



**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 Notified Reserve Forest/Protected Forest/Village Forest Areas				
DIVISION:		Ghataprabha (Gokak)				
RANGE:		Athani, Chikkodi, Gokak and Raibag	Km	Forest Boundary	Latitude	Longitude
LOCATION :	Ainapur VF Sy.No. 154, 407, 507,527 530, & RF Sy.No.525, 526,		7.50	61	16.65471	74.93934
	Telsang (Part) PF Sy.No. 1003, 1004, 1005		1.00	9	16.75688	75.32073
	Pattanakudi Sy.No. 268		0.50	5	16.35350	74.42401
	Gokak Sy.No. 383, 385, 402, 417, 397		5.60	47	16.13957	74.84381
	Konnur (Part) Sy.No. 662, 663, 656 & 657		2.20	18	16.18197	74.76697
	Yadrav Sy.No. 36		0.90	10	16.50708	74.73672
	Total :		17.70	150		
UNIT						
Budget Head		4406-Capital Outlay on Forestry and Wildlife-01-Forestry-101-Forest conservation, development & Regeneration-0-01-Survey and demarcation, Forest Protection, Wildlife Management and Man-animal Conflict Measures "Man-Animal Conflict-132-Other Capital expenses (Demarcation and Protection of Forests Works)".				
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			
		Alignmet 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.	17.70	9318.59	km 164939.043	
3	101(b)	Engaging qualified Surveyor @ one manday for 0.80 km of work.	17.70	901.38	km 15954.426	
4	101(c)	Engaging qualified Draughtsman @ one manday for 0.80 km of work.	17.70	901.38	km 15954.426	
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	17.70	931.86	km 16493.922	
7	101(g)	Construction of labour shed using locally available forest material-10 unskilled heavy Mazdoors .	1	6206.60	shed 6206.60	
8	101(h)	Setting up and winding up of officers/ staff tents of 12'x10' dimension along with its furnitures.	1	3263.62	tent each time 3263.62	
9	101(j)	Transportation of camp articles and survey equipments from camp to camp	1	798.75	each time 798.75	
10		Miscellaneous expenditure like Techenically 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		29654.92	
				Total of PART A:	253265.71	

Part-B (Construction of Forest boundary demarcation Pillars Work)												
S.No	Description 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 neatly dressed 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	150	19288.5
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-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	150	49711.50
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	150	157083.00
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) M20 Design 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	150	161680.50
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	150	112608.00
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	150	77103.00
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	150	5503.5
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. (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	150	52737.00

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	150
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. (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	150
										336000.00
	Total of PART B:									1042783.50
	Grand Total of (PART A & PART B):									1296049.21
	Add GST 18% :									227950.97
	Total :									1524000

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 Notified Reserve Forest Area			
DIVISION:		Belagavi			
RANGE:	Golihalli	Km	Forest Boundary demarcation Pillar (Nos.)	Latitude	Longitude
LOCATION :	Kervad Sy.No. 324, 318, 381, 388, 395, 307, 308, 309, 306, 311, 329, 335, 357 to 365, 378, 380, 382 to 387, 389, 323.	10.00	71	15.58594	74.72758
	Gastoli Sy.No. 31, 32, 34, 35	7.90	16	15.50677	74.66454
	Maskenatti Sy.No. 9, 10, 15, 23, 26, 27, 28, 29.	5.90	14	15.49603	74.67514
	Golihalli sy.No. 283, 200, 278, 280, 281, 282, 284.	5.70	15	15.53459	74.65322
	Gundapi Sy.No. 82, 58, 59, 60, 62, 90, 91, 92, 88, 86, 87	7.60	15	15.53051	74.62566
	Total :	37.10	131		
UNIT					
Budget Head		4406-Capital Outlay on Forestry and Wildlife-01-Forestry-101-Forest conservation, development & Regeneration-0-01-Survey and demarcation, Forest Protection, Wildlife Management and Man-animal Conflict Measures "Man-Animal Conflict-132-Other Capital expenses (Demarcation and Protection of Forests Works)".			
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 3 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	14		
		Camp servant	1		
		Total :	21		
		Work done per day = 40 Chains i.e. 20M X 40 = 0.8 Km			
2		(i) In areas with thick under growth. 3 meters wide clearance Mazdoor requirement for 1 km = $21/0.8 = 26.25$	37.10	16307.22	km 604997.86
3	101(b)	Engaging qualified Surveyor @ one manday for 0.80 km of work.	37.10	901.38	km 33441.19
4	101(c)	Engaging qualified Draughtsman @ one manday for 0.80 km of work.	37.10	901.38	km 33441.19
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 thick under growth	37.10	1630.72	km 60499.71
7	101(g)	Construction of labour shed using locally available forest material-10 unskilled heavy Mazdoors .	4	6206.60	shed 24826.40
8	101(h)	Setting up and winding up of officers/ staff tents of 12'x10' dimension along with its furnitures.	4	3263.62	tent each time 13054.48
9	101(j)	Transportation of camp articles and survey equipments from camp to camp	3	798.75	each time 2396.25
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	26641.49
Total of PART A:					799298.57

