

**UP-GRADATION OF GOVT ITI CHANDHANATHOPPE ON PARWITH
INTERNATIONAL STANDARDS PHASE-1 REV.3**

LMR Data Analysis with DAR 2016-KLM(Kollam) 01/01/2021 - 31/03/2021

MAIN BUILDING CIVIL WORKS

1. Specification Code: 2.6.1

2.6.1	Earth work in excavation by mechanical means (Hydraulic excavator)/manual means over areas (exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on plan) including disposal of excavated earth, lead up to 50 m and lift up to 1.5 m, disposed earth to be levelled and neatly dressed.All kinds of soil
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Code	Description	Unit	Quantity	Rate	Amount
0020	Hydraulic Excavator (3D) with driver and fuel	Day	0.04100	7986.00	327.43
0018	Hire and running charges of loader LABOUR:	Day	0.04100	6736.00	276.18
0128	Mate Beldar/	Day	0.32000	850.00	272.00
0115	Coolie	Day	1.20000	800.00	960.00
	TOTAL				1835.6
	Add Water Charge @ 1.0%				18.36
	TOTAL				1853.96
	Add CPOH @ 15.0%				278.09
	cost for 10.0 cum				2132.05
	cost for one cum				213.21
	say				213.2

2. Specification Code: 2.25

2.25	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundation etc. in layers not exceeding 20 cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift up to 1.5 m.
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Code	Description	Unit	Quantity	Rate	Amount
0128	Mate	Day	0.20000	850.00	170.00
0115	Coolie	Day	2.50000	800.00	2000.00
0101	Bhisti	Day	0.20000	800.00	160.00

	TOTAL				2330.0
	Add Water Charge @ 1.0%				23.3
	TOTAL				2353.3
	Add CPOH @ 15.0%				353.0
	cost for 10.0 cum				2706.30
	cost for one cum				270.63
	say				270.65

3. Specification Code: 4.1.4

4.1.4	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level:1:2:4) 1 cement : 2 coarse sand : 4 graded stone aggregate 40 mm nominal size)
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Code	Description	Unit	Quantity	Rate	Amount
0293	Stone Aggregate(single size): 40 mm nominal size nominal size\$0.56- (7.5% for voids i.e.) 0.04 = 0.52 cum	cum	0.52000	2500.00	1300.00
0295	Stone Aggregate(single size):20 mm nominal size nominal size	cum	0.22000	2500.00	550.00
0297	Stone Aggregate(single size): 10 mm nominal size nominal size	cum	0.11000	2790.00	306.90
2206	Stone aggregate 40 mm nominal size and above	cum	0.52000	0.00	.00
2202	Stone aggregate below 40 mm nominal size	cum	0.33000	0.00	.00
0982	Coarse sand (zone III)	cum	0.44500	1892.00	841.94
2203	Coarse sand	cum	0.44500	0.00	.00
0367	Portland Cement (0.2225 cum)	tonne	0.32000	7392.00	2365.44
2209	Cement LABOUR:	tonne	0.32000	0.00	.00
0155	Mason (average)	Day	0.10000	950.00	95.00
0114	Beldar	Day	1.63000	900.00	1467.00
0101	Bhisti	Day	0.70000	800.00	560.00
0002	Hire charges of Concrete Mixer 0.25 to 0.40 cum with Hopper	Day	0.07000	2112.00	147.84

0012	Vibrator (Needle type 40 mm)	Day	0.07000	440.00	30.80
9999	Sundries	L.S	13.52000	3.00	40.56
	TOTAL				7705.48
	Add Water Charge @ 1.0%				77.05
	TOTAL				7782.53
	Add CPOH @ 15.0%				1167.38
	cost for one cum				8949.92
	say				8949.9

4. Specification Code: 4.1.8

4.1.8	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level:1:4:8 (1 cement : 4 coarse sand : 8 graded stone aggregate 40 nominal size)
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Code	Description	Unit	Quantity	Rate	Amount
0293	Stone Aggregate(single size): 40 mm nominal size nominal size\$(0.70 cum -7.5% for voids i.e. 0.05 =0.65 cum)	cum	0.65000	2500.00	1625.00
0295	Stone Aggregate(single size):20 mm nominal size nominal size	cum	0.24000	2500.00	600.00
2206	Stone aggregate 40 mm nominal size and above	cum	0.65000	0.00	.00
2202	Stone aggregate below 40 mm nominal size	cum	0.24000	0.00	.00
0982	Coarse sand (zone III)	cum	0.47000	1892.00	889.24
2203	Coarse sand	cum	0.47000	0.00	.00
0367	Portland Cement	tonne	0.17000	7392.00	1256.64
2209	Cement LABOUR:	tonne	0.17000	0.00	.00
0155	Mason (average)	Day	0.10000	950.00	95.00
0114	Beldar	Day	1.63000	900.00	1467.00
0101	Bhisti	Day	0.70000	800.00	560.00
0002	Hire charges of Concrete Mixer 0.25 to 0.40 cum with Hopper	Day	0.07000	2112.00	147.84
0012	Vibrator (Needle type 40 mm)	Day	0.07000	440.00	30.80

9999	Sundries	L.S	13.52000	3.00	40.56
	TOTAL				6712.08
	Add Water Charge @ 1.0%				67.12
	TOTAL				6779.2
	Add CPOH @ 15.0%				1016.88
	cost for one cum				7796.08
	say				7796.1

5. Specification Code: 4.3.1

4.3.1	Centering and shuttering including strutting, propping etc. and removal of form work for:Foundations, footings, bases for columns
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Code	Description	Unit	Quantity	Rate	Amount
7319	wall form panel 1250x500 mm Qty taken for cost of using once = $16 \times 0.85 / 40 = 0.34$	each	0.34000	1188.00	403.92
7326	Corner angle 45x45x5 mm 1.50 m long Qty taken for cost of using once = $4 \times 0.85 / 40 = 0.085$	each	0.08500	295.00	25.08
7327	100 mm channel shoulder 2.5 m long Qty taken for cost of using once = $8 \times 0.85 / 40 = 0.17$	each	0.17000	1140.00	193.80
7328	Double clip (bridge clip) Qty taken for cost of using once = $16 \times 0.85 / 40 = 0.34$	each	0.34000	95.00	32.30
7329	Single clip Qty taken for cost of using once = $8 \times 0.85 / 40 = 0.17$	each	0.17000	76.00	12.92
7330	M.S. Tube 40 mm dia M.S. tube 40 mm dia $4 \times 2.7 \text{ m} = 10.8 \text{ m}$ qty taken for cost of using once = $10.8 \times 0.85 / 40 = 0.2295$	metre	0.22950	275.00	63.11
9999	Sundries Assembly nuts & bolts	L.S	22.10000	3.00	66.30
9977	Carriage LABOUR	L.S	78.00000	3.00	234.00
0116	Fitter(grade1)	Day	0.75000	950.00	712.50
0114	Beldar	Day	1.50000	900.00	1350.00

9999	Sundries Shuttering oil	L.S	52.00000	3.00	156.00
9999	Sundries	L.S	26.00000	3.00	78.00
	TOTAL				3327.93
	Add Water Charge @ 1.0%				33.28
	TOTAL				3361.21
	Add CPOH @ 15.0%				504.18
	cost for 10.8 sqm				3865.39
	cost for one sqm				357.91
	say				357.9

6. Specification Code: 50.4.1.1

50.4.1.1	Providing and laying in position cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 12.5 mm nominal size) up to floor five level excluding the cost of centering, shuttering, finishing for leveling coarse of floor and roof etc.
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Code	Description	Unit	Quantity	Rate	Amount
0296	Stone Aggregate(single size): 12.5 mm nominal size	cum	0.67000	2790.00	1869.30
0297	Stone Aggregate(single size): 10 mm nominal size	cum	0.22000	2790.00	613.80
2202	Stone aggregate below 40 mm nominal size	cum	0.89000	0.00	.00
0982	Coarse sand (zone III)	cum	0.44500	1892.00	841.94
2203	Coarse sand	cum	0.44500	0.00	.00
0367	Portland Cement	tonne	0.32000	7392.00	2365.44
2209	Cement	tonne	0.32000	0.00	.00
0155	Mason (average)	Day	0.10000	950.00	95.00
0114	Beldar	Day	1.63000	900.00	1467.00
0101	Bhisti	Day	0.70000	800.00	560.00
0002	Hire charges of Concrete Mixer 0.25 to 0.40 cum with Hopper	Day	0.07000	2112.00	147.84
9999	Sundries	L.S	14.30000	3.00	42.90
	TOTAL				8003.22
	Add Water Charge @ 1.0%				80.03

	TOTAL				8083.25
	Add CPOH @ 15.0%				1212.49
	cost for one cum				9295.74
	say				9295.75

7. Specification Code: 5.33.1

5.33.1	Providing and laying in position machine batched and machine mixed design mix M-25 grade cement concrete for reinforced cement concrete work, using cement content as per approved design mix, including pumping of concrete to site of laying but excluding the cost of centering, shuttering, finishing and reinforcement, including admixtures in recommended proportions as per IS: 9103 to accelerate, retard setting of concrete, improve workability without impairing strength and durability as per direction of Engineer - in-charge. Note:- Cement content considered in this item is @ 330 kg/ cum. Excess or less cement used as per design mix is payable or recoverable separately.All work upto plinth level
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Code	Description	Unit	Quantity	Rate	Amount
0295	Stone Aggregate(single size):20 mm nominal size	cum	0.57000	2500.00	1425.00
0297	Stone Aggregate(single size): 10 mm nominal size	cum	0.28000	2790.00	781.20
2202	Stone aggregate below 40 mm nominal size	cum	0.85000	0.00	.00
0982	Coarse sand (zone III)	cum	0.42500	1892.00	804.10
2203	Coarse sand	cum	0.42500	0.00	.00
0367	Portland Cement	tonne	0.33000	7392.00	2439.36
2209	Cement	tonne	0.33000	0.00	.00
7318	Plasticizer / super plasticizer 0.50% of cement \$Production cost, pumping to respective floors and laying in position	kilogram	1.65000	54.00	89.10
0004	Production cost of concrete by batch mix plant	cum	1.00000	528.00	528.00
0009	Pumping charges of concrete including Hire charges of pump, piping work & accessories etc. LABOUR:\$	cum	1.00000	239.00	239.00
0155	Mason (average) Labour for pouring, consolidating &curing	Day	0.17000	950.00	161.50
0114	Beldar	Day	2.00000	900.00	1800.00
0101	Bhisti	Day	0.90000	800.00	720.00
0012	Vibrator (Needle type 40 mm)	Day	0.07000	440.00	30.80

9999	Sundries	L.S	13.00000	3.00	39.00
	TOTAL				9057.06
	Add Water Charge @ 1.0%				90.57
	TOTAL				9147.63
	Add CPOH @ 15.0%				1372.14
	cost for one cum				10519.78
	say				10519.8

8. Specification Code: 5.33.2

5.33.2	Providing and laying in position machine batched and machine mixed design mix M-25 grade cement concrete for reinforced cement concrete work, using cement content as per approved design mix, including pumping of concrete to site of laying but excluding the cost of centering, shuttering, finishing and reinforcement, including admixtures in recommended proportions as per IS: 9103 to accelerate, retard setting of concrete, improve workability without impairing strength and durability as per direction of Engineer - in-charge. Note:- Cement content considered in this item is @ 330 kg/ cum. Excess or less cement used as per design mix is payable or recoverable separately.All work above plinth level upto floor V level
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Code	Description	Unit	Quantity	Rate	Amount
0295	Stone Aggregate(single size):20 mm nominal size	cum	0.57000	2500.00	1425.00
0297	Stone Aggregate(single size): 10 mm nominal size	cum	0.28000	2790.00	781.20
2202	Stone aggregate below 40 mm nominal size	cum	0.85000	0.00	.00
0982	Coarse sand (zone III)	cum	0.42500	1892.00	804.10
2203	Coarse sand	cum	0.42500	0.00	.00
0367	Portland Cement	tonne	0.33000	7392.00	2439.36
2209	Cement	tonne	0.33000	0.00	.00
7318	Plasticizer / super plasticizer 0.50% of cement \$Production cost, pumping to respective floors and laying in position	kilogram	1.65000	54.00	89.10
0004	Production cost of concrete by batch mix plant	cum	1.00000	528.00	528.00
0009	Pumping charges of concrete including Hire charges of pump, piping work & accessories etc. LABOUR:\$Labour for pouring, consolidation & curing	cum	1.00000	239.00	239.00
0155	Mason (average)	Day	0.17000	950.00	161.50

0114	Beldar	Day	2.00000	900.00	1800.00
0101	Bhisti	Day	0.90000	800.00	720.00
0012	Vibrator (Needle type 40 mm)	Day	0.07000	440.00	30.80
9999	Sundries Extra labour for lifting up to floor five level \$0.75 x 2.5 = 1.88	L.S	13.00000	3.00	39.00
0115	Coolie	Day	1.88000	800.00	1504.00
					10561.06
					105.61
					10666.67
					1600.0
					12266.67
					12266.65

9. Specification Code: 5.9.1

5.9.1	Centering and shuttering including strutting, etc. and removal of form for: Foundations, footings, bases of columns, etc for mass concrete
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Code	Description	Unit	Quantity	Rate	Amount
7319	wall form panel 1250x500 mm Qty taken for cost of using once = $16 \times 0.85 / 40 = 0.34$	each	0.34000	1188.00	403.92
7326	Corner angle 45x45x5 mm 1.50 m long Qty taken for cost of using once = $4 \times 0.85 / 40 = 0.085$	each	0.08500	295.00	25.08
7327	100 mm channel shoulder 2.5 m long Qty taken for cost of using once = $8 \times 0.85 / 40 = 0.17$	each	0.17000	1140.00	193.80
7328	Double clip (bridge clip) Qty taken for cost of using once = $16 \times 0.85 / 40 = 0.34$	each	0.34000	95.00	32.30
7329	Single clip Qty taken for cost of using once = $8 \times 0.85 / 40 = 0.17$	each	0.17000	76.00	12.92
7330	M.S. Tube 40 mm dia Qty taken for cost of using once = $10.8 \times 0.85 / 40 = 0.2295$	metre	0.22950	275.00	63.11

9999	Sundries Assembly nuts 7 bolts Qty taken for cost of using once = $1040 \times 0.85 / 40 = 22.10$	L.S	22.10000	3.00	66.30
9977	Carriage LABOUR	L.S	78.00000	3.00	234.00
0116	Fitter(grade1)	Day	0.75000	950.00	712.50
0114	Beldar	Day	1.50000	900.00	1350.00
9999	Sundries Suttering oil	L.S	52.00000	3.00	156.00
9999	Sundries	L.S	26.00000	3.00	78.00
	TOTAL				3327.93
	Add Water Charge @ 1.0%				33.28
	TOTAL				3361.21
	Add CPOH @ 15.0%				504.18
	cost for 10.8 sqm				3865.39
	cost for one sqm				357.91
	say				357.9

Other Engineering Organisations

PRICE

10. Specification Code: 5.9.2

5.9.2	Centering and shuttering including strutting, etc. and removal of form for: Walls (any thickness) including attached pilasters, buttersesses, plinth and string courses etc.
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Code	Description	Unit	Quantity	Rate	Amount
7319	wall form panel 1250x500 mm $2 \times 3 \times 2 \times 2 = 24$ Nos. Qty taken for cost of using once = $24 \times 0.85 / 40 = 0.51$	each	0.51000	1188.00	605.88
7327	100 mm channel shoulder 2.5 m long $4 \times 2 = 8$ Qty taken for cost of using once = $8 \times 0.85 / 40 = 0.17$	each	0.17000	1140.00	193.80
7328	Double clip (bridge clip) $2 \times 6 \times 2 = 24$ Qty taken for cost of using once = $24 \times 0.85 / 40 = 0.51$	each	0.51000	95.00	48.45

7329	Single clip 2x3x2 = 12 Qty taken for cost of using once = $12 \times 0.85/40 = 0.255$	each	0.25500	76.00	19.38
7330	M.S. Tube 40 mm dia 2x2x8m = 32m Qty taken for cost of using once = $32 \times 0.85/40 = 0.68$	metre	0.68000	275.00	187.00
9999	Sundries Qty taken for cost of using once = $1300 \times 0.85/40 = 27.62$	L.S	27.62000	3.00	82.86
9977	Carriage LABOUR	L.S	78.00000	3.00	234.00
0116	Fitter(grade1)	Day	3.50000	950.00	3325.00
0114	Beldar	Day	6.00000	900.00	5400.00
9999	Sundries shuttering oil	L.S	78.00000	3.00	234.00
9999	Sundries	L.S	52.00000	3.00	156.00
	TOTAL				10486.37
	Add Water Charge @ 1.0%				104.86
	TOTAL				10591.23
	Add CPOH @ 15.0%				1588.69
	cost for 15.8 sqm				12179.92
	cost for one sqm				770.88
	say				770.9

11. Specification Code: 5.9.6

5.9.6	Centering and shuttering including strutting, etc. and removal of form for:Columns, Pillars, Piers, Abutments, Posts and Struts
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Code	Description	Unit	Quantity	Rate	Amount
7331	Wall form panel 1250x450xmm Qty taken for cost of using once = $8 \times 0.85/40 = 0.17$	each	0.17000	1022.00	173.74
7332	Corner angle 45x45x5 mm 2.50 long Qty taken for cost of using once = $4 \times 0.85/40 = 0.085$	each	0.08500	334.00	28.39

7333	Column clamp 450x1070 mm Qty taken for cost of using once = $5 \times 0.85 / 40 = 0.1063$	each	0.10630	1199.00	127.45
7334	Prop 2 m (2-3.5m) Qty taken for cost of using once = $4 \times 0.85 / 40 = 0.085$	each	0.08500	816.00	69.36
9999	Sundries Qty taken for cost of using once = $1300 \times 0.85 / 40 = 27.62$	L.S	27.62000	3.00	82.86
9977	Carriage LABOUR	L.S	52.00000	3.00	156.00
0116	Fitter(grade1)	Day	1.00000	950.00	950.00
0114	Beldar	Day	2.00000	900.00	1800.00
9999	Sundries Shuttering oil	L.S	39.00000	3.00	117.00
9999	Sundries Carriage	L.S	26.00000	3.00	78.00
	TOTAL				3582.8
	Add Water Charge @ 1.0%				35.83
	TOTAL				3618.63
	Add CPOH @ 15.0%				542.79
	cost for 4.5 sqm				4161.43
	cost for one sqm				924.76
	say				924.75

12. Specification Code: 5.9.5

5.9.5	Centering and shuttering including strutting, etc. and removal of form for: Lintels, beams, plinth beams, girders bressumers and cantilevers
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Code	Description	Unit	Quantity	Rate	Amount
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 approved steel primer all complete.	kilogram	6.43560	76.58	492.84
7343	Adjustable telescopic prop 3 m (2.02-3.75m) Qty taken for using once = $6 \times 0.85 / 40 = 0.1275$ m	each	0.12750	1179.00	150.32

7344	Beam clamp 300-380 mm (450-1070 mm) Qty taken for cost of using once = $5 \times 0.85 / 40 = 0.1063$ m	each set	0.10630	414.00	44.01
9999	Sundries Assembly nut & bolts etc. \$Qty taken for cost of using once = $\$1040 \times 0.85 / 40 = 22.10$	L.S	22.10000	3.00	66.30
9999	Sundries Carriage \$LABOUR:	L.S	78.00000	3.00	234.00
0116	Fitter(grade1)	Day	1.25000	950.00	1187.50
0114	Beldar	Day	2.50000	900.00	2250.00
9999	Sundries Shuttering oil	L.S	39.00000	3.00	117.00
9999	Sundries paper tape etc	L.S	24.61000	3.00	73.83
	TOTAL				4615.77
	Add Water Charge @ 1.0%				46.16
	TOTAL				4661.93
	Add CPOH @ 15.0%				699.29
	cost for 7.8 sqm				5361.22
	cost for one sqm				687.34
	say				687.35

Other Engineering Organisations
PRICE

13. Specification Code: 5.9.7

5.9.7	Centering and shuttering including strutting, etc. and removal of form for: Stairs, (excluding landings) except spiral - staircases)
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Code	Description	Unit	Quantity	Rate	Amount
1198	Second class kail wood in planks (ii) Batten 100mm x 75 mm $4 \times 1.30 \times 0.100 \times 0.075 = 0.039$ cum = 39 cudm \$Qty taken for cost using once = $39 / 8 = 4.875$ cudm	10 cud m	28.87500	35.20	1016.40
1197	Second class kail wood in scantling Second class kail wood in scantling $2 \times 4 \times 0.80 = 6.40$ m \$Qty taken for cost using once = $6.4 / 8 = 0.8$ m\$	10 cud m	4.87500	35.20	171.60

0302	Safeda ballies 125 mm diameter Planks = 0.231 cum.\$Battens = 0.039 cum.\$Bailies 6.4x3.142/4x(0\$125)2 = 0.079 cum.Total = 0.349 cum.\$Qty taken for cost using once = 0.349/8 =0.04363 cum\$	metre	0.80000	53.00	42.40
2204	Timber Carriage of timber\$LABOUR:\$For assembling, erection, dismantling and cleaning	cum	0.04363	0.00	.00
0112	Carpenter 2nd class	Day	1.75000	900.00	1575.00
0114	Beldar	Day	1.00000	900.00	900.00
9999	Sundries	L.S	16.12000	3.00	48.36
	TOTAL				3753.76
	Add Water Charge @ 1.0%				37.54
	TOTAL				3791.3
	Add CPOH @ 15.0%				568.69
	cost for 5.79 sqm				4359.99
	cost for one sqm				753.02
	say				753.0

Other Engineering Organisations

14. Specification Code: 5.9.3

5.9.3	Centering and shuttering including strutting, etc. and removal of form for:Suspended floors, roofs, landings, balconies and access platform
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Code	Description	Unit	Quantity	Rate	Amount
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 approved steel primer all complete.	kilogram	9.20550	76.58	704.96
7342	Adjustable span ESO+SI (2.35-3.40) Qty taken for cost using once = 5x0.85/40 =0.1063	each	0.10630	1867.00	198.46
7343	Adjustable telescopic prop 3 m (2.02-3.75m) Qty taken for cost using once = 6x0.85/40 = 0.1275	each	0.12750	1179.00	150.32
9999	Sundries Assembly nut & bolts etc.\$Qty taken for cost using once = \$1040x0.85/40 = 22.10	L.S	22.10000	3.00	66.30

9999	Sundries Carriage \$LABOUR:\$Fitter (grade 1)	L.S	130.00000	3.00	390.00
0116	Fitter(grade1)	Day	3.00000	950.00	2850.00
0114	Beldar	Day	6.00000	900.00	5400.00
9999	Sundries Shuttering oil	L.S	78.00000	3.00	234.00
9999	Sundries paper tape etc	L.S	49.70000	3.00	149.10
	TOTAL				10143.1
	Add Water Charge @ 1.0%				101.43
	TOTAL				10244.53
	Add CPOH @ 15.0%				1536.68
	cost for 13.5 sqm				11781.21
	cost for one sqm				872.68
	say				872.7

15. Specification Code: 5.34.1

5.34.1	Extra for providing richer mixes at all floor levels. Note:- Excess/less cement over the specified cement content used is payable/ recoverable separately. Providing M-30 grade concrete instead of M-25 grade BMC/RMC. (Note:- Cement content considered in M-30 is @ 340 kg/cum).
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Code	Description	Unit	Quantity	Rate	Amount
0367	Portland Cement	tonne	0.01000	7392.00	73.92
2209	Cement Plasticizer for M-30 mix = 1.70 kg\$Plasticizer for M-25 mix = 1.65 kg\$Difference = 0.05 kg	tonne	0.01000	0.00	.00
7318	Plasticizer / super plasticizer	kilogram	0.05000	54.00	2.70
	TOTAL				76.62
	Add Water Charge @ 1.0%				0.77
	TOTAL				77.39
	Add CPOH @ 15.0%				11.61
	cost for one cum				88.99
	say				89.0

16. Specification Code: 5.22.6

5.22.6	Steel reinforcement for R.C.C work including straightening, cutting, bending, placing in position and binding all complete upto plinth level Thermo - Mechanically Treated bars of grade Fe-500D or more
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Code	Description	Unit	Quantity	Rate	Amount
1005	Twisted steel/deformed bars	quintal	1.05000	6390.00	6709.50
2205	Steel	tonne	0.10500	0.00	.00
9999	Sundries Cover block\$LABOUR:\$For straightening, bending binding and placing in position	L.S	26.00000	3.00	78.00
0102	Blacksmith 1st class	Day	1.00000	950.00	950.00
0114	Beldar	Day	1.00000	900.00	900.00
9999	Sundries	L.S	26.91000	3.00	80.73
	TOTAL				8718.23
	Add Water Charge @ 1.0%				87.18
	TOTAL				8805.41
	Add CPOH @ 15.0%				1320.81
	cost for 100.0 kilogram				10126.22
	cost for one kilogram				101.26
	say				101.25

17. Specification Code: 5.22A.6

5.22A.6	Steel reinforcement for R.C.C work including straightening, cutting, bending, placing in position and binding all complete above plinth level. Thermo - Mechanically Treated bars of grade Fe-500D or more
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Code	Description	Unit	Quantity	Rate	Amount
1005	Twisted steel/deformed bars	quintal	1.05000	6390.00	6709.50
2205	Steel 1.05/10 = 0.105t	tonne	0.10500	0.00	.00
9999	Sundries Cover block\$LABOUR: For straightening, cutting, bending, binding and placing in position\$	L.S	26.00000	3.00	78.00

0102	Blacksmith 1st class	Day	1.00000	950.00	950.00
0114	Beldar	Day	1.00000	900.00	900.00
9999	Sundries	L.S	26.91000	3.00	80.73
	TOTAL				8718.23
	Add Water Charge @ 1.0%				87.18
	TOTAL				8805.41
	Add CPOH @ 15.0%				1320.81
	cost for 100.0 kg				10126.22
	cost for one kg				101.26
	say				101.25

18. Specification Code: 6.47

6.47	Providing and laying autoclaved aerated cement blocks masonry with 150mm/230mm/300 mm thick AAC blocks in super structure above plinth level up to floor Vlevel with RCC band at sill level and lintel level with approved block laying polymermodified adhesive mortar all complete as per direction of Engineer-in-Charge. (Thepayment of RCC band and reinforcement shall be made for seperately).
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Other Engineering Organisations

Code	Description	Unit	Quantity	Rate	Amount
8655	Autoclaved aerated cement (AAC) blocks	cum	1.00000	1990.00	1990.00
0357	Polymer modified adhesive mortar	kilogram	30.00000	19.00	570.00
9999	Sundries LABOUR	L.S	2.73000	3.00	8.19
0123	Mason (brick layer) 1st class	Day	0.36000	1000.00	360.00
0124	Mason (brick layer)2nd class	Day	0.36000	950.00	342.00
0115	Coolie Extra labour element required for lifting of materials (above floor two level upto floorfive level) (0.75x1.50 = 1.13)	Day	1.37000	800.00	1096.00
0115	Coolie	Day	1.13000	800.00	904.00
	TOTAL				5270.19
	Add Water Charge @ 1.0%				52.7
	TOTAL				5322.89
	Add CPOH @ 15.0%				798.43

	cost for one cum				6121.33
	say				6121.35

19. Specification Code: 13.4.2

13.4.2	12 mm cement plaster of mix:1:6 (1 cement : 6 coarse sand)
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Code	Description	Unit	Quantity	Rate	Amount
3.11	Cement mortar 1:6 (1 cement : 6 coarse sand). LABOUR:	cum	0.14400	5487.77	790.24
0155	Mason (average)	Day	0.67000	950.00	636.50
0115	Coolie	Day	0.75000	800.00	600.00
0101	Bhisti	Day	0.92000	800.00	736.00
9999	Sundries Scaffolding and sundries	L.S	12.61000	3.00	37.83
	TOTAL				2800.57
	Add Water Charge @ 1.0%				28.01
	TOTAL				2828.58
	Add CPOH @ 15.0%				424.29
	cost for 10.0 sqm				3252.86
	cost for one sqm				325.29
	say				325.3

