

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		18								2.58750	cum	7323.10	18949.00
	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		18								1.63875	cum	7789.94	12766.00
	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										
		Total		=	13.96 X 0.39 kg/m										
				=	5.44 kg										
	Grand Total (a+b)			=	9.61 Kg	tonne	0.00961								
	Pillar	tonne		1					0.00961						
		Nos		18					0.17298	tonne	89621.28		15503.00		
	Basic Rate	AW @ 12%			Total										
	80019.00	9602.28			89621.28										
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 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										
		Total		=	1.56 kg			2.52 X 0.62							

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1	2	3	4	5	6	7	8	9	10	11
	Footing incl	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		18					0.11844	tonne
	Basic Rate	AW @ 12%		Total					89621.28	10615.00
	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		18						=
										3.68550
									cum	179.20
										660.00
	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/cellings 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		18				26.9100		236.32
										6359.00
	Basic Rate	AW @ 12%		Total						
	210.00	25.2		235.20						

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1	2	3	4	5	6	7	8	9	10	11
9	8.29 Finishing walls with textured exterior paint of required shade :New work (Two coats applied @ 3.28 ltr/10 m²) over and including priming coat of exterior primer applied @ 2.20kg/10 m² to give an even shade after thoroughly brooming the surface to remove all dirt, dust, mortar drops and foreign matter including preparing the surface even and sand paper smooth, cost of materials, labour complete as per specifications and as per directions of Engineer-in-charge. (PWD Schedule of Rates 2023-2024 Vol No.2, Page No:45, Item No:8.29)									
	Dimensions as per item - no.8								1.49500	
		sqm	1						1.49500	
		Nos		18					26.91000	sqm 316.96
	Basic Rate	AW @ 12%		Total						
	283.00	33.96		316.96						
10	8.49 Lettering with black/red Japan paint of approved brand and manufacture to give an even shade including preparing the surface after thoroughly cleaning the surface to remove all dirt, dust and foreign matter, cost of materials, labour complete as per specifications and as per directions of Engineer-in-charge. (PWD Schedule of Rates 2023-2024 Vol No.2, Page No:49, Item No:8.49)									
	per letter per cm height									
		cm	2		250.00				500.000	
		Nos		18					9000.000	cm 4.48
	Basic Rate	AW @ 12%		Total						
	4.00	0.48		4.48						
	Sub Total									121811.00
11	Add GST Charges 18%									21926.00
12	Miscellaneous and Unforeseen Charges									3492.00
	Total Amount									147229.00
PART-B										
13	Documentation and Other Charges									12071.00
	Grand Total Amount									159300.00

Amount Rs. 159300.00 (One Lakh Fifty Nine Thousand Three Hundred Only)

CERTIFICATE:

1. Certified that the work /amount claimed in this estimate has not been claimed in any of the previous decade (10 Years) estimates and the same work is found essential in the interest of government.
2. The above works are to be included in the Sanctioned APO for the year 2026-27
3. The above rates are claimed as per the PWD CSR for the year 2023-24
4. The Estimate for similar structure has been technically scrutinized by the competent authority i.e., ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಇಂಜಿನಿಯರ್, ಲೋಕೋಪಯೋಗಿ ಇಲಾಖೆ, ಶಿವಮೊಗ್ಗ ಇವರ ಪತ್ರ ಸಂಖ್ಯೆ: ಸಕಾಇಂ/ಲೋಇ/ನಂ-1/ಉವಿಶಿ/ಡಿ.ಎಂ/ತಾಂ.ಪ/195/2026-27 ದಿನಾಂಕ:20.05.2026 ರಂತೆ

Technically Scrutinized for Rs: 159300.00 (One Lakh Fifty Nine Thousand Three Hundred Only)

(Mahesh B.C.)
Range Forest Officer, Unit-1
Working Plan & Survey, Shivamogga.
(Gnanananda S.)
Assistant Conservator of Forests,
Working Plan and Survey, Shivamogga.

2406-01-003-E & T-0-01-WPR & TI-140
BUDGET HEAD : MINOR WORKS
S.O. No 05/2026-27 dated: 05/06/2026
Sanctioned for Rupees 159300/- [One lakh Fifty nine thousand Three hundred Only]
Deputy Conservator of Forests and Technical Assistant to Conservator of Forests Working Plan and Survey, Shivamogga.