



**KARNATAKA FOREST DEPARTMENT
WORKING PLAN & FOREST SURVEY, BELAGAVI
ESTIMATE FOR THE YEAR 2026-27**

NAME OF		Survey and demarcation and Construction of Forest Boundary Demarcation Pillars in Section -33 Proposed area										
DIVISION:		Bagalkot										
RANGE:		Bagalkot	Km	Forest Boundary demarcation Pillar (Nos.)		Latitude		Longitude				
LOCATION :		Mugalolli Sy.No. 25/1A	0.40	5		16.24683		75.73886				
		Shirur Sy.No. 767	0.58	7		16.15597		75.79950				
		Total :		0.98		12						
UNIT												
Budget Head		"2406-04-103-1-01-CA-140-Minor Works (State CAMPA) "										
Sl. No.	S.S.R Item No	Particulars of work				Quantity	Rate	per	Amount (Rs.)			
Part-A (Survey and Demarcation Work)												
1	101(a) (i)	Survey and demarcation of Forest/block/ compartment boundary including clearing of jungle growth to a width 2 meter by engaging a gang of following persons										
		Particulars		Thin Growth								
		Head Mazdoor		1								
		Chain men		2								
		Alignment coolies		2								
		Peg mazdoor		1								
		Jungle clearing		5								
		Camp servant		1								
		Total :		12								
		Work done per day = 40 Chains i.e. 20M X 40 =0.8 Km										
2	(ii)	In areas with thin under growth. 2 meters wide clearance Mazdoor requirement for 1 km = 12/0.8 = 15.				0.980	9318.59	km	9132.22			
3	101(b)	Engaging qualified Surveyor @ one manday for 0.80 km of work.				0.980	901.38	km	883.35			
4	101(c)	Engaging qualified Draughtsman @ one manday for 0.80 km of work.				0.980	901.38	km	883.35			
5	101(d)	Fixing the reference point/bench mark on the ground with reference to the map and surveying the tie lines for measuring the accuracy of the survey work done. @ 10% of the rate provided for item (a)										
6		(ii) In areas with thin under growth				0.980	931.86	km	913.22			
10		Miscellaneous expenditure like Technically Scrutiny Charges fore PART - B, e-tender Advertisement (in leading news papers), documentation, vehicle hiring charges, Xerox, purchase of Software, Toposheets, village maps, Survey equipments, Imageries, Medicines, field bags, Water bottles/Water cans, stationary items Lamination of Maps/CADD charges, Photo print, Albums etc.				LS		1623.11				
						Total of PART A:		13435.26				
Part-B (Construction of Forest boundary demarcation Pillars Work)												
S.No	Descrip tion of Work	Unit	Box	No	L	B	D	Qty	Rate	Amount (in Rs.)	Qty (Nos.)	Total Amount (in Rs.)
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 (Area Weightage 12%) (PWD Schedule of Rates 2023-2024 Vol No.1, Page No:6, Item No:1.5.1)											
	Pit	cum		1	0.80	0.80	0.60	0.38	334.88	128.59	12	1543.08