20. Specification Code: 13.4.1

13.4.1	12 mm cement plaster of mix:1:4 (1 cement : 4 coarse sand)
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Code	Description	Unit	Quantity	Rate	Amount
3.9	Cement mortar 1.4 (1 cement : 4 coarse sand). LABOUR:	cum	0.14400	6603.93	950.97
0155	Mason (average)	Day	0.67000	950.00	636.50
0115	Coolie	Day	0.75000	800.00	600.00
0101	Bhisti	Day	0.92000	800.00	736.00

9999	Sundries Scaffolding and	L.S	12.61000	3.00	37.83
	TOTAL				2961.3
	Add Water Charge @ 1.0%				29.61
	TOTAL				2990.91
	Add CPOH @ 15.0%				448.64
	cost for 10.0 sqm				3439.55
	cost for one sqm				343.96
	say				343.95

21. Specification Code: 13.16.1

13.16.1	6 mm cement plaster of mix:1:3 (1 cement : 3 fine sand)
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Code	Description	Unit	Quantity	Rate	Amount
3.3	Cement mortar 1:3 (1 cement : 3 fine sand) LABOUR:	cum	0.07200	7643.03	550.30
0155	Mason (average)	Day	0.51000	950.00	484.50
0115	Coolie	Day	0.75000	800.00	600.00
0101	Bhisti	Day	0.92000	800.00	736.00
9999	Sundries Extra for removing burrs, cleaning with wire brushes, pock making with pointed tool etc.	L.S	13.39000	3.00	40.17
9999	Sundries Scaffolding and sundries.	L.S	11.70000	3.00	35.10
	TOTAL				2446.07
	Add Water Charge @ 1.0%				24.46
	TOTAL				2470.53
	Add CPOH @ 15.0%				370.58
	cost for 10.0 sqm				2841.11
	cost for one sqm				284.11
	say				284.1

22. Specification Code: 22.5

22.5	Providing and laying water proofing treatment in sunken portion of WCs, bathroom etc., by applying cement slurry mixed with water proofing cement compound consisting of applying : a) First layer of slurry of cement @ 0.488 kg/sqm mixed with water proofing cement compound @ 0.253 kg/sqm. This layer will be allowed to air cure for 4 hours. b) Second layer of slurry of cement @ 0.242 kg /sqm mixed with water proofing cement compound @ 0.126 kg/ sqm. This layer will be allowed to air cure for 4 hours followed with water curing for 48 hours. The rate includes preparation of surface, treatment and sealing of all joints, corners, junctions of pipes and masonry with polymer mixed slurry.
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Code	Description	Unit	Quantity	Rate	Amount
0367	Portland Cement	tonne	0.01200	7392.00	88.70
2209	Cement Bonding material 1.6 kg x30x2 = 96 kg\$Bitumen (blown/residual type)\$10x(0.25+0.126) = 3.79kg\$Sealing fillets 10x 0.10 kg/ sqm = 1.00 kg\$Wastage @ 5% on 4.79 kg = 0.24 kg\$Total = 5.03 kg Say 5.00 kg	tonne	0.01200	0.00	.00
8501	Polymer modified cementation coating LABOUR:	kilogram	5.00000	187.00	935.00
0155	Mason (average)	Day	2.00000	950.00	1900.00
0114	Beldar	Day	2.00000	900.00	1800.00
0101	Bhisti	Day	0.25000	800.00	200.00
9999	Sundries brushes etc.	L.S	15.60000	3.00	46.80
	TOTAL				4970.5
	Add Water Charge @ 1.0%				49.71
	TOTAL				5020.21
	Add CPOH @ 15.0%				753.03
	cost for 10.0 sqm				5773.24
	cost for one sqm				577.32
	say				577.3

23. Specification Code: 11.41.2

11.41.2	Providing and laying vitrified floor tiles in different sizes (thickness to be specified by the manufacturer) with water absorption less than 0.08% and conforming to IS : 15622, of approved make, in all colours and
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	shades, laid on 20 mm thick cement mortar 1:4(1 cement : 4 coarse sand), including grouting the joints with white cement and matching pigments etc., complete.Size of Tile 600 x 600 mm.
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Code	Description	Unit	Quantity	Rate	Amount
8621	Vitrified floor tile 60x60 cm	sqm	1.02500	865.00	886.62
9977	Carriage of tiles 20 mm thick cement mortar 1:4 (1 cement : 4 coarse sand)	L.S	6.24000	3.00	18.72
3.9	Cement mortar 1.4 (1 cement : 4 coarse sand). 20 mm thick cement mortar 1:4(1 cement: coarse sand)	cum	0.02400	6603.93	158.49
9999	Sundries Mortar for pointing in white cement Cement for slurry over bed @ 3.3 kg per sqm	L.S	3.64000	3.00	10.92
0367	Portland Cement LABOUR:	tonne	0.00330	7392.00	24.39
0123	Mason (brick layer) 1st class	Day	0.20000	1000.00	200.00
0115	Coolie	Day	0.20000	800.00	160.00
9988	Carriage and sundries of cement etc	L.S	26.91000	3.00	80.73
	TOTAL				1539.88
	Add Water Charge @ 1.0%				15.4
	TOTAL				1555.28
	Add CPOH @ 15.0%				233.29
	cost for one sqm				1788.57
	say				1788.55

24. Specification Code: 11.36

11.36	Providing and fixing 1st quality ceramic glazed wall tiles conforming to IS : 15622 (thickness to be specified by the manufacturer), of approved make, in all colours, shades except burgundy, bottle green, black of any size as approved by Engineer -in-Charge, in skirting, risers of steps and dados, over 12 mm thick bed of cement mortar 1:3 (1 cement : 3 coarse sand) and jointing with grey cement slurry @ 3.3 kg per sqm, including pointing in white cement mixed with pigment of matching shade complete.
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Code	Description	Unit	Quantity	Rate	Amount
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7800	Ceramic Glazed Tiles 1st quality minimum thickness 5 mm in all colours shades and designs except burgundy, bottle green black	sqm	1.02500	295.00	302.38
9977	Carriage of tiles 12 mm thick cement mortar 1:3 (1 cement : 3 coarse sand)	L.S	6.24000	3.00	18.72
3.8	Cement mortar 1:3 (1 cement : 3 coarse sand).	cum	0.01400	7720.08	108.08
9999	Sundries Mortar for pointing in white cement Cement for slurry over bed @ 3.3 kg per sqm	L.S	40.43000	3.00	121.29
0367	Portland Cement LABOUR:	tonne	0.00330	7392.00	24.39
0123	Mason (brick layer) 1st class	Day	0.25000	1000.00	250.00
0115	Coolie	Day	0.25000	800.00	200.00
9988	Carriage and sundries of cement etc.	L.S	26.91000	3.00	80.73
	TOTAL				1105.59
	Add Water Charge @ 1.0%				11.06
	TOTAL				1116.65
	Add CPOH @ 15.0%				167.5
	cost for one sqm				1284.14
	say				1284.15

25. Specification Code: 11.38

11.38	Providing and laying Ceramic glazed floor tiles of size 300x300 mm (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 bed of cement mortar 1:4 (1 cement : 4 Coarse sand), including pointing the joints with white cement and matching pigments etc., complete.
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Code	Description	Unit	Quantity	Rate	Amount
7802	Ceramic Glazed Tiles 1st quality 300 x 300 mm in all shades designs except White, Ivory, Fume Red Brown etc.	sqm	1.02500	369.00	378.22

9977	Carriage of tiles 20 mm thick cement mortar 1:4 (1 cement : 4 coarse sand)	L.S	6.24000	3.00	18.72
3.9	Cement mortar 1.4 (1 cement : 4 coarse sand).	cum	0.02400	6603.93	158.49
9999	Sundries Mortar for pointing in white cement Cement for slurry over bed @ 3.3 kg per sqm	L.S	20.20000	3.00	60.60
0367	Portland Cement	tonne	0.00330	7392.00	24.39
0123	Mason (brick layer) 1st class	Day	0.20000	1000.00	200.00
0115	Coolie	Day	0.20000	800.00	160.00
9988	Carriage and sundries including carriage of cement etc.	L.S	26.91000	3.00	80.73
	TOTAL				1081.16
	Add Water Charge @ 1.0%				10.81
	TOTAL				1091.97
	Add CPOH @ 15.0%				163.8
	cost for one sqm				1255.77
	say				1255.75

Other Engineering Organisations

PRICE

26. Specification Code: od219580/2019_2020

od219580/2019_2020 :Supply and install externally 1st quality 600x300x8mm ceramic tile walls cladding of cement ash or similar different colours, tile shall be laid and fixed to pre plastered walls in patterns, style and forms of grouting and jointing as directed by engineer using approved tile adhesive materials and pointed with approved tile joint filler matching the colour of tiles.

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 1 sqm				
MR	Supply of ceramic tile cladding	sqm	1.02500	492.41	504.72
8731	High polymer modified quickset tile adhesive	kg	10.00000	17.0	170.00
1246	Silicon based Joint Sealeant for Tiles	kg	0.05140	201.0	10.33
0123	Mason (brick layer) 1st class	Day	0.25000	1000.0	250.00
0115	Coolie	Day	0.25000	800.0	200.00
9988	Carriage and sundries	L.S	26.91000	3.0	80.73

	TOTAL				1215.78
	Add Water Charges @ 1%				12.16
	Add CPOH @ 15.0%				184.19
	cost for one sqm				1412.13
	say				1412.13
	Say				1412.13

27. Specification Code: od219670/2019_2020

od219670/2019_2020 :Supply and install externally 1st quality 600x300x8mm brick pattern design colour ceramic tile wall cladding, tile shall be laid and fixed to pre- plastered walls in patterns, style and forms of grouting and jointing as directed by engineer using approved tile adhesive materials and pointed with approved tile joint filler matching the colour of tiles.

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 1 sqm				
MR	brick pattern Ceramic tile cladding	sqm	1.02500	501.53	514.07
8731	High polymer modified quickset tile adhesive	kg	10.00000	17.0	170.00
1246	Silicon based Joint Sealeant for Tiles	kg	0.05140	201.0	10.33
0123	Mason (brick layer) 1st class	Day	0.25000	1000.0	250.00
0115	Coolie	Day	0.25000	800.0	200.00
9988	Carriage and sundries	L.S	26.91000	3.0	80.73
	TOTAL				1225.13
	Add Water Charges @ 1%				12.25
	Add CPOH @ 15.0%				185.61
	cost for one sqm				1422.99
	say				1422.99
	Say				1422.99

28. Specification Code: 13.43.1

13.43.1	Applying one coat of water thinnable cement primer of approved brand and manufacture on wall surface:Water thinnable cement primer
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Code	Description	Unit	Quantity	Rate	Amount
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0808	Water thinnable cement primer for interior wall surface, having VOC content less than 50 gms/litre	Litre	0.70000	79.00	55.30
9999	Sundries Brushes, putty etc. LABOUR:	L.S	7.15000	3.00	21.45
0131	Painter	Day	0.40000	850.00	340.00
0115	Coolie	Day	0.20000	800.00	160.00
9988	Carriage and sundries	L.S	8.06000	3.00	24.18
	TOTAL				600.93
	Add Water Charge @ 1.0%				6.01
	TOTAL				606.94
	Add CPOH @ 15.0%				91.04
	cost for 10.0 sqm				697.98
	cost for one sqm				69.80
	say				69.8

29. Specification Code: 13.50.3

13.50.3	Applying priming coat: With ready mixed red oxide zinc chromate primer of approved brand and manufacture on steel galvanised iron /steel works
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Code	Description	Unit	Quantity	Rate	Amount
4202	Red oxide Zinc chromate primer	Litre	0.54000	69.00	37.26
9977	Carriage LABOUR:	L.S	0.52000	3.00	1.56
0131	Painter	Day	0.24000	850.00	204.00
0115	Coolie	Day	0.24000	800.00	192.00
9999	Sundries Brushes, sand paper including sundries	L.S	10.79000	3.00	32.37
	TOTAL				467.19
	Add Water Charge @ 1.0%				4.67
	TOTAL				471.86
	Add CPOH @ 15.0%				70.78
	cost for 10.0 sqm				542.64

	cost for one sqm				54.26
	say				54.25

30. Specification Code: 13.82.2

13.82.2	Wall painting with acrylic emulsion paint, having VOC (Volatile Organic Compound) content less than 50 grams/ litre, of approved brand and manufacture including applying additional coats wherever required, to achieve even shade and colour.Two coats
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Code	Description	Unit	Quantity	Rate	Amount
0803	Acrylic emulsion, having VOC content less than 50 gm/litre	Litre	0.84000	309.00	259.56
9999	Sundries	L.S	1.43000	3.00	4.29
9977	Carriage Brushes, putty etc.LABOUR:	L.S	6.76000	3.00	20.28
0131	Painter	Day	0.54000	850.00	459.00
0115	Coolie	Day	0.54000	800.00	432.00
9999	Sundries Brushes, sand paper etc.	L.S	10.79000	3.00	32.37
9999	Sundries	L.S	6.76000	3.00	20.28
	TOTAL				1227.78
	Add Water Charge @ 1.0%				12.28
	TOTAL				1240.06
	Add CPOH @ 15.0%				186.01
	cost for 10.0 sqm				1426.07
	cost for one sqm				142.61
	say				142.6

31. Specification Code: 13.46.1

13.46.1	Finishing walls with Acrylic Smooth exterior paint of required shade:New work (Two or more coat applied @ 1.67 ltr/10 sqm over and including priming coat of exterior primer applied @ 2.20 kg/10 sqm)
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Code	Description	Unit	Quantity	Rate	Amount
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8505	Acrylic exterior paint	Litre	1.67000	227.00	379.09
0809	Exterior primer	kilogram	2.20000	40.00	88.00
9977	Carriage of material LABOUR:	L.S	1.56000	3.00	4.68
0131	Painter	Day	0.60000	850.00	510.00
0115	Coolie	Day	0.30000	800.00	240.00
0101	Bhisti	Day	0.05000	800.00	40.00
9999	Sundries Brushes, sand paper etc.	L.S	7.15000	3.00	21.45
9999	Sundries	L.S	8.06000	3.00	24.18
	TOTAL				1307.4
	Add Water Charge @ 1.0%				13.07
	TOTAL				1320.47
	Add CPOH @ 15.0%				198.07
	cost for 10.0 sqm				1518.55
	cost for one sqm				151.86
	say				151.85

Other Engineering Organisations

PRICE
32. Specification Code: 13.84.2

13.84.2	Painting with synthetic enamel paint, having VOC (Volatile Organic Compound) content less than 150 grams/ litre, of approved brand and manufacture, including applying additional coats wherever required to achieve even shade and colour. Two coats
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Code	Description	Unit	Quantity	Rate	Amount
0805	Synthetic enamel paint, having VOC (Volatile Organic Compound content less than 150 gm/litre	Litre	0.84000	246.00	206.64
9977	Carriage	L.S	1.43000	3.00	4.29
9999	Sundries Material for filling in holes and cracks (putty) etc LABOUR:	L.S	5.33000	3.00	15.99
0131	Painter	Day	0.54000	850.00	459.00
0115	Coolie	Day	0.54000	800.00	432.00

9999	Sundries Brushes, sand paper etc.	L.S	6.76000	3.00	20.28
9999	Sundries	L.S	8.06000	3.00	24.18
	TOTAL				1162.38
	Add Water Charge @ 1.0%				11.62
	TOTAL				1174.0
	Add CPOH @ 15.0%				176.1
	cost for 10.0 sqm				1350.10
	cost for one sqm				135.01
	say				135.0

33. Specification Code: 13.52.1

13.52.1	Finishing with Epoxy paint (two or more coats) at all locations prepared and applied as per manufacturer's specifications including appropriate priming coat, preparation of surface, etc. complete. On steel work
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Code	Description	Unit	Quantity	Rate	Amount
4202	Red oxide Zinc chromate primer	Litre	0.75000	69.00	51.75
9999	Sundries Putty	L.S	2.73000	3.00	8.19
9977	Carriage LABOUR:	L.S	0.39000	3.00	1.17
0131	Painter	Day	0.25000	850.00	212.50
0115	Coolie	Day	0.25000	800.00	200.00
9999	Sundries Brushes, sand paper etc.	L.S	5.46000	3.00	16.38
9999	Sundries EPOXY PAINTING MATERIAL:	L.S	10.66000	3.00	31.98
7239	Epoxy paint	Litre	1.25000	330.00	412.50
9977	Carriage of materialLABOUR:	L.S	1.43000	3.00	4.29
0131	Painter	Day	0.54000	850.00	459.00
0115	Coolie	Day	0.54000	800.00	432.00

9999	Sundries Putty, brushes, sand paper etc.	L.S	6.76000	3.00	20.28
9999	Sundries	L.S	8.06000	3.00	24.18
	TOTAL				1874.22
	Add Water Charge @ 1.0%				18.74
	TOTAL				1892.96
	Add CPOH @ 15.0%				283.94
	cost for 10.0 sqm				2176.91
	cost for one sqm				217.69
	say				217.7

34. Specification Code: 9.48.2

9.48.2	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. Fixed to openings/ wooden frames with rawl plugs screws etc
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Code	Description	Unit	Quantity	Rate	Amount
1003	Mild Steel round bar above 12 mm dia M.S. bar M.S. flat 25x3.15 mm $2 \times 120\text{cm} = 2.40\text{m}$ $+ 2 \times 90\text{cm} = 1.80\text{m}$ $+ 1 \times 120\text{cm} = 1.20\text{m}$ $+ 2 \times 15\text{cm} = 0.30\text{m}$ Total = 5.70m $5.70\text{m} @ 0.63\text{kg/m} = 3.59\text{kg}+$	quintal	0.16500	5820.00	960.30
1008	Flats up to 10 mm in thickness	quintal	0.04000	5016.00	200.64
2205	Steel Carriage of steel $0.165 + 0.04 = 0.205\text{ q} = 0.0205\text{ t}$ Say 0.02 t tonne	tonne	0.02000	0.00	.00
9999	Sundries	L.S	26.91000	3.00	80.73
9999	Sundries Welding charges Priming coat: Area = $1 \times 0.9 \times 1.2 \times 1 = 1.08$ sqm	L.S	19.76000	3.00	59.28
13.50.3	With ready mixed red oxide zinc chromate primer of approved brand and manufacture on steel galvanised iron /steel works LABOUR:	sqm	1.08000	46.72	50.46
0102	Blacksmith 1st class	Day	0.86000	950.00	817.00
0114	Beldar	Day	1.10000	900.00	990.00

7048	Rawl plug 50 mm (designation 10 nos)	each	8.00000	10.00	80.00
9999	Sundries Fixing of rawl plugs	L.S	26.00000	3.00	78.00
	TOTAL				3316.41
	Add Water Charge @ 1.0%				33.16
	TOTAL				3349.57
	Add CPOH @ 15.0%				502.44
	cost for 18.54 kg				3852.01
	cost for one kg				207.77
	say				207.75

35. Specification Code: 9.147.5

9.147.5	<p>Providing and fixing factory made uPVC white colour casement/casement cumfixed glazed windows comprising of uPVC multi-chambered frame, sash and mullion (where ever required) extruded profiles duly reinforced with 1.60 +/- 0.2mm 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, stainless steel (SS 304 grade) friction hinges, zinc alloy (white powder coated) casement handles, G.I fasteners 100 x 8mm size for fixing frame to finished wall, plastic packers, plastic caps and necessary stainless steel screws etc. Profile of frame & sash 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's 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 approved quality, all complete as per approved drawing & direction of Engineer-in-Charge. (Single / double glass panes and silicon sealant shall be paid separately)</p> <p>Note: For uPVC frame, sash and mullion extruded profiles minus 5% tolerance in dimension i.e. in depth & width of profile shall be acceptable. 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).</p>
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Code	Description	Unit	Quantity	Rate	Amount
8126	u PVC extruded (Big series) casement window frame size 67x60mm	metre	5.36000	479.00	2567.44
8128	uPVC extruded (big series) casement window sash/window mullion/ door mullion size 67x80 mm Window Sash = 7.71 M + Window Mullion = 1.42 M Total = 9.13 M	metre	9.13000	566.00	5167.58

8130	uPVC extruded glazing bead of appropriate dimension for big series casemtn window/door sash Galvanized iron reinforcement for :-	metre	7.34000	152.00	1115.68
3992	Galvanized iron (1.6 +/- 0.2mm) thick reinforcement for big series casement window/ door frame, sash mullion & small series sliding window frame Window Frame = 5.31 M + Window Sash =7.11 M + Window Mullion = 1.41 M Total = 13.83 M	metre	13.83000	93.00	1286.19
7390	Neoprene / EPDM rubber gasket	metre	30.62000	25.00	765.50
3995	G. I fasteners 100 x 8 mm	each	12.00000	20.00	240.00
8758	Stainless steel friction hinge of size 350 mm x 19 x 1.9 mm for uPVC windows	each	4.00000	413.00	1652.00
8750	Zinc alloy (white powder coated) casement handle for uPVC windows	each	2.00000	158.00	316.00
9999	Sundries plastic packers, plastic caps,SS screws and carriage of material Labour	L.S	170.00000	3.00	510.00
0162	Labour for fabrication of uPVC extruded casement/sliding windows and doors including drilling holes, fixing of fittings & hardware, hire charges of drill machine and electricity charges etc.	sqm	1.62000	800.00	1296.00
0163	Labour for installation of uPVC extruded casement/ sliding windows and doors including scaffolding	sqm	1.62000	750.00	1215.00
	TOTAL				16131.39
	Add Water Charge @ 1.0%				161.31
	TOTAL				16292.7
	Add CPOH @ 15.0%				2443.91
	cost for 1.62 sqm				18736.61
	cost for one sqm				11565.81
	say				11565.8

36. Specification Code: 9.147B.1

9.147B.1	543SUB HEAD : 9 - WOOD & PVC WORK9.147BProviding and fixing factory made uPVC white colour fixed glazed windows/ventilators comprising of uPVC multi-chambered frame and mullion (where everrequired) extruded profiles duly reinforced with 1.60 ± 0.2 mm thick galvanized mild steel section
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	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's 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 approved quality, all complete as per approved drawing & direction of Engineer-in-Charge. (Single / double glass panes and silicon sealant shall be paid separately). Note: For uPVC frame, sash and mullion extruded profiles minus 5% tolerance in dimension i.e. in depth & width of profile shall be acceptable. Fixed window / ventilator made of (small series) frame 47 x 50 mm & mullion 47x 68 mm both having wall thickness of 1.9 ± 0.2 mm and single glazing bead of appropriate dimension. (Area upto 0.75 sqm.)
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Code	Description	Unit	Quantity	Rate	Amount
8121	uPVC extruded (Small series) casement window frame size 47x50mm	metre	3.57000	330.00	1178.10
8122	uPVC extruded (small series) casement window sash/window mullion size 47x68mm	metre	0.53000	357.00	189.21
8125	uPVC extruded glazing bead of appropriate dimension for small series casement window sash Galvanized iron reinforcement for :-	metre	3.99000	121.00	482.79
3991	Galvanized iron (1.6 +/- 0.2 mm) thick reinforcement for small series casement window/ door frame, sash, mullion & small series sliding window frame Window Frame = 3.27 M + Window Mullion = 0.98 M Total = 4.25 M	metre	4.25000	87.00	369.75
7390	Neoprene / EPDM rubber gasket	metre	8.38000	25.00	209.50
3995	G. I fasteners 100 x 8 mm	each	8.00000	20.00	160.00
9999	Sundries plastic packers, plastic caps, SS screws and carriage of material Labour	L.S	170.00000	3.00	510.00
0162	Labour for fabrication of uPVC extruded casement/sliding windows and doors including drilling holes, fixing of fittings & hardware's, hire charges of drill machine and electricity charges etc.	sqm	0.60000	800.00	480.00
0163	Labour for installation of uPVC extruded casement/ sliding windows and doors including scaffolding	sqm	0.60000	750.00	450.00
	TOTAL				4029.35
	Add Water Charge @ 1.0%				40.29

	TOTAL				4069.64
	Add CPOH @ 15.0%				610.45
	cost for 0.6 sqm				4680.09
	cost for one sqm				7800.15
	say				7800.15

37. Specification Code: 21.3.2

21.3.2	Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with EPDM rubber / neoprene gasket etc. complete as per the architectural drawings and the directions of Engineer - in -Charge. (Cost of aluminium snap beading shall be paid in basic item):With float glass panes of 5.50 mm thickness
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Code	Description	Unit	Quantity	Rate	Amount
2407	Float glass sheet of nominla thickness 5.5 mm (weight not less than 13.50 Kg/ sqm)	sqm	1.10000	594.00	653.40
9977	Carriage of glass	L.S	3.33000	3.00	9.99
7390	Neoprene / EPDM rubber gasket LABOUR:	metre	6.00000	25.00	150.00
0112	Carpenter 2nd class	Day	0.23000	900.00	207.00
0114	Beldar	Day	0.23000	900.00	207.00
9999	Sundries Sundries and carriage of gasket	L.S	6.89000	3.00	20.67
	TOTAL				1248.06
	Add Water Charge @ 1.0%				12.48
	TOTAL				1260.54
	Add CPOH @ 15.0%				189.08
	cost for one sqm				1449.62
	say				1449.6

38. Specification Code: od219689/2019_2020

od219689/2019_2020 :Supply and fixing ready made galvanized wooden texture Powder coating/Heat

transfer/Fluorocarbon laminate painted steel doors with steel jamb,SS hinges & door sill ,sheet thickness of 1 to 1.4mm, Cylindrical lock, high security locking systems (Multi lock models having 11 locking points, and can be operated with a single key), honeycomb paper Infilling material, five years warranty on all the hardware and locking system as per satisfaction of site Engineer in charge.The above rate included all fixing and fittings like security locks, hinges, hardware items etc.(Cuirass/l-leaf/GM or approved equivalent.)

