

Abstract

1	Total Cost of advance Work, Creation & 10 yrs Maintenance for 25 ha	1,22,83,800.00
2	Cost of creation of energized power fencing over 4.5 km around the plantation	8,95,568.00
3	Estimate for construction of watch tower for watch & ward	1,68,695.00
Total cost of CA		1,33,48,063.00

Countersigned



Chief Conservator of Forests,
Northern Circle, West Bengal




Divisional Forest Officer
Baihunthpur Division

Estimate for Creation of CAMPA Plantation (2021- 22) at Jhakuapara, Gourikone Beat under Belacoba Range.

No. No of seedling per Ha. = 2500 Nos,(Spacing - 2 m x 2m), Pit Size - 60 cm x 45 cm x 45 cm (Area 1 Ha)

A	Particulars of work	Mandays in No.	Rate	Amount
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ADVANCE WORK :- (PLANTATION WORKS)

Labour component :-

1	Survey and demarcation of the plantation area including GPS survey by technical person	1	266	266.00
2	Burning, removing debris & Cleaning oif plantation site & making inspection path	34	266	9044.00
Total Advance Work (A)		35	266	9310.00
B CREATION WORK :- (PLANTATION WORKS)				
1	Alignment of planting lines and stacking the pit position	6	266	1596.00
2	Cost of digging Pits (60 x 45 X 45)	35	266	9310.00
3	Alignment & cutting of contour trench of size 0.45 mt x 0.45m x 5mt, total 500 Mt long per ha= 101.25m ³ in staggered manner 0.5mt away from another line for easy movement, trench line to next trench line distance 10 mt.	14	266	3724.00
4	Sorting- shifting, weeding- cleaning and watering seedlings in nursery (April-June)	6	266	1596.00
5	Making Inspection Path	2	266	532.00
6	Making brushwood fencing around planting area	8	266	2128.00
7	Filling up of planting pits with dug of pulverised soil, Organic manure, Fungicides , Micro-Nutrients, etc-	20	266	5320.00
8	Hoeing the scouring line along the boundary of the plantation	2	266	532.00
9	cost of carraige of seedlings from nursery to planting site	18	266	4788.00
10	transplanting of potted seedlings including carraige from field nursery to planting site & stacking	22	266	5852.00
11	application of insecticites to the planted seedlings	2	266	532.00
12	vacancy filling with potted seedlings	4	266	1064.00
13	cost of applination of organic manure as per doses prescribed per pit	5	266	1330.00
14	1st time weeding, cleaning & mulching with application of fertilizer and vacacy filling	25	266	6650.00
15	2nd time weeding, cleaning & mulching with application of fertilizer and vacacy filling	14	266	3724.00
16	3rd time weeding, cleaning & mulching with application of fertilizer and vacacy filling	10	266	2660.00
17	4th time weeding, cleaning & mulching with application of fertilizer and vacacy filling	8	266	2128.00
18	5th time weeding, cleaning & mulching with application of fertilizer and vacacy filling	6	266	1596.00
19	Making fire line 1.5 mtr wide all along the periphery and 1.2 mtr with inside plantation	4	266	1064.00
20	watering to planted seedling during dry spell for establishment	0	0	0.00
21	Cost of watch and ward from September to March	18	266	4788.00

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Total Creation Work (B)		229.0	266.0	60914.00
Material Component				
1	Chemical fertilize @ 50 gm DAP//plant (iclu. GST 0 %)			2000.00
2	Insecticide, hormone (inclusive GST 0%)			500.00
3	Signage (Inclusive GST 18%)			100.00
4	Vegitative fencing materials /Bamboo(LS)/ Energized fencing (Inclusive GST)			2500.00
5	Carriage of seedling & fertilize by truck/Vehicle GST 18%			500.00
W	Total material cost (Rs.)			5600.00
X	GST 18 % on (B-5+7+8)			108
Y	Labour Cess 1 % on (W+X)			57
Z	Contingencies 3 % on (V+W)			2095
	Grand total (Rs.) (V+W+X+Y+Z)			7860.00

