

Range: Alibag  
 Round: Karla  
 Beat: Dhavar  
 Village: Navedar Beli  
 S. no. 134/1

ALBAG FOREST DIVISION  
 First Year Operations  
 Estimate For Mangrove Plantation

Daily wage Rate: Rs. 356.35  
 Spacement: 1.5mx 1.5m  
 No. of plants: 4444/ha.  
 Area: 1.00 Ha.

S. No.	Item of Works	Unit	Mandays	For 1.00 ha.			Total	Unit	Mandays	For 1.00 Ha.		
				Wages	M/S	Total				Wages	M/S	Total
1	Preparation of site(including removal of weeds and climberetc.) and alignment etc.	Ha.	25	8908.75	300	9208.75	Ha.	25	8908.75	300	9208.75	
2	Nursery Cost	Ha.	30	10690.5	1000	11690.5	Ha.	30	10690.5	1000	11690.5	
3	Excavation of primary and secondary canals in hard stiff clay for letting in tidal waters(92 cm/ha.)	Ha	140	49889	0	49889	Ha	140	49889	0	49889	
4	Transport of plants by Boat/Tempo from nursery to plantation site including etc.	"	12.54	4468.629	13332	17800.629	"	12.54	4468.629	13332	17800.629	
5	Planting incl. carrying of plants by headload	"	70	24944.5	0	24944.5	"	70	24944.5	0	24944.5	
6	Purchase of material(Ghamela, Phawda, rope etc. plantation board etc.)	"	0	0	2000	2000	"	0	0	2000	2000	
7	Casualty Replacement(20%)including carrying the plants by headloads.	"	20	7127	0	7127	"	20	7127	0	7127	
8	Removal of garbage and moss around the plants etc.	"	20	7127	0	7127	"	20	7127	0	7127	
9	Controlling of pests and insects by using pesticides and insecticides. Spraying nutrients for better growth of plants.	"	0	0	1500	1500	"	0	0	1500	1500	
10	Watch and ward, Period:5 months, 1 lab for 10ha.	"	180	64143	0	64143	"	180	64143	0	64143	
11	Repairs of channels	Ha	7	2494.45	0	2494.45	Ha	7	2494.45	0	2494.45	
	Total		504.54	179792.829	18132	197924.829		504.54	179792.829	18132	197924.829	
12	Labor welfare 3%on wages			5393.78487	0	5393.78487			5393.78487	0	5393.78487	
13	Contingencies 4% on M&S.			0	725.28	725.28			0	725.28	725.28	
	GRAND TOTAL		504.54	185186.614	18857.28	204043.8939		504.54	185186.6139	18857.28	204043.8939	
	SAY					204044					204044	

  
 Range Forest Officer  
 Alibag (Protection)



**Second Year Operations  
Estimate of Mangrove Plantation**

Daily wage Rate: Rs. 374.16  
 Spacement: 1.5m X 1.5m  
 No. of plants: 4444/ha.  
 Area: 1.00 Ha.

S. No.	Item of Works	Unit	Mandays	For 1.00 ha.				Total	Unit	Mandays	For 1.00 Ha.			
				Wages	M/S	Total	Wages				M/S	Total		
1	Nursery Cost for 890 plants	890 plants	6	2244.96	1000	3244.96	11570 plants	6	2244.96	1000	3244.96			
2	Transport of seedlings from nursery to planting site by vehicles incl. loading and unloading	890 plants	2.5	935.4	2000	2935.4	11571 plants	2.5	935.40	2000	2935.4			
3	Casualty replacement incl. transport by headload.	890 plants	20	7483.2	0	7483.2	11572 plants	20	7483.20	0	7483.2			
4	Maintenance of canals	1.00 ha.	19	7109.04	0	7109.04	13 ha.	247	7109.04	0	7109.04			
5	Removing moss, algae and other litter around plants	1.00 ha.	20	7483.2	0	7483.2	13 ha.	260	7483.20	0	7483.2			
6	Controlling pests by spraying pesticides	1.00 ha.	1	374.16	50	424.16	13 ha.	1	374.16	50	424.16			
7	Watch and ward 1 watchman for 1 ha. for 12 months	1.00 ha.	360	134697.6	0	134697.60	13 ha.	360	134697.60	0	134697.6			
	Total		428.5	160327.56	3050	163377.56		896.5	160327.56	3050.00	163377.56			
	Equipment and Contingencies 4 % - Labour Welfare 3% Total 7%			4809.83	122	4931.827			4809.8268	122	4932			
	<b>Grand Total</b>					<b>168309</b>			<b>165137.39</b>	<b>3172.00</b>	<b>168309</b>			

  
**Range Forest Officer**  
**Alibag (Protection)**

Third Year Operations  
Estimate of Mangrove Plantation

Daily wage Rate: Rs. 392.86  
Spacemnt: 1.5mX 1.5m  
No. of plants: 4444/ha.  
Area: 1.00 Ha.