Code	Description	Unit	Quantity	Rate	Amount
	Supply rate from quote = 1.2mx2.4m size door = 24900 Rate = 8645.83 per Sq.m.`				
MR	Supply of steel door with all hardware and fittings as per quote	sqm	1.00000	8645.83	8645.83
MR	Transportation	sqm	1.00000	200.00	200.00
0116	Fitter(grade1)	Day	0.35000	950.0	332.50
0114	Beldar	Day	0.35000	900.0	315.00
9999	Sundries	L.S	57.81000	3.0	173.43
	TOTAL				9666.76
	Add Water Charges @ 1%				96.67
	Add CPOH @ 15.0%				1464.51
	cost for one sqm of door area				11227.94
	say				11227.94
	Say				11227.94

39. Specification Code: od219690/2019_2020

od219690/2019_2020 :Supply and fix fully finished Pre Hung Door:- Both side HP Laminate vertical grain pattern Flush door with matching PVC wrapped WPC Jamb with front side Architrave other side tackers. Door of 35mm thick with 4 side edges painted / Lock Hole Boring (Using mortise lock)/ Hinge Rebate Cutting (4 Nos) ,Jamb width 100 mm. Latch with Lever handles without Keys SS finish - 1 No, Hinges 4" x 3" x 3mm SS finish - 4 Nos .Tower Bolt 6" SS Finish - 1 No.(Jacsons or Approved equivalent)

Code	Description	Unit	Quantity	Rate	Amount
MR	HP Laminate vertical grain pattern Flush pre hung door	sqm	1.00000	6675.00	6675.00
MR	Cartage and sundries	sqm	1.00000	200.00	200.00
0156	Carpenter (average)	Day	0.54000	950.0	513.00
0114	Beldar	Day	0.54000	900.0	486.00
	TOTAL				7874.00

	Add Water Charges @ 1%				78.74
	Add CPOH @ 15.0%				1192.91
	cost for one sqm of door area				9145.65
	say				9145.65
	Say				9145.65

40. Specification Code: od219691/2019_2020

od219691/2019_2020 :Supply and fix fully finished Pre Hung Door:-Both side Veneered (Sapeli/ Beech /RC Walnut/RC Teak etc) vertical grains Flush door with matching Veneer Wrapped Engineered wood Jamb (Frame) with front side Architraves and other side Tackers, all with specialised Lacquer Polish. Door of 35 mm thick with 4 side PVC Lipping / Lock Hole Boring (using mortise lock) / Hinge Rebate cutting (4 Nos.) /Extruded Sauerland core / Honey comb core filling. as per drawing and agreed schedule of rates inclusive of all applicable taxes to the satisfaction of site Engineer in charge.The above rate included all fixing and fitting lock, hinges,hardware items etc. (Jacsons or approved equivalent)

Code	Description	Unit	Quantity	Rate	Amount
	for 1 Sq.m				
MR	Supply rate by quotation	sqm	1.00000	7143.00	7143.00
MR	Cartage and sundries	sqm	1.00000	200.00	200.00
0156	Carpenter (average)	Day	0.54000	950.0	513.00
0114	Beldar	Day	0.54000	900.0	486.00
	TOTAL				8342.00
	Add Water Charges @ 1%				83.42
	Add CPOH @ 15.0%				1263.81
	cost for one sqm				9689.23
	say				9689.23
	Say				9689.23

41. Specification Code: 10.6.3

10.6.3	Supplying and fixing rolling shutters of approved make, made of required size M.S. laths, interlocked together through their entire length and jointed together at the end by end locks, mounted on specially designed pipe shaft with brackets, side guides and arrangements for inside and outside locking with push and pull operation complete, including the cost of providing and fixing necessary 27.5 cm long wire springs manufactured from high tensile steel wire of adequate strength conforming to IS: 4454 - part 1
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	and M.S. top cover of required thickness for rolling shutters.80x0.90 mm M.S. laths with 0.90 mm thick to cover
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Code	Description	Unit	Quantity	Rate	Amount
7044	Rolling shutters of 80x0.90 mm laths	sqm	7.50000	1061.00	7957.50
7046	Top cover of Rolling shutters 0.90 mm thick	metre	2.50000	314.00	785.00
0975	27.5 cm long wire spring grade no 2 for rolling shutters	each	1.00000	334.00	334.00
9977	Carriage	L.S	53.82000	3.00	161.46
0116	Fitter(grade1)	Day	2.55000	950.00	2422.50
0114	Beldar	Day	2.55000	900.00	2295.00
0123	Mason (brick layer) 1st class	Day	0.12000	1000.00	120.00
0124	Mason (brick layer)2nd class	Day	0.12000	950.00	114.00
9999	Sundries	L.S	60.58000	3.00	181.74
	TOTAL				14371.2
	Add Water Charge @ 1.0%				143.71
	TOTAL				14514.91
	Add CPOH @ 15.0%				2177.24
	cost for 7.5 sqm				16692.15
	cost for one sqm				2225.62
	say				2225.6

42. Specification Code: 10.7

10.7	Providing and fixing ball bearing for rolling shutters.
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Code	Description	Unit	Quantity	Rate	Amount
0976	Ball bearing for rolling shutters	each	1.00000	421.00	421.00
9999	Sundries	L.S	26.91000	3.00	80.73
	TOTAL				501.73
	Add Water Charge @ 1.0%				5.02
	TOTAL				506.75
	Add CPOH @ 15.0%				76.01
	cost for one no				582.76

		say			582.75
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43. Specification Code: 10.28

10.28	Providing and fixing stainless steel (Grade 304) railing made of Hollow tubes, channels, plates etc., including welding, grinding, buffing, polishing and making curvature (wherever required) and fitting the same with necessary stainless steel nuts and bolts complete, i/c fixing the railing with necessary accessories & stainless steel dash fasteners, stainless steel bolts etc., of required size on the top of the floor or the side of waist slab with suitable arrangement as per approval of Engineer-in-charge, (for payment purpose only weight of stainless steel members shall be considered excluding fixing accessories such as nuts, bolts, fasteners etc.)
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Code	Description	Unit	Quantity	Rate	Amount
4001	Stainless steel (Grade - 304) hollow section round/square tubes	kg	2.10000	344.00	722.40
4002	Stainless steel bolts /square bar and plates LABOUR:\$for fabrication, assembling, erection, welding, curvating, grinding, buffing etc.	kg	1.00000	128.00	128.00
0102	Blacksmith 1st class	Day	0.06000	950.00	57.00
0114	Beldar	Day	0.20000	900.00	180.00
0100	Bandhani	Day	0.02000	800.00	16.00
9999	Sundries Welding of stainless steel section	L.S	30.00000	3.00	90.00
9999	Sundries Curvating, grinding, finishing, buffing	L.S	20.00000	3.00	60.00
9999	Sundries for making good wall and floors	L.S	7.50000	3.00	22.50
	TOTAL				1275.9
	Add Water Charge @ 1.0%				12.76
	TOTAL				1288.66
	Add CPOH @ 15.0%				193.3
	cost for 2.0 kg				1481.96
	cost for one kg				740.98
	say				741.0

44. Specification Code: od21082/2019_2020

od21082/2019_2020 :Supply 100x100x4mm thick 6.00 m long Galvanized square hollow section member (AS 1163-2009 Grade min C350L0 AS/NZS 4792 Galvanised coatings on ferrous hollow sections) fixed vertically and anchored to RC parapet and base up stand, will be given a priming coat of Zinc primer as approved by Engineer-in-charge and painted with two or more coats of epoxy paint (Shop drawings shall be submitted by the contractor to the Engineer in-charge for approval before execution).

Code	Description	Unit	Quantity	Rate	Amount
	Considering 6.00m length				
MR	Supply 100mmx100mmx14g thick 6.00 m long Galvanized square hollow section member	kg	37.20000	55.67	2070.92
0102	Blacksmith 1st class	Day	0.12500	950.0	118.75
0114	Beldar	Day	0.12500	900.0	112.50
1215	Welding by electric plant	cm	120.00000	4.0	480.00
0123	Mason (brick layer) 1st class	Day	0.12500	1000.0	125.00
0115	Coolie	Day	0.12500	800.0	100.00
MR	Cement mortar 1:3 (1 cement : 3 coarse sand). DSR item 3.8 (entered as MR since Price software not supported, rate =4723.50x1.4185(index value) =6700.29) 	cum	0.03000	6700.29	201.01
1213	Water proofing materials	kilogram	0.10000	46.0	4.60
13.52.1	Rate as per item number 13.52.1 of SH: Finishing	sqm	2.40000	217.69065 29999999 7	522.46
9999	Sundries	L.S	59.00000	3.0	177.00
	TOTAL				3912.24
	Add Water Charges @ 1%				39.12
	Add CPOH @ 15.0%				592.70
	cost for 6.0 metre				4544.07
	cost for one metre				757.34
	say				757.34
	Say				757.34

45. Specification Code: od21085/2019_2020

od21085/2019_2020 :Supply 50mmx50mmx16 g thick Galvanized square hollow section member (AS 1163-2009 Grade min C350L0 AS/NZS 4792 Galvanised coatings on ferrous hollow sections) fixed vertically and anchored to RC slab will be given a priming coat of Zinc primer as approved by Engineer-in-charge and painted with two or more coats of epoxy paint (painting measured separately)(Shop drawings shall be submitted by the contractor to the Engineer in-charge for approval before execution).

Code	Description	Unit	Quantity	Rate	Amount
	Considering 3.60m length				
MR	Supply 50mmx50mmx16 g thick 3.60 m long Galvanized square hollow section member.	kg	7.74000	55.67	430.89
0102	Blacksmith 1st class	Day	0.03700	950.0	35.15
0114	Beldar	Day	0.03700	900.0	33.30
1215	Welding by electric plant	cm	40.00000	4.0	160.00
0116	Fitter(grade1)	Day	0.03700	950.0	35.15
0115	Coolie	Day	0.03700	800.0	29.60
1957	Bolts and nuts 16 mm dia 65 mm long	each	8.00000	16.0	128.00
9999	Sundries	L.S	59.00000	3.0	177.00
	TOTAL				1029.09
	Add Water Charges @ 1%				10.29
	Add CPOH @ 15.0%				155.91
	cost for 3.6 metre				1195.28
	cost for one metre				332.02
	say				332.02
	Say				332.02

46. Specification Code: od219801/2019_2020

od219801/2019_2020 :Supply Cor-Ten A grade 3mm thick warm rolled perforated cassettes (ASTM A606) fixed to plastered wall spacing in the hidden plastic suspension mounts with stainless steel class

Code	Description	Unit	Quantity	Rate	Amount
MR	Supply of 3mm thick cor-Ton steel cassettes including wastage	sqm	3.28000	1635.52	5364.51
MR	Perforation charges	L.S	1.00000	400.00	400.00
MR	Transportation	L.S	1.00000	500.00	500.00

9999	Sundries	L.S	217.04000	3.0	651.12
0116	Fitter(grade1)	Day	0.20000	950.0	190.00
0115	Coolie	Day	0.20000	800.0	160.00
		TOTAL			7265.63
		Add Water Charges @ 1%			72.66
		Add CPOH @ 15.0%			1100.74
		cost for 3.125 sqm			8439.02
		cost for one sqm			2700.49
		say			2700.49
		Say			2700.49

47. Specification Code: 12.59.1

12.59.1	<p>Providing and fixing false ceiling at all height including providing & fixing of framework made of special section, power pressed from M.S. sheets and galvanised with zinc coating of 120 gms/ sqm (both side inclusive) as per IS : 277 and consisting of angle cleat of size 25 mm wide x 1.6 mm thick with flanges of 27 mm and 37 mm, at 1200mm c/c, one flange fixed to the ceiling with dash fastener 12.5mm dia x 50mm long with 6mm dia bolts, other flanged of cleat fixed to the angle hangers of 25x10x0.50mm of required length with nuts & bolts of required size and other end of angle hanger fixed with intermediate G.I chanel 45x15x0.90mm running at the spacing of 1200 mm c/c, to which the ceiling section 0.5 mm thick bottom wedge of 80mm with tapered flanges of 26mm each having lips of 10.5mm, at 450mm c/c, shall be fixed in a direction perpendicular to G.I intermediate channel with connecting clip made out of 2.64mm dia x 230mm long G.I wire at every junction, including fixing perimeter channels 0.50mm thick 27 mm high having flages of 20mm and 30mm long, the perimeter of ceiling fixed to wall/ partitions with the help of Rawl plugs at 450mm centre, with 25mm long dry wall screws @ 230mm interval, including fixing of Calcium Silicate Board to ceiling section and perimeter channels with the help of day wall screws of size 3.5x25mm at 230mm c/c, including jointing & finishing to a flush finish of tapered and square edges of the board with recommended jointing compounds, jointing tapes, finishing with jointing compounds in three layers covering up to 150mm on both sides of joints and two coats of primer suitable for boards, all as per manufacture's specification and also including the cost of making opening for light fittings, grills, diffusers, cut outs made with frame of perimeter channels suitable fixed, all complete as per drawings, specification and direction of the Engineer in charge but excluding the cost of painting with a.8 mm thick Calcium Silicate Board made with Calcareous & Siliceous materials reinforced with cellulose fiber manufactured through acutoclaving process.</p>
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Code	Description	Unit	Quantity	Rate	Amount
8699	8 mm thick tapered edge ccalcium silicate board	sqm	108.86000	362.00	39407.32
7010	Galvanised Steel ceiling section (size 80x26x0.50 mm)	metre	238.14000	44.00	10478.16

7011	Galvanised Steel perimetre Channel (Size 20x27x30x0.50 mm)	metre	41.84000	40.00	1673.60
7012	Galvanised Steel intermediate Channel (Size 15x45x15x0.90 mm)	metre	90.72000	46.00	4173.12
7013	Galvanised Steel angle hanger (Ceiling angle) (Size 25x10x0.50 mm)	metre	10.80000	18.00	194.40
7014	Galvanised Steel connecting clips (2.64 dia and 230 mm long GI wire)	each	189.00000	6.00	1134.00
1022	Galvanised steel bolts & nuts 6 mm dia and 25 mm long round head with slots	10 nos	216.00000	3.40	734.40
8617	Soffit cleat (Size 27x37x25x1.60 mm)	each	72.00000	3.00	216.00
7020	All drive screws (for gypsum board)	100 nos	1000.00000 0	0.59	590.00
7016	Joint filler	kilogram	22.81000	22.00	501.82
7017	Joint finisher	kilogram	34.21000	24.00	821.04
7388	Dash hold fastener 12.5 mm dia, 50 mm long with 6 mm dia bolt	each	72.00000	49.00	3528.00
7018	Joint tape roll	roll	1.27000	143.00	181.61
7021	Primer (for gypsum board)	Litre	18.66000	84.00	1567.44
9977	Carriage	L.S	447.20000	3.00	1341.60
9999	Sundries i.e rawl plug, scaffolding etc. LABOUR:	L.S	807.30000	3.00	2421.90
0112	Carpenter 2nd class	Day	31.10000	900.00	27990.00
0114	Beldar	Day	31.10000	900.00	27990.00
0131	Painter	Day	10.37000	850.00	8814.50
	TOTAL				133758.91
	Add Water Charge @ 1.0%				1337.59
	TOTAL				135096.5
	Add CPOH @ 15.0%				20264.47
	cost for 103.68 sqm				155360.97
	cost for one sqm				1498.47
	say				1498.45

48. Specification Code: 17.2.1

17.2.1	Providing and fixing white vitreous china pedestal type water closet (European type W.C. pan) with seat and lid, 10 litre low level white P.V.C. flushing cistern, including flush pipe, with manually controlled device (handle lever), conforming to IS : 7231, with all fittings and fixtures complete, including cutting and making good the walls and floors wherever required:W.C. pan with ISI marked white solid plastic seat and lid
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Code	Description	Unit	Quantity	Rate	Amount
1875	White plastic seat (solid) with lid C.P. brass hinges and rubber buffers	each	1.00000	325.00	325.00
1955	Vitreous china pedestal type wate closet	each	1.00000	863.00	863.00
7358	Flushing Cistern P.V.C. 10 lts capacity (low level) (white) (with fittings, accessories and flush pipe)	each	1.00000	629.00	629.00
9999	Sundries Cement, sand and grit etc.	L.S	26.91000	3.00	80.73
9977	Carriage of materialsLABOUR:	L.S	26.91000	3.00	80.73
0116	Fitter(grade1)	Day	1.25000	950.00	1187.50
0123	Mason (brick layer) 1st class	Day	0.50000	1000.00	500.00
0114	Beldar	Day	1.00000	900.00	900.00
	TOTAL				4565.96
	Add Water Charge @ 1.0%				45.66
	TOTAL				4611.62
	Add CPOH @ 15.0%				691.74
	cost for one each				5303.36
	say				5303.35

49. Specification Code: 17.4.1

17.4.1	Providing and fixing white vitreous china flat back or wall corner type lipped front urinal basin of 430x260x350 mm and 340x410x265 mm sizes respectively with automatic flushing cistern with standard flush pipe and C.P. brass spreaders with brass unions and G.I. clamps complete, including painting of fittings and brackets, cutting and making good the walls and floors wherever required:One urinal basin with 5 litre white P.V.C. automatic flushing cistern
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Code	Description	Unit	Quantity	Rate	Amount
1913	Vitreous china lipped front urinal	each	1.00000	573.00	573.00
7359	P.V.C. automatic flushing cistern 5 lts capacity	each	1.00000	481.00	481.00
7375	G.I. flush pipe and C.P. brass spreader including C.P. connecting pipe Single lipped urinal	each	1.00000	457.00	457.00
9999	Sundries Red lead, white lead and gasket	L.S	13.52000	3.00	40.56
9999	Sundries Plugs, screws etc	L.S	13.52000	3.00	40.56
9999	Sundries Cement, sand and grit etc.	L.S	13.52000	3.00	40.56
9999	Sundries Painting of fittings etc	L.S	39.00000	3.00	117.00
9977	Carriage of materialsLABOUR:	L.S	26.91000	3.00	80.73
0116	Fitter(grade1)	Day	0.88000	950.00	836.00
0123	Mason (brick layer) 1st class	Day	0.88000	1000.00	880.00
0114	Beldar	Day	1.50000	900.00	1350.00
					4896.41
					48.96
					4945.37
					741.81
					5687.18
					5687.2

50. Specification Code: 17.7.1

17.7.1	Providing and fixing wash basin with C.I. brackets, 15 mm C.P. brass pillar taps, 32 mm C.P. brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever require:White Vitreous China Wash basin size 630x450 mm with a pair of 15 mm C.P. brass pillar taps
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Code	Description	Unit	Quantity	Rate	Amount
1947	Vitreous China flat back wash basin 630x450 mm	each	1.00000	876.00	876.00
1885	15 mm C.P.brass tap	each	2.00000	265.00	530.00

1951	C.P. brass waste 32 mm	each	1.00000	99.00	99.00
1309	C.I. bracket for wash basin and sinks	pair	1.00000	91.00	91.00
9999	Sundries Red lead, white lead and gasket	L.S	16.12000	3.00	48.36
9999	Sundries Cement, sand and grit etc.	L.S	13.39000	3.00	40.17
9999	Sundries Painting of brackets, fittings etc.	L.S	26.91000	3.00	80.73
9977	Carriage of materialsLABOUR:	L.S	13.52000	3.00	40.56
0116	Fitter(grade1)	Day	0.33000	950.00	313.50
0123	Mason (brick layer) 1st class	Day	0.33000	1000.00	330.00
0114	Beldar	Day	0.67000	900.00	603.00
					3052.32
					30.52
					3082.84
					462.43
					3545.27
					3545.25

Other Engineering Organisations
PRICE

51. Specification Code: 17.8

17.8	Providing and fixing white vitreous china pedestal for wash basin completely recessed at the back for the reception of pipes and fittings.
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Code	Description	Unit	Quantity	Rate	Amount
1396	vitreous china pedestal for wash basin	each	1.00000	887.00	887.00
9999	Sundries White cement mortar	L.S	40.30000	3.00	120.90
9988	Carriage and sundries of materials and fixing charges	L.S	40.43000	3.00	121.29
					1129.19
					11.29
					1140.48

	Add CPOH @ 15.0%				171.07
	cost for one each				1311.55
	say				1311.55

52. Specification Code: 17.70.1

17.70.1	Providing and fixing PTMT Bottle Trap for Wash basin and sink. Bottle trap 31 mm single piece moulded with height of 270 mm, effective length of tail pipe 260 mm from the center of the waste coupling, 77 mm breadth with 25 mm minimum water seal, weighing not less than 260 gms
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Code	Description	Unit	Quantity	Rate	Amount
7493	PTMT - Bottle Trap 31/32 mm	each	1.00000	312.00	312.00
9988	Carriage and sundries of materials and fixing charges	L.S	20.28000	3.00	60.84
	TOTAL				372.84
	Add Water Charge @ 1.0%				3.73
	TOTAL				376.57
	Add CPOH @ 15.0%				56.49
	cost for one each				433.05
	say				433.05

53. Specification Code: 18.50.1

18.50.1	Providing and fixing C.P brass long nose bib cock of approved quality conforming to IS standards and weighing not less than 810 gms. 15 mm nominal bore
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Code	Description	Unit	Quantity	Rate	Amount
7258	C.P. Brass long nose bibcock 15 mm	each	1.00000	646.00	646.00
9988	Carriage and sundries and fixing charges	L.S	16.25000	3.00	48.75
	TOTAL				694.75
	Add Water Charge @ 1.0%				6.95
	TOTAL				701.7

	Add CPOH @ 15.0%				105.25
	cost for one each				806.95
	say				806.95

54. Specification Code: 50.17.1.5

50.17.1.5	Supplying and fixing CP Health Faucet superior quality (Jagur or equivalent make) including cost of materials and labour charges etc complete as per the direction of site Engineer-in-charge.
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Code	Description	Unit	Quantity	Rate	Amount
MR37	Health faucet superior quality	each	10.00000	850.00	8500.00
9999	Sundries	L.S	10.00000	3.00	30.00
	TOTAL				8530.0
	Add Water Charge @ 1.0%				85.3
	TOTAL				8615.3
	Add CPOH @ 15.0%				1292.29
	cost for 10,0 no				9907.59
	cost for one no				990.76
	say				990.75

55. Specification Code: 17.71

17.71	Providing and fixing PTMT liquid soap container 109 mm wide, 125 mm high and 112 mm distance from wall of standard shape with bracket of the same materials with snap fittings of approved quality and colour, weighing not less than 105 gms
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Code	Description	Unit	Quantity	Rate	Amount
7503	PTMT - Liquid Soap Container of 400 ml capacity	each	1.00000	143.00	143.00
9988	Carriage and sundries of materials and fixing charges	L.S	6.76000	3.00	20.28
	TOTAL				163.28
	Add Water Charge @ 1.0%				1.63
	TOTAL				164.91

	Add CPOH @ 15.0%				24.74
	cost for one each				189.65
	say				189.65

56. Specification Code: 50.17.1.3

50.17.1.3	Supplying and fixing CP Towel rod 60cm or nearest available length including cost of materials and labour charges etc complete as per the direction of site Engineer-in-charge.
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Code	Description	Unit	Quantity	Rate	Amount
MR35	Supplying and fixing CP Towel rod 60cm or nearest available length	each	5.00000	192.00	960.00
9999	Sundries	L.S	10.00000	3.00	30.00
	TOTAL				990.0
	Add Water Charge @ 1.0%				9.9
	TOTAL				999.9
	Add CPOH @ 15.0%				149.99
	cost for 5.0 no				1149.89
	cost for one no				229.98
	say				230.0

57. Specification Code: od219806/2019_2020

od219806/2019_2020 :Supply & Fixing stainless steel square cockroach proof traps with Gratings MAT finish. Unloading materials supplied at site and storing it in safe place provided in the site. (Make:CHILLY/ ACO/SGS)

Code	Description	Unit	Quantity	Rate	Amount
MR	Supply of trap with grating	each	1.00000	639.83	639.83
0123	Mason (brick layer) 1st class	Day	0.06300	1000.0	63.00
9999	Sundries	L.S	10.00000	3.0	30.00
	TOTAL				732.83
	Add Water Charges @ 1%				7.33
	Add CPOH @ 15.0%				111.02

	cost for one each				851.18
	say				851.18
	Say				851.18

58. Specification Code: od219807/2019_2020

od219807/2019_2020 :Providing and fixing 75mm dia Cleanout with Spigot, with SS 304 Square Frame & Round Frame with Flat Round Cover with Rubber Seal & SS Screw including cost and conveyance of all materials, labour charges, sundries etc complete as directed by the Engineer in charge at all levels.(Make:CHILLY/ ACO/SGS)

Code	Description	Unit	Quantity	Rate	Amount
	Rate per each				
MR	Cleanout 75mm dia	no	1.00000	506.78	506.78
MR	Carriage of materials and fixing charges	L.S	13.91000	2.68	37.28
0116	Fitter(grade1)	Day	0.30000	950.0	285.00
0124	Mason (brick layer)2nd class	Day	0.30000	950.0	285.00
	TOTAL				1114.06
	Add Water Charges @ 1%				11.14
	Add CPOH @ 15.0%				168.78
	cost for one each				1293.98
	say				1293.98
	Say				1293.98

59. Specification Code: od219808/2019_2020

od219808/2019_2020 :Providing and fixing 100mm dia Cleanout with Spigot, with SS 304 Square Frame & Round Frame with Flat Round Cover with Rubber Seal & SS Screw including cost and conveyance of all materials, labour charges, sundries etc complete as directed by the Engineer in charge at all levels.(Make:CHILLY/ ACO/SGS)

Code	Description	Unit	Quantity	Rate	Amount
	Rate per each				
MR	Cleanout 100mm dia	no	1.00000	529.66	529.66
MR	Carriage of materials and fixing charges	L.S	13.91000	2.68	37.28
0116	Fitter(grade1)	Day	0.30000	950.0	285.00
0124	Mason (brick layer)2nd class	Day	0.30000	950.0	285.00

	TOTAL				1136.94
	Add Water Charges @ 1%				11.37
	Add CPOH @ 15.0%				172.25
	cost for one each				1320.55
	say				1320.55
	Say				1320.55

60. Specification Code: 18.53.1

18.53.1	Providing and fixing C.P. brass angle valve for basin mixer and geyser points of approved quality conforming to IS: 893115 mm nominal bore
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Code	Description	Unit	Quantity	Rate	Amount
7261	C.P. Brass angle valve 15 mm	each	1.00000	600.00	600.00
9988	Carriage and sundries and fixing charges	L.S	11.31000	3.00	33.93
	TOTAL				633.93
	Add Water Charge @ 1.0%				6.34
	TOTAL				640.27
	Add CPOH @ 15.0%				96.04
	cost for one each				736.31
	say				736.3

61. Specification Code: 50.18.8.2.2

50.18.8.2.2	Providing and fixing PVC pipes, fittings including fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step PVC solvent cement and testing of joints complete as per direction of Engineer-in-Charge. Concealed work, including cutting chases and making good the wall etc. 20 mm pipe 10 Kgf/ cm ²
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Code	Description	Unit	Quantity	Rate	Amount
MR41	PVC pipe 20 mm outer dia 10 kgf/cm ² (Adding 30% for fittings wastage)\$Making chases upto 7.5x7.5cm in walls and making good the same	metre	13.00000	28.00	364.00

18.78	Making chases up to 7.5x7.5 cm in walls including making good and finishing with matching surface after housing G.II pipe etc. Making chased up to 7.5x7.5 cm in walls	metre	10.00000	175.20	1752.00
0116	Fitter(grade1)	Day	0.33000	950.00	313.50
0117	Assistant Fitter or 2nd class fitter	Day	0.66000	900.00	594.00
0114	Beldar	Day	0.66000	900.00	594.00
	TOTAL				3617.5
	Add Water Charge @ 1.0%				36.17
	TOTAL				3653.67
	Add CPOH @ 15.0%				548.05
	cost for 10.0 metre				4201.73
	cost for one metre				420.17
	say				420.15

62. Specification Code: 50.18.7.3.2

50.18.7.3.2	Providing and fixing PVC pipes, fittings including fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step PVC solvent cement and testing of joints complete as per direction of Engineer-in-Charge 25 mm dia 10Kgf/ cm ² - Internal work- Exposed on wall
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Code	Description	Unit	Quantity	Rate	Amount
MR43	PVC pipe 25 mm outer dia. 10kgf cm ² (Adding 15% for fittings and wastage)	metre	11.50000	45.00	517.50
9999	Sundries Adhesive and sundries etc	L.S	2.73000	3.00	8.19
0116	Fitter(grade1)	Day	0.33000	950.00	313.50
0117	Assistant Fitter or 2nd class fitter	Day	0.98000	900.00	882.00
0114	Beldar	Day	0.66000	900.00	594.00
	TOTAL				2315.19
	Add Water Charge @ 1.0%				23.15
	TOTAL				2338.34
	Add CPOH @ 15.0%				350.75
	cost for 10.0 metre				2689.09

	cost for one metre				268.91
	say				268.9

63. Specification Code: 50.18.7.4.1

50.18.7.4.1	Providing and fixing PVC pipes, fittings including fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step PVC solvent cement and testing of joints complete as per direction of Engineer-in-Charge 32 mm dia 10Kgf/cm ² - Internal work - Exposed on wall
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Code	Description	Unit	Quantity	Rate	Amount
MR44	PVC pipe 32 mm outer dia. 10Kgf/cm ² Add 15% for fittings and wastage etc	metre	11.50000	62.00	713.00
9999	Sundries Adhesive and sundries etc	L.S	4.16000	3.00	12.48
0116	Fitter(grade1)	Day	0.33000	950.00	313.50
0117	Assistant Fitter or 2nd class fitter	Day	0.98000	900.00	882.00
0114	Beldar	Day	0.98000	900.00	882.00
	TOTAL				2802.98
	Add Water Charge @ 1.0%				28.03
	TOTAL				2831.01
	Add CPOH @ 15.0%				424.65
	cost for 10.0 metre				3255.66
	cost for one metre				325.57
	say				325.55

64. Specification Code: 50.18.7.5.2

50.18.7.5.2	Providing and fixing PVC pipes, fittings including fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step PVC solvent cement and testing of joints complete as per direction of Engineer-in-Charge 40 mm dia 6Kgf/cm ² - Internal work - Exposed on wall
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Code	Description	Unit	Quantity	Rate	Amount
MR47	PVC pipe 40 mm outer dia. 6kgf/cm ² Add 15% for fitting and wastage etc on (A)	metre	11.50000	50.00	575.00

9999	Sundries Adhesive and sundries etc	L.S	5.33000	3.00	15.99
0116	Fitter(grade1)	Day	0.33000	950.00	313.50
0117	Assistant Fitter or 2nd class fitter	Day	1.31000	900.00	1179.00
0114	Beldar	Day	1.31000	900.00	1179.00
	TOTAL				3262.49
	Add Water Charge @ 1.0%				32.62
	TOTAL				3295.11
	Add CPOH @ 15.0%				494.27
	cost for 10.0 metre				3789.38
	cost for one metre				378.94
	say				378.95

65. Specification Code: 50.18.8.5.1

50.18.8.5.1	Providing and fixing PVC pipes, fittings including fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step PVC solvent cement and testing of joints complete as per direction of Engineer-in-Charge. concealed work, including cutting chases and making good the wall etc. 40 mm pipe 10 kgf/ cm ²
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Code	Description	Unit	Quantity	Rate	Amount
MR46	PVC pipe 40 mm outer dia. 10kgf/cm ² (Adding 30% for fitting and wastage \$Making chases upto 7.5x7.5 cm in walls and making good the same	metre	13.00000	80.00	1040.00
18.78	Making chases up to 7.5x7.5 cm in walls including making good and finishing with matching surface after housing G.II pipe etc.	metre	10.00000	175.20	1752.00
0116	Fitter(grade1)	Day	0.33000	950.00	313.50
0117	Assistant Fitter or 2nd class fitter	Day	0.66000	900.00	594.00
0114	Beldar	Day	0.66000	900.00	594.00
	TOTAL				4293.5
	Add Water Charge @ 1.0%				42.93
	TOTAL				4336.43
	Add CPOH @ 15.0%				650.47

	cost for 10.0 metre				4986.90
	cost for one metre				498.69
	say				498.7

66. Specification Code: 50.18.7.6.1

50.18.7.6.1	Providing and fixing PVC pipes, fittings including fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step PVC solvent cement and testing of joints complete as per direction of Engineer-in-Charge 50 mm dia 10 Kfg/cm - Internal work- Exposed on wall
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Code	Description	Unit	Quantity	Rate	Amount
MR48	PVC pipe 50 mm outer dia. 10 kgf/cm ² (15% added for fittings and wastage etc)	metre	11.50000	85.00	977.50
9999	Sundries Adhesive and sundries etc	L.S	5.33000	3.00	15.99
0116	Fitter(grade1)	Day	0.33000	950.00	313.50
0117	Assistant Fitter or 2nd class fitter	Day	1.31000	900.00	1179.00
0114	Beldar	Day	1.31000	900.00	1179.00
	TOTAL				3664.99
	Add Water Charge @ 1.0%				36.65
	TOTAL				3701.64
	Add CPOH @ 15.0%				555.25
	cost for 10.0 metre				4256.89
	cost for one metre				425.69
	say				425.7

67. Specification Code: od219814/2019_2020

od219814/2019_2020 :Supply and install Zoloto or approved equivalent 32mm full bore forged brass ball valve including all necessary fittings.

