

GOVERNMENT OF KARNATAKA



OFFICE OF THE CONSERVATOR OF FORESTS, WORKING PLAN & SURVEY, SHIVAMOGGA

ESTIMATE

Name of the Work :	Construction of RCC Pillars for the Demarcation of Surveyd Boundary of "Protected Forest" during the year 2026-27											
Name of the Forest:	Negawadi MF					Legal Status:		Reserved Forest				
Budget Head:	2406-01-003-E&T-0-01-140-Minor Works											
Location:	Negawadi MF				RFO Unit :		6		Estimated Amount:		159300.00	
Range:	Anavatti				Subdivision:		Soraba		Division:		Sagara	
District:	Shivamogga				Taluk:		Soraba		LA Constituency:		Soraba	
GPS Reading:	N 14.496517 E75.163630				No. of Boundary Marks:				D Line in Kms:		5.00	
									No RCC Pillars:		18	
Rate :	As per PWD CSR 2023-24											
Specification:	As per OM issued by the O/o The PCCF(HOFF), Bangalore vide OM No:KFD/WP/A1(BUD)/5/2024 Dated:22.07.2024 & KFD/DEV/B1/SSR/1/2026-DEV-KFD E-2185876 Dated: 01.04.2026											
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		
PART-A												
1	1.5 Earth work excavation by manual means for drains, canals, waste weir draft, approach channels. key trench, foundation of Bridges and such similar works, as per drawing and technical specifications including setting out, shoring, strutting, barricading, caution lights, excavated surface leveled and sides neatlydressed disposing off or leveling the excavated stuff or sorting & stacking the selected stuff for reuse in a radius of 50 m and lift upto 1.5 m including cost of labour, tools, usage & other appurtenances required to complete the work. In ordinary/soft rock without blasting upto 1.5 m depth. (PWD Schedule of Rates 2023-2024 Vol No.1, Page No:6, Item No:1.5.1)											
	Pit			1	x	0.80	x	0.80	x	0.6	=	0.384
		cum	1									0.384
		Nos		18								6.912
	Basic Rate	AW @ 12%		Total								
	299.00	35.88		334.88								
2	2.1.3 Providing and laying in position plain cement concrete for levelling course for all works in foundation. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed, laid in layers not exceeding 150 mm thickness, well compacted using plate vibrators, including all lead & lifts, cost of all materials of quality, labour, Usage charges of machineries, curing, and all the other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork shall be paid separately) Mix 1:3:6 (M10) Using 40 mm nominal size graded crushed coarse aggregates. (PWD Common SR 2023-24Vol-1 Pg.No.15 It.No.2.1.3)											
	Bed			1	x	0.80	x	0.80	x	0.075	=	0.048
		cum	1									0.048
		Nos		18								0.864
	Basic Rate	AW @ 12%		Total								
	5918.00	710.16		6628.16								

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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)																																																																																																																																																																
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	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)																																																																																																																																																																
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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			
	Footing including Jali at the bottom	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 RMTR + 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							
		Grand Total Steel for Footing			=	6.58 kg				tonne	0.00658		
	Pillar	tonne			1					0.00658			
		Nos			18					0.11844	tonne 89621.28 10615.00		
	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			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										

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
9	8.29 Finishing walls with textured exterior paint of required shade :New work (Two coats applied @ 3.28 ltr/10 m ²) over and including priming coat of exterior primer applied @ 2.20kg/10 m ² 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
	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

(Maliyappa S Hullatti)
Range Forest Officer Unit-06
Working Plan & Survey, Shivamogga.

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

(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 38/2026-27 Date: 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.