

ESTIMATE

[illegible]

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		19								2.73125	cum	7323.10	20001.00
	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	$\frac{(0.35+0.25)}{2}$	x	$\frac{(0.35+0.25)}{2}$	x	1	=	0.09000			
	Cap			1/3		0.25	x	0.25	x	0.05		0.00104			
		cum	1									0.09104			
		Nos		19								1.72979	cum	7789.94	13475.00
	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			8 mm dia meter 130 mm c/c bars 12 nos.	Details	Particular	Nos.	RMTR			
				=	1.6 + 0.08										
				=	1.68 RMTR										
				=	4 X 1.68 =6.72 RMTR										
				=	6.72 X 0.62 kg/m										
	Total			=	4.17 kg										
	b) 8 mm dia Rings		12	Nos.	Total RMTR of 12 Rings + Bent for Rings										
				=	13.192 + 0.768										
				=	13.96 RMTR										
				=	13.96 X 0.39 kg/m										
	Total			=	5.44 kg										
	Grand Total (a+b)			=	9.61 Kg	tonne	0.00961								
Pillar	tonne		1					0.00961							
	Nos		19					0.18259	tonne	89621.28		16364.00			
Basic Rate	AW @ 12%			Total											
80019.00	9602.28			89621.28											

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		
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							
Grand Total Steel for Footing				=	1.56+1.17 + 1.674 +2.18							
				=	6.58 kg					tonne	0.00658	
Pillar	tonne		1						0.00658			
	Nos		19						0.12502	tonne		
Basic Rate	AW @ 12%		Total							89621.28	11204.00	
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		19							= 3.89025	cum 179.20 697.00	
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		19						28.4050	236.32 6713.00		
Basic Rate	AW @ 12%		Total									
210.00	25.2		235.20									