Code	Description	Unit	Quantity	Rate	Amount
	Rate for each item				

MR	supply of Zoloto 32mm full bore forged brass ball valve	each	1.00000	1136.00	1136.00
MR	40mm male threaded adaptor	each	2.00000	12.00	24.00
MR	40mm union	each	2.00000	46.00	92.00
9988	Carriage and sundries	L.S	9.98000	3.0	29.94
	TOTAL				1281.94
	Add Water Charges @ 1%				12.82
	Add CPOH @ 15.0%				194.21
	cost for one each				1488.97
	say				1488.97
	Say				1488.97

68. Specification Code: od219815/2019_2020

od219815/2019_2020 :Supply and install Zoloto or approved equivalent 40mm full bore forged brass ball valve including all necessary fittings.

Code	Description	Unit	Quantity	Rate	Amount
	Rate for each item				
MR	supply of Zoloto 40mm full bore forged brass ball valve	each	1.00000	1602.00	1602.00
MR	50mm male threaded adaptor	each	2.00000	38.00	76.00
MR	50mm dia union	each	2.00000	72.00	144.00
9988	Carriage and sundries	L.S	14.06000	3.0	42.18
	TOTAL				1864.18
	Add Water Charges @ 1%				18.64
	Add CPOH @ 15.0%				282.42
	cost for one each				2165.25
	say				2165.25
	Say				2165.25

69. Specification Code: od219816/2019_2020

od219816/2019_2020 :Supply and install Zoloto or approved equivalent 50mm full bore forged brass ball valve including all necessary fittings

Code	Description	Unit	Quantity	Rate	Amount
	Rate for each item				
MR	supply of Zoloto 50mm full bore forged brass ball valve	each	1.00000	2668.00	2668.00
MR	63mm male threaded adaptor	each	2.00000	47.00	94.00
MR	63mm dia union	each	2.00000	175.00	350.00
9988	Carriage and sundries	L.S	20.80000	3.0	62.40
	TOTAL				3174.40
	Add Water Charges @ 1%				31.74
	Add CPOH @ 15.0%				480.92
	cost for one each				3687.07
	say				3687.07
	Say				3687.07

70. Specification Code: 18.19.4.2

18.19.4.2	Providing and fixing gun metal non-return valve of approved quality (screwed end):50 mm nominal boreVertical
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Code	Description	Unit	Quantity	Rate	Amount
3092	Gunmetal non-return valve-vertical (screwed end) 50 mm dia	each	1.00000	1200.00	1200.00
9988	Carriage and sundries of materials and fixing charge	L.S	17.55000	3.00	52.65
	TOTAL				1252.65
	Add Water Charge @ 1.0%				12.53
	TOTAL				1265.18
	Add CPOH @ 15.0%				189.78
	cost for one each				1454.95
	say				1454.95

71. Specification Code: 50.18.8.6.2

50.18.8.6.2	Providing and fixing PVC pipes, fittings including fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step PVC solvent cement and testing of joints complete as
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	per direction of Engineer-in-Charge. Concealed work, including cutting chases and making good the wall etc. 50 mm pipe 6 kgf/cm2
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Code	Description	Unit	Quantity	Rate	Amount
MR49	PVC pipe 50 mm outer dia.6kgf/cm2 (Adding 30% for fittings and wastage)\$Making chases upto 7.5x7.5 cm in walls and making good the same \$	metre	13.00000	62.00	806.00
18.78	Making chases up to 7.5x7.5 cm in walls including making good and finishing with matching surface after housing G.II pipe etc.	metre	10.00000	175.20	1752.00
0116	Fitter(grade1)	Day	0.33000	950.00	313.50
0117	Assistant Fitter or 2nd class fitter	Day	0.66000	900.00	594.00
0114	Beldar	Day	0.66000	900.00	594.00
	TOTAL				4059.5
	Add Water Charge @ 1.0%				40.59
	TOTAL				4100.09
	Add CPOH @ 15.0%				615.01
	cost for 10.0 metre				4715.11
	cost for one metre				471.51
	say				471.5

72. Specification Code: 50.18.9.8.1

50.18.9.8.1	Providing and fixing PVC pipes including jointing of pipes with one step PVC solvent cement, trenching, refilling & testing of joints complete as per direction of Engineer in Charge. 75 mm dia 6 Kg/ cm2
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Code	Description	Unit	Quantity	Rate	Amount
MR52	PVC pipe 75 mm outer dia 6kgf/cm2 Add 5% for wastage etc. on (A)	metre	10.50000	125.00	1312.50
0116	Fitter(grade1)	Day	0.25000	950.00	237.50
0114	Beldar \$Trenching and refilling etc.	Day	0.66000	900.00	594.00
0114	Beldar	Day	0.66000	900.00	594.00
0115	Coolie	Day	0.66000	800.00	528.00
	TOTAL				3266.0

	Add Water Charge @ 1.0%				32.66
	TOTAL				3298.66
	Add CPOH @ 15.0%				494.8
	cost for 10.0 metre				3793.46
	cost for one metre				379.35
	say				379.35

73. Specification Code: 50.18.9.9.1

50.18.9.9.1	Providing and fixing PVC pipes including jointing of pipes with one step PVC solvent cement, trenching, refilling & testing of Joints complete as per direction of engineer in charge. 110 mm dia 6Kgf/cm2
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Code	Description	Unit	Quantity	Rate	Amount
MR54	PVC pipe 110 mm outer dia 6kgf/cm2 Add 5% for wastage etc.on (A)	metre	10.50000	236.00	2478.00
0116	Fitter(grade1)	Day	0.37000	950.00	351.50
0114	Beldar Trenching and refilling etc.	Day	0.97000	900.00	873.00
0114	Beldar	Day	0.80000	900.00	720.00
0115	Coolie	Day	0.80000	800.00	640.00
	TOTAL				5062.5
	Add Water Charge @ 1.0%				50.63
	TOTAL				5113.13
	Add CPOH @ 15.0%				766.97
	cost for 10.0 metre				5880.09
	cost for one metre				588.01
	say				588.0

74. Specification Code: 50.18.9.19.1

50.18.9.19.1	Providing and fixing PVC pipes including fixing the pipe with clamps/ clips/ at 1.00 m spacing . This includes jointing of pipes with one step PVC solvent cement and testing of joints complete as per direction of Engineer-in-Charge 110 mm dia 6 Kgf/cm2 - External work- Exposed on wall
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Code	Description	Unit	Quantity	Rate	Amount
MR54	PVC pipe 110 mm outer dia 6kgf/cm2 (5% added for wastage etc)	metre	10.50000	236.00	2478.00
9999	Sundries Carriage of materials	L.S	22.53000	3.00	67.59
9999	Sundries Adhesive, and sundries etc	L.S	10.27000	3.00	30.81
0116	Fitter(grade1)	Day	0.32000	950.00	304.00
0114	Beldar	Day	0.62000	900.00	558.00
0100	Bandhani	Day	0.13000	800.00	104.00
9999	Sundries Scaffolding etc.	L.S	30.98000	3.00	92.94
	TOTAL				3635.34
	Add Water Charge @ 1.0%				36.35
	TOTAL				3671.69
	Add CPOH @ 15.0%				550.75
	cost for 10.0 metre				4222.45
	cost for one metre				422.25
	say				422.25

75. Specification Code: 50.18.9.10.1

50.18.9.10.1	Providing and fixing PVC pipes includings jointing of pipes with one step pvc solvent cement, trenching , refilling & testing of joints complete as per direction of Engineer in Charge. 150 mm dia 6 Kgf/cm2
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Code	Description	Unit	Quantity	Rate	Amount
MR56	PVC pipe 150 mm outer dia 6kgf/cm2 Add 5% for wastage etc. on (A)	metre	10.50000	450.00	4725.00
0116	Fitter(grade1)	Day	0.37000	950.00	351.50
0114	Beldar Trenching and refilling etc.	Day	0.97000	900.00	873.00
0114	Beldar	Day	0.80000	900.00	720.00
0115	Coolie	Day	0.80000	800.00	640.00
	TOTAL				7309.5

	Add Water Charge @ 1.0%				73.1
	TOTAL				7382.6
	Add CPOH @ 15.0%				1107.39
	cost for 10.0 metre				8489.98
	cost for one metre				849.00
	say				849.0

76. Specification Code: od21104/2019_2020

od21104/2019_2020 :Providing and fixing PVC pipes including fixing the pipe with clamps/ clips/ at 1.00 m spacing. This includes jointing of pipes with one step PVC solvent cement and testing of joints complete as per the direction of Engineer-in-Charge 160 mm dia 6 Kg/cm² - External work- Exposed on wall

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 10.00 meter MATERIALS:				
MR56	PVC pipe 150 mm outer dia 6kg/cm ²	metre	10.50000	450.0	4725.00
9999	Sundries Carriage of materials	L.S	33.80000	3.0	101.40
9999	Sundries Adhesive, and sundries etc	L.S	15.41000	3.0	46.23
0116	Fitter(grade1) 	Day	0.37000	950.0	351.50
0114	Beldar 	Day	0.97000	900.0	873.00
0100	Bandhani 	Day	0.13000	800.0	104.00
9999	Sundries Scaffolding etc.	L.S	30.98000	3.0	92.94
	TOTAL				6294.07
	Add Water Charges @ 1%				62.94
	Add CPOH @ 15.0%				953.55
	cost for 10.0 metre				7310.56
	cost for one metre				731.06
	say				731.06
	Say				731.06

77. Specification Code: od20996/2019_2020

od20996/2019_2020 :Extra over for Providing and laying cement concrete 1:5:10 (1 cement : 5 coarse sand : 10

graded stone aggregate 40 mm nominal size) all - round underground PVC pipes.

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 1 cu.m				
4.1.10	Rate as per item number 4.1.10 of SH: Concrete work 	cum	1.00000	7452.6486	7452.65
	TOTAL				7452.65
	Add Water Charges @ 1%				74.53
	Add CPOH @ 15.0%				1129.08
	cost for one cum				8656.25
	say				8656.25
	Say				8656.25

78. Specification Code: 19.4.3.2

19.4.3.2	Providing and fixing square-mouth S.W. gully trap class SP -1 complete with C.I. grating brick masonry chamber with water tight C.I. cover with frame of 300x300 mm size (inside) the weight of cover to be not less than 4.50 kg and frame to be not less than 2.70 kg as per standard design: 180x150 mm size P type With sewer bricks conforming to IS: 4885
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Code	Description	Unit	Quantity	Rate	Amount
1904	S.W. gully trap P type 180x150 mm	each	1.00000	273.00	273.00
1367	C.I. grating 180x180 mm	each	1.00000	41.00	41.00
1352	C.I. Cover and frame 300X300 mm inside	each	1.00000	383.00	383.00
9977	Carriage of materials Cement concrete 1:5:10 (1 cement : 5 fine sand : 10 grades stone aggregate 40 mm nominal size) 0.68 x 0.68 x 0.10 m = 0.456 cum Concrete around trap 0.30x0.30x0.675 m = 0.061 cum Total = 0.107 cum Deduct: $0.55/3 \times [0.09+0.032+(0.09 \times 0.032)/2] = 0.008$ cum $3.14/4 \times (0.182)^2 \times 0.70 = 0.018$ cum Total = 0.026 cum Net quantity = 0.107 cum (-) 0.026 cum = 0.081 cum Say 0.08 cum	L.S	4.50000	3.00	13.50

4.1.11	1:5:10 (1 cement : 5 fine sand : 10 graded stone aggregate 40 mm nominal size) Brice work with sewer bricks conforming to IS: 4885. in cement mortar 1:4 (1 cement : 4 coarse sand) 1.66 x 0.115 x 0.675 m = 0.129 cum say 0.13 cum	cum	0.08000	6373.61	509.89
6.36.1	Cement Mortar 1:4 (1 cement : 4 coarse sand) Cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) 1.66x0.115x0.04 m = 0.008 cum	cum	0.13000	5632.58	732.24
4.2.3	1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) 12 mm cement plaster 1:3 (1 cement : 3coarse sand) finished with floating coat of neat cement : [12 mm cement plaster 1:3 (1 cement : 3coarse sand) finished with floating coat of neat cement : [1/2x0.166x(1.20+0.072)] = 0.159 sqm say 0.16 sqm	cum	0.00800	9675.92	77.41
13.9.1	12 mm cement plaster	sqm	0.16000	376.65	60.26
	TOTAL				2090.3
	Add Water Charge @ 1.0%				20.9
	TOTAL				2111.2
	Add CPOH @ 15.0%				316.68
	cost for one each				2427.88
	say				2427.9

FRONT GATE WITH SECURITY CABIN CIVIL WORKS

1. Specification Code: 2.6.1

2.6.1	Earth work in excavation by mechanical means (Hydraulic excavator)/manual means over areas (exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on plan) including disposal of excavated earth, lead up to 50 m and lift up to 1.5 m, disposed earth to be levelled and neatly dressed.All kinds of soil
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Code	Description	Unit	Quantity	Rate	Amount
0020	Hydraulic Excavator (3D) with driver and fuel	Day	0.04100	7986.00	327.43

0018	Hire and running charges of loader LABOUR:	Day	0.04100	6736.00	276.18
0128	Mate Beldar/	Day	0.32000	850.00	272.00
0115	Coolie	Day	1.20000	800.00	960.00
	TOTAL				1835.6
	Add Water Charge @ 1.0%				18.36
	TOTAL				1853.96
	Add CPOH @ 15.0%				278.09
	cost for 10.0 cum				2132.05
	cost for one cum				213.21
	say				213.2

2. Specification Code: 2.25

2.25	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundation etc. in layers not exceeding 20 cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift up to 1.5 m.
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Code	Description	Unit	Quantity	Rate	Amount
0128	Mate	Day	0.20000	850.00	170.00
0115	Coolie	Day	2.50000	800.00	2000.00
0101	Bhisti	Day	0.20000	800.00	160.00
	TOTAL				2330.0
	Add Water Charge @ 1.0%				23.3
	TOTAL				2353.3
	Add CPOH @ 15.0%				353.0
	cost for 10.0 cum				2706.30
	cost for one cum				270.63
	say				270.65

3. Specification Code: 4.1.8

4.1.8	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level:1:4:8 (1 cement : 4 coarse sand : 8 graded stone aggregate 40 nominal size)
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Code	Description	Unit	Quantity	Rate	Amount
0293	Stone Aggregate(single size): 40 mm nominal size nominal size\$(0.70 cum -7.5% for voids i.e. 0.05 =0.65 cum)	cum	0.65000	2500.00	1625.00
0295	Stone Aggregate(single size):20 mm nominal size nominal size	cum	0.24000	2500.00	600.00
2206	Stone aggregate 40 mm nominal size and above	cum	0.65000	0.00	.00
2202	Stone aggregate below 40 mm nominal size	cum	0.24000	0.00	.00
0982	Coarse sand (zone III)	cum	0.47000	1892.00	889.24
2203	Coarse sand	cum	0.47000	0.00	.00
0367	Portland Cement	tonne	0.17000	7392.00	1256.64
2209	Cement LABOUR:	tonne	0.17000	0.00	.00
0155	Mason (average)	Day	0.10000	950.00	95.00
0114	Beldar	Day	1.63000	900.00	1467.00
0101	Bhisti	Day	0.70000	800.00	560.00
0002	Hire charges of Concrete Mixer 0.25 to 0.40 cum with Hopper	Day	0.07000	2112.00	147.84
0012	Vibrator (Needle type 40 mm)	Day	0.07000	440.00	30.80
9999	Sundries	L.S	13.52000	3.00	40.56
	TOTAL				6712.08
	Add Water Charge @ 1.0%				67.12
	TOTAL				6779.2
	Add CPOH @ 15.0%				1016.88
	cost for one cum				7796.08
	say				7796.1

4. Specification Code: 4.3.1

4.3.1	Centering and shuttering including strutting, propping etc. and removal of form work for:Foundations,
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	footings, bases for columns
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Code	Description	Unit	Quantity	Rate	Amount
7319	wall form panel 1250x500 mm Qty taken for cost of using once = $16 \times 0.85 / 40 = 0.34$	each	0.34000	1188.00	403.92
7326	Corner angle 45x45x5 mm 1.50 m long Qty taken for cost of using once = $4 \times 0.85 / 40 = 0.085$	each	0.08500	295.00	25.08
7327	100 mm channel shoulder 2.5 m long Qty taken for cost of using once = $8 \times 0.85 / 40 = 0.17$	each	0.17000	1140.00	193.80
7328	Double clip (bridge clip) Qty taken for cost of using once = $16 \times 0.85 / 40 = 0.34$	each	0.34000	95.00	32.30
7329	Single clip Qty taken for cost of using once = $8 \times 0.85 / 40 = 0.17$	each	0.17000	76.00	12.92
7330	M.S. Tube 40 mm dia M.S. tube 40 mm dia $4 \times 2.7 \text{ m} = 10.8 \text{ m}$ qty taken for cost of using once = $10.8 \times 0.85 / 40 = 0.2295$	metre	0.22950	275.00	63.11
9999	Sundries Assembly nuts & bolts	L.S	22.10000	3.00	66.30
9977	Carriage LABOUR	L.S	78.00000	3.00	234.00
0116	Fitter(grade1)	Day	0.75000	950.00	712.50
0114	Beldar	Day	1.50000	900.00	1350.00
9999	Sundries Shuttering oil	L.S	52.00000	3.00	156.00
9999	Sundries	L.S	26.00000	3.00	78.00
	TOTAL				3327.93
	Add Water Charge @ 1.0%				33.28
	TOTAL				3361.21
	Add CPOH @ 15.0%				504.18
	cost for 10.8 sqm				3865.39
	cost for one sqm				357.91
	say				357.9

5. Specification Code: 4.11

4.11	Providing and laying damp-proof course 50 mm thick with cement concrete 1:2:4(1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size).
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Code	Description	Unit	Quantity	Rate	Amount
4.1.3	1:2:4 (cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) Add for delay:	cum	0.50000	7839.72	3919.86
0123	Mason (brick layer) 1st class	Day	0.40000	1000.00	400.00
0124	Mason (brick layer)2nd class	Day	0.40000	950.00	380.00
9999	Sundries (Form work etc.)	L.S	13.52000	3.00	40.56
	TOTAL				4740.42
	Add Water Charge @ 1.0%				47.4
	TOTAL				4787.82
	Add CPOH @ 15.0%				718.17
	cost for 10.0 sqm				5506.00
	cost for one sqm				550.60
	say				550.6

6. Specification Code: 5.9.3

5.9.3	Centering and shuttering including strutting, etc. and removal of form for:Suspended floors, roofs, landings, balconies and access platform
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Code	Description	Unit	Quantity	Rate	Amount
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 approved steel primer all complete.	kilogram	9.20550	76.58	704.96
7342	Adjustable span ESO+SI (2.35-3.40) Qty taken for cost using once = $5 \times 0.85 / 40 = 0.1063$	each	0.10630	1867.00	198.46
7343	Adjustable telescopic prop 3 m (2.02-3.75m) Qty taken for cost using once = $6 \times 0.85 / 40 = 0.1275$	each	0.12750	1179.00	150.32

9999	Sundries Assembly nut & bolts etc.\$Qty taken for cost using once =\$1040x0.85/40 = 22.10	L.S	22.10000	3.00	66.30
9999	Sundries Carriage \$LABOUR:\$Fitter (grade 1)	L.S	130.00000	3.00	390.00
0116	Fitter(grade1)	Day	3.00000	950.00	2850.00
0114	Beldar	Day	6.00000	900.00	5400.00
9999	Sundries Shuttering oil	L.S	78.00000	3.00	234.00
9999	Sundries paper tape etc	L.S	49.70000	3.00	149.10
	TOTAL				10143.1
	Add Water Charge @ 1.0%				101.43
	TOTAL				10244.53
	Add CPOH @ 15.0%				1536.68
	cost for 13.5 sqm				11781.21
	cost for one sqm				872.68
	say				872.7

Other Engineering Organisations

PRICE

7. Specification Code: 5.9.5

5.9.5	Centering and shuttering including strutting, etc. and removal of form for:Lintels, beams, plinth beams, girders bressumers and cantilevers
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Code	Description	Unit	Quantity	Rate	Amount
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 approved steel primer all complete.	kilogram	6.43560	76.58	492.84
7343	Adjustable telescopic prop 3 m (2.02-3.75m) Qty taken for using once = 6x0.85/40 = 0.1275m	each	0.12750	1179.00	150.32
7344	Beam clamp 300-380 mm (450-1070 mm) Qty taken for cost of using once = 5x0.85/40 = 0.1063 m	each set	0.10630	414.00	44.01
9999	Sundries Assembly nut & bolts etc.\$Qty taken for cost of using once = \$1040x0.85/40 = 22.10	L.S	22.10000	3.00	66.30

9999	Sundries Carriage \$LABOUR:	L.S	78.00000	3.00	234.00
0116	Fitter(grade1)	Day	1.25000	950.00	1187.50
0114	Beldar	Day	2.50000	900.00	2250.00
9999	Sundries Shuttering oil	L.S	39.00000	3.00	117.00
9999	Sundries paper tape etc	L.S	24.61000	3.00	73.83
	TOTAL				4615.77
	Add Water Charge @ 1.0%				46.16
	TOTAL				4661.93
	Add CPOH @ 15.0%				699.29
	cost for 7.8 sqm				5361.22
	cost for one sqm				687.34
	say				687.35

8. Specification Code: 5.9.16.1

5.9.16.1	Centering and shuttering including strutting, etc. and removal of form for: Edges of slabs and breaks in floors and walls Under 20 cm wide
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Code	Description	Unit	Quantity	Rate	Amount
1198	Second class kail wood in planks (i) Planks 30 mm thick (2nd class Kail wood or equivalent local soft wood) $4 \times 3 \times 0.15 \times 0.030 = 0.54$ cum \$Wastage @ 5% = 0.003 cum. \$Total = 0.057 cum 57 cudm \$Qty taken for cost of using once = $57/8$ \$ = 7.125 cudm	10 cud m	7.12500	35.20	250.80
1197	Second class kail wood in scantling (ii) Battens 75 mm x 100 mm (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 $16 \times 0.25 \times 0.07 \times 0.075 = 0.0225$ \$Total = 0.1479 \$Wastage @ 5% = 0.0074 \$Total = 0.1553 cum = 155 cudm \$Qty taken for cost of using once = $155/8$ \$ = 19.375 cudm	10 cud m	19.37500	35.20	682.00

2204	Timber Planks = 0.057 cum.\$Batte4ns = 0.057 cum.\$Total = 0.212 cum.\$Qty taken for cost of using once = 0.212/8 =0.0265 cum\$LABOUR:\$For assembling erection dismantling & cleaning	cum	0.02650	0.00	.00
0112	Carpenter 2nd class	Day	0.81000	900.00	729.00
0114	Beldar	Day	0.54000	900.00	486.00
9999	Sundries	L.S	5.20000	3.00	15.60
	TOTAL				2163.4
	Add Water Charge @ 1.0%				21.63
	TOTAL				2185.03
	Add CPOH @ 15.0%				327.76
	cost for 12.0 metre				2512.79
	cost for one metre				209.40
	say				209.4

9. Specification Code: 5.22.6

Other Engineering Organisations

5.22.6	Steel reinforcement for R.C.C work including straightening, cutting, bending, placing in position and binding all complete upto plinth levelThermo - Mechanically Treated bars of grade Fe-500D or more
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Code	Description	Unit	Quantity	Rate	Amount
1005	Twisted steel/deformed bars	quintal	1.05000	6390.00	6709.50
2205	Steel	tonne	0.10500	0.00	.00
9999	Sundries Cover block\$LABOUR:\$For straightening, bending binding and placing in postion	L.S	26.00000	3.00	78.00
0102	Blacksmith 1st class	Day	1.00000	950.00	950.00
0114	Beldar	Day	1.00000	900.00	900.00
9999	Sundries	L.S	26.91000	3.00	80.73
	TOTAL				8718.23
	Add Water Charge @ 1.0%				87.18
	TOTAL				8805.41
	Add CPOH @ 15.0%				1320.81

	cost for 100.0 kilogram				10126.22
	cost for one kilogram				101.26
	say				101.25

