

Sl. No	Particulars	Unit	Box	No	L	B	D	Qty/Unit	Rate in Rs.	Amount in Rs.					
1	2	3	4	5	6	7	8	9	10	11					
3	2.2.1. Providing and laying in position Reinforced cement concrete for all Foundation works. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticizers laid in finished layers, well compacted using needle vibrators, including all lead & lifts, cost of all materials, quality confirming to the requirements of relevant IS codes, labour, Usage charges of machinery, curing and all the other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork to be paid separately) M20 Design Mix Using 20 mm nominal size graded crushed coarse aggregates. (PWD Schedule of Rates 2023-2024 Vol No.1, Page No:15, Item No:2.2.1)														
	Footing			1	x	0.50	x	0.50	x	0.575	=	0.14375			
		cum	1									0.14375			
		Nos		9								1.29375	cum	7323.10	9474.00
	Basic Rate	Scaffolding @4%			Total	AW @ 12%		Total							
	6184.00	251.48			6435.48	784.6176		7220.10							
4	2.4.2 Providing and laying in position Reinforced cement concrete for all Sub structures of building, Irrigation works, Sub structure works of bridges, Drain works & other parallel works from 0.50m to 3.50 m height. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticisers, laid in layers, well compacted using needle vibrators, providing weep holes wherever necessary, including all lead & lifts, cost of all materials of quality, confirming to the requirements of relevant IS codes, labour, Usage charges of machinery, curing and all other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork to be paid separately) M20Design Mix Using 20 mm nominal size graded crushed coarse aggregates. (PWD Schedule of Rates 2023-2024 Vol No.1, Page No:16, Item No:2.4.2)														
	Column			1	x	(0.35+0.25)/ 2	x	(0.35+0.25))/2	x	1	=	0.09000			
	Cap			1/3		0.25	x	0.25	x	0.05		0.00104			
		cum	1									0.09104			
		Nos		9								0.81938	cum	7789.94	6383.00
	Basic Rate	Scaffolding @10%			Total	AW @ 12%		Total							
	6221.00	622.1			6843.10	821.172		7664.27							
5	2.11 Steel Fabrication Supplying, fitting and placing TMT FE 550 / 550D Steel Reinforcement including cost of all materials, machinery, labour, cleaning, straightening, cutting, bending, hooking, laping/welding joints, tying with binding wire / soft annealed steel wire and other ancillary operations complete as per drawing and technical specification. (PWD Schedule of Rates 2023-2024 Vol No.1 Page No:18, Item No: 2.11h)														
Calculation Sheet for Steel										Calculation Sheet for Rings (RMTR)					
Calculation Sheet for Pillar	a) 10mm dia vertical bars		4	Nos.	Total length from Top to Bottom + Bent				Details	Particular	Nos.	RMTR			
				=	1.6 + 0.08				8 mm dia meter 130 mm c/c bars 12 nos.	12 Rings from bottom to top	Ring No 1	1.4000			
				=	1.68 RMTR						Ring No 2	1.3440			
				=	4 X 1.68 =6.72 RMTR						Ring No 3	1.2880			
				=	6.72 X 0.62 kg/m						Ring No 4	1.2360			
	Total			=	4.17 kg						Ring No 5	1.1800			
	b) 8 mm dia Rings		12	Nos.	Total RMTR of 12 Rings + Bent for Rings						Ring No 6	1.1280			
				=	13.192 + 0.768						Ring No 7	1.0720			
				=	13.96 RMTR						Ring No 8	1.0160			
				=	13.96 X 0.39 kg/m						Ring No 9	0.9640			
	Total			=	5.44 kg						Ring No 10	0.9080			
	Grand Total (a+b)			=	9.61 Kg	tonne	0.00961				Ring No 11	0.8560			
									Ring No 12	0.8000					
									Total	13.1920					
Pillar	tonne		1					0.00961							
	Nos		9					0.08649	tonne	89621.28				7751.00	
Basic Rate	AW @ 12%			Total											
80019.00	9602.28			89621.28											

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1	2	3	4	5	6	7	8	9	10	11	
6	2.11 Steel Fabrication Supplying, fitting and placing TMT FE 550 / 550D Steel Reinforcement including cost of all materials, machinery, labour, cleaning, straightening, cutting, bending, hooking, laping/welding joints, tying with binding wire / soft annealed steel wire and other ancillary operations complete as per drawing and technical specification. (PWD Schedule of Rates 2023-2024 Vol No.1 Page No:18, Item No: 2.11h)										
Calculation Sheet for Footing											
Footing including Jali at the bottom	a) 10mm dia corner vertical bars		4	Nos.	Total RMTS + Bent						
				=	0.55+0.08						
				=	0.63 RMTR						
				=	4 X 0.63						
				=	2.52 RMTR						
				=	2.52 X 0.62						
			Total	=	1.56 kg						
	b) 10 mm dia Bars for Jali (Border)		4	Nos.	Total RMTR + Bent						
				=	4(0.45)+0.08						
				=	1.8+0.08						
				=	1.88 RMTR x 0.62 =1.17 kg.						