D	1st YEAR MAINT WORKS	Wage Rate - 280.00		
Sl.No.	Particulars	Qty/MD	Rate	Amount
TENDING WORKS				
1	Infilling by taller seedlings	4		
2	1st time weeding cleaning with fertilizer	16		
3	2nd time weeding cleaning with fertilizer	14		
4	3rd time weeding cleaning with fertilizer	10		
5	Fire protection	4		
6	Fire line maintenance	10		
7	Repair of fencing	6		
8	Watch & Ward	24		
9	Irrigation facility	10		
		98	280.00	27440.00
10	Fencing materials etc.			1500.00
Materials				
11	Supply of fertilizer,Vermicompose,Hormone			4816.00
12	Price of seedlings including carriage	160 Nos	15	2400.00
	TOTAL (D)			36156.00

Escalation cost = 10 %

E	2nd YEAR MAINT WORKS	Wage Rate - 322.00		
Sl.No.	Particulars	Qty/MD	Rate	Amount
TENDING WORKS				
1	Infilling by taller seedlings	4		
2	1st time weeding cleaning with fertilizer	16		
3	2nd time weeding cleaning with fertilizer	14		
4	3rd time weeding cleaning with fertilizer	10		
5	Fire protection	4		
6	Fire line maintenance	10		
7	Repair of fencing	6		
8	Watch & Ward	24		
		88	322.00	28336.00
10	Fencing materials etc.			1500.00
Materials				
11	Supply of fertilizer,Vermicompose,Hormone			4814.00
12	Price of seedlings including carriage	80 Nos	15	1200.00
	TOTAL (E)			35850.00

Escalation cost = 10 %

F	3rd YEAR MAINT WORKS	Wage Rate - 370.00		
Sl.No.	Particulars	Qty/MD	Rate	Amount
TENDING WORKS				
1	1st time weeding cleaning with fertilizer	16		
2	2nd time weeding cleaning with fertilizer	14		
3	3rd time weeding cleaning	10		
4	Fire protection	4		

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	Fire line maintenance	10		
	Repair of fencing	6		
	Watch & Ward	24		
		84	370.00	31080.00
				1500.00
8	Fencing materials etc.			
Materials				
9	Supply of fertilizer, Vermicompose, Hormone			2772.00
			TOTAL (F)	35352.00

Escalation cost = 10 %

G		4th YEAR MAINT WORKS		Wage Rate - 426.00	
Sl.No.	Particulars	Qty/MD	Rate	Amount	
TENDING WORKS					
1	1st time weeding cleaning	16			
2	2nd time weeding cleaning	14			
3	Fire protection	4			
4	Fire line maintenance	10			
5	Repair of fencing	6			
6	Watch & Ward	24			
		74	426.00		31524.00
					1918.00
7	Fencing materials etc.				
			TOTAL (G)		33442.00

Escalation cost = 10 %

H		5th YEAR MAINT WORKS		Wage Rate - 490.00	
Sl.No.	Particulars	Qty/MD	Rate	Amount	
TENDING WORKS					
1	1st time weeding cleaning	12			
2	2nd time weeding cleaning	10			
3	Fire protection	4			
4	Fire line maintenance	10			
5	Repair of fencing	6			
6	Watch & Ward	24			
		66	490.00		32340.00
					2168.00
7	Fencing materials etc.				
			TOTAL (H)		34508.00

Escalation cost = 10 %

I		6th YEAR MAINT WORKS		Wage Rate - 563.00	
Sl.No.	Particulars	Qty/MD	Rate	Amount	
TENDING WORKS					
1	1st time weeding cleaning	16			
2	Fire protection	4			
3	Fire line maintenance	10			
4	Repair of fencing	6			
5	Watch & Ward	24			
		60	563.00		33780.00
					1800.00
6	Fencing materials etc.				
			TOTAL (I)		35580.00

Escalation cost = 10 %

J		7th YEAR MAINT WORKS		Wage Rate - 647.00	
Sl.No.	Particulars	Qty/MD	Rate	Amount	
TENDING WORKS					
1	1st time weeding cleaning	16			
2	Fire protection	4			
3	Fire line maintenance	10			
4	Repair of fencing	6			
5	Watch & Ward	24			
		60	647.00		38820.00
					2120.00
6	Fencing materials etc.				
			TOTAL (J)		40940.00

Escalation cost = 10 %

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8th YEAR MAINT WORKS		Wage Rate - 744.00		
SI.No.	Particulars	Qty/MD	Rate	Amount
TENDING WORKS				
1	1st time weeding cleaning	16		
2	Fire protection	4		
3	Fire line maintenance	10		
4	Repair of fencing	6		
5	Watch & Ward	24		
		60	744.00	44640.00
6	Fencing materials etc.			2120.00
TOTAL (K)				46760.00