10. Specification Code: 5.33.2

5.33.2	Providing and laying in position machine batched and machine mixed design mix M-25 grade cement concrete for reinforced cement concrete work, using cement content as per approved design mix, including pumping of concrete to site of laying but excluding the cost of centering, shuttering, finishing and reinforcement, including admixtures in recommended proportions as per IS: 9103 to accelerate, retard setting of concrete, improve workability without impairing strength and durability as per direction of Engineer - in-charge. Note:- Cement content considered in this item is @ 330 kg/ cum. Excess or less cement used as per design mix is payable or recoverable separately.All work above plinth level upto floor V level
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Code	Description	Unit	Quantity	Rate	Amount
0295	Stone Aggregate(single size):20 mm nominal size	cum	0.57000	2500.00	1425.00
0297	Stone Aggregate(single size): 10 mm nominal size	cum	0.28000	2790.00	781.20
2202	Stone aggregate below 40 mm nominal size	cum	0.85000	0.00	.00
0982	Coarse sand (zone III)	cum	0.42500	1892.00	804.10
2203	Coarse sand	cum	0.42500	0.00	.00
0367	Portland Cement	tonne	0.33000	7392.00	2439.36
2209	Cement	tonne	0.33000	0.00	.00
7318	Plasticizer / super plasticizer 0.50% of cement \$Production cost, pumping to respective floors and laying in position	kilogram	1.65000	54.00	89.10
0004	Production cost of concrete by batch mix plant	cum	1.00000	528.00	528.00
0009	Pumping charges of concrete including Hire charges of pump, piping work & accessories etc. LABOUR:\$Labour for pouring, consolidation & curing	cum	1.00000	239.00	239.00
0155	Mason (average)	Day	0.17000	950.00	161.50
0114	Beldar	Day	2.00000	900.00	1800.00
0101	Bhisti	Day	0.90000	800.00	720.00
0012	Vibrator (Needle type 40 mm)	Day	0.07000	440.00	30.80

9999	Sundries Extra labour for lifting up to floor five level \$0.75 x 2.5 = 1.88	L.S	13.00000	3.00	39.00
0115	Coolie	Day	1.88000	800.00	1504.00
	TOTAL				10561.06
	Add Water Charge @ 1.0%				105.61
	TOTAL				10666.67
	Add CPOH @ 15.0%				1600.0
	cost for one cum				12266.67
	say				12266.65

11. Specification Code: 7.1.1

7.1.1	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) up to plinth level with: Cement mortar 1:6 (1 cement : 6 coarse sand)
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Code	Description	Unit	Quantity	Rate	Amount
1157	Stone for masonry work	cum	1.00000	1965.00	1965.00
1154	Through and bond stone size 24 x 24 x 39cm CARRIAGE:	100 nos	7.00000	15.14	105.98
2215	Soling stone & masonry stone 7.00x24cmx39cm = 0.16 cum 1.00 cum + 0.16 cum. = 1.16 cum Cement mortar 1:6 (1 cement : 6 Coarse sand)	cum	1.16000	0.00	.00
3.11	Cement mortar 1:6 (1 cement : 6 coarse sand). LABOUR:	cum	0.33000	5487.77	1810.96
0125	Mason (for plain stone work) 2nd class	Day	1.07000	950.00	1016.50
0114	Beldar	Day	1.07000	900.00	963.00
0115	Coolie	Day	0.71000	800.00	568.00
0101	Bhisti	Day	0.09000	800.00	72.00
9999	Sundries Cement concrete 1:6:12	L.S	45.76000	3.00	137.28
9999	Sundries	L.S	4.42000	3.00	13.26
	TOTAL				6651.99

	Add Water Charge @ 1.0%				66.52
	TOTAL				6718.51
	Add CPOH @ 15.0%				1007.78
	cost for one cum				7726.28
	say				7726.3

12. Specification Code: 50.6.1.8

50.6.1.8	Solid block masonry using pre cast solid blocks (Factory made) of size 40x20x15cm or nearest available size confirming to IS 2185 part I of 1979 for super structure up to floor two level with thickness 15cm in: CM 1:6 (1 cement : 6 coarse sand etc complete
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Code	Description	Unit	Quantity	Rate	Amount
MR3	Solid blocks of size 40x20x15cm	each	78.00000	33.00	2574.00
3.11	Cement mortar 1:6 (1 cement : 6 coarse sand).	cum	0.08150	5487.77	447.25
9999	Sundries	L.S	2.73000	3.00	8.19
0123	Mason (brick layer) 1st class	Day	0.53000	1000.00	530.00
0124	Mason (brick layer)2nd class	Day	0.53000	950.00	503.50
0115	Coolie	Day	1.90000	800.00	1520.00
0101	Bhisti	Day	0.45000	800.00	360.00
9999	Sundries	L.S	22.36000	3.00	67.08
	TOTAL				6010.02
	Add Water Charge @ 1.0%				60.1
	TOTAL				6070.12
	Add CPOH @ 15.0%				910.52
	cost for one cum				6980.64
	say				6980.65

13. Specification Code: 13.4.1

13.4.1	12 mm cement plaster of mix:1:4 (1 cement : 4 coarse sand)
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Code	Description	Unit	Quantity	Rate	Amount
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3.9	Cement mortar 1.4 (1 cement : 4 coarse sand). LABOUR:	cum	0.14400	6603.93	950.97
0155	Mason (average)	Day	0.67000	950.00	636.50
0115	Coolie	Day	0.75000	800.00	600.00
0101	Bhisti	Day	0.92000	800.00	736.00
9999	Sundries Scaffolding and	L.S	12.61000	3.00	37.83
	TOTAL				2961.3
	Add Water Charge @ 1.0%				29.61
	TOTAL				2990.91
	Add CPOH @ 15.0%				448.64
	cost for 10.0 sqm				3439.55
	cost for one sqm				343.96
	say				343.95

14. Specification Code: 13.4.2

13.4.2	12 mm cement plaster of mix:1:6 (1 cement : 6 coarse sand)
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Code	Description	Unit	Quantity	Rate	Amount
3.11	Cement mortar 1:6 (1 cement : 6 coarse sand). LABOUR:	cum	0.14400	5487.77	790.24
0155	Mason (average)	Day	0.67000	950.00	636.50
0115	Coolie	Day	0.75000	800.00	600.00
0101	Bhisti	Day	0.92000	800.00	736.00
9999	Sundries Scaffolding and sundries	L.S	12.61000	3.00	37.83
	TOTAL				2800.57
	Add Water Charge @ 1.0%				28.01
	TOTAL				2828.58
	Add CPOH @ 15.0%				424.29
	cost for 10.0 sqm				3252.86
	cost for one sqm				325.29

	say				325.3
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15. Specification Code: 13.16.1

13.16.1	6 mm cement plaster of mix:1:3 (1 cement : 3 fine sand)
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Code	Description	Unit	Quantity	Rate	Amount
3.3	Cement mortar 1:3 (1 cement : 3 fine sand) LABOUR:	cum	0.07200	7643.03	550.30
0155	Mason (average)	Day	0.51000	950.00	484.50
0115	Coolie	Day	0.75000	800.00	600.00
0101	Bhisti	Day	0.92000	800.00	736.00
9999	Sundries Extra for removing burrs, cleaning with wire brushes, pock making with pointed tool etc.	L.S	13.39000	3.00	40.17
9999	Sundries Scaffolding and sundries.	L.S	11.70000	3.00	35.10
	TOTAL				2446.07
	Add Water Charge @ 1.0%				24.46
	TOTAL				2470.53
	Add CPOH @ 15.0%				370.58
	cost for 10.0 sqm				2841.11
	cost for one sqm				284.11
	say				284.1

16. Specification Code: 11.41.2

11.41.2	Providing and laying vitrified floor tiles in different sizes (thickness to be specified by the manufacturer) with water absorption less than 0.08% and conforming to IS : 15622, of approved make, in all colours and shades, laid on 20 mm thick cement mortar 1:4(1 cement : 4 coarse sand), including grouting the joints with white cement and matching pigments etc., complete. Size of Tile 600 x 600 mm.
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Code	Description	Unit	Quantity	Rate	Amount
8621	Vitrified floor tile 60x60 cm	sqm	1.02500	865.00	886.62

9977	Carriage of tiles 20 mm thick cement mortar 1:4 (1 cement : 4 coarse sand)	L.S	6.24000	3.00	18.72
3.9	Cement mortar 1.4 (1 cement : 4 coarse sand). 20 mm thick cement mortar 1:4(1 cement: coarse sand)	cum	0.02400	6603.93	158.49
9999	Sundries Mortar for pointing in white cement Cement for slurry over bed @ 3.3 kg per sqm	L.S	3.64000	3.00	10.92
0367	Portland Cement LABOUR:	tonne	0.00330	7392.00	24.39
0123	Mason (brick layer) 1st class	Day	0.20000	1000.00	200.00
0115	Coolie	Day	0.20000	800.00	160.00
9988	Carriage and sundries of cement etc	L.S	26.91000	3.00	80.73
	TOTAL				1539.88
	Add Water Charge @ 1.0%				15.4
	TOTAL				1555.28
	Add CPOH @ 15.0%				233.29
	cost for one sqm				1788.57
	say				1788.55

17. Specification Code: 13.43.1

13.43.1	Applying one coat of water thinnable cement primer of approved brand and manufacture on wall surface:Water thinnable cement primer
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Code	Description	Unit	Quantity	Rate	Amount
0808	Water thinnable cement primer for interior wall surface, having VOC content less than 50 gms/litre	Litre	0.70000	79.00	55.30
9999	Sundries Brushes, putty etc. LABOUR:	L.S	7.15000	3.00	21.45
0131	Painter	Day	0.40000	850.00	340.00
0115	Coolie	Day	0.20000	800.00	160.00

9988	Carriage and sundries	L.S	8.06000	3.00	24.18
	TOTAL				600.93
	Add Water Charge @ 1.0%				6.01
	TOTAL				606.94
	Add CPOH @ 15.0%				91.04
	cost for 10.0 sqm				697.98
	cost for one sqm				69.80
	say				69.8

18. Specification Code: 13.80

13.80	Providing and applying white cement based putty of average thickness 1 mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete.
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Code	Description	Unit	Quantity	Rate	Amount
0824	White cement based putty 10x0.001x1429 = 14.29 kg Add 2% wastage = 0.29 kg Total = 14.58 kg Say 14.58 kg	kg	14.58000	33.00	481.14
9977	Carriage LABOUR:	L.S	3.90000	3.00	11.70
0122	Mason(for plaster of paris work) 1st class	Day	0.45000	1000.00	450.00
0114	Beldar	Day	0.45000	900.00	405.00
9999	Sundries Scaffolding and sundries	L.S	40.00000	3.00	120.00
	TOTAL				1467.84
	Add Water Charge @ 1.0%				14.68
	TOTAL				1482.52
	Add CPOH @ 15.0%				222.38
	cost for 10.0 sqm				1704.90
	cost for one sqm				170.49
	say				170.5

19. Specification Code: 13.82.2

13.82.2	Wall painting with acrylic emulsion paint, having VOC (Volatile Organic Compound) content less than 50 grams/ litre, of approved brand and manufacture including applying additional coats wherever required, to achieve even shade and colour.Two coats
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Code	Description	Unit	Quantity	Rate	Amount
0803	Acrylic emulsion, having VOC content less than 50 gm/litre	Litre	0.84000	309.00	259.56
9999	Sundries	L.S	1.43000	3.00	4.29
9977	Carriage Brushes, putty etc.LABOUR:	L.S	6.76000	3.00	20.28
0131	Painter	Day	0.54000	850.00	459.00
0115	Coolie	Day	0.54000	800.00	432.00
9999	Sundries Brushes, sand paper etc.	L.S	10.79000	3.00	32.37
9999	Sundries	L.S	6.76000	3.00	20.28
	TOTAL				1227.78
	Add Water Charge @ 1.0%				12.28
	TOTAL				1240.06
	Add CPOH @ 15.0%				186.01
	cost for 10.0 sqm				1426.07
	cost for one sqm				142.61
	say				142.6

20. Specification Code: 9.48.2

9.48.2	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.Fixed to openings/ wooden frames with rawl plugs screws etc
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Code	Description	Unit	Quantity	Rate	Amount
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1003	Mild Steel round bar above 12 mm dia M.S. bar \$M.S. flat 25x3.15 mm \$2x120cm = 2.40 m+\$2x90cm = 1.80 m +\$1x120cm = 1.20m+\$2x15cm = 0.30 m \$Total = 5.70m\$5.70m @ 0.63kg/m = 3.59kg+	quintal	0.16500	5820.00	960.30
1008	Flats up to 10 mm in thickness	quintal	0.04000	5016.00	200.64
2205	Steel Carriage of steel \$0.165 + 0.04 = 0.205 q = 0.0205 t Say 0.02 \$tonne	tonne	0.02000	0.00	.00
9999	Sundries	L.S	26.91000	3.00	80.73
9999	Sundries Welding charges \$Priming coat: \$Area = 1x0.9x1.2x1=1.08 sqm	L.S	19.76000	3.00	59.28
13.50.3	With ready mixed red oxide zinc chromate primer of approved brand and manufacture on steel galvanised iron /steel works LABOUR:	sqm	1.08000	46.72	50.46
0102	Blacksmith 1st class	Day	0.86000	950.00	817.00
0114	Beldar	Day	1.10000	900.00	990.00
7048	Rawl plug 50 mm (designation 10 nos)	each	8.00000	10.00	80.00
9999	Sundries Fixing of rawl plugs	L.S	26.00000	3.00	78.00
	TOTAL				3316.41
	Add Water Charge @ 1.0%				33.16
	TOTAL				3349.57
	Add CPOH @ 15.0%				502.44
	cost for 18.54 kg				3852.01
	cost for one kg				207.77
	say				207.75

21. Specification Code: 9.147.5

9.147.5	Providing and fixing factory made uPVC white colour casement/casement cum fixed glazed windows comprising of uPVC multi-chambered frame, sash and mullion (where ever required) extruded profiles duly reinforced with 1.60 +/- 0.2mm 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, stainless steel (SS 304 grade) friction hinges, zinc alloy (white powder coated)
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	<p>casement handles, G.I fasteners 100 x 8mm size for fixing frame to finished wall, plastic packers, plastic caps and necessary stainless steel screws etc. Profile of frame & sash 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's 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 approved quality, all complete as per approved drawing & direction of Engineer-in-Charge. (Single / double glass panes and silicon sealant shall be paid separately)
 Note: For uPVC frame, sash and mullion extruded profiles minus 5% tolerance in dimension i.e. in depth & width of profile shall be acceptable. 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).</p>
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Code	Description	Unit	Quantity	Rate	Amount
8126	u PVC extruded (Big series) casement window frame size 67x60mm	metre	5.36000	479.00	2567.44
8128	uPVC extruded (big series) casement window sash/window mullion/ door mullion size 67x80 mm Window Sash = 7.71 M + Window Mullion = 1.42 M Total = 9.13 M	metre	9.13000	566.00	5167.58
8130	uPVC extruded glazing bead of appropriate dimension for big series casement window/door sash Galvanized iron reinforcement for :-	metre	7.34000	152.00	1115.68
3992	Galvanized iron (1.6 +/- 0.2mm) thick reinforcement for big series casement window/ door frame, sash mullion & small series sliding window frame Window Frame = 5.31 M + Window Sash = 7.11 M + Window Mullion = 1.41 M Total = 13.83 M	metre	13.83000	93.00	1286.19
7390	Neoprene / EPDM rubber gasket	metre	30.62000	25.00	765.50
3995	G. I fasteners 100 x 8 mm	each	12.00000	20.00	240.00
8758	Stainless steel friction hinge of size 350 mm x 19 x 1.9 mm for uPVC windows	each	4.00000	413.00	1652.00
8750	Zinc alloy (white powder coated) casement handle for uPVC windows	each	2.00000	158.00	316.00
9999	Sundries plastic packers, plastic caps, SS screws and carriage of material Labour	L.S	170.00000	3.00	510.00

0162	Labour for fabrication of uPVC extruded casement/sliding windows and doors including drilling holes, fixing of fittings & hardwares, hire charges of drill machine and electricity charges etc.	sqm	1.62000	800.00	1296.00
0163	Labour for installation of uPVC extruded casement/ sliding windows and doors including scaffolding	sqm	1.62000	750.00	1215.00
	TOTAL				16131.39
	Add Water Charge @ 1.0%				161.31
	TOTAL				16292.7
	Add CPOH @ 15.0%				2443.91
	cost for 1.62 sqm				18736.61
	cost for one sqm				11565.81
	say				11565.8

22. Specification Code: 21.3.2

21.3.2	Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with EPDM rubber / neoprene gasket etc. complete as per the architectural drawings and the directions of Engineer - in -Charge. (Cost of aluminium snap beading shall be paid in basic item):With float glass panes of 5.50 mm thickness
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Code	Description	Unit	Quantity	Rate	Amount
2407	Float glass sheet of nominla thickness 5.5 mm (weight not less than 13.50 Kg/ sqm)	sqm	1.10000	594.00	653.40
9977	Carriage of glass	L.S	3.33000	3.00	9.99
7390	Neoprene / EPDM rubber gasket LABOUR:	metre	6.00000	25.00	150.00
0112	Carpenter 2nd class	Day	0.23000	900.00	207.00
0114	Beldar	Day	0.23000	900.00	207.00
9999	Sundries Sundries and carriage of gasket	L.S	6.89000	3.00	20.67
	TOTAL				1248.06
	Add Water Charge @ 1.0%				12.48
	TOTAL				1260.54

	Add CPOH @ 15.0%				189.08
	cost for one sqm				1449.62
	say				1449.6

23. Specification Code: od219690/2019_2020

od219690/2019_2020 :Supply and fix fully finished Pre Hung Door:- Both side HP Laminate vertical grain pattern Flush door with matching PVC wrapped WPC Jamb with front side Architrave other side tackers. Door of 35mm thick with 4 side edges painted / Lock Hole Boring (Using mortise lock)/ Hinge Rebate Cutting (4 Nos) ,Jamb width 100 mm. Latch with Lever handles without Keys SS finish - 1 No, Hinges 4" x 3" x 3mm SS finish - 4 Nos .Tower Bolt 6" SS Finish - 1 No.(Jacsons or Approved equivalent)

Code	Description	Unit	Quantity	Rate	Amount
MR	HP Laminate vertical grain pattern Flush pre hung door	sqm	1.00000	6675.00	6675.00
MR	Cartage and sundries	sqm	1.00000	200.00	200.00
0156	Carpenter (average)	Day	0.54000	950.0	513.00
0114	Beldar	Day	0.54000	900.0	486.00
	TOTAL				7874.00
	Add Water Charges @ 1%				78.74
	Add CPOH @ 15.0%				1192.91
	cost for one sqm of door area				9145.65
	say				9145.65
	Say				9145.65

24. Specification Code: 10.2

10.2 Structural steel work riveted, bolted or welded in built up sections, trusses and framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete.

Code	Description	Unit	Quantity	Rate	Amount
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1007	Structural steel such as tees, angles, channels and R.S. joists (ii) Tiles (flats) 50x12mm:\$2x2.7 = 5.4 m @ 4.7 kg/m = 25.38kg+\$Ties central (flats):\$50x10mm 1x2.80 = 2.8 m @ 3.90 kg/m=10.92kg.+\$Braces (flats)40x 10 mm:\$2x1.84 = 3.68m @ 3.9 kg/m = 14.35 kg.\$Total = 50.65 kg+\$Add wastage @ 5% = 2.53kg\$Total = 53.18kg. = 0.53 qtl	quintal	1.60000	5148.00	8236.80
1009	Flats exceeding 10 mm in thickness (iii) Gusset plates 10 mm thick:\$1x0.74x0.35m = 0.259 sqm.+\$Shone 4x0.46x0.46 = 0.845 sqm.\$Total = 1.104 sqm.\$1.104 sqn @ 78.4 kg/m = 86.55 kg\$12 mm plates at the point of principal rafter and strut:\$2x0.3x0.2 = 0.12 sqm. +\$Tie beam. brace and strut:\$2x0.5x0.3 = 0.30 sqm. + \$Sole plates:2X0.46X0.46 = 0.42 sqm.+\$Anchor plate:2x0.46x0.1 = 0.09sqm.\$Total = 0.93 sqm. Say 1.00 sqm.\$1.00 sqm. @ 94.4 kg/m = 94.40 kg.\$Total = 180.95 kg\$Add wastage @ 5% = 9.05 kg.\$Total = 190.00kg or 1.90 q	quintal	0.53000	4840.00	2565.20
1010	Mild steel plates (iv) 16mm dia. 50 mm long rivets = 56 Nos.+ \$Add wastage @ 5 % = 2.8 Nos.\$Total = 58.8 Nos.\$	quintal	1.90000	5192.00	9864.80
1020	Mild steel rivets (v) 20 mm dia. holding down bolts \$4 Nos. x 460 mm = 1840mm +\$Add wastage @ 5% = 92 mm\$Total = 1932 mm	quintal	0.06840	6160.00	421.34
1221	20 mm dia holding down bolts	quintal	0.05290	7038.00	372.31
2205	Steel Carriage of steel\$(0.160+0.053+0.091+0.099+0.007+0.005) = 0.415 tonne\$LABOUR:	tonne	0.41500	0.00	.00
0116	Fitter(grade1)	Day	2.70000	950.00	2565.00
0103	Blacksmith 2nd class	Day	3.60000	900.00	3240.00
0139	Skilled Beldar (for floor rubbing etc.)	Day	5.40000	950.00	5130.00
0114	Beldar	Day	3.60000	900.00	3240.00
0100	Bandhani Applying priming coat:\$T Iron 9.5 x 0.4 = 3.80 sqm. +\$Struts 2.70 x 0.16 = 0.43 sqm.+\$Ties 5.4x0.124 = 0.67 sqm.+\$Braces 2 x 1.84 x 0.12 = 0.44 sqm. +\$Ties 2.8x0.12 = 0.34 sqm.\$Total = 5.68 sqm	Day	0.44000	800.00	352.00

13.50.3	With ready mixed red oxide zinc chromate primer of approved brand and manufacture on steel galvanised iron /steel works	sqm	5.68000	46.72	265.37
9999	Sundries	L.S	80.73000	3.00	242.19
	TOTAL				36495.01
	Add Water Charge @ 1.0%				364.95
	TOTAL				36859.96
	Add CPOH @ 15.0%				5528.99
	cost for 395.0 kg				42388.95
	cost for one kg				107.31
	say				107.3

25. Specification Code: 25.7

25.7	<p>Designing, fabricating, testing, installing and fixing in position Curtain Wall with Aluminium Composite Panel Cladding, with open grooves for linear as well as curvilinear portions of the building, for all heights and all levels etc. including: a) Structural analysis & design and preparation of shop drawings for pressure equalisation or rain screen principle as required, proper drainage of water to make it watertight including checking of all the structural and functional design. b) Providing, fabricating and supplying and fixing panels of aluminium composite panel cladding in pan shape in metallic colour of approved shades made out of 4mm thick aluminium composite panel material consisting of 3mm thick FR grade mineral core sandwiched between two Aluminium sheets (each 0.5mm thick). The aluminium composite panel cladding sheet shall be coil coated, with Kynar 500 based PVDF / Lumiflon based fluoropolymer resin coating of approved colour and shade on face # 1 and polymer (Service) coating on face # 2 as specified using stainless steel screws, nuts, bolts, washers, cleats, weather silicone sealant, backer rods etc. c) The fastening brackets of Aluminium alloy 6005 T5 / MS with Hot Dip Galvanised with serrations and serrated washers to arrest the wind load movement, fasteners, SS 316 Pins and anchor bolts of approved make in SS 316, Nylon separators to prevent bi-metallic contacts all complete required to perform as per specification and drawing. The item includes cost of all material & labour component, the cost of all mock ups at site, cost of all samples of the individual components for testing in an approved laboratory, field tests on the assembled working curtain wall with 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 drawings, as per item description, as specified, as per the approved shop drawings and as directed 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 be measured in sqm. up to two decimal places.</p>
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Code	Description	Unit	Quantity	Rate	Amount
2607	Weather Sealant - Non Staining (600 ml)	each	2.00000	546.00	1092.00
2608	Weather Sealant - Normal (300 ml)	each	2.00000	170.00	340.00
2609	MS Brackets / Aluminium Alloy Brackets	kg	10.00000	119.00	1190.00
2611	EPDM Gasket in kg(Above 60 g / m)	kg	0.70000	190.00	133.00
2612	Anchor Fastner - M10	each	2.00000	132.00	264.00
2613	SS Bolt with washer of sizes for structural glazing / ACP Cladding	each	2.00000	41.00	82.00
2614	SS Screws of sizes for structural glazing /ACP Cladding	each	49.00000	6.00	294.00
2615	Protective Tape	metre	7.00000	30.00	210.00
2630	Baker rod	metre	5.00000	6.00	30.00
2616	GI flashing - 1.2 mm thick	kg	4.00000	78.00	312.00
2631	4 mm thick ACP	sqm	7.06000	1426.00	10067.56
9999	Sundries	L.S	451.00000	3.00	1353.00
9999	Sundries (For Fabrication)	L.S	1895.3000 0	3.00	5685.90
9999	Sundries (For Installation)	L.S	1895.3000 0	3.00	5685.90
9999	Sundries (scaffolding / loading / unloading)	L.S	602.25000	3.00	1806.75
9999	Sundries (transportation)	L.S	473.83000	3.00	1421.49
9999	Sundries (Designing charges etc.)	L.S	328.15000	3.00	984.45
	TOTAL				30952.05
	Add Water Charge @ 1.0%				309.52
	TOTAL				31261.57
	Add CPOH @ 15.0%				4689.24
	cost for 6.72 sqm				35950.81
	cost for one sqm				5349.82
	say				5349.8

26. Specification Code: 13.84.2

13.84.2	Painting with synthetic enamel paint, having VOC (Volatile Organic Compound) content less than 150 grams/ litre, of approved brand and manufacture, including applying additional coats wherever required to achieve even shade and colour.Two coats
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Code	Description	Unit	Quantity	Rate	Amount
0805	Synthetic enamel paint, having VOC (Volatile Organic Compound content less than 150 gm/litre	Litre	0.84000	246.00	206.64
9977	Carriage	L.S	1.43000	3.00	4.29
9999	Sundries Material for filling in holes and cracks (putty) etc LABOUR:	L.S	5.33000	3.00	15.99
0131	Painter	Day	0.54000	850.00	459.00
0115	Coolie	Day	0.54000	800.00	432.00
9999	Sundries Brushes, sand paper etc.	L.S	6.76000	3.00	20.28
9999	Sundries	L.S	8.06000	3.00	24.18
	TOTAL				1162.38
	Add Water Charge @ 1.0%				11.62
	TOTAL				1174.0
	Add CPOH @ 15.0%				176.1
	cost for 10.0 sqm				1350.10
	cost for one sqm				135.01
	say				135.0

COMPOUND WALL
1. Specification Code: 2.6.1

2.6.1	Earth work in excavation by mechanical means (Hydraulic excavator)/manual means over areas (exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on plan) including disposal of excavated earth, lead up to 50 m and lift up to 1.5 m, disposed earth to be levelled and neatly dressed.All kinds of soil
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Code	Description	Unit	Quantity	Rate	Amount
0020	Hydraulic Excavator (3D) with driver and fuel	Day	0.04100	7986.00	327.43

0018	Hire and running charges of loader LABOUR:	Day	0.04100	6736.00	276.18
0128	Mate Beldar/	Day	0.32000	850.00	272.00
0115	Coolie	Day	1.20000	800.00	960.00
	TOTAL				1835.6
	Add Water Charge @ 1.0%				18.36
	TOTAL				1853.96
	Add CPOH @ 15.0%				278.09
	cost for 10.0 cum				2132.05
	cost for one cum				213.21
	say				213.2