S. No.	Item of Works	For 1.00 ha.					For 13.00 ha.				
		Unit	Mandays	Wages	M/S	Total	Unit	Mandays	Wages	M/S	Total
1	Removing moss,algae and other litter around plants	1.00 ha.	20	7857.2	0	7857.20	13 ha.	20	7857.20	0	7857.20
2	Maintenance of canals	1.00ha.	19	7464.34	0	7464.34	13 ha.	19	7464.34	0	7464.34
3	Controlling pastes by spraying pesticides	1.00ha	1	392.86	50	442.86	13 ha.	1	392.86	50	442.86
4	Watch and ward 1 watchman for 1 ha:for 12 months	1.00 ha	360	141429.6	0	141429.60	13 ha.	360	141429.60	0	141429.60
5	Total		400	157144	50	157194.00		400	157144.00	50	157194.00
7%	Equipment and Contingencies4 %+Labour Welfare 3% Total			4714.32	2	4716.32			4714.32	2	4716.32
	<b>Grand Total</b>					<b>161910.32</b>					<b>161910</b>

*Alibag*  
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Fourth Year Operations  
Estimate of Mangrove Plantation

Daily wage Rate: Rs. 412.5  
Spacemnt: 1.5mX 1.5m  
No. of plants: 4444/ha.  
Area: 1.00 Ha.

S. No.	Item of Works	For 1.00 ha.					For 13.00 ha.				
		Unit	Mandays	Wages	M/S	Total	Unit	Mandays	Wages	M/S	Total
1	Removing moss,algae and other litter around plants	1.00 ha.	20	8250.00	0	8250.00	13 ha.	20	8250	0	8250.00
2	Maintenance of canals	1.00ha.	19	7837.50	0	7837.50	13 ha.	19	7837.5	0	7837.50
3	Watch and ward 1 watchman for 1 ha:for 12 months	1.00 ha	360	148500.00	0	148500.00	13 ha.	360	148500	0	148500.00
4	Total			164587.50	0	164587.50			164587.50	0	164587.50
7%	Equipment and Contingencies4 %+Labour Welfare 3% Total			4937.625	0	4937.63			4937.625		4937.63
	<b>Grand Total</b>					<b>169525.13</b>					<b>169525</b>

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**Fifth Year Operations  
Estimate of Mangrove Plantation**

Daily wage Rate: Rs. 433.1  
Spacing: 1.5m X 1.5m  
No. of plants: 4444/ha.  
Area: 1.00 Ha.

S. No.	Item of Works	For 1.00 ha.					For 13.00 ha.				
		Unit	Mandays	Wages	M/S	Total	Unit	Mandays	Wages	M/S	Total
1	Removing moss, algae and other litter around plants	1.00 ha.	20	8662	0	8662	13 ha.	20	8662.00	0	8662.00
2	Watch and ward 1 watchman for 1ha. for 12 months	1.00 ha	360	155916	0	155916	13 ha.	360	155916.00	0	155916.00
	Total		380	164578	0	164578		380	164578.00	0	164578.00
	Equipment and Contingencies 4 % + Labour Welfare 3% Total 7%			4937.34		4937.34			4937.34		4937.34
	<b>Grand Total</b>					<b>169515.34</b>					<b>169515.34</b>

*[Signature]*  
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**Sixth Year Operations  
Estimate of Mangrove Plantation**

Daily wage Rate: Rs. 454.75  
Spacing: 1.5m X 1.5m  
No. of plants: 4444/ha.  
Area: 1.00 Ha.

S. No.	Item of Works	For 1.00 ha.					For 13.00 ha.				
		Unit	Mandays	Wages	M/S	Total	Unit	Mandays	Wages	M/S	Total
1	Removing moss, algae and other litter around plants	1.00 ha.	20	9095.00	0	9095.00	13 ha.	0	9095.00	0	9095.00
2	Watch and ward 1 watchman for 1 ha. for 12 months	1.00 ha	360	163710.00	0	163710.00	13 ha.	0	163710.00	0	163710.00
	Total		380	172805.00	0	172805.00		0	172805.00	0	172805.00
	Equipment and Contingencies 4 % + Labour Welfare 3% Total 7%			5184.15		5184.15			5184.15		5184.15
	<b>Grand Total</b>					<b>177989.15</b>					<b>177989</b>

*[Signature]*  
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Seventh Year Operations  
Estimate of Mangrove Plantation

Daily wage Rate: Rs. 477.48  
Spacing: 1.5mX 1.5m  
No. of plants: 4444/ha.  
Area: 1.00 Ha.

