



Karnataka
Forest
Department

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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		28								4.02500	cum	7323.10	29475.00
	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		28								2.54917	cum	7789.94	19858.00
	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											
		Nos		28											
	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														
	adding Jali at the bottom	a) 10mm dia corner vertical bars		4	Nos.	Total RMTRs + Bent									
					=	0.55+0.08									
					=	0.63 RMTR									
					=	4 X 0.63									
					=	2.52 RMTR									
					=	2.52 X 0.62									
		Total			=	1.56 kg									

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1	2	3	4	5	6	7	8	9	10	11	
	Footings 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			28					0.18424	
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		28							=	5.73300	cum	179.20
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

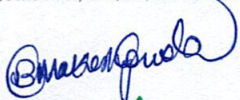
Cap		1/2 x base x slant ht x 4 nos.					
		0.5 x 0.25 x 0.135 x 4 nos.					
		0.0670 sq.mtr.		0.0670	sqm		
Column		(0.35 + 0.25)/2 x 1 x 4 nos.					
		0.30 x 1 x 4 nos					
		1.20 sq.mtr.		1.2000	sqm		
Footing Upper surface		(0.5 + 0.5) - (0.35 x 0.35)					
		= 0.25 - 0.1225 = 0.1275					
		= 0.128 sq.mtr.		0.1280	sqm		
Footing Side surface		0.5 x 0.5 x 4					
		0.100 sq.mtr		0.1000	sqm		
	sq.m	1					
	Nos		28				
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		28					41.86000	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		28					14000.000	cm	4.48
	Basic Rate	AW @ 12%		Total						
	4.00	0.48		4.48						
	Sub Total									189483.00
11	Add GST Charges 18%									34107.00
12	Miscellaneous and Unforeseen Charges									5432.00
	Total Amount									229022.00
PART-B										
13	Documentation and Other Charges									18778.00
	Grand Total Amount									247800.00

Amount Rs. 247800.00 (Two Lakh Fourty Seven Thousand Eight 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



(Mahesh B. C.)

Range Forest Officer, Unit-1
Working Plan & Survey, Shivamogga.

Technically Scrutinized for Rs: 247800.00 (Two Lakh Fourty Seven Thousand Eight Hundred Only)



(Gnanasanda S.)

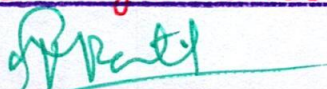
Assistant Conservator of Forests,
Working Plan and Survey, Shivamogga.

4406-01-101-0-01-132

BUDGET HEAD : Other Capital Expenses (D&P)

S.O. No 71/ಬಿ0ಬಿ6-ಇ7 date: 05/06/2026

Sanctioned for Rupees ₹47800/- [Two lakh fourty seven thousand eight hundred only]



Deputy Conservator of Forests
and Technical Assistant to Conservator of Forests
Working Plan and Survey, Shivamogga.