2. Specification Code: 4.1.8

4.1.8	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level:1:4:8 (1 cement : 4 coarse sand : 8 graded stone aggregate 40 nominal size)
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Code	Description	Unit	Quantity	Rate	Amount
0293	Stone Aggregate(single size): 40 mm nominal size nominal size\$(0.70 cum -7.5% for voids i.e. 0.05 =0.65 cum)	cum	0.65000	2500.00	1625.00
0295	Stone Aggregate(single size):20 mm nominal size nominal size	cum	0.24000	2500.00	600.00
2206	Stone aggregate 40 mm nominal size and above	cum	0.65000	0.00	.00
2202	Stone aggregate below 40 mm nominal size	cum	0.24000	0.00	.00
0982	Coarse sand (zone III)	cum	0.47000	1892.00	889.24
2203	Coarse sand	cum	0.47000	0.00	.00
0367	Portland Cement	tonne	0.17000	7392.00	1256.64
2209	Cement LABOUR:	tonne	0.17000	0.00	.00
0155	Mason (average)	Day	0.10000	950.00	95.00
0114	Beldar	Day	1.63000	900.00	1467.00

0101	Bhisti	Day	0.70000	800.00	560.00
0002	Hire charges of Concrete Mixer 0.25 to 0.40 cum with Hopper	Day	0.07000	2112.00	147.84
0012	Vibrator (Needle type 40 mm)	Day	0.07000	440.00	30.80
9999	Sundries	L.S	13.52000	3.00	40.56
	TOTAL				6712.08
	Add Water Charge @ 1.0%				67.12
	TOTAL				6779.2
	Add CPOH @ 15.0%				1016.88
	cost for one cum				7796.08
	say				7796.1

3. Specification Code: 4.3.1

4.3.1	Centering and shuttering including strutting, propping etc. and removal of form work for:Foundations, footings, bases for columns
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Code	Description	Unit	Quantity	Rate	Amount
7319	wall form panel 1250x500 mm Qty taken for cost of using once = $16 \times 0.85 / 40 = 0.34$	each	0.34000	1188.00	403.92
7326	Corner angle 45x45x5 mm 1.50 m long Qty taken for cost of using once = $4 \times 0.85 / 40 = 0.085$	each	0.08500	295.00	25.08
7327	100 mm channel shoulder 2.5 m long Qty taken for cost of using once = $8 \times 0.85 / 40 = 0.17$	each	0.17000	1140.00	193.80
7328	Double clip (bridge clip) Qty taken for cost of using once = $16 \times 0.85 / 40 = 0.34$	each	0.34000	95.00	32.30
7329	Single clip Qty taken for cost of using once = $8 \times 0.85 / 40 = 0.17$	each	0.17000	76.00	12.92
7330	M.S. Tube 40 mm dia M.S. tube 40 mm dia $4 \times 2.7 \text{ m} = 10.8 \text{ m}$ qty taken for cost of using once = $10.8 \times 0.85 / 40 = 0.2295$	metre	0.22950	275.00	63.11
9999	Sundries Assembly nuts & bolts	L.S	22.10000	3.00	66.30

9977	Carriage LABOUR	L.S	78.00000	3.00	234.00
0116	Fitter(grade1)	Day	0.75000	950.00	712.50
0114	Beldar	Day	1.50000	900.00	1350.00
9999	Sundries Shuttering oil	L.S	52.00000	3.00	156.00
9999	Sundries	L.S	26.00000	3.00	78.00
	TOTAL				3327.93
	Add Water Charge @ 1.0%				33.28
	TOTAL				3361.21
	Add CPOH @ 15.0%				504.18
	cost for 10.8 sqm				3865.39
	cost for one sqm				357.91
	say				357.9

4. Specification Code: 2.25

2.25	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundation etc. in layers not exceeding 20 cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift up to 1.5 m.
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Code	Description	Unit	Quantity	Rate	Amount
0128	Mate	Day	0.20000	850.00	170.00
0115	Coolie	Day	2.50000	800.00	2000.00
0101	Bhisti	Day	0.20000	800.00	160.00
	TOTAL				2330.0
	Add Water Charge @ 1.0%				23.3
	TOTAL				2353.3
	Add CPOH @ 15.0%				353.0
	cost for 10.0 cum				2706.30
	cost for one cum				270.63
	say				270.65

5. Specification Code: 4.1.2

4.1.2	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level:1:1/2:3 (cement : 11/2 coarse sand : 3 graded stone aggregate 20 mm nominal size)
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Code	Description	Unit	Quantity	Rate	Amount
0295	Stone Aggregate(single size):20 mm nominal size nominal size	cum	0.57000	2500.00	1425.00
0297	Stone Aggregate(single size): 10 mm nominal size nominal size	cum	0.28000	2790.00	781.20
2202	Stone aggregate below 40 mm nominal size	cum	0.85000	0.00	.00
0982	Coarse sand (zone III)	cum	0.42500	1892.00	804.10
2203	Coarse sand	cum	0.42500	0.00	.00
0367	Portland Cement	tonne	0.40000	7392.00	2956.80
2209	Cement	tonne	0.40000	0.00	.00
0155	Mason (average)	Day	0.10000	950.00	95.00
0114	Beldar	Day	1.63000	900.00	1467.00
0101	Bhisti	Day	0.70000	800.00	560.00
0002	Hire charges of Concrete Mixer 0.25 to 0.40 cum with Hopper	Day	0.07000	2112.00	147.84
0012	Vibrator (Needle type 40 mm)	Day	0.07000	440.00	30.80
9999	Sundries	L.S	14.30000	3.00	42.90
	TOTAL				8310.64
	Add Water Charge @ 1.0%				83.11
	TOTAL				8393.75
	Add CPOH @ 15.0%				1259.06
	cost for one cum				9652.81
	say				9652.8

6. Specification Code: 7.1.1

7.1.1	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) up to plinth
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level with:Cement mortar 1:6 (1 cement : 6 coarse sand)

Code	Description	Unit	Quantity	Rate	Amount
1157	Stone for masonry work	cum	1.00000	1965.00	1965.00
1154	Through and bond stone size 24 x 24 x 39cm CARRIAGE:	100 nos	7.00000	15.14	105.98
2215	Soling stone & masonry stone 7.00x24cmx39cm = 0.16 cum 1.00 cum + 0.16 cum. = 1.16 cum Cement mortar 1:6 (1 cement : 6 Coarse sand)	cum	1.16000	0.00	.00
3.11	Cement mortar 1:6 (1 cement : 6 coarse sand). LABOUR:	cum	0.33000	5487.77	1810.96
0125	Mason (for plain stone work) 2nd class	Day	1.07000	950.00	1016.50
0114	Beldar	Day	1.07000	900.00	963.00
0115	Coolie	Day	0.71000	800.00	568.00
0101	Bhisti	Day	0.09000	800.00	72.00
9999	Sundries Cement concrete 1:6:12	L.S	45.76000	3.00	137.28
9999	Sundries	L.S	4.42000	3.00	13.26
	TOTAL				6651.99
	Add Water Charge @ 1.0%				66.52
	TOTAL				6718.51
	Add CPOH @ 15.0%				1007.78
	cost for one cum				7726.28
	say				7726.3

7. Specification Code: 50.6.1.8

50.6.1.8	Solid block masonry using pre cast solid blocks (Factory made) of size 40x20x15cm or nearest available size confirming to IS 2185 part I of 1979 for super structure up to floor two level with thickness 15cm in: CM 1:6 (1 cement : 6 coarse sand etc complete
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Code	Description	Unit	Quantity	Rate	Amount
MR3	Solid blocks of size 40x20x15cm	each	78.00000	33.00	2574.00
3.11	Cement mortar 1:6 (1 cement : 6 coarse sand).	cum	0.08150	5487.77	447.25

9999	Sundries	L.S	2.73000	3.00	8.19
0123	Mason (brick layer) 1st class	Day	0.53000	1000.00	530.00
0124	Mason (brick layer)2nd class	Day	0.53000	950.00	503.50
0115	Coolie	Day	1.90000	800.00	1520.00
0101	Bhisti	Day	0.45000	800.00	360.00
9999	Sundries	L.S	22.36000	3.00	67.08
	TOTAL				6010.02
	Add Water Charge @ 1.0%				60.1
	TOTAL				6070.12
	Add CPOH @ 15.0%				910.52
	cost for one cum				6980.64
	say				6980.65

8. Specification Code: 13.4.2

13.4.2	12 mm cement plaster of mix:1:6 (1 cement : 6 coarse sand)
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Code	Description	Unit	Quantity	Rate	Amount
3.11	Cement mortar 1:6 (1 cement : 6 coarse sand). LABOUR:	cum	0.14400	5487.77	790.24
0155	Mason (average)	Day	0.67000	950.00	636.50
0115	Coolie	Day	0.75000	800.00	600.00
0101	Bhisti	Day	0.92000	800.00	736.00
9999	Sundries Scaffolding and sundries	L.S	12.61000	3.00	37.83
	TOTAL				2800.57
	Add Water Charge @ 1.0%				28.01
	TOTAL				2828.58
	Add CPOH @ 15.0%				424.29
	cost for 10.0 sqm				3252.86
	cost for one sqm				325.29
	say				325.3

9. Specification Code: 13.43.1

13.43.1	Applying one coat of water thinnable cement primer of approved brand and manufacture on wall surface:Water thinnable cement primer
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Code	Description	Unit	Quantity	Rate	Amount
0808	Water thinnable cement primer for interior wall surface, having VOC content less than 50 gms/litre	Litre	0.70000	79.00	55.30
9999	Sundries Brushes, putty etc. LABOUR:	L.S	7.15000	3.00	21.45
0131	Painter	Day	0.40000	850.00	340.00
0115	Coolie	Day	0.20000	800.00	160.00
9988	Carriage and sundries	L.S	8.06000	3.00	24.18
	TOTAL				600.93
	Add Water Charge @ 1.0%				6.01
	TOTAL				606.94
	Add CPOH @ 15.0%				91.04
	cost for 10.0 sqm				697.98
	cost for one sqm				69.80
	say				69.8

10. Specification Code: 13.82.2

13.82.2	Wall painting with acrylic emulsion paint, having VOC (Volatile Organic Compound) content less than 50 grams/ litre, of approved brand and manufacture including applying additional coats wherever required, to achieve even shade and colour.Two coats
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Code	Description	Unit	Quantity	Rate	Amount
0803	Acrylic emulsion, having VOC content less than 50 gm/litre	Litre	0.84000	309.00	259.56
9999	Sundries	L.S	1.43000	3.00	4.29
9977	Carriage Brushes, putty etc.LABOUR:	L.S	6.76000	3.00	20.28

0131	Painter	Day	0.54000	850.00	459.00
0115	Coolie	Day	0.54000	800.00	432.00
9999	Sundries Brushes, sand paper etc.	L.S	10.79000	3.00	32.37
9999	Sundries	L.S	6.76000	3.00	20.28
		TOTAL			1227.78
		Add Water Charge @ 1.0%			12.28
		TOTAL			1240.06
		Add CPOH @ 15.0%			186.01
		cost for 10.0 sqm			1426.07
		cost for one sqm			142.61
		say			142.6

11. Specification Code: 10.16.1

10.16.1	Steel work in built up tubular (round, square or rectangular hollow tubes etc.) trusses etc., including cutting, hoisting, fixing position and applying a priming coat of approved steel primer, including welding and bolted with special shaped washers etc. complete. Hot finished welded type tubes
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Code	Description	Unit	Quantity	Rate	Amount
4009	Mild steel tubes hot finished welded type	kilogram	125.00000	51.00	6375.00
2205	Steel Priming coat \$50mm dia . tube 16.60x0.157m = 1.61 sqm. \$40 mm dia. tube 9.50x0.125m = 1.91 sqm \$= 2.80 sqm	tonne	0.12500	0.00	.00
13.50.3	With ready mixed red oxide zinc chromate primer of approved brand and manufacture on steel galvanised iron /steel works Welding charges:- \$Rafter:- \$4x22/7x6.03 = 75.80cm. +\$Ties : - 2x22/7x6.03= 37.90cm .+\$Members:- 2x4x2x22/7x4.83 = 242.87 cm \$Total = 356.57 cm Say 357 cm	sqm	2.80000	46.72	130.82
1215	Welding by electric plant LABOUR: \$For cutting, assembling & erection	cm	357.00000	4.00	1428.00
0102	Blacksmith 1st class	Day	1.50000	950.00	1425.00
0100	Bandhani	Day	0.75000	800.00	600.00

0114	Beldar	Day	5.50000	900.00	4950.00
9999	Sundries	L.S	80.73000	3.00	242.19
	TOTAL				15151.0
	Add Water Charge @ 1.0%				151.51
	TOTAL				15302.51
	Add CPOH @ 15.0%				2295.38
	cost for 119.0 kg				17597.89
	cost for one kg				147.88
	say				147.9

12. Specification Code: 13.84.2

13.84.2	Painting with synthetic enamel paint, having VOC (Volatile Organic Compound) content less than 150 grams/ litre, of approved brand and manufacture, including applying additional coats wherever required to achieve even shade and colour. Two coats
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Code	Description	Unit	Quantity	Rate	Amount
0805	Synthetic enamel paint, having VOC (Volatile Organic Compound content less than 150 gm/litre	Litre	0.84000	246.00	206.64
9977	Carriage	L.S	1.43000	3.00	4.29
9999	Sundries Material for filling in holes and cracks (putty) etc LABOUR:	L.S	5.33000	3.00	15.99
0131	Painter	Day	0.54000	850.00	459.00
0115	Coolie	Day	0.54000	800.00	432.00
9999	Sundries Brushes, sand paper etc.	L.S	6.76000	3.00	20.28
9999	Sundries	L.S	8.06000	3.00	24.18
	TOTAL				1162.38
	Add Water Charge @ 1.0%				11.62
	TOTAL				1174.0
	Add CPOH @ 15.0%				176.1
	cost for 10.0 sqm				1350.10
	cost for one sqm				135.01

	say				135.0
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13. Specification Code: od219670/2019_2020

od219670/2019_2020 :Supply and install externally 1st quality 600x300x8mm brick pattern design colour ceramic tile wall cladding, tile shall be laid and fixed to pre- plastered walls in patterns, style and forms of grouting and jointing as directed by engineer using approved tile adhesive materials and pointed with approved tile joint filler matching the colour of tiles.

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 1 sqm				
MR	brick pattern Ceramic tile cladding	sqm	1.02500	501.53	514.07
8731	High polymer modified quickset tile adhesive	kg	10.00000	17.0	170.00
1246	Silicon based Joint Sealeant for Tiles	kg	0.05140	201.0	10.33
0123	Mason (brick layer) 1st class	Day	0.25000	1000.0	250.00
0115	Coolie	Day	0.25000	800.0	200.00
9988	Carriage and sundries	L.S	26.91000	3.0	80.73
	TOTAL				1225.13
	Add Water Charges @ 1%				12.25
	Add CPOH @ 15.0%				185.61
	cost for one sqm				1422.99
	say				1422.99
	Say				1422.99

WIDENING OF EXISTING ROADS AND ANCILLARY WORKS

1. Specification Code: 16.1

16.1	Preparation and consolidation of sub grade with power road roller of 8 to 12 tonne capacity after excavating earth to an average of 22.5 cm depth, dressing to camber and consolidating with road roller including making good the undulations etc. and re-rolling the sub grade and disposal of surplus earth with lead upto 50 metres.
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Code	Description	Unit	Quantity	Rate	Amount
0128	Mate	Day	1.80000	850.00	1530.00

0115	Coolie	Day	18.00000	800.00	14400.00
0114	Beldar	Day	0.27000	900.00	243.00
0003	Hire charges of Diesel Road Roller- 8 to 10 tonne	Day	0.05400	1751.00	94.55
0113	Chowkidar	Day	0.05400	800.00	43.20
9999	Sundries (B) Consolidation of sub grade Roller charges (one roller does 1860 sqm. of consolidation of sub- grade with road roller of 8 to 12 tonne capacity including making good the undulations etc. with earth or quarry spoils etc. and rerolling the subgrade	L.S	6.76000	3.00	20.28
0003	Hire charges of Diesel Road Roller- 8 to 10 tonne	Day	0.05400	1751.00	94.55
0113	Chowkidar	Day	0.05400	800.00	43.20
9999	Sundries	L.S	6.76000	3.00	20.28
	TOTAL				16489.07
	Add Water Charge @ 1.0%				164.89
	TOTAL				16653.96
	Add CPOH @ 15.0%				2498.09
	cost for 100.0 sqm				19152.05
	cost for one sqm				191.52
	say				191.5

2. Specification Code: 16.78.3

16.78.3	Construction of granular sub- base by Providing close graded Material conforming to specifications, mixing in a mechanical mix plant at OMC, Carriage of mixed material by tippers to work site, for all leads & lifts, spreading in uniform layers of specified thickness with motor grader on prepared surface and compacting with vibratory power roller to achieve the desired density, complete as per specifications and directions of Engineer-in- Charge. With material conforming to Grade - III (size range 26.5 mm to 0.075 mm) having CBR Value - 20
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Code	Description	Unit	Quantity	Rate	Amount
1179	Crushed stone 2.36 mm to 12.5 mm size	cum	100.80000	1178.00	118742.40
2202	Stone aggregate below 40 mm nominal size	cum	100.80000	0.00	.00
1179	Crushed stone 2.36 mm to 12.5 mm size	cum	36.00000	1178.00	42408.00

2202	Stone aggregate below 40 mm nominal size	cum	36.00000	0.00	.00
2903	Stone chippings/ screenings 4.75 mm nominal size	cum	75.60000	2665.00	201474.00
2904	Stone chippings/ screenings 150 micron nominal size	cum	75.60000	2480.00	187488.00
2203	Coarse sand (B) Machinery	cum	151.20000	0.00	.00
0059	Wet Mix Plant 60 TPH 75 tonne capacity	hour	6.00000	1760.00	10560.00
0070	Generator 100 KVA/125	hour	6.00000	792.00	4752.00
0057	Water Tanker 5 to 6 KL Capacity	hour	4.50000	229.00	1030.50
0052	Front end loader 1 cum bucket capacity (incl POL) Tipper 10 tonne capacity (taking lead = 10 Km) = 450x10 = 4500 t Km	hour	6.00000	1276.00	7656.00
0053	Tipper -5 cum Add 10% of cost of carriage to cover \$loading and unloading \$Xx 10/100 = 13500.00 x 10/100	tonne km	4500.0000 0	4.00	18000.00
0050	Motor Grade 3.35 meter blade 110 HP	hour	6.00000	2376.00	14256.00
0054	Vibratory roller 8 to 10 tonne (C) labour	hour	6.00000	2262.00	13572.00
0128	Mate	Day	0.40000	850.00	340.00
0139	Skilled Beldar (for floor rubbing etc.)	Day	2.00000	950.00	1900.00
0114	Beldar	Day	8.00000	900.00	7200.00
	TOTAL				733117.5
	Add Water Charge @ 1.0%				7331.18
	TOTAL				740448.68
	Add CPOH @ 15.0%				111067.3
	cost for 225.0 cum				851515.98
	cost for one cum				3784.52
	say				3258.3

3. Specification Code: 16.79

16.79	Providing , laying spreading and compacting graded stone aggregate (size range 53 mm to 0.075 mm) to wet mix macadam (WMM) specification including premixing the material with water at OMC in mechanical mix plant, carriage of mixed material by tipper to site, for all leads & lifts, laying in uniform layers with mechanical paver finisher in sub - base / base course on well prepared surface and compacting with vibratory roller of 8 to 10 tonne capacity to achieve the desired density, complete as per specifications and directions of Engineer - in- Charge.
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Code	Description	Unit	Quantity	Rate	Amount
0292	Stone Aggregate(single size):50 mm nominal size	cum	22.27500	2340.00	52123.50
0293	Stone Aggregate(single size): 40 mm nominal size	cum	22.27500	2500.00	55687.50
0294	Stone Aggregate(single size):25 mm nominal size	cum	22.27500	2500.00	55687.50
0295	Stone Aggregate(single size):20 mm nominal size	cum	22.27500	2500.00	55687.50
2206	Stone aggregate 40 mm nominal size and above	cum	44.55000	0.00	.00
2202	Stone aggregate below 40 mm nominal size	cum	44.55000	0.00	.00
0294	Stone Aggregate(single size):25 mm nominal size	cum	29.70000	2500.00	74250.00
0295	Stone Aggregate(single size):20 mm nominal size	cum	29.70000	2500.00	74250.00
1179	Crushed stone 2.36 mm to 12.5 mm size	cum	59.40000	1178.00	69973.20
2202	Stone aggregate below 40 mm nominal size	cum	118.80000	0.00	.00
2903	Stone chippings/ screenings 4.75 mm nominal size	cum	44.55000	2665.00	118725.75
2904	Stone chippings/ screenings 150 micron nominal size	cum	44.55000	2480.00	110484.00
2203	Coarse sand (B) Machinery	cum	89.10000	0.00	.00
0059	Wet Mix Plant 60 TPH @ 75 tonne capacity	hour	6.60000	1760.00	11616.00
0070	Generator 100 KVA/125	hour	6.00000	792.00	4752.00
0057	Water Tanker 5 to 6 KL Capacity 5 km lead with one trip per hour	hour	3.00000	229.00	687.00
0052	Front end loader 1 cum bucket capacity (incl POL) Tipper 10 tonne capacity (taking lead = 10 km) = 495 x 10 = 4950 t. km	hour	6.00000	1276.00	7656.00
0053	Tipper -5 cum Add 10% of cost of carriage to cover \$loading and unloading \$Xx 10/100 = 14850.00x 10/100	tonne km	4950.0000 0	4.00	19800.00
0065	Paver finisher Mechanical 100 TPH	hour	6.00000	1100.00	6600.00

0054	Vibratory roller 8 to 10 tonne (C) Labour	hour	3.90000	2262.00	8821.80
0128	Mate	Day	0.48000	850.00	408.00
0139	Skilled Beldar (for floor rubbing etc.)	Day	2.00000	950.00	1900.00
0114	Beldar	Day	10.00000	900.00	9000.00
	TOTAL				859612.5
	Add Water Charge @ 1.0%				8596.13
	TOTAL				868208.63
	Add CPOH @ 15.0%				130231.29
	cost for 225.0 cum				998439.92
	cost for one cum				4437.51
	say				3820.5

4. Specification Code: 51.16.PC.1pb

Other Engineering Organisations

51.16.PC.1pb	Primer Coat - Bitumen Emulsion (SS-1) - Using Packed Bitumen Rates Providing and applying primer coat with bitumen emulsion (SS-1) on prepared surface of granular base including cleaning of road surface and spraying primer at the rate of 0.70 - 1.0 kg/sqm using mechanical means as per Technical Specification Clause 502 (low porosity).
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Code	Description	Unit	Quantity	Rate	Amount
MR151	Emulsion SS Packed @182 kg Drum @ 0.85 kg per sqm\$	tonne	1.48000	63000.00	93240.00
2211	Tar bitumen \$Machinery\$	tonne	1.48000	0.00	.00
0060	Mechanical Broom Hydraulic @ 1250 sqm per hour\$	hour	1.40000	352.00	492.80
0058	Air Compressor 210 cfm\$	hour	1.40000	418.00	585.20
0061	Emulsion Pressure Distributor @1750 sqm per hour	hour	1.00000	1100.00	1100.00
0057	Water Tanker 5 to 6 KL Capacity 1 trip per hour\$\$Labour\$	hour	0.50000	229.00	114.50

0128	Mate	Day	0.04000	850.00	34.00
0114	Beldar	Day	1.00000	900.00	900.00
		TOTAL			96466.5
		Add Water Charge @ 1.0%			964.67
		TOTAL			97431.17
		Add CPOH @ 15.0%			14614.67
		cost for 1750.0 sqm			112045.84
		cost for one sqm			64.03
		say			64.05

5. Specification Code: od21005/2019_2020

od21005/2019_2020 :2.5 cm premix carpet surfacing with 2.25 cum and 1.12 cum of stone chippings of 13.2 mm and 11.2 mm size respectively per 100 sqm and 52 kg and 56 kg of hot bitumen per cum of stone chippings of 13.2 mm and 11.2 mm size respectively, including a tack coat with hot straight run bitumen, including consolidation with road roller of 6 to 9 tonne capacity etc. complete (tack coat to be paid for separately): With paving Asphalt grade VG - 10 heated and then mixed with solvent at the rate of 70 grams per kg of asphalt (DSR ITEM NO.16.33.1)

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 100 sqm Paving asphalt 80/100 (i) Hot bitumen @ 52kg.per cum. of stone chippings @2.25cum. of 13.2mm nominal size (ii) Hot bitumen @56kg. per cum. of aggregate @ 1.12cum. of 11.2mm nominal size $52 \times 2.25 + 56 \times 1.12 = 180 \text{kg}$				
2916	Paving Asphalt VG-10 of approved quality	tonne	0.18000	4752.0	855.36
2914	Solvent	kilogram	12.60000	30.0	378.00
2211	Tar bitumen Carriage of	tonne	0.18000	0.0	.00
2342	Solvent/ Diesel Carriage of	quintal	0.12600	0.0	.00
2910	Stone chippings/screenings 12.5/13.2 mm nominal size @ 2.25 cum. per 100 sqm	cum	2.25000	1307.0	2940.75
2911	Stone Chippings/ screenings 10/ 11.2 mm nominal size @1.12 cum.per 100sqm	cum	1.12000	1307.0	1463.84

2202	Stone aggregate below 40 mm nominal size Carriage of $2.25+1.12=3.37$ cum Steam coal for heating of bitumen @2 quintals per tonne of bitumen $=2 \times 0.18=0.36$ q	cum	3.37000	0.0	.00
0370	Coal (steam) 	quintal	0.36000	505.0	181.80
2200	Steam coal Carriage of LABOUR: for cleaning the road surface, heating and spraying bitumen and aggregate: (a) for cleaning:	tonne	0.03600	0.0	.00
0128	Mate 	Day	0.08000	850.0	68.00
0114	Beldar 	Day	1.40000	900.0	1260.00
0115	Coolie (b) for heating bitumen	Day	1.40000	800.0	1120.00
0114	Beldar (c) for screening and spreading premixed aggregate:	Day	0.71000	900.0	639.00
0130	Mistry 	Day	0.19000	800.0	152.00
0114	Beldar (d) consolidation charges:	Day	6.25000	900.0	5625.00
0113	Chowkidar 	Day	0.27000	800.0	216.00
0101	Bhisti 	Day	0.11000	800.0	88.00
0003	Hire charges of Diesel Road Roller- 8 to 10 tonne 	Day	0.11000	1751.0	192.61
0001	Hire charges of Coaltar Boiler 900 to 1400 litres 	Day	0.15000	1087.0	163.05
0023	Hot Bitumen Mixer 0.5cum i/c hand cart (e) misc: Brushes etc. for cleaning.	Day	0.04000	5685.0	227.40
0364	Wire brush (with thick wire)	each	0.11000	26.0	2.86
0365	Soft brush 	each	0.32000	23.0	7.36
9999	Sundries Brooms and gunny bags	L.S	6.76000	3.0	20.28
9999	Sundries 	L.S	9.49000	3.0	28.47
	TOTAL				15629.78
	Add Water Charges @ 1%				156.30
	Add CPOH @ 15.0%				2367.91
	cost for 100.0 sqm				18153.99
	cost for one sqm				181.54
	say				181.54
	Say				181.54