Part-B (Construction of Forest boundary demarcation Pillars Work)												
S.No	Description 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 neatly dressed 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	131	16845.29
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-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	131	43414.71
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	131	137185.82
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) M20 Design 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	131	141200.97
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, lapping/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	131	98344.32
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, lapping/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 including	Tonne		AS PER CALCULATION SHEET				0.00658	78118.88	514.02	131	67336.62
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	131	4806.39
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. (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	131	46056.98

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				=	1.495				
	sq.m	1				1.495	316.96	473.79	131	62066.49
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. (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	131	293440.00
Total of PART B:										910697.59
Grand Total of (PART A & PART B) :										1709996.16
Add GST 18% :										303003.84
Total :										2013000

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 Notified Reserve Forest Area			
DIVISION:		Belagavi			
RANGE:	Khanapur, Bhimgad WL, Londa	Km	Forest Boundary demarcation Pillar (Nos.)	Latitude	Longitude
LOCATION :	Mugwade Sy.No. 10, 19	9.00	70	15.64398	74.40637
	Chapoli Sy.No. 61, 9, 12, 20, 22, 24, 25, 30, 40, 41, 54, 56, 55, 53, 49.	18.00	160	15.66134	74.33476
	Gavali Sy.No. 2,51, 68 70, 3, 21, 25, 34, 36, 37, 38, 39, 40, 45, 46, 44, 66.	7.00	56	15.55729	74.33210
	Chikhale Sy.No. 1 & 79	2.00	20	15.66029	74.26138
	Pastoli Sy.No. 63, 57, 27	6.00	62	15.60410	74.35869
	Total :	42.00	368		
UNIT					
Budget Head		4406-Capital Outlay on Forestry and Wildlife-01-Forestry-101-Forest conservation, development & Regeneration-0-01-Survey and demarcation, Forest Protection, Wildlife Management and Man-animal Conflict Measures "Man-Animal Conflict-132-Other Capital expenses (Demarcation and Protection of Forests Works)".			
Sl. No.	S.S.R Item No	Particulars of work	Quantity	Rate	per Amount (Rs.)
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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	14		
		Camp servant	1		
		Total :	21		
		Work done per day = 40 Chains i.e. 20M X 40 = 0.8 Km			
2		(i) In areas with thick under growth. 3 meters wide clearance Mazdoor requirement for 1 km = $21/0.8 = 26.25$	42.00	16307.22	km 684903.2
3	101(b)	Engaging qualified Surveyor @ one manday for 0.80 km of work.	42.00	901.38	km 37857.9
4	101(c)	Engaging qualified Draughtsman @ one manday for 0.80 km of work.	42.00	901.38	km 37857.9
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 thick under growth	42.00	1630.72	km 68490.2
7	101(g)	Construction of labour shed using locally available forest material-10 unskilled heavy Mazdoors .	4	6206.60	shed 24826.4
8	101(h)	Setting up and winding up of officers/ staff tents of 12'x10' dimension along with its furnitures.	4	3263.62	tent each time 13054.4
9	101(j)	Transportation of camp articles and survey equipments from camp to camp	3	798.75	each time 2396.2
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	35335.4
Total of PART A:					904722.0

Part-B (Construction of Forest boundary demarcation Pillars Work)												
S.No	Description 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 neatly dressed 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	368	47321.12
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-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	368	121958.88
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	368	385376.96
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) M20 Design 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	368	396656.16
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, lapping/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	368	276264.96
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, lapping/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 including	Tonne		AS PER CALCULATION SHEET				0.00658	78118.88	514.02	368	189159.36
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	368	13501.92
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. (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	368	129381.44