Escalation cost = 10 %

9th YEAR MAINT WORKS		Wage Rate - 856.00		
SI.No.	Particulars	Qty/MD	Rate	Amount
TENDING WORKS				
1	1st time weeding cleaning	16		
2	Fire protection	4		
3	Fire line maintenance	10		
4	Repair of fencing	6		
5	Watch & Ward	24		
		60	856.00	51360.00
6	Fencing materials etc.			2140.00
TOTAL (L)				53500.00

Escalation cost = 10 %

10th YEAR MAINT WORKS		Wage Rate - 984.00		
SI.No.	Particulars	Qty/MD	Rate	Amount
TENDING WORKS				
1	1st time weeding cleaning	16		
2	Fire protection	4		
3	Fire line maintenance	10		
4	Repair of fencing	6		
5	Watch & Ward	24		
		60	984.00	59040.00
6	Fencing materials etc.			2140.00
TOTAL (M)				61180.00
Grand Total (A+B+C+D+E+F+G+H+I+J+K+L+M)				491352.00
Grand Total for 25 Ha @ 491352.00				12283800.00

(Rupees one crore twenty two lakhs eighty three thousand eight hundred only)


Divisional Forest Officer
Baikunthapur Division

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Divisional Forest Officer
Baikunthapur Division.

4. Community Development
Proposed Estimate for Construction of Watch Tower at Jhakuapara, Gourikone Beat under Belacoba Range
Head of Service :-

As per PWD SOR wef 01.11.2017 with up to date corrigendum

Sl. No.	PWD Sch. Page /Item No	Description of Items	No.	Length (M)	Width (M)	Depth (M)	Quantity	Total Quantity	Unit	Rate (Rs.)	Amount (Rs.)
A. BUILDING WORKS											
1	Page No - 1 It No. - 1	Surface dressing of brown in any kind of soil including removing vegetation inequalities no exciding 15 cm depth and disposal of rubbish within a lead upto 75 meter as Directed.	1	3.000	3.000	-	9.000				
								9.000	Sqm	10.00	90.00
2	Page No - 1 It No. - 2(a)	Earth work in excavation of foundation trenches or drains, in all sorts of soil (including mixed soil but excluding laterite or sandstone) including removing, spreading or stacking the spoils within a lead of 75 m. as directed. The item includes necessary trimming the sides of trenches, levelling, dressing and ramming the bottom, bailing out water as required complete. (a) Depth of excavation not exceeding 1,500 mm.									
		For Column foundation	4	1.20	1.20	1.20	6.912	6.912	% Cum	11927.00	824.39
3	Page No - 2 It No. - 4(a)	(A) Filling in foundation or plinth by silver sand in layers not exceeding 150 mm as directed and consolidating the same by thorough saturation with water, ramming complete including the cost of supply of sand (payment to be made on measurement of finished quantity) (B) Do - by fine sand									
		FOUNDATION									
		1/3 rd of total excavation					2.304	2.304	% Cum	37521.00	864.48
4	Page No - 14 It No. - 1	Single Brick Flat Soling of picked jhama bricks including ramming and dressing bed to proper level and filling joints with local sand.									
		FOUNDATION									
		Column	4	1.20	1.20	-	5.760	5.760	Sqm	294.00	1,693.44
5	Page No - 34 It No. - 22(ii)(a)	Cement concrete 6:3:1 with 32mm down graded gravel									
		FOUNDATION									
		Column	4	1.20	1.20	0.100	0.576	0.576	Cu.M.	3255.00	1,874.88
6	Page No - 26 It No. - 10(i)	Ordinary Cement concrete (mix 1:1.5:3) with graded stone chips (20 mm nominal size) excluding shuttering and reinforcement if any, in ground floor as per relevant IS codes. Local variety crusher broken.									
		Column footing	4	1.200	1.200	0.150	0.864				
		Do	4	0.600	0.600	0.300	0.432				
		Do	4	0.250	0.250	7.000	1.750				
		Tie Beam	6	2.500	0.250	0.250	1.250				
		Roof	1	2.500	2.500	0.100	0.625				
		Stair	15	0.900	0.250	0.150	0.506				
		Landing	3	0.900	0.900	0.100	0.243				
								6.278	Cu.M.	4888.00	30,686.86
7	Page No - 42 It No. - 16 (a)	Hire and labour charges for shuttering with centering and necessary staging upto 4 m using approved stout props and thick hard wood planks of approved thickness with required bracing for concrete slabs, beams and columns, lintels curved or straight, including fitting, fixing and striking out after completion of works (upto roof of ground floor)									
		(a) 25 mm to 30 mm thick wooden shuttering as per decision & direction of Engineer-In-Charge.									
		Column	4	7.000	1.000	-	28.000				
		Tie Beam	6	0.500	0.250	-	1.000				
		Roof	1	2.500	2.500	-	6.250				
		Stair	15	0.900	0.150	-	2.025				
		Landing	3	1.500	0.900	-	4.050				
		Landing	3	0.900	0.900	-	2.430				
								43.755	Sq.m	321.00	14,045.36