6. Specification Code: 51.16.31.1.2

51.16.31.1 .2	Tack Coat - RS Bitumen Emulsion - On bituminous surface @ 0.25 kg /sqm Providing and applying tack coat using bitumen emulsion conforming to IS : 8887, using emulsion pressure distributor including preparing the surface & cleaning with mechanical broom. 1. With Rapid Setting Bitumen Emulsion 2. On bituminous surface @ 0.25 kg /sqm
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Code	Description	Unit	Quantity	Rate	Amount
MR121	Bitumen Emulsion (RS) Rapid Setting confirming to IS:8887	tonne	0.87500	39000.00	34125.00
2211	Tar bitumen \$Machinery	tonne	0.87500	0.00	.00
0075	Road sweeper (Mechanical Broom) @ 1250 sqm per hour	hour	2.80000	484.00	1355.20
0058	Air Compressor	hour	2.80000	418.00	1170.40
0061	Emulsion Pressure Distributor @1750 sqm per hour \$Labour	hour	2.00000	1100.00	2200.00
0128	Mate	Day	0.08000	850.00	68.00
0114	Beldar	Day	2.00000	900.00	1800.00
					40718.6
					407.19
					41125.79
					6168.87
					47294.65
					13.51
					13.5

7. Specification Code: od21013/2019_2020

od21013/2019_2020 :Providing and laying seal coat of premixed fine aggregate (passing 2.36 mm and retained on 180 micron sieve) with bitumen using 128 kg of bitumen of grade VG -10 bitumen per cum of fine aggregate and 0.60 cum of fine aggregate per 100 sqm of road surface, including rolling and finishing with road roller all complete.(DSR ITEM NO 16.40)

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 100 sqm @ 128kg/cum. of sand 128x0.60 = 76.80kg. = 0.0768 m.t				

2916	Paving Asphalt VG-10 of approved quality	tonne	0.07680	4752.0	364.95
2211	Tar bitumen Carriage of	tonne	0.07680	0.0	.00
0982	Coarse sand (zone III)	cum	0.60000	1892.0	1135.20
2203	Coarse sand	cum	0.60000	0.0	.00
0370	Coal (steam) 	quintal	1.53600	505.0	775.68
2200	Steam coal Carriage of LABOUR: for cleaning the road surface, heating and spraying bitumen and aggregate: (a) for cleaning:	tonne	0.15360	0.0	.00
0128	Mate 	Day	0.06000	850.0	51.00
0114	Beldar 	Day	0.49000	900.0	441.00
0115	Coolie (b) for heating bitumen	Day	0.97000	800.0	776.00
0114	Beldar (c) for screening and spreading premixed aggregate:	Day	0.30000	900.0	270.00
0130	Mistry 	Day	0.05000	800.0	40.00
0114	Beldar (d)consolidation charges:	Day	1.11000	900.0	999.00
0113	Chowkidar 	Day	0.15000	800.0	120.00
0101	Bhisti 	Day	0.06000	800.0	48.00
0003	Hire charges of Diesel Road Roller- 8 to 10 tonne 	Day	0.06000	1751.0	105.06
0001	Hire charges of Coaltar Boiler 900 to 1400 litres 	Day	0.05000	1087.0	54.35
0023	Hot Bitumen Mixer 0.5cum i/c hand cart (e) misc: Brushes etc. for cleaning.	Day	0.01000	5685.0	56.85
0364	Wire brush (with thick wire)	each	0.05000	26.0	1.30
0365	Soft brush 	each	0.12000	23.0	2.76
9999	Sundries Brooms and gunny bags	L.S	18.20000	3.0	54.60
	TOTAL				5295.75
	Add Water Charges @ 1%				52.96
	Add CPOH @ 15.0%				802.31
	cost for 100.0 sqm				6151.02
	cost for one sqm				61.51
	say				61.51
	Say				61.51

8. Specification Code: 16.69

16.69	Providing and laying at or near ground level factory made kerb stone of M-25 grade cement concrete in position to the required line, level and curvature jointed with cement mortar 1:3 (1 cement : 3 coarse sand) , including making joints with or without grooves (thickness of joints except at sharp curve shall not to more than 5 mm), including making drainage opening wherever required complete etc. as per direction of Engineer-in-charge (length of finished kerb edging shall be measured for payment). (Precast C.C. kerb stone shall be approved by Engineer-in-Charge)
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Code	Description	Unit	Quantity	Rate	Amount
8686	Precast C.C. Kerb stone M-25 Mortar 1:3 for fixing joints $\$ = 246 \times [(0.115 + 0.20) / 2] \times 0.375 \times 0.005 = 0.073 \text{ cum}$ CM 1:3 (1 cement : 3 coarse sand)	cum	7.41000	4029.00	29854.89
3.8	Cement mortar 1:3 (1 cement : 3 coarse sand). Labour for fixing of kerb stone	cum	0.07300	7720.08	563.57
0123	Mason (brick layer) 1st class	Day	2.50000	1000.00	2500.00
0124	Mason (brick layer)2nd class	Day	2.50000	950.00	2375.00
0114	Beldar	Day	2.50000	900.00	2250.00
0115	Coolie	Day	1.65000	800.00	1320.00
	TOTAL				38863.46
	Add Water Charge @ 1.0%				388.63
	TOTAL				39252.09
	Add CPOH @ 15.0%				5887.81
	cost for 7.5 cum				45139.90
	cost for one cum				6018.65
	say				6018.65

9. Specification Code: od21031/2019_2020

od21031/2019_2020 : two coats after filling the surface with synthetic enamel paint in all shades on new plastered concrete surfaces

Code	Description	Unit	Quantity	Rate	Amount
	Unit = sqm Taking out put = 40 sqm Labour Painting				
0128	Mate	Day	0.12000	850.0	102.00
0131	Painter	Day	2.00000	850.0	1700.00

0114	Beldar	Day	1.00000	900.0	900.00
0833	Synthetic enamel paint in black or chocolate shade	Litre	6.00000	194.0	1164.00
	TOTAL				3866.00
	Add Water Charges @ 1%				38.66
	Add CPOH @ 15.0%				585.70
	cost for 40.0 sqm				4490.36
	cost for one sqm				112.26
	say				112.26
	Say				112.26

10. Specification Code: od21034/2019_2020

od21034/2019_2020 :Providing and laying average 100 mm thick sub grade of compacted bed of 20 mm thick nominal size stone aggregate mixed with sand Zone V, including spreading, well ramming, consolidating and finishing smooth etc. all complete as per direction of Engineer-in-charge.

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 10 sqm. MATERIAL:				
0295	Stone Aggregate(single size):20 mm nominal size 	cum	0.75000	2500.0	1875.00
6501	Sand zone V (jamina)	cum	0.25000	616.0	154.00
2202	Stone aggregate below 40 mm nominal size	cum	0.75000	0.0	.00
2335	Jamuna sand	cum	0.25000	0.0	.00
0114	Beldar 	Day	0.47000	900.0	423.00
0115	Coolie 	Day	0.35000	800.0	280.00
0101	Bhisti	Day	0.24000	800.0	192.00
P&M-158	Plate vibrator	hour	1.92000	49.5	95.04
	TOTAL				3019.04
	Add Water Charges @ 1%				30.19
	Add CPOH @ 15.0%				457.38
	cost for 10.0 sqm				3506.61
	cost for one sqm				350.66
	say				350.66
	Say				350.66

11. Specification Code: 16.42

16.42	Cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 40 mm nominal size) in pavements, laid to required slope and camber in panels as required including consolidation finishing and tamping complete
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Code	Description	Unit	Quantity	Rate	Amount
0293	Stone Aggregate(single size): 40 mm nominal size	cum	0.52000	2500.00	1300.00
0295	Stone Aggregate(single size):20 mm nominal size	cum	0.22000	2500.00	550.00
0297	Stone Aggregate(single size): 10 mm nominal size	cum	0.11000	2790.00	306.90
2206	Stone aggregate 40 mm nominal size and above	cum	0.52000	0.00	.00
2202	Stone aggregate below 40 mm nominal size	cum	0.33000	0.00	.00
0982	Coarse sand (zone III)	cum	0.44500	1892.00	841.94
2202	Stone aggregate below 40 mm nominal size	cum	0.44500	0.00	.00
0367	Portland Cement	tonne	0.32000	7392.00	2365.44
2209	Cement LABOUR:	tonne	0.32000	0.00	.00
0155	Mason (average)	Day	0.10000	950.00	95.00
0114	Beldar	Day	1.63000	900.00	1467.00
0101	Bhisti	Day	0.70000	800.00	560.00
0002	Hire charges of Concrete Mixer 0.25 to 0.40 cum with Hopper	Day	0.07700	2112.00	162.62
0012	Vibrator (Needle type 40 mm)	Day	0.07000	440.00	30.80
9999	Sundries Side shuttering: Taking the slab to be 15cm thick and width to be 6 metre, length of road 27 metre= $9.90/24.30 = 0.407\text{sqm}$	L.S	26.00000	3.00	78.00
5.9.1	Foundations, footings, bases of columns, etc for mass concrete work	sqm	0.40700	308.14	125.41
9999	Sundries	L.S	1.43000	3.00	4.29
	TOTAL				7887.41
	Add Water Charge @ 1.0%				78.87
	TOTAL				7966.28

	Add CPOH @ 15.0%				1194.94
	cost for one cum				9161.22
	say				9161.2

12. Specification Code: 16.45

16.45	Providing and fixing in position pre- moulded joint filler in expansion joints.
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Code	Description	Unit	Quantity	Rate	Amount
0317	Premoulded joing filler 12 mm thick = 300x0.15 = 45 sqm	sqm	45.00000	430.00	19350.00
2211	Tar bitumen 45x0.018 = 0.81 cum. weight 256.3 kg. per cum. = 256.3x0.81 Total = 207.6kg. say 0.21 tonne Labour:	tonne	0.21000	0.00	.00
0124	Mason (brick layer)2nd class	Day	1.00000	950.00	950.00
0114	Beldar	Day	3.00000	900.00	2700.00
9999	Sundries	L.S	26.91000	3.00	80.73
	TOTAL				23080.73
	Add Water Charge @ 1.0%				230.81
	TOTAL				23311.54
	Add CPOH @ 15.0%				3496.73
	cost for 8107.0 per cm depth per cm width per meter length				26808.27
	cost for one per cm depth per cm width per meter length				3.31
	say				3.3

13. Specification Code: 16.90

16.90	Providing and laying tactile tile (for vision impaired persons as per standards) of size 300x300x9.8mm having with water absorption less than 0.5% and conforming to IS: 15622 of approved make in all colours and shades in for outdoor floors such as footpath, court yard, multi modals location etc., laid on 20mm thick base of cement mortar 1:4 (1 cement : 4 coarse sand) in all shapes & patterns including grouting the joints with white cement mixed with matching pigments etc. complete as per direction of Engineer-in-
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Charge.

Code	Description	Unit	Quantity	Rate	Amount
7893	Tactile tile	sqm	1.00000	853.00	853.00
9977	Carriage	L.S	6.24000	3.00	18.72
3.9	Cement mortar 1.4 (1 cement : 4 coarse sand).	cum	0.02400	6603.93	158.49
9999	Sundries Mortar for pointing in white	L.S	3.64000	3.00	10.92
0367	Portland Cement LABOUR:	tonne	0.00330	7392.00	24.39
0123	Mason (brick layer) 1st class	Day	0.20000	1000.00	200.00
0115	Coolie	Day	0.20000	800.00	160.00
9999	Sundries including carriage of cement etc.	L.S	26.91000	3.00	80.73
	TOTAL				1506.26
	Add Water Charge @ 1.0%				15.06
	TOTAL				1521.32
	Add CPOH @ 15.0%				228.2
	cost for one sqm				1749.52
	say				1749.5

14. Specification Code: od21092/2019_2020

od21092/2019_2020 :Providing and fixing PVC pipe pieces in weep holes by hacking,jointing and make good, 110 mm pipe 4 kgf/cm2

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 1.00metre MATERIALS:				
MR55	PVC pipe 110 mm outer dia. 4kgf/cm2	metre	1.00000	174.0	174.00
0116	Fitter(grade1) 	Day	0.03300	950.0	31.35
	TOTAL				205.35
	Add Water Charges @ 1%				2.05
	Add CPOH @ 15.0%				31.11

	cost for one metre				238.51
	say				238.51
	Say				238.51

15. Specification Code: od219899/2019_2020

od219899/2019_2020 :Construct foundation for lighting pole using M30 concrete of overall size 65x65x160 cm and 4 nos M20x75cm long anchor bolt set in concrete using 4mm thick anchor plate as per the drawing and specification.

Code	Description	Unit	Quantity	Rate	Amount
	Rate per single lighting pole				
2.6.1	Rate as per item number 2.6.1 of SH: Earth Work	cum	3.09000	213.20517 22999999 6	658.80
4.1.8	Rate as per item number 4.1.8 of SH: Concrete work	cum	0.04800	7796.0809 2	374.21
5.33.1	Rate as per item number 5.33.1 of SH: Reinforced Cement Concrete	cum	0.68000	10519.775 18999999 8	7153.45
5.34.1	Rate as per item number 5.34.1 of SH: Reinforced Cement Concrete	cum	0.68000	88.99413	60.52
4.3.1	Rate as per item number 4.3.1 of SH: Concrete work	sqm	4.16000	357.90627 69675925 3	1488.89
5.22.6	Rate as per item number 5.22.6 of SH: Reinforced Cement Concrete	kilogram	21.90000	101.26224 145	2217.64
10.2	Rate as per item number 10.2 of SH: Steel Work	kg	1.50000	107.31380 23579240 8	160.97
1221	20 mm dia holding down bolts	quintal	0.00310	7038.0	21.82
MR51	PVC pipe 63 mm outer dia. 4 kgf/cm ²	metre	0.46000	80.0	36.80
9988	Carriage and sundries	L.S	200.00000	3.0	600.00
	TOTAL				12773.10
	Add Water Charges @ 1%				127.73
	Add CPOH @ 15.0%				1935.12
	cost for one each				14835.96

	say				14835.96
	Say				14835.96

16. Specification Code: od21095/2019_2020

od21095/2019_2020 :Construct RC drain using 1:1.5:3 mix wall and base 10cm thick of average inside dimensions 40cm wide x 60cm deep covered with 10cm (1:1.5:3) mix precast RC slab etc as per drawing and specification

Code	Description	Unit	Quantity	Rate	Amount
	Rate per meter length				
2.8.1	Rate as per item number 2.8.1 of SH: Earth Work	cum	0.64000	300.51286 2375	192.33
4.1.8	Rate as per item number 4.1.8 of SH: Concrete work	cum	0.08000	7796.0809 2	623.69
5.1.2	Rate as per item number 5.1.2 of SH: Reinforced Cement Concrete	cum	0.06000	10302.667 60999999 9	618.16
5.2.2	Rate as per item number 5.2.2 of SH: Reinforced Cement Concrete	cum	0.12000	12198.762 30849673 3	1463.85
5.9.1	Rate as per item number 5.9.1 of SH: Reinforced Cement Concrete	sqm	0.20000	357.90627 69675925 3	71.58
5.9.2	Rate as per item number 5.9.2 of SH: Reinforced Cement Concrete	sqm	2.40000	770.88093 38607593	1850.11
5.12	Rate as per item number 5.12 of SH: Reinforced Cement Concrete	cum	0.06000	11736.229 57350687 6	704.17
5.22.6	Rate as per item number 5.22.6 of SH: Reinforced Cement Concrete	kilogram	18.00000	101.26224 145	1822.72
	TOTAL				7346.62
	Add Water Charges @ 1%				73.47
	Add CPOH @ 15.0%				1113.01
	cost for one metre				8533.09
	say				8533.09
	Say				8533.09

LAND DEVELOPMENT

1. Specification Code: 2.32

2.32	Clearing grass and removal of the rubbish up to a distance of 50 m outside the periphery of the area cleared.
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Code	Description	Unit	Quantity	Rate	Amount
0114	Beldar	Day	0.60000	900.00	540.00
0115	Coolie	Day	0.25000	800.00	200.00
9999	Sundries	L.S	1.82000	3.00	5.46
	TOTAL				745.46
	Add Water Charge @ 1.0%				7.45
	TOTAL				752.91
	Add CPOH @ 15.0%				112.94
	cost for 100.0 sqm				865.85
	cost for one sqm				8.66
	say				8.65

Other Engineering Organisations

2. Specification Code: 2.31

2.31	Clearing jungle including uprooting of rank vegetation, grass, brush wood, trees and saplings of girth up to 30 cm measured at a height of 1 m above ground level and removal of rubbish up to a distance of 50 m outside the periphery of the area cleared
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Code	Description	Unit	Quantity	Rate	Amount
0114	Beldar	Day	1.08000	900.00	972.00
0115	Coolie	Day	0.60000	800.00	480.00
	TOTAL				1452.0
	Add Water Charge @ 1.0%				14.52
	TOTAL				1466.52
	Add CPOH @ 15.0%				219.98
	cost for 100.0 sqm				1686.50
	cost for one sqm				16.87

		say			16.85
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3. Specification Code: 2.33.1

2.33.1	Felling trees of the girth (measured at a height of 1 m above ground level) including cutting of trunks and branches, removing the roots and stacking of serviceable material and disposal of unserviceable material.Beyond 30 cm girth up to and including 60 cm girth
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Code	Description	Unit	Quantity	Rate	Amount
0114	Beldar	Day	0.33000	900.00	297.00
0115	Coolie	Day	0.17000	800.00	136.00
9999	Sundries	L.S	2.73000	3.00	8.19
	TOTAL				441.19
	Add Water Charge @ 1.0%				4.41
	TOTAL				445.6
	Add CPOH @ 15.0%				66.84
	cost for one each				512.44
	say				512.45

4. Specification Code: 2.33.2

2.33.2	Felling trees of the girth (measured at a height of 1 m above ground level) including cutting of trunks and branches, removing the roots and stacking of serviceable material and disposal of unserviceable material.Beyond 60 cm girth up to and including 120 cm girth
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Code	Description	Unit	Quantity	Rate	Amount
0114	Beldar	Day	1.50000	900.00	1350.00
0115	Coolie	Day	0.75000	800.00	600.00
9999	Sundries	L.S	5.46000	3.00	16.38
	TOTAL				1966.38
	Add Water Charge @ 1.0%				19.66
	TOTAL				1986.04
	Add CPOH @ 15.0%				297.91

	cost for one each				2283.95
	say				2283.95

5. Specification Code: 2.33.4

2.33.4	Felling trees of the girth (measured at a height of 1 m above ground level) including cutting of trunks and branches, removing the roots and stacking of serviceable material and disposal of unserviceable material. Above 240 cm girth
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Code	Description	Unit	Quantity	Rate	Amount
0114	Beldar	Day	14.00000	900.00	12600.00
0115	Coolie	Day	7.00000	800.00	5600.00
9999	Sundries	L.S	26.91000	3.00	80.73
	TOTAL				18280.73
	Add Water Charge @ 1.0%				182.81
	TOTAL				18463.54
	Add CPOH @ 15.0%				2769.53
	cost for one each				21233.07
	say				21233.05

6. Specification Code: 2.2.1

2.2.1	Earth work in rough excavation, banking excavated earth in layers not exceeding 20 cm in depth, breaking clods, watering, rolling each layer with 1/2 tonne roller or wooden or steel rammers, and rolling every 3rd and top-most layer with power roller of minimum 8 tonnes and dressing up in embankments for roads, flood banks, marginal banks and guide banks or filling up ground depressions, lead up to 50 m and lift up to 1.5 m: All kinds of soil
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Code	Description	Unit	Quantity	Rate	Amount
0114	Beldar	Day	5.90000	900.00	5310.00
0115	Coolie	Day	3.60000	800.00	2880.00
0101	Bhisti	Day	0.40000	800.00	320.00

0113	Chowkidar Roller Charges (one roller does 1850 sqm. of consolidation per day)	Day	0.00800	800.00	6.40
0003	Hire charges of Diesel Road Roller- 8 to 10 tonne	Day	0.00800	1751.00	14.01
9999	Sundries	L.S	2.73000	3.00	8.19
	TOTAL				8538.6
	Add Water Charge @ 1.0%				85.39
	TOTAL				8623.98
	Add CPOH @ 15.0%				1293.6
	cost for 10.0 cum				9917.58
	cost for one cum				991.76
	say				991.75

7. Specification Code: 2.28.1

2.28.1	Surface dressing of the ground including removing vegetation and in-equalities not exceeding 15 cm deep and disposal of rubbish, lead up to 50 m and lift up to 1.5 m.All kinds of soil
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Other Engineering Organisations

Code	Description	Unit	Quantity	Rate	Amount
0114	Beldar	Day	1.97000	900.00	1773.00
0115	Coolie	Day	1.29000	800.00	1032.00
	TOTAL				2805.0
	Add Water Charge @ 1.0%				28.05
	TOTAL				2833.05
	Add CPOH @ 15.0%				424.96
	cost for 100.0 sqm				3258.01
	cost for one sqm				32.58
	say				32.6

EXTERNAL WATER SUPPLY

1. Specification Code: 50.18.9.6.1

50.18.9.6.	Providing and fixing PVC pipes includings jointing of pipes with one step PVC solvent cement, trenching,
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1	refilling & testing of joints complete as per direction of Engineer in Charge. 50 mm dia 10Kgf/cm2
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Code	Description	Unit	Quantity	Rate	Amount
MR48	PVC pipe 50 mm outer dia. 10 kgf/cm2 Add 15% for fittings and wastage etc. on	metre	11.50000	85.00	977.50
0116	Fitter(grade1)	Day	0.16000	950.00	152.00
0114	Beldar Trenching and refilling etc.	Day	0.33000	900.00	297.00
0114	Beldar	Day	0.66000	900.00	594.00
0115	Coolie	Day	0.66000	800.00	528.00
	TOTAL				2548.5
	Add Water Charge @ 1.0%				25.49
	TOTAL				2573.99
	Add CPOH @ 15.0%				386.1
	cost for 10.0 metre				2960.08
	cost for one metre				296.01
	say				296.0

Other Engineering Organisations

2. Specification Code: od219816/2019_2020

od219816/2019_2020 :Supply and install Zoloto or approved equivalent 50mm full bore forged brass ball valve including all necessary fittings

Code	Description	Unit	Quantity	Rate	Amount
	Rate for each item				
MR	supply of Zoloto 50mm full bore forged brass ball valve	each	1.00000	2668.00	2668.00
MR	63mm male threaded adaptor	each	2.00000	47.00	94.00
MR	63mm dia union	each	2.00000	175.00	350.00
9988	Carriage and sundries	L.S	20.80000	3.0	62.40
	TOTAL				3174.40
	Add Water Charges @ 1%				31.74
	Add CPOH @ 15.0%				480.92
	cost for one each				3687.07

	say				3687.07
	Say				3687.07

3. Specification Code: 18.48

18.48	Providing and placing on terrace (at all floor levels) polyethylene water storage tank :ISI 12701 marked, with cover and suitable locking arrangement and making necessary holes for inlet, outlet and overflow pipes but without fittings and the base support for tank.
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Code	Description	Unit	Quantity	Rate	Amount
1649	Polyethylene water storage tank with cover and suitable locking arrangement	per litre	500.00000	8.00	4000.00
9977	Carriage	L.S	179.40000	3.00	538.20
9999	Sundries Placing at terrace	L.S	89.70000	3.00	269.10
	TOTAL				4807.3
	Add Water Charge @ 1.0%				48.07
	TOTAL				4855.37
	Add CPOH @ 15.0%				728.31
	cost for 500.0 Litre				5583.68
	cost for one Litre				11.17
	say				11.15

4. Specification Code: 18.19.4.1

18.19.4.1	Providing and fixing gun metal non-return valve of approved quality (screwed end):50 mm nominal boreHorizontal
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Code	Description	Unit	Quantity	Rate	Amount
1936	Gunmetal non-return valve-horizontal (screwed end) 50 mm dia	each	1.00000	1035.00	1035.00
9988	Carriage and sundries of materials and fixing charge	L.S	17.55000	3.00	52.65
	TOTAL				1087.65
	Add Water Charge @ 1.0%				10.88

	TOTAL				1098.53
	Add CPOH @ 15.0%				164.78
	cost for one each				1263.31
	say				1263.3

5. Specification Code: od20996/2019_2020

od20996/2019_2020 :Extra over for Providing and laying cement concrete 1:5:10 (1 cement : 5 coarse sand : 10 graded stone aggregate 40 mm nominal size) all - round underground PVC pipes.

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 1 cu.m				
4.1.10	Rate as per item number 4.1.10 of SH:Concrete work 	cum	1.00000	7452.6486	7452.65
	TOTAL				7452.65
	Add Water Charges @ 1%				74.53
	Add CPOH @ 15.0%				1129.08
	cost for one cum				8656.25
	say				8656.25
	Say				8656.25

6. Specification Code: 18.32.1

18.32.1	Constructing masonry chamber 30x30x50 cm inside, in brick work in cement mortar 1:4 (1 cement : 4 coarse sand) for stop cock, with C.I. surface box 100x100x75 mm (inside) with hinged cover fixed in cement concrete slab 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size), i/c necessary excavation, foundation concrete 1:5:10 (1 cement : 5 fine sand : 10 graded stone aggregate 40 mm nominal size) and inside plastering with cement mortar 1:3 (1 cement : 3 coarse sand) 12 mm thick, finished with a floating coat of neat cement complete as per standard design:With common burnt clay F.P.S (non modular) bricks of class designation 7.5				
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Code	Description	Unit	Quantity	Rate	Amount
2.8.1	All kinds of soil	cum	0.30000	258.73	77.62

2.25	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundation etc. in layers not exceeding 20 cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift up to 1.5 m. (ii) Cement concrete 1:5:10 (1 Cement : 5 fine sand : 10 graded stone aggregate 40 mm nominal size) $0.68 \times 0.68 \times 0.075 = 0.035 \text{cum}$. Say 0.04 cum	cum	0.30000	233.00	69.90
4.1.11	1:5:10 (1 cement : 5 fine sand : 10 graded stone aggregate 40 mm nominal size) (iii) Second class brick work in cement mortar 1:4 (1 Cement : 4 coarse sand) in foundations and plinth $1.66 \times 0.115 \times 0.50 = 0.095 \text{cum}$. Say 0.10 cum	cum	0.04000	6373.61	254.94
6.1.1	Cement mortar 1:4 (1 cement : 4 coarse sand) (iv) 12 mm cement plaster 1:3 (1 Cement : 3 Coarse sand) finished with a floating coat of neat cement . $1.20 \times 0.50 = 0.60 \text{ sqm}$. $0.30 \times 0.30 = 0.09 \text{ sqm}$ Total = 0.69 sqm. Say 0.70 sqm	cum	0.10000	6877.57	687.76
13.9.1	12 mm cement plaster (v) C.I surface box with hinged cover 100x100x75 mm (inside)	sqm	0.70000	376.65	263.65
1304	Surface box for stop cock (vi)	each	1.00000	161.00	161.00
9977	Carriage C.I. surface box(vii) Cement concrete 1:2:4 (1 Cement : 2 Coarse sand: 4 graded stone aggregate 20 mm nominal size) in slab= $0.53 \text{m} \times 0.53 \text{m} \times 0.075 \text{m} = 0.02107 \text{cum}$. Less surface box $0.112 \times 0.112 \times 0.076 = (-) 0.00094 \text{ cum}$. = 0.0201 cum. Say 0.02cum	L.S	1.43000	3.00	4.29
5.3	Reinforced cement concrete work in beams, suspended floors, roofs, having slope up to 15° landings, balconies, shelves, chajjas, lintels, bands, plain window sills, staircases and spiral stair cases 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). (viii) Less labour for not lifting the materials upto floor five level	cum	0.02000	11141.16	222.82

0115	Coolie (ix)	Day	-0.03800	800.00	-30.40
9999	Sundries	L.S	4.16000	3.00	12.48
					1724.07
					17.24
					1741.31
					261.2
					2002.51
					2002.5

7. Specification Code: od21039/2019_2020

od21039/2019_2020 :Supply installation testing and commissioning of water treatment plant 2000 LPH capacity with Pressure Sand filter,Activated Carbon filter, Iron removal filter,Float switches 2 nos,Filter feed pump (2000 lph,20-25 m head),chemical dosing pump((0-10) lph with all accessories complete as per the direction of engineer in charge

Code	Description	Unit	Quantity	Rate	Amount
	ONE ITEM				
MR	Supply installation testing and commissioning water treatment plant 2000 LPH capacity	each	1.00000	123671.00	123671.00
					123671.00
					1236.71
					18736.16
					143643.87
					143643.87
					143643.87

EXTERNAL SEWERAGE AND RAINWATER DRAINAGE

1. Specification Code: 50.18.9.9.1

50.18.9.9.	Providing and fixing PVC pipes includings jointing of pipes with one step PVC solvent cement, trenching,
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1	refilling & testing of Joints complete as per direction of engineer in charge.110 mm dia 6Kgf/cm2
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Code	Description	Unit	Quantity	Rate	Amount
MR54	PVC pipe 110 mm outer dia 6kgf/cm2 Add 5% for wastage etc.on (A)	metre	10.50000	236.00	2478.00
0116	Fitter(grade1)	Day	0.37000	950.00	351.50
0114	Beldar Trenching and refilling etc.	Day	0.97000	900.00	873.00
0114	Beldar	Day	0.80000	900.00	720.00
0115	Coolie	Day	0.80000	800.00	640.00
	TOTAL				5062.5
	Add Water Charge @ 1.0%				50.63
	TOTAL				5113.13
	Add CPOH @ 15.0%				766.97
	cost for 10.0 metre				5880.09
	cost for one metre				588.01
	say				588.0

Other Engineering Organisations

2. Specification Code: 50.18.9.10.1

50.18.9.10 .1	Providing and fixing PVC pipes includings jointing of pipes with one step pvc solvent cement, trenching , refilling & testing of joints complete as per direction of Engineer in Charge. 150 mm dia 6 Kgf/cm2
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Code	Description	Unit	Quantity	Rate	Amount
MR56	PVC pipe 150 mm outer dia 6kgf/cm2 Add 5% for wastage etc. on (A)	metre	10.50000	450.00	4725.00
0116	Fitter(grade1)	Day	0.37000	950.00	351.50
0114	Beldar Trenching and refilling etc.	Day	0.97000	900.00	873.00
0114	Beldar	Day	0.80000	900.00	720.00
0115	Coolie	Day	0.80000	800.00	640.00
	TOTAL				7309.5
	Add Water Charge @ 1.0%				73.1
	TOTAL				7382.6

	Add CPOH @ 15.0%				1107.39
	cost for 10.0 metre				8489.98
	cost for one metre				849.00
	say				849.0

3. Specification Code: od20996/2019_2020

od20996/2019_2020 :Extra over for Providing and laying cement concrete 1:5:10 (1 cement : 5 coarse sand : 10 graded stone aggregate 40 mm nominal size) all - round underground PVC pipes.

