956 cu.m. x 1440 (1440 kg/m Density of cement for 50 k.g)
 - = 0.2956 x 1440 = 425.646 kg of cement of bag requied ment of cement in k.g.
 - = 425.646 / 50 (one cemnent bag weight 50 k.g. only) = 8.51 bag
- So, 10 cu.m. concrete requirement of cement = 8.52 bag x 10 cu.m. = 85.20 bag

Sand calculation

- Required amount of Sand = 1.625 Cu.m. x (1.5/(1+1.5+3))
 - =0.443 Cu.m. requierd of sand for 1 Cu.m.
- So,
 - 10 cu.m. concrete requirement of sand = 0.443 Cu.m x 10 cu.m. = 4.43 cu.m.

Also, rate: Instrumental Errors in Leveling | Type of Errors in Leveling

Aggregate calculation

- The required amount of Aggregate
 - = 1.625 Cu.m. x (3/(1+1.5+3))
 - =0.90 Cu.m. required of sand for 1 Cu.m.
- So,
 - So, 10 cu.m. concrete requirement of sand = 0.90 Cu.m x 10 cu.m. = 9.0 cu.m.
 - Two types of aggregate like 20 mm & 10 mm size. this ratio 60 % of total aggregate 20mm size, 40 % of total aggregate 20mm size
 - 20 mm aggregate = 9.0 cu.m. x 60% = 5.4 cu.m. 20 mm size aggregate
 - 10 mm aggregate = 9.0 cu.m. x 40% = 3.6 cu.m. 20 mm size aggregate

Reinforcement calculation

- Assume of reinforcement 2% of the total volume of concrete.
- so,
 - 1 cu.m. concrete for reinforcement = 1.0 x 2% = 0.02 ton of steel (this 2% only assume as per exprience)
 - Her, 10 Cu.m concrete requirement = 0.02 ton x 10 co.m. =0.20 ton = 200 kg for 10 cu.m.

Also, read: What is Bitumen And Bitumens Types

Labour for Rate Analysis of Concrete

As per calculation of rate analysis in labor consumption per Cu.m. requirement as per our experience or <u>CPWD</u> book, this book public by **Central Public Works Department**, **Government of India** for easy calculation of the rate analysis, etc.

As **CPWD** Mate per cu.m. 0.27 of day bhisti, per cu.m.0.6-day coolie, per cu.m. 0.05-day Mason -2nd, per cu.m. 0.05-day mason 1st, per cu.m. 0.04-day mate

Extra Work Calculation in Rate Analysis of concrete

Extra Changes in rate analysis as per below

Scaffolding 1% Extra

Transportation Cost 1%

Other Charges 2 % Extra (Electrical, and site extra expense)

Add for Water Charge @ 1% on Items Marked

Add for Contractor's Profit @15% on Items Marked

Rate Analysis of Plastering Calculator | What is Rate analysis of Plaster | How to Use Calculator

	Plaster Rate Analysis	Calculator	6		
	Requirement data				
	Rate Analysis Ares	100	Sq.m		
	Plaster Thickness	12	mm	-	
	Plaster work cement and sand ratio	1	8		
Sr No.	Description	Qty	Unit	Rate	Cost
Α	Labour Charges				
1	Mason	8.10	Day	700.00	5670.00
2	Bhisti	2.70	Day	400.00	1080.00
3	Coolie	8.10	Day	400.00	3240.00
в	Material		2 24		
1	Cement	5.10	Bag	320.00	1632.00
2	Sand	1.40	Cu.m.	1320.00	1848.00
3	Wastage	2%			36.96
С	Scaffolding 1% Extra	1%	-		34.80
D	Other Charges 2 % Extra	2%			69.60
E	Add for Water Charge @ 1% on Items Marked	1%			34.80
F	Add for Contractor's Profit @15% on Items	15%			522.00

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- How to Use Rate Analysis of Plaster Work Calculator?
 - o Step 1. Select Area
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 - o Step 3. Plaster Ratio
 - Step 4. Fill Labour Charges
 - Step 5. Fill Material Rate as Per Actual
 - Step 6. Additional Cost in Rate Analysis
 - Step 7. Rate of Plaster as Per the Required Area
 - Step 8. Print Button for Print Out
- Material Calcultion of Plaster Work
 - o Material Calculation for Rate Analysis of Plaster
 - Cement calculation
 - Sand calculation
 - o Labour for Rate Analysis of Plaster
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What is Rate Analysis?