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	368
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. (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	368
	Total of PART B:										2558295.5
	Grand Total of (PART A & PART B) :										3463017.5
	Add GST 18% :										616982.7
	Total :										4080000

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 Notified Reserve Forest Section -4 Notified Forest Area				
DIVISION:		Bagalkot				
RANGE:	Bilagi & Mudhol	Km	Forest Boundary demarcation Pillar (Nos.)	Latitude	Longitude	
LOCATION :	Amalzari Sy.No. 258	2.00	18	16.37911	75.41970	
	Choudapur Sy. No. 15, 48, 72,	17.40	135	16.18940	75.38803	
	Bantanur Sy.No. 155	8.10	70	16.19932	75.41870	
	Chinchakhandi Sy.No. 80, 113	10.00	83	16.25094	75.30719	
	Total :	37.50	306			
UNIT						
Budget Head		4406-Capital Outlay on Forestry and Wildlife-01-Forestry-101-Forest conservation, development & Regeneration-0-01-Survey and demarcation, Forest Protection, Wildlife Management and Man-animal Conflict Measures "Man-Animal Conflict-132-Other Capital expenses (Demarcation and Protection of Forests Works)".				
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			
		Alignmt 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.		37.50	9318.59	km 349447.125	
3	101(b)	Engaging qualified Surveyor @ one manday for 0.80 km of work.	37.50	901.38	km 33801.75	
4	101(c)	Engaging qualified Draughtsman @ one manday for 0.80 km of work.	37.50	901.38	km 33801.75	
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	37.50	931.86	km 34944.75	
7	101(g)	Construction of labour shed using locally available forest material-10 unskilled heavy Mazdoors .	4	6206.60	shed 24826.40	
8	101(h)	Setting up and winding up of officers/ staff tents of 12'x10' dimension along with its furnitures.	4	3263.62	tent each time 13054.48	
9	101(j)	Transportation of camp articles and survey equipments from camp to camp	4	798.75	each time 3195	
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		51987.39	
Total of PART A:					545058.65	



**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 Notified Reserve Forest Section -4 Notified Forest Area				
DIVISION:		Bagalkot				
RANGE:	Bilagi & Mudhol	Km	Forest Boundary demarcation Pillar (Nos.)	Latitude	Longitude	
LOCATION :	Amalzari Sy.No. 258	2.00	18	16.37911	75.41970	
	Choudapur Sy.No. 15, 48, 72,	17.40	135	16.18940	75.38803	
	Bantanur Sy.No. 155	8.10	70	16.19932	75.41870	
	Chinchakhandi Sy.No. 80, 113	10.00	83	16.25094	75.30719	
	Total :	37.50	306			
UNIT						
Budget Head		4406-Capital Outlay on Forestry and Wildlife-01-Forestry-101-Forest conservation, development & Regeneration-0-01-Survey and demarcation, Forest Protection, Wildlife Management and Man-animal Conflict Measures "Man-Animal Conflict-132-Other Capital expenses (Demarcation and Protection of Forests Works)".				
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			
		Alignmet 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.	37.50	9318.59	km	349447.125
3	101(b)	Engaging qualified Surveyor @ one manday for 0.80 km of work.	37.50	901.38	km	33801.75
4	101(c)	Engaging qualified Draughtsman @ one manday for 0.80 km of work.	37.50	901.38	km	33801.75
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 thin under growth		37.50	931.86	km	34944.75	
7	101(g)	Construction of labour shed using locally available forest material-10 unskilled heavy Mazdoors .	4	6206.60	shed	24826.40
8	101(h)	Setting up and winding up of officers/ staff tents of 12'x10' dimension along with its furnitures.	4	3263.62	tent each time	13054.48
9	101(j)	Transportation of camp articles and survey equipments from camp to camp	4	798.75	each time	3195
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			51987.39
Total of PART A:						545058.65

Part-B (Construction of Forest boundary demarcation Pillars Work)												
S.No	Description 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 neatly dressed 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	306	39348.54
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-1 Pg.No.15 It.No. 2.1.3)	Bcd	cum	1	0.80	0.80	0.075	0.05	6628.16	331.41	306	101411.46
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	0.50	0.50	0.575	0.140	7480.17	1047.22	306	320449.32
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) M20 Design 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	306	329828.22
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, lapping/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	306	229720.32
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, lapping/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	1	AS PER CALCULATION SHEET			0.00658	78118.88	514.02	306	157290.12
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	306	11227.14
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		1	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	306	107583.48