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 (Area Weightage 12%,) (PWD Common SR 2023-24 Vol-I Pg.No.15 It.No. 2.1.3)												
	Bed	cum	1	1	0.80	0.80	0.075	0.05	6628.16	331.41	12	3976.92	
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.(Area Weightage 12%, Form Work 8 %) (PWD Schedule of Rates 2023-2024 Vol No.1, Page No:15, Item No:2.2.1)												
	Footing	cum	1	1	0.50	0.50	0.575	0.140	7480.17	1047.22	12	12566.64	
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 (Area Weightage 12%, Form Work 70 %) (PWD Schedule of Rates 2023-2024 Vol No.1, Page No:16, Item No:2.4.2)												
	Column			1	(0.35+0.25)/2	(0.35+0.25)/2	1.00	0.090					
	Cap			1/3	0.250	0.250	0.050	0.001					
		cum	1					0.091	11844.78	1077.87	12	12934.44	
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. (Area Weightage 12%,) (PWD Schedule of Rates 2023-2024 Vol No.1 Page No:18, Item No: 2.11h)												
	Pillar	Tonne	1	AS PER CALCULATION SHEET				0.00961	78118.88	750.72	12	9008.64	
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. (Area Weightage 12%) (PWD Schedule of Rates 2023-2024 Vol No.1 Page No:18, Item No: 2.11h)												
	Footing	Tonne		AS PER CALCULATION SHEET				0.00658	78118.88	514.02	12	6168.24	
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. (Area Weightage 12%) (PWD Schedule of Rates 2023-2024 Vol No.1, Page No:7, Item No:1.10)												
	Earth work		1	0.80	0.80	0.600	0.384						
	Deduction			0.80	0.80	0.075	0.048						
				0.50	0.50	0.525	0.131						
		cum	1				0.205	179.2	36.69	12	440.28		
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. (Area Weightage 12%) (PWD Schedule of Rates 2023-2024 Vol No.2, Page No:43, Item No:8.10)												
	Cap	AS PER CALCULATION SHEET						0.067					
	Column							1.200					
	Footing upper surface							0.128					
	Footing side							0.100					
		Sq.m	1					1.495	235.2	351.58	12	4218.96	
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. (Area Weightage 12%) (PWD Schedule of Rates 2023-2024 Vol No.2, Page No:45, Item No:8.29)												
	Dimensions as per - item no.8												
		Sq.m	1					1.495					
								1.495	316.96	473.79	12	5685.48	

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. (Area Weightage 12%) (per letter per cm height) (PWD Schedule of Rates 2023-2024 Vol No.2, Page No:49, Item No:8.49)

	cm	2	250.00		500.00	4.48	2240.00	12	26880.00
Total of PART B:									83422.68
Grand Total of (PART A & PART B):									96857.94
Add GST 18% :									17142.27
Total :									114000

CERTIFICATE

- 1 Certified that the estimate has been prepared as per the sanctioned schedule rates of the Karnataka Forest Department for the year 2026-27
- 2 Certified that the rates adopted in this estimate are as per the schedule of rates of PWD for the year 2023-24
- 3 Certified that the above estimates of work is not included in any previous estimates.
- 4 Certified that the above estimates of work has been included in the sanctioned Annual Plan of Operations for the year 2026-27
- 5 Estimate has been prepared with respect to site specific requirements.


Range Forest Officer (UNIT-)
Working Plan & Forest survey,
Belagavi



**KARNATAKA FOREST DEPARTMENT
WORKING PLAN & FOREST SURVEY, BELAGAVI
ESTIMATE FOR THE YEAR 2026-27**

NAME OF WORK:		Survey and demarcation and Construction of Forest Boundary Demarcation Pillars in Section-33 Notified Area.										
DIVISION:		Belagavi										
RANGE:		Bhimagad Wildlife		Km		Forest Boundary demarcation Pillar (Nos.)		Latitude		Longitude		
LOCATION :		Kelil Krishnapur Sy.No. 22/42		0.606		7		15.56248		74.28045		
		Total :		0.606		7						
UNIT												
Budget Head		2406-04-103-1-01-CA-140-Minor Works (State CAMP A)										
Sl. No.	S.S.R Item No	Particulars of work					Quantity	Rate	per	Amount (Rs.)		
Part-A (Survey and Demarcation Work)												
1	101(a) (i)	Survey and demarcation of Forest/block/ compartment boundary including clearing of jungle growth to a width 2 meter by engaging a gang of following persons										
		Particulars						Thick Growth				
		Head Mazdoor						1				
		Chain men						2				
		Alignment coolies						2				
		Peg mazdoor						1				
		Jungle clearing						14				
		Camp servant						1				
		Total :						21				
		Work done per day = 40 Chains i.e. 20M X 40 =0.8 Km										
		(i) In areas with thick under growth. 3 meters wide clearance Mazdoor requirement for 1 km = 21/0.8 = 26.25					0.606	16307.22	km	9882.18		
3	101(b)	Engaging qualified Surveyor @ one manday for 0.80 km of work.					0.606	901.38	km	546.24		
4	101(c)	Engaging qualified Draughtsman @ one manday for 0.80 km of work.					0.606	901.38	km	546.24		
5	101(d)	Fixing the reference point/bench mark on the ground with reference to the map and surveying the tie lines for measuring the accuracy of the survey work done. @ 10% of the rate provided for item (a)										
		(ii) In areas with thick under growth					0.606	1630.72	km	988.22		
10		Miscellaneous expenditure like Technically Scrutiny Charges fore PART -B, e-tender Advertisement (in leading news papers), documentation, vehicle hiring charges, Xerox, purchase of Software, Toposheets, village maps, Survey equipments, Imageries, Medicines, field bags, Water bottles/Water cans, stationary items Lamination of Maps/CADD charges, Photo print,					LS			1161.32		
Total of PART A:										13124.20		
Part-B (Construction of Forest boundary demarcation Pillars Work)												
S.No	Descrip tion of Work	Unit	Box	No	L	B	D	Qty	Rate	Amount (in Rs.)	Qty (Nos.)	Total Amount (in Rs.)
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 (Area Weightage 12%) (PWD Schedule of Rates 2023-2024 Vol No.1, Page No:6, Item No:1.5.1)											
	Pit	cum		1	0.80	0.80	0.60	0.38	334.88	128.59	7	900.13