	Bars for jali Bottom		4	Nos.							
	For Top		2	Nos.							
	Total		6	Nos.							
				=	6 x 0.45						
				=	2.7 RMTR x 0.62 =1.674/kg						
	c) 10mm dia corner vertical bars		3	Nos.	Total RMTS + Bent						
			=	1.8 +0.0064							
			=	1.864							
			=	3 X 1.864							
			=	5.592 RMTR x 0.39 kg/m							
			=	2.18 kg							
			=	1.56+1.17 + 1.674 +2.18							
			=	6.58 kg							
Pillar	tonne		1						0.00658	tonne	0.00658
	Nos		9						0.05922	tonne	89621.28
Basic Rate	AW @ 12%		Total								
80019.00	9602.28		89621.28								
7	12.3A Refilling available earth around trenches/pipelines, cables in layers not exceeding 20 cms in depth. Compacting each deposited layer by ramming after watering with a lead upto 50m, and lift upto 1.5m including cost of all labour complete as per specifications. (PWD Schedule of Rates 2023-2024 Vol No.I, Page No:7, Item No:1.10)										
Earth Work			1	x	0.80	x	0.80	x	0.6	=	0.38400
Deduction					0.80	x	0.80	x	0.075	=	0.04800
					0.50	x	0.50	x	0.525	=	0.13125
	cum	1								=	0.20475
	Nos		9							=	1.84275
Basic Rate	AW @ 12%		Total								
160.00	19.2		179.20								
8	8.10 Providing 6 mm cement plaster with cement mortar 1:3 (1 cement: 3 fine sand) on concrete surface/ceilings including rounding off corners wherever required smooth rendering. Providing and removing scaffolding. Including cost of materials, labour; curing complete as per specifications and as per directions of Engineer-in-charge.(PWD Schedule of Rates 2023-2024 Vol No.2, Page No:43, Item No:8.10)										
Calculation Sheet											
Cap			1/2 x base x slant ht x 4 nos.								
			0.5 x 0.25 x 0.135 x 4 nos.								
			0.0670 sq.mtr.					0.0670	sqm		
Column			(0.35 + 0.25)/2 x 1 x 4 nos.								
			0.30 x 1 x 4 nos								
			1.20 sq.mtr.					1.2000	sqm		
Footing Upper surface			(0.5 + 0.5) - (0.35 x 0.35)								
			= 0.25 - 0.1225 = 0.1275								
			0.128 sq.mtr.					0.1280	sqm		
Footing Side surface			0.5 x 0.5 x 4								
			0.100 sq.mtr					0.1000	sqm		
	sq.m	1							1.4950	sqm	
	Nos		9						13.4550		
Basic Rate	AW @ 12%		Total								
210.00	25.2		235.20						236.32	3180.00	