9	2.29 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					=	1.495				
	sq.m	1					1.495	316.96	473.79	306	144979.74
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. (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	306	685440.00
Total of PART B:											2127278.34
Grand Total of (PART A & PART B) :											2672336.99
Add GST 18% :											471662.93
Total :											3144000

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**

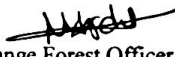
NAME OF WORK:	Survey and demarcation and Construction of Forest Boundary Demarcation Pillars in Notified Reserve Forest/Protected Forest Area				
DIVISION:	Belagavi				
RANGE:	Gujnal, Hukkeri & Kakati	Km	Forest Boundary	Latitude	Longitude
LOCATION :	Gutti Sy.No. 18, 26, 34A, 34C,	1.80	9	16.00211	74.62691
	Kenchatti sy.No. 6, 56	1.70	9	15.98562	74.59843
	Arabhavi - Devalatti Sy.No. 116, 8/17, 1/116	4.00	30	16.02638	74.71673
	Kabalapur PF Sy.No. 2, 3, RF Sy.No. 14, 23.	8.00	50	15.96422	74.63976
	Hospet Sy.No. 453 (133), 81,	2.50	20	16.13364	74.65655
	Handiganur Sy.No. 158, 204	2.50	17	15.97296	74.46884
	Heggeri Sy.No. 1, 2, 12, 24, 30, 33, 43, 49, 51, 54, 57, 59, 63, 64, 65, 67, 71, 72, 73, 74, 91, 92, 93, 96, 99 to 103, 106, 109, 120.	15.00	100	15.97868	74.53497
	Ningyanatti Sy.No. 22, 33, 44	13.90	30	15.99899	74.46731
	Halabhavi Sy.No. 13, 29, 30, 34, 40, 51, 63, 65 to 103, 107, 109, 111, 112, 113, 114, 117, 119, 121, 122, 123, 127, 128, 129, 130, 131, 147, 155, 164, 165.	15.00	125	16.01833	74.52229
Total :		64.40	390		
UNIT					
Budget Head	4406-Capital Outlay on Forestry and Wildlife-01-Forestry-101-Forest conservation, development & Regeneration-0-01-Survey and demarcation, Forest Protection, Wildlife Management and Man-animal Conflict Measures "Man-Animal Conflict-132-Other Capital expenses (Demarcation and Protection of Forests Works)".				
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		
2		Work done per day = 40 Chains i.e. 20M X 40 = 0.8 Km			
3	101(b)	(ii) In areas with thin under growth. 2 meters wide clearance Mazdoor requirement for 1 km = 12/0.8 = 15.	64.40	9318.59	km 600117.196
4	101(c)	Engaging qualified Surveyor @ one manday for 0.80 km of work.	64.40	901.38	km 58048.872
5	101(d)	Engaging qualified Draughtsman @ one manday for 0.80 km of work.	64.40	901.38	km 58048.872
6	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)			
7	101(g)	(i) In areas with thin under growth	64.40	931.86	km 60011.784
8	101(h)	Construction of labour shed using locally available forest material-10 unskilled heavy Mazdoors .	6	6206.60	shed 37239.60
		Setting up and winding up of officers/ staff tents of 12'x10' dimension along with its furnitures.	6	3263.62	tent each time 19581.72

9	101(j)	Transportation of camp articles and survey equipments from camp to camp							5	798.75	each time	3993.75	
10		Miscellaneous expenditure like Technically Scrutiny Charges for 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		52031.19		
Part-B (Construction of Forest boundary demarcation Pillars Work)											Total of PART A:		889072.98
S.No	Description 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	390	50150.1	
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-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	390	129249.90	
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	390	408415.80	
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	390	420369.30	
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	390	292780.80	
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	390	200467.80	
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	390	14309.1	

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. (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	390	137116.20
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					=	1.495			
	Sq.m	1					1.495	316.96	473.79	184778.10
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. (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	390	873600.00
Total of PART B:										2711237.10
Grand Total of (PART A & PART B) :										3600310.08
Add GST 18% :										638690.20
Total :										4239000

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