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Baihunthpur Division.

PWD Sch. Page/Item No	Description of Items	No.	Length (M)	Width (M)	Depth (M)	Quantity	Total Quantity	Unit	Rate (Rs.)	Amount (Rs.)
8 Page No - 44 It No. - 40(a) (2nd corrigendum dated 18.04.2018)	Reinforcement for reinforced concrete work in all sorts of structures including distribution bars, stirrups, binders etc initial straightening and removal of loose rust (if necessary), cutting to requisite length, hocking and bending to correct shape, placing in proper position and binding with 16 gauge black annealed wire at every intersection, complete as per drawing and direction.									
	(a) For works in foundation, basement and upto roof of ground floor/upto 4 m									
	(i) Tor steel/Mid Steel									
	I. SAIL/ TATA/RINL						0.739	M.T.	71269.00	52,667.79
9 Page No - 15 It No. - 7	Brick work with 1st class bricks in cement mortar (1:6)									
	(b) In superstructure, ground floor									
	Parapet wall	4	2.500	0.250	0.900	2.250		Cu.M	4728.00	10,638.00
10 Page No - 16 It No. - 16	125 mm thick brick work with 1st class bricks and cement mortar (1:4) in ground floor									
	Side Wall of stair	6	1.500	0.900		8.100		Sq.m	625.00	5,052.50
11 Page No - 47 It No. - 3	Supplying and laying Polythene Sheet (150gm / sq.m.) over damp proof course or below flooring or roof terracing or in foundation or in foundation trenches.									
	Column	4	7.000	1.000	-	28.000				
	Tie Beam	8	0.500	0.250	-	1.000				
	Roof	1	2.500	2.500		6.250				
	Stair	15	0.900	0.150	-	2.025				
		3	1.500	0.900	-	4.050				
		Landing	3	0.900	0.900	-	2.430			
						43.755	Sqm	24.00		1,050.12
12 Page No - 48 It No. - 6	Artificial stone in floor, dado, staircase etc with cement concrete (1:2:4) with stone chips, laid in panels as directed with topping made with ordinary or white cement (as necessary) and marble dust in proportion (1:2) including smooth finishing and rounding off corners including raking out joints or roughening of concrete surface and application of cement slurry before flooring works using cement @ 1.75 kg/sq.m all complete including all materials and labour. (3rd Corrigendum dated 04.06.2018)									
	25 mm thick									
	Roof Slab	1	2.500	-	2.500	6.250				
	Stair	15	0.900	-	0.400	5.400				
	Landing	3	0.900	-	0.900	2.430				
						14.080	Sq. M	260.00		3,660.80
13 Page No - 189 It No. - 1	Plaster (to wall, floor, ceiling etc.) with sand and cement mortar including rounding off or chamfering corners as directed and raking out joints including throating, nosing and drip course, scaffolding/staging where necessary (Ground floor) [Excluding cost of chipping over concrete surface]									
	(ii) With 1:4 cement mortar (Inside Plaster)									
	(b) 15 mm thick plaster In outside wall									
	Column	4	1.000	-	7.000	28.000				
	Beam	8	2.500	-	1.000	20.000				
	Side Wall of stair	12	1.500	-	0.900	16.200				
	Parapet Wall	8	2.500	-	0.900	18.000				
						82.200	Sq. M	150.00		12,330.00
14 Page No - 192 It No. - 15	Neat cement punning about 1.6mm thick in wall, dado, window sill, floor etc. NOTE: Cement 0.152 cu.m per 100 sq.m.									
	Outside	4	2.50	-	0.366	3.660				
						3.660	Sq. M	34.00		124.44
15 Page No - 195 It No. - 7	Applying Exterior grade Acrylic primer of approved quality and brand on plastered or concrete surface old or new surface to receive decorative textured (matt finish) or smooth finish acrylic exterior emulsion paint including scraping and preparing the surface thoroughly, complete as per manufacturer's specification and as per direction of the EIC.									
	(b) Two Coats						82.200	Sq. M	45.10	3,707.22