The basis of arriving at a correct and reasonable rate per unit. Work or Supply for a particular item following its specification and **detail survey** of **materials, labour, equipment,** etc. as required for the unit work and their prevailing rates may be called as an analysis of rate.

How to Use Rate Analysis of Plaster Work Calculator?

This calculator is used for rate analysis of plaster work. Here we will see Step by step how this calculator works.

Step – 1. Select Area

First Enter your Rate analysis area in Sq.m as per shown in the below picture.

Plaster Ra	te Analysis Calculator	2	
Requirement data			
Rate Analysis Ares	100	Sq.m	

Step – 2. Plaster Thickness

Enter your Plaster Thickness in mm as per shown in the below picture.

Plaster Rate Analysis Calculator				
Requirement data		-		
Rate Analysis Ares	100	Sq.m		
Plaster Thickness	12	mm		
Plaster work cement and sand ratio	1	8		

Step – 3. Plaster Ratio

Enter your Plaster work cement and sand ratio as per shown in the below picture.(cement and sand ratio in different cells)

Plaster Rate Analysis Calculator			
Requirement data			
Rate Analysis Ares	100	Sq.m	
Plaster Thickness	12	mm	
Plaster work cement and sand ratio	1	8	

Step – 4. Fill Labour Charges

Enter your Labour Charges Rate like Mason charges, Bhisti charges, and Coolie Charges as per shown in the below picture.(Mason, Bhisti, and Coolie Charges in different cells)

Sr No.	Description	Qty	Unit	Rate	Cost
А	Labour Charges				
1	Mason	8.10	Day	700.00	5670.00
2	Bhisti	2.70	Day	400.00	1080.00
3	Coolie	8.10	Day	400.00	3240.00

Step – 5. Fill Material Rate as Per Actual

Enter your Material Rate like Cement and Sand as per shown in the below picture.(Enter Cement and Sand Both are in different cells)

Sr No.	Description	Qty	Unit	Rate	Cost
Α	Labour Charges				
1	Mason	8.10	Day	700.00	5670.00
2	Bhisti	2.70	Day	400.00	1080.00
3	Coolie	8.10	Day	400.00	3240.00
в	Material				
1	Cement	5.10	Bag	320.00	1632.00
2	Sand	1.40	Cu.m.	1320.0	1848.00
3	Wastage	2%			36.96
с	Scaffolding 1% Extra	1%			34.80
D	Other Charges 2 % Extra	2%			69.60
E	Add for Water Charge @ 1% on Items Marked	1%			34.80
F	Add for Contractor's Profit @15% on Items Marked	15%			522.00
	Cost of 100 sq.m.				
			Round	off Sq.m.	14169.00

Step – 6. Additional Cost in Rate Analysis

Check your Further details like Wastage percentage, Scaffolding percentage, other extra charges, water charges and contractor profit percentage. if any are changed as per your requirement than change in cells that are shown in below cells.