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 1 cu.m				
4.1.10	Rate as per item number 4.1.10 of SH:Concrete work 	cum	1.00000	7452.6486	7452.65
	TOTAL				7452.65
	Add Water Charges @ 1%				74.53
	Add CPOH @ 15.0%				1129.08
	cost for one cum				8656.25
	say				8656.25
	Say				8656.25

4. Specification Code: 19.7.1.1

19.7.1.1	Constructing brick masonry manhole in cement mortar 1:4 (1 cement : 4 coarse sand) with R.C.C. top with 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size), foundation concrete 1:4:8 mix (1 cement : 4 coarse sand : 8 graded stone aggregate 40 mm nominal size,) inside plastering 12 mm thick with cement mortar 1:3 (1 cement : 3 coarse sand) finished with floating coat of neat cement and making channels in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) finished with a floating coat of neat cement complete as per standard design:Inside size 90x80 cm and 45 cm deep including C.I. cover with frame (light duty) 455x610 mm internal dimensions, total weight of cover and frame to be not less than 38 kg (weigh of cover 23 kg and weight of frame 15 kg):With common burnt clay F.P.S. (non modular) bricks of class designation 7.5				
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Code	Description	Unit	Quantity	Rate	Amount
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4.1.8	1:4:8 (1 cement : 4 coarse sand : 8 graded stone aggregate 40 nominal size) Rate as per item number 4.1.8 of SH:Concrete work Brick work with bricks of class designation 75 in foundation & plinth in cement mortar 1:4 (1 cement : 4 coarse sand) 4.32 x0.23x0.35 m = 0.348 cum Less for pipe $2 \times 3.04 / 4 \times (0.15 \text{m})^2 \times 0.23 \text{m} = (-) 0.009 \text{ cum}$ Total = 0.340 cum	cum	0.43000	6712.08	2886.19
6.1.1	Cement mortar 1:4 (1 cement : 4 coarse sand) Cment concrete 1:2:4 (1 cement :2 coarse sand : 4 grades stone aggregate 20 mm nominal size) for benching $2 \times 0.90 \times (0.80/2) \times (0.30 + 0.20) / 2 = 0.18 \text{ cum}$ Less for pipe $1 \times 0.90 \times 3.14 / 4 \times (0.15 \text{ m})^2 = (-) 0.02 \text{ cum} = 0.16 \text{ cum}$	cum	0.34000	6877.57	2338.37
4.1.3	1:2:4 (cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) 12 mm cement plaster 1:3 (1 cement : 3 coarse sand) finished with floating coat of neat cement $3.40 \text{m} \times 0.05 \text{m} = 0.17 \text{ sqm}$ $2 \times 21/2 \times 0.80 \times 0.10 \text{ m} = 0.08 \text{ sqm}$ Total = 0.25 sqm	cum	0.16000	7839.72	1254.36
13.9.1	12 mm cement plaster Finishing Reinforced cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size) For slab : $1.36 \times 1.26 \times 0.15 \text{ m} = 0.257 \text{ cum}$ Less for cover $0.61 \times 0.455 \times 0.15 \text{ m} = (-) 0.042 \text{ cum}$ = 0.215 cum Say 0.22 cum	sqm	0.25000	376.65	94.16
5.3	Reinforced cement concrete work in beams, suspended floors, roofs, having slope up to 15 ⁰ landings, balconies, shelves, chajjas, lintels, bands, plain window sills, staircases and spiral stair cases 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). work Less labour for not lifting the materials upto floor five level	cum	0.22000	11141.16	2451.06

0115	Coolie Mild steel reinforcement for slab: 0.22 cum @ 48.06 kg/cum = 10.57 kg	Day	-0.41000	800.00	-328.00
5.22.1	Mild steel and Medium Tensile steel bars work, Form work = $0.90 \times 0.80 = 0.72$ sqm Less cover = 0.61×0.45 m = (-) 0.278 sqm = 0.42 sqm. say 0.44 sqm	kg	10.57000	84.98	898.24
5.9.3	Suspended floors, roofs, landings, balconies and access platform work LABOUR: Extra labour for making channel:	sqm	0.44000	751.34	330.59
0123	Mason (brick layer) 1st class	Day	0.06000	1000.00	60.00
0124	Mason (brick layer)2nd class	Day	0.06000	950.00	57.00
1354	Rectangular cover 455x610 mm with frame (low duty) (inside)	each	1.00000	1866.00	1866.00
9977	Carriage of C.I. cover & frame	L.S	6.76000	3.00	20.28
9999	Sundries Painting of C.I. cover & frame with coal tar	L.S	6.76000	3.00	20.28
9999	Sundries	L.S	13.52000	3.00	40.56
	TOTAL				11989.06
	Add Water Charge @ 1.0%				119.89
	TOTAL				12108.95
	Add CPOH @ 15.0%				1816.34
	cost for one each				13925.30
	say				13925.3

5. Specification Code: 19.7.2.1

19.7.2.1	Constructing brick masonry manhole in cement mortar 1:4 (1 cement : 4 coarse sand) with R.C.C. top with 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size), foundation concrete 1:4:8 mix (1 cement : 4 coarse sand : 8 graded stone aggregate 40 mm nominal size,) inside plastering 12 mm thick with cement mortar 1:3 (1 cement : 3 coarse sand) finished with floating coat of neat cement and making channels in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) finished with a floating coat of neat cement complete as per standard
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design:Inside size 120x90 cm and 90 cm deep including C.I. cover with frame (medium duty) 500 mm internal diameter, total weight of cover and frame to be not less than 116 kg (weight of cover 58 kg and weight of frame 58 kg):With common burnt clay F.P.S (non modular) bricks of class designation 7.5

Code	Description	Unit	Quantity	Rate	Amount
4.1.8	1:4:8 (1 cement : 4 coarse sand : 8 graded stone aggregate 40 nominal size) Brick work with bricks of class designation 7.5 in foundation & plinth in cement mortar 1:4 (1 cement : 4 coarse sand) $5.2 \times 0.23 \times 0.80 \text{ m} = 0.942 \text{ cum}$ Less for pipe $2 \times 3.14 / 4 \times (0.15 \text{ m})^2 \times 0.23 \text{ m} = (-) 0.008 \text{ cum}$ Total = 0.934 cum say 0.93 cum	cum	0.55000	6712.08	3691.64
6.1.1	Cement mortar 1:4 (1 cement : 4 coarse sand) Cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) for benching $2 \times 1.20 \times (0.90/2) \times (0.30 + 0.20) / 2 = 0.270 \text{ cum}$ Less for pipe $1.20 \times 3.14 / 4 \times (0.15)^2 = (-) 0.021 \text{ cum}$ Total = 0.249 cum say 0.25 cum	cum	0.93000	6877.57	6396.14
4.1.3	1:2:4 (cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) 12 mm cement plaster 1:3 (1 cement : 3 coarse sand) finished with floating coat of neat cement $4.20 \text{ m} \times 0.50 \text{ m} = 2.10 \text{ sqm}$ $2 \times 1/2 \times 0.90 \times 0.10 \text{ m} = 0.08 \text{ sqm}$ Total = 2.19 sqm	cum	0.25000	7839.72	1959.93
13.9.1	12 mm cement plaster Reinforced cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 grades stone aggregate 20 mm nominal size) For slab: $1.66 \times 1.36 \times 0.15 \text{ m} = 0.339 \text{ cum}$ Less for cover $0.7854 \times (0.50)^2 \times 0.15 \text{ m} = (-) 0.029 \text{ cum}$ = 0.31 cum	sqm	2.19000	376.65	824.86

5.3	Reinforced cement concrete work in beams, suspended floors, roofs, having slope up to 15 ⁰ landings, balconies, shelves, chajjas, lintels, bands, plain window sills, staircases and spiral stair cases 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). Less labour for not lifting the materials upto floor five level	cum	0.31000	11141.16	3453.76
0115	Coolie Mild steel reinforcement for slab: 0.31 cum @ 80.09 kg/cum = 24.83 kg	Day	-0.58000	800.00	-464.00
5.22.1	Mild steel and Medium Tensile steel bars Form work = $1.20 \times 1090 = 1.08$ sqm Less cover = $3.14/4(0.50)^2 = (-)0.196$ sqm = 0.884 sqm Say 0.088 sqm	kg	24.83000	84.98	2110.05
5.9.3	Suspended floors, roofs, landings, balconies and access platform LABOUR: Extra labour for making channel:	sqm	0.88000	751.34	661.18
0123	Mason (brick layer) 1st class	Day	0.08000	1000.00	80.00
0124	Mason (brick layer) 2nd class	Day	0.08000	950.00	76.00
1356	500 mm dia cover with frame (medium duty)	each	1.00000	5789.00	5789.00
9977	Carriage of C.I. cover & frame	L.S	6.76000	3.00	20.28
9999	Sundries Painting C.I. cover & frame with coal tar	L.S	6.76000	3.00	20.28
9999	Sundries	L.S	16.64000	3.00	49.92
	TOTAL				24668.99
	Add Water Charge @ 1.0%				246.69
	TOTAL				24915.68
	Add CPOH @ 15.0%				3737.35
	cost for one each				28653.04
	say				28653.05

6. Specification Code: 19.8.1.1

19.8.1.1	Extra for depth for manholesSize 90x80 cmWith common burnt clay F.P.S. (non modular) bricks of class designation 7.5
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Code	Description	Unit	Quantity	Rate	Amount
6.1.1	Cement mortar 1:4 (1 cement : 4 coarse sand) 12 mm cement plaster 1:3 (1 cement : 3 coarse sand) finished with floating coat of neat cement\$3.40x1 m = 3.40 sqm	cum	0.99000	6877.57	6808.79
13.9.1	12 mm cement plaster	sqm	3.40000	376.65	1280.61
	TOTAL				8089.42
	TOTAL				8089.42
	cost for one metre				8089.42
	say				8089.4

7. Specification Code: od21009/2019_2020

od21009/2019_2020 :Supplying and installing ready made Pre cast RCC Water tank including the cost of carriage, trenching, placing at the level below ground level as specified as per the direction of engineer in charge (5000 L Capacity)

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 1 no				
MR	sUPPLY OF Pre Cast RCC Water Tank - 5000 L Capacity	each	1.00000	35000.00	35000.00
9999	Sundries Carriage to site	L.S	500.00000	3.0	1500.00
2.8.1	Rate as per item number 2.8.1 of SH: Earth Work	cum	23.70000	300.51286 2375	7122.15
9999	Sundries Placing at specified level including back filling as necessary	L.S	22.42500	3.0	67.28
	TOTAL				43689.43
	Add Water Charges @ 1%				436.89
	Add CPOH @ 15.0%				6618.95
	cost for one each				50745.27
	say				50745.27
	Say				50745.27

8. Specification Code: od21014/2019_2020

od21014/2019_2020 :Supply all material and construct RCC rain water filtration tank cum collection tank of overall size 7.6x2.40x2.45m using 1:1.5:3 concrete mix etc. all complete as per the drawing and specification.

Code	Description	Unit	Quantity	Rate	Amount
2.8.1	Rate as per item number 2.8.1 of SH: Earth Work	cum	30.90000	300.51286 2375	9285.85
2.25	Rate as per item number 2.25 of SH: Earth Work	cum	30.90000	270.6295	8362.45
4.1.8	Rate as per item number 4.1.8 of SH: Concrete work	cum	2.03000	7796.0809 2	15826.04
5.9.1	Rate as per item number 5.9.1 of SH: Reinforced Cement Concrete	sqm	8.00000	357.90627 69675925 3	2863.25
5.9.2	Rate as per item number 5.9.2 of SH: Reinforced Cement Concrete	sqm	100.00000	770.88093 38607593	77088.09
5.9.3	Rate as per item number 5.9.3 of SH: Reinforced Cement Concrete	sqm	15.04000	872.68243 64377688	13125.14
5.22.6	Rate as per item number 5.22.6 of SH: Reinforced Cement Concrete	kilogram	1765.0000 0	101.26224 145	178727.86
5.1.2	Rate as per item number 5.1.2 of SH: Reinforced Cement Concrete	cum	17.65000	10302.667 60999999 9	181842.08
22.4.1	Rate as per item number 22.4.1 of SH: Water Proofing	metre	23.60000	635.08497	14988.01
13.7.1	Rate as per item number 13.7.1 of SH: Finishing	sqm	64.80000	436.19509 11551639 4	28265.44
0295	Stone Aggregate(single size):20 mm nominal size	cum	2.03000	2500.0	5075.00
0293	Stone Aggregate(single size): 40 mm nominal size	cum	2.03000	2500.0	5075.00
7753	Boulder 50 mm to 200 mm	cum	2.03000	344.0	698.32
0114	Beldar	Day	0.18300	900.0	164.70
0115	Coolie	Day	0.22330	800.0	178.64
2202	Stone aggregate below 40 mm nominal size	cum	2.03000	0.0	.00
2206	Stone aggregate 40 mm nominal size and above	cum	4.06000	0.0	.00
7751	PVC slotted pipe 150 mm dia as per IS: 12818	metre	2.00000	443.0	886.00
MR56	PVC pipe 150 mm outer dia 6kgf/cm2	metre	2.25000	450.0	1012.50

9988	Carriage and sundries	L.S	90.20000	3.0	270.60
0116	Fitter(grade1)	Day	0.15700	950.0	149.15
0114	Beldar	Day	0.41200	900.0	370.80
1356	500 mm dia cover with frame (medium duty)	each	3.00000	5789.0	17367.00
0155	Mason (average)	Day	1.80000	950.0	1710.00
0114	Beldar	Day	1.80000	900.0	1620.00
	TOTAL				564951.93
	Add Water Charges @ 1%				5649.52
	Add CPOH @ 15.0%				85590.22
	cost for one each				656191.66
	say				656191.66
	Say				656191.66

9. Specification Code: 19.33

19.33	Constructing soak pit 1.20x1.20 m filled with brickbats including S.W. drain pipe 100 mm diameter and 1.20 m long complete as per standard design.
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Code	Description	Unit	Quantity	Rate	Amount
2.8.1	All kinds of soil	cum	1.73000	258.73	447.60
0362	Brick bats 1.2x1.2x1.2 = 1.73 cum	cum	1.73000	720.00	1245.60
2260	Brick aggregate Carriage of	cum	1.73000	0.00	.00
16.8.1	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5 Second class brick edging laid length wise with half brick depth	metre	5.20000	48.59	252.67
1854	stoneware pipes grade A (60 cm long) 100 mm dia	each	2.00000	75.00	150.00
9999	Sundries LABOUR:\$For filling brick bats	L.S	25.84000	3.00	77.52
0114	Beldar	Day	0.50000	900.00	450.00

9999	Sundries	L.S	13.52000	3.00	40.56
	TOTAL				2663.94
	Add Water Charge @ 1.0%				26.64
	TOTAL				2690.58
	Add CPOH @ 15.0%				403.59
	cost for one each				3094.16
	say				3094.15

10. Specification Code: 51.19.ST4

51.19.ST4	Supplying and installing ready made PVC Septic tank including the cost of carriage, trenching, placing at the level below ground level as specified as per the direction of engineer in charge (Provision for CC/RCC/Sand/06mm aggregate for the preparation of bed shall be paid separately) 4. 35 to 50 flush capacity
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Code	Description	Unit	Quantity	Rate	Amount
MR96	PVC Septic Tank - 35 to 50 flush capacity	each	1.00000	28160.00	28160.00
9999	Sundries Carriage to site	L.S	179.40000	3.00	538.20
2.8.1	All kinds of soil (L=2.60, B=1.20, D=1.10)	cum	3.43200	258.73	887.96
9999	Sundries Placing at specified level including back filling as necessary	L.S	22.42500	3.00	67.28
	TOTAL				29653.43
	Add Water Charge @ 1.0%				296.53
	TOTAL				29949.96
	Add CPOH @ 15.0%				4492.49
	cost for one each				34442.46
	say				34442.45

EXISTING CLASS ROOMS CONVERTED TO SMART CLASS ROOMS

1. Specification Code: 14.46

14.46	Removing dry or oil bound distemper, water proofing cement paint and the like by scrapping, sand papering and preparing the surface smooth including necessary repairs to scratches etc. complete.
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Code	Description	Unit	Quantity	Rate	Amount
0114	Beldar	Day	0.11000	900.00	99.00
0115	Coolie	Day	0.05000	800.00	40.00
0101	Bhisti	Day	0.05000	800.00	40.00
9999	Sundries Scraper, sand paper etc.	L.S	6.24000	3.00	18.72
9999	Sundries including mortar to repair the surface	L.S	1.82000	3.00	5.46
	TOTAL				203.18
	Add Water Charge @ 1.0%				2.03
	TOTAL				205.21
	Add CPOH @ 15.0%				30.78
	cost for 10.0 sqm				235.99
	cost for one sqm				23.60
	say				23.6

2. Specification Code: 14.53.1

14.53.1	Wall painting with plastic emulsion paint of approved brand and manufacture to give an even shade:One or more coats on old work
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Code	Description	Unit	Quantity	Rate	Amount
0835	Plastic emulsion paint	Litre	0.73000	246.00	179.58
9999	Sundries Materials for filling in holes and cracks (putty etc.)	L.S	0.52000	3.00	1.56
9977	Carriage of materialsLABOUR:	L.S	5.33000	3.00	15.99
0131	Painter	Day	0.36000	850.00	306.00
0115	Coolie	Day	0.36000	800.00	288.00
9999	Sundries Brushes, sand paper etc	L.S	8.06000	3.00	24.18

9999	Sundries	L.S	6.76000	3.00	20.28
	TOTAL				835.59
	Add Water Charge @ 1.0%				8.36
	TOTAL				843.95
	Add CPOH @ 15.0%				126.59
	cost for 10.0 sqm				970.54
	cost for one sqm				97.05
	say				97.05

3. Specification Code: 11.47.2

11.47.2	Providing and laying Vitrified tiles in different sizes (thickness to be specified by the manufacturer), with water absorption less than 0.08% and conforming to IS : 15622, of approved brand & manufacturer, in all colours and shade, in skirting, riser of steps, laid with cement based high polymer modified quick set tile adhesive (water based) conforming to IS : 15477, in average 6 mm thickness, including grouting of joints (Payment for grouting of joints to be made separately). Size of Tile 600x600 mm
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Code	Description	Unit	Quantity	Rate	Amount
8621	Vitrified floor tile 60x60 cm	sqm	1.02500	865.00	886.62
9977	Carriage of tiles	L.S	6.24000	3.00	18.72
8731	High polymer modified quickset tile adhesive LABOUR:	kg	10.00000	17.00	170.00
0123	Mason (brick layer) 1st class	Day	0.25000	1000.00	250.00
0115	Coolie	Day	0.50000	800.00	400.00
9988	Carriage and sundries of quick set polymer etc.	L.S	26.91000	3.00	80.73
	TOTAL				1806.07
	Add Water Charge @ 1.0%				18.06
	TOTAL				1824.14
	Add CPOH @ 15.0%				273.62
	cost for one sqm				2097.76
	say				2097.75

4. Specification Code: 14.54.1

14.54.1	Painting with synthetic enamel paint of approved brand and manufacture of required colour to an give even shade:One or more coats on old work
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Code	Description	Unit	Quantity	Rate	Amount
0833	Synthetic enamel paint in black or chocolate shade	Litre	0.70000	194.00	135.80
9977	Carriage of paint and materialsLABOUR:	L.S	0.52000	3.00	1.56
0131	Painter	Day	0.36000	850.00	306.00
0115	Coolie	Day	0.36000	800.00	288.00
9999	Sundries Putty	L.S	2.73000	3.00	8.19
9999	Sundries Brushes sand paper etc.	L.S	5.33000	3.00	15.99
9999	Sundries	L.S	8.06000	3.00	24.18
	TOTAL				779.72
	Add Water Charge @ 1.0%				7.8
	Other Engineering Organisations TOTAL				787.52
	Add CPOH @ 15.0%				118.13
	cost for 10.0 sqm				905.64
	cost for one sqm				90.56
	say				90.55

SIGNAGE AND BOARDS

1. Specification Code: od219849/2019_2020

od219849/2019_2020 :Providing and fixing of Advance Direction / Way finding / Reassurance Sign board of size 1000 mm x 1500 mm made out of Type-XI encapsulated lens type retro reflective sheeting wide. Base Sheeting shall be of White Color type IV class B retro reflective sheeting fixed over 2 mm thick Aluminium Composite Material sheet with area exceeding 0.9 sqm fixed over back support frame of M.S.Angle 35 x 35 x 5 mm all round mounted on two 50 mm dia MS Pipe with clear height of not less than 2.1 m from the ground level to the bottom of the board as per approved drawings.
The sign post should be painted with one coat of red oxide paint and two coats of 1 st quality synthetic enamel paint Black & white colour with bands of 30 cm height. The sign post shall be firmly fixed in to the ground by means of properly designed foundation with M15 grade concrete size 450mm x 450mmx 600 mm, including cost,conveyance of all materials, equipment,machinery and labour with all leads and lift,loading charges

necessary for satisfactory completion of the work as directed by Engineer in-Charge.

Code	Description	Unit	Quantity	Rate	Amount
MR	AS per quote recieved	each	1.00000	10134.00	10134.00
	TOTAL				10134.00
	Add Water Charges @ 1%				101.34
	Add CPOH @ 15.0%				1535.30
	cost for one each				11770.64
	say				11770.64
	Say				11770.64

2. Specification Code: od219850/2019_2020

od219850/2019_2020 :Supply and fixing sticker type signage at site (on door or similar locations) in proper line & level. The signage letters shall be made with premium quality vinyl sheet of approved colour, pasted on "3M"make self-adhesive film of approved colour, including supply of all material labour etc. required for proper completion of work. Before making the signage text & font of letters in best fit size will be set in computer so as to give aesthetic look as per sample available with ITD

Code	Description	Unit	Quantity	Rate	Amount
MR	As per quote received	sqcm	1.00000	0.59	.59
	TOTAL				.59
	Add Water Charges @ 1%				.01
	Add CPOH @ 15.0%				.09
	cost for one sqcm				.69
	say				0.69
	Say				0.69

3. Specification Code: od219851/2019_2020

od219851/2019_2020 :Supply and fixing bilingual signage in English. The signage letters will be made with premium quality vinyl sheet of approved colour, pasted on 3mm thick aluminium composite panel backing. The signage will be either fixed on the wall with the screws & double tape or hanged from the false ceiling with the help of hooks & chains complete work.

Code	Description	Unit	Quantity	Rate	Amount
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MR	Rate as per quote 	sqcm	1.00000	0.60	.60
	TOTAL				.60
	Add Water Charges @ 1%				.01
	Add CPOH @ 15.0%				.09
	cost for one sqcm				.70
	say				0.70
	Say				0.70

4. Specification Code: od219852/2019_2020

od219852/2019_2020 :Supply & fixing 5 mm thick aluminum compressed Panel (ACP) sheet in the required size for building name signage. The sheet will be cut into size as per the size of signage to be fixed in position (Stone façade, grit wash, gypsum board etc.) with screws & tape including s/o all material labour T&P etc. required for proper completion of work.

Code	Description	Unit	Quantity	Rate	Amount
MR	Rate as per quote	sqcm	1.00000	1.05	1.05
	TOTAL				1.05
	Add Water Charges @ 1%				.01
	Add CPOH @ 15.0%				.16
	cost for one sqcm				1.22
	say				1.22
	Say				1.22

5. Specification Code: od219853/2019_2020

od219853/2019_2020 :Supply & fixing stainless steel (SS) letters made with SS-304 grade 20 gauge sheet as per the approved size & shade including fixing on ACP sheet in required height line & level including s/o all T&P etc. required for proper completion of work. Before making the letters the font & size will be got approved from ITD.

Code	Description	Unit	Quantity	Rate	Amount
MR	Rate as per quote	sqcm	1.00000	1.38	1.38
	TOTAL				1.38
	Add Water Charges @ 1%				.01
	Add CPOH @ 15.0%				.21

	cost for one sqcm				1.60
	say				1.60
	Say				1.60

6. Specification Code: od219854/2019_2020

od219854/2019_2020 :Supply and fixing symbol signage such as No. Smoking, No Spitting, Drinking Water etc. signage of standard sizes as per conventional design/ colour code on 3 mm thick aluminium composite panel. The signage will be either fixed on the wall with the help of screws & double tape or hanged from the false ceiling with the help of chain & screws etc. complete work.

Code	Description	Unit	Quantity	Rate	Amount
MR	Rate as per quote	sqcm	1.00000	0.59	.59
	TOTAL				.59
	Add Water Charges @ 1%				.01
	Add CPOH @ 15.0%				.09
	cost for one sqcm				.69
	say				0.69
	Say				0.69

7. Specification Code: od219855/2019_2020

od219855/2019_2020 :Printing of floor plans on approx. A2 size poster sheet with indelible ink framing the same in 3mm thick acrylic sheet and 1" studs complete. The floor plans will be fixed on the wall with the help of screws and double tape etc. to give neat & finished look

Code	Description	Unit	Quantity	Rate	Amount
MR	Rate as per quote	each	1.00000	1622.87	1622.87
	TOTAL				1622.87
	Add Water Charges @ 1%				16.23
	Add CPOH @ 15.0%				245.86
	cost for one each				1884.96
	say				1884.96
	Say				1884.96



Other Engineering Organisations

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