PWD Sch. Page / Item No	Description of Items	No.	Length (M)	Width (M)	Depth (M)	Quantity	Total Quantity	Unit	Rate (Rs.)	Amount (Rs.)
16 Page No - 195 It No. - 7	Applying Acrylic Emulsion Paint of approved make and brand on walls and ceiling including sand papering in intermediate coats including putty (to be done under specific instruction of Superintending Engineer) (Two coats)									
	i) Standard Quality						82 200	Sq M	67 00	5,507 40
Total for A. Building Works										144,827.68
	Add GST @ 12%								Rs	17,379.32
	Total including GST								Rs	162,207.00
	Add Labour Cess @ 1%								Rs	1,622.07
	Add Contingencies @ 3%								Rs	4,866.21
	Total Estimated Value								Rs.	168,695.28
	Total Estimated Value								(Say) Rs.	168,695.00

Rupees One Lakh Sixty Eight Thousand Six Hundred Ninety Five Only


Divisional Forest Officer
Baikunthapur Division


Range Officer
Belacoba Range

Countersigned


Chief Conservator of Forests,
Northern Circle, West Bengal


Divisional Forest Officer
Baikunthapur Division

ANNEXURE - A

Details estimate for Energized Power Fencing over 4.50 Kms at Jhakuapara under Belacoba Range.

Specification : 3 Strand with Energized power Fencing Machine Scheme -

A. Base Unit for carry power upto 5kms for 3strand fence:-

Sl.No.	Particulars	Qty	Unit	Rate	Amount
1	Energizer machine (5-8 J)	1	No	39,000.00	39,000.00
2	Inverter with battery charger	1	No	6,500.00	6,500.00
3	Battery 150 AH (EXIDE)	1	No	16,000.00	16,000.00
4	Electrification	1	Unit	5,000.00	5,000.00
5	Lightening diverter kit	1	No	2,500.00	2,500.00
6	Neon tester	1	No	1,000.00	1,000.00
	Total				70,000.00

B. Variable items other than Base Unit:-

1	Double insulated lead cable	34	mtrs.	90.00	3,060.00
2	Super earth kit	5	Nos	2,400.00	12,000.00
3	Warning Sign-board	4	Nos	90.00	360.00
4	12 gauge G.I wire of approved make	180	Kgs	90.00	16,200.00
5	PP Reel Insulator	400	Nos	15.50	6,200.00
6	Super Strain Insulator	50	Nos	50.00	2,500.00
7	Permanent wire tightener	25	Nos	140.00	3,500.00
8	Permanent Tension spring	25	Nos	500.00	12,500.00
9	Joint Clamps	10	Nos	55.00	550.00
10	Elephant Toupees	100	Nos	150.00	15,000.00
11	Corner post (Iron) with painted including two nos supporting post	20	Nos	445.00	8,900.00
12	Section post (Iron) 5 mtr. Interval	180	Nos	350.00	63,000.00
13	Fixing of corner post (6:3:1)	20	Nos	244.70	4,894.00
14	Rope Gate Kit	5	Nos	780.00	3,900.00
15	Installation, fixing main post with cement concrete, testing and commissioning etc.	1	Nos	8,000.00	8,000.00
	Total				160,564.00
	For 4.50 Kms.				722,538.00
	Total:- A. Base Unit + B. Variable items				792,538.00
	GST @ 12% Rs.-95,104.56				95,105.00
	Labour Cess @1% Rs.-7,925.38				7,925.00
	Grand Total				895,568.00

(Rupees Eight Lakh Ninety Five Thousand Five Hundred Sixty Eight Only)

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Range Officer
Belacoba Range

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Divisional Forest Officer
Baikunthapur Division

Countersigned

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Baikunthapur Division