Estimate of Mangroves plantation

	Division- Dahanu					Range- Dahanu			
	Round- Kainad					Beat- chari			
	Name of Village- Saravali S.No./ - 96/21 315							No. Of Plant/Ha-4444	
	Daily Wage Rate-Rs.418.96					Total area- 4.0122 ha.			
						Rs .	418.96		
	PPO/First Year Operation 2021-2022								
. N	Particulars of Work	For 1 ha.				4.0122			
		Man days	Labour Wages	Matarial Supply	Total Cost	Man days	Labour Wages	Matarial Supply	Total Cost
1	Preparation of site and