Sr No.	Description	Qty	Unit	Rate	Cost
Α	Labour Charges				
1	Mason	8.10	Day	700.00	5670.00
2	Bhisti	2.70	Day	400.00	1080.00
3	Coolie	8.10	Day	400.00	3240.00
В	Material				
1	Cement	5.10	Bag	320.00	1632.00
2	Sand	1 40	Cu.m.	1320.0	1848.00
3	Wastage	2%			36.96
С	Scaffolding 1% Extra	1%			34.80
D	Other Charges 2 % Extra	2%			69.60
E	Add for Water Charge @ 1% on Items Marked	1%			34.80
F	Add for Contractor's Profit @15% on Items Marked	15%			522.00
			Cost of 1	00 sq.m.	14168.16
			Round	off Sq.m.	14169.00

Step – 7. Rate of Plaster as Per the Required Area

After Completing above 6 steps final answer given last two cells that's are Cost of 100 Sq.m. that are shown in below picture. (round off figure also mention)

Sr No.	Description	Qty	Unit	Rate	Cost
Α	Labour Charges				
1	Mason	8.10	Day	700.00	5670.00
2	Bhisti	2.70	Day	400.00	1080.00
3	Coolie	8.10	Day	400.00	3240.00
В	Material				
1	Cement	5.10	Bag	320.00	1632.00
2	Sand	1.40	Cu.m.	1320.0	1848.00
3	Wastage	2%			36.96
с	Scaffolding 1% Extra	1%			34.80
D	Other Charges 2 % Extra	2%			69.60
E	Add for Water Charge @ 1% on Items Marked	1%			34.80
F	Add for Contractor's Profit @15% on Items Marked	15%			522.00
			Cost of 1	00 sq.m.	14168.16
			Round	off Sq.m.	14169.00

Step – 8. Print Button for Print Out

if you required print your plastering work calculation you can use print button option.





Material Calcultion of Plaster Work

In this **Rate Analysis of Plaster** calculator calculates material, labor, wastage, and other charges in rate analysis.

Material Calculation for Rate Analysis of Plaster

Material calculation in Rate Analysis like Cement and sand

Cement calculation

Dry Cement mortar volume = 1.33 convert Wet cement. (The Plaster mortar dry volume of plaster decrease volume of dry cement mortar, so 1.33 time of dry mortar)

Wastage of cement mortar 33% (1.33) extra

So, Cement calculation requirement of cement = 1 * 1.33 = 1.33 cu.m,

Multiplay plaster thickmess = 1.33 * 0.012 (thick Plaster)

= 0.01596 Cu.m

Herer calculation mortar ratio 1:8

The required amount of Cement quantity at mortar = 0.01596 Cu.m. * (1/(1+8))

= 0.01596 * 0.1111

= 0.001772 cu.m. cement requirement

Cement in k.g. = volume * density cement

Cement in k.g. = 0.001772 cu.m. * 1440 (**1440 kg/m Density of cement for 50 k.g**)

= 0.001772 * 1440 = 2.552 kg of cement of bag requied ment of cement in k.g.

= 2.552 / 50 (one cemnent bag weight 50 k.g. only) = 0.051033 bag

So, 100 sq.m. mortar requirement of cement = 0.051033 bag x 100 sq.m. = **5.10 bag**

Sand calculation

Required amount of Sand = 0.01596 Cu.m. * (8/(1+8))

= 0.0142 Cu.m. requierd of sand for 1 Cu.m.

So,

So, 100 sq.m. mortar requirement of sand = 0.0142 Cu.m. * 100 sq.m. = 1.42 cu.m.

Also, read: Mortar Vs Grout | What Is Motor and Grout | Type of Motor and Grout | Difference Between Mortar and Grout

Labour for Rate Analysis of Plaster

As per calculation of rate analysis in labor consumption per Cu.m. requirement as per our experience or **CPWD** book, this book public by **Central Public Works Department**, **Government of India** for easy calculation of the rate analysis, etc.

As **CPWD** Mate per cu.m. 0.81 of day bhisti, per cu.m.0.27-day coolie, per cu.m. 0.81-day belder, per cu.m. 0.81-day mason, per cu.m. 0.81-day helper, per cu.m. 0.81-day mate for water curing

Extra Work Calculation in Rate Analysis of plaster

Extra Changes in rate analysis as per below

Scaffolding 1% Extra

Transportation Cost 1%

Other Charges 2 % Extra (Electrical, and site extra expense)

Add for Water Charge @ 1% on Items Marked

Add for Contractor's Profit @15% on Items Marked.