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 (Area Weightage 12%,) (PWD Common SR 2023-24Vol-1 Pg.No.15 It.No. 2.1.3)											
	Bed	cum	1	1	0.80	0.80	0.075	0.05	6628.16	331.41	7	2319.87
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.(Area Weightage 12%, Form Work 8 %) (PWD Schedule of Rates 2023-2024 Vol No.1, Page No:15, Item No:2.2.1)											
	Footing	cum	1	1	0.50	0.50	0.575	0.140	7480.17	1047.22	7	7330.54
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 (Area Weightage 12%, Form Work 70 %) (PWD Schedule of Rates 2023-2024 Vol No.1, Page No:16, Item No:2.4.2)											
	Column			1	(0.35+0.25)/2	(0.35+0.25)/2	1.00	0.090				
	Cap			1/3	0.250	0.250	0.050	0.001				
		cum	1					0.091	11844.78	1077.87	7	7545.09
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. (Area Weightage 12%,) (PWD Schedule of Rates 2023-2024 Vol No.1 Page No:18, Item No: 2.11h)											
	Pillar	Tonne	1	AS PER CALCULATION SHEET				0.00961	78118.88	750.72	7	5255.04
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. (Area Weightage 12%) (PWD Schedule of Rates 2023-2024 Vol No.1 Page No:18, Item No: 2.11h)											
	Footing	Tonne		AS PER CALCULATION SHEET				0.00658	78118.88	514.02	7	3598.14
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. (Area Weightage 12%) (PWD Schedule of Rates 2023-2024 Vol No.I, Page No:7, Item No:1.10)											
	Earth work		1		0.80	0.80	0.600	0.384				
	Deduction				0.80	0.80	0.075	0.048				
					0.50	0.50	0.525	0.131				
		cum	1					0.205	179.2	36.69	7	256.83
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. (Area Weightage 12%) (PWD Schedule of Rates 2023-2024 Vol No.2, Page No:43, Item No:8.10)											
	Cap	AS PER CALCULATION SHEET						0.067				
	Column							1.200				
	Footing upper surface							0.128				
	Footing side							0.100				
		Sq.m	1					1.495	235.2	351.58	7	2461.06
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. (Area Weightage 12%) (PWD Schedule of Rates 2023-2024 Vol No.2, Page No:45, Item No:8.29)											
	Dimensions as per - item no.8						=	1.495				
		Sq.m	1					1.495	316.96	473.79	7	3316.53

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. (Area Weightage 12%) (per letter per cm height) (PWD Schedule of Rates 2023-2024 Vol No.2, Page No:49, Item No:8.49)

cm	2	250.00	500.00	4.48	2240.00	7	15680.00
Total of PART B:							48663.23
Grand Total of (PART A & PART B):							61787.43
Add GST 18% :							10912.70
Total :							72700

CERTIFICATE

- 1 Certified that the estimate has been prepared as per the sanctioned schedule rates of the Karnataka Forest Department for the year 2026-27
- 2 Certified that the rates adopted in this estimate are as per the schedule of rates of PWD for the year 2023-24
- 3 Certified that the above estimates of work is not included in any previous estimates.
- 4 Certified that the above estimates of work has been included in the sanctioned Annual Plan of Operations for the year 2026-27
- 5 Estimate has been prepared with respect to site specific requirements.


Range Forest Officer (UNIT-)
Working Plan & Forest survey,
Belagavi