S. No.	Item of Works	Unit	Mandays	For 1.00 ha.			Total	Unit	Mandays	For 13.00 ha.			Total
				Wages	M/S	Total				Wages	M/S	Total	
1	Removing moss, algae and other litter around plants	1.00 ha.	20	9549.6	0	9549.6	13 ha.	0	9549.60	0	9549.60		
2	Watch and ward 1 watchman for 1 ha. for 12 months	1.00 ha	360	171892.8	0	171892.8	13 ha.	0	171892.80	0	171892.80		
	Total		380	181442.4	0	181442.4		0	181442.40	0	181442.40		
	Equipment and Contingencies 4%+labour Welfare 3% Total 7%			5443.272		5443.272			5443.272		5443.27		
	Grand Total					186885.672					186886		

  
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**Eighth Year Operations  
Estimate of Mangrove Plantation**

Daily wage Rate: Rs. 501.31  
 Spacement: 1.5mx 1.5m  
 No. of plants: 4444/ha.  
 Area: 1.00 Ha.

S. No.	Item of Works	For 1.00 ha.					For 1.00 ha.				
		Unit	Mandays	Wages	M/S	Total	Unit	Mandays	Wages	M/S	Total
1	Removing moss, algae and other litter around plants	1.00 ha.	20	10026.2	0	10026.2	13 ha.	20	10026.20	0	10026.20
2	Watch and ward 1 watchman for 1 ha. for 12 months	1.00 ha	360	180471.6	0	180471.6	13 ha.	360	180471.60	0	180471.60
	Total		380	190497.8	0	190497.8		380	190497.80	0	190497.80
	Equipment and Contingencies 4 % + Labour Welfare 3% Total 7%			5714.934		5714.934			5714.934	0	5714.93
	<b>Grand Total</b>					<b>196212.734</b>					<b>196213</b>

  
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**Alibag (Protection)**

**Nine Year Operations  
Estimate of Mangrove Plantation**

Daily wage rate: Rs. 521.37  
 Spacement: 1.5m x 1.5m  
 No. of plants: 4444/ha.  
 Area: 1.00 Ha.

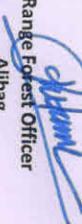
S. No.	Item of Works	For 1.00 ha.					For 1.00 ha.				
		Unit	Mandays	Wages	M/S	Total	Unit	Mandays	Wages	M/S	Total
1	Removing moss, algae and other litter around plants	1.00 ha.	20	10427.4	0	10427.4	13 ha.	0	10427.40	0	10427.40
2	Watch and ward 1 watchman for 1 ha for 12 months	1.00 ha	360	187693.2	0	187693.2	13 ha.	0	187693.20	0	187693.20
	Total		380	198120.6	0	198120.6		0	198120.60	0	198120.60
	Equipment and Contingencies 4%+labour Welfare 3% Total 7%			5943.618		5943.618			5943.618	0	5943.62
	<b>Grand Total</b>					<b>204064.218</b>					<b>204064</b>

  
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**Alibag (Protection)**

Tenth Year Operations  
Estimate of Mangrove Plantation

Daily wage Rate: Rs. 547.43  
Spacing: 1.5mx 1.5m  
No. of plants: 4444/ha.  
Area: 1.00 Ha.

S. No.	Item of Works	For 1.00 ha.					For 1.00 ha.				
		Unit	Mandays	Wages	M/S	Total	Unit	Mandays	Wages	M/S	Total
1	Removing moss,algae and other litter around plants	1.00 ha.	20	10948.6	0	10948.6	13 ha.	0	10948.60	0	10948.60
2	Watch and ward 1 watchman for 1 ha.for 12 months	1.00 ha	360	197074.8	0	197074.8	13 ha.	0	197074.80	0	197074.80
	Total		380	208023.4	0	208023.4		0	208023.40	0	208023.40
	Equipment and Contingencies4 %+Labour Welfare 3% Total 7%			6240.702		6240.702			6240.702	0	6240.70
	<b>Grand Total</b>					<b>214264.102</b>					<b>214264</b>

  
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**Alibag (Protection)**

**Abstract**

S.No.	Year	Amount (Rs.)
1)	First Year	2,04,044
2)	Second year	1,68,309
3)	Third year	1,61,910
4)	Fourth year	1,69,525
5)	Fifth year	1,69,515
6)	Sixth year	1,77,389
7)	Seventh year	1,86,886
8)	Eighth year	1,96,213
9)	Nineth year	2,04,064
10)	Tenth year	2,14,264
	<b>Total</b>	<b>18,52,720</b>

  
**Range Forest Officer**  
 Alibag (Protection)

  
**Deputy Conservator of Forest**  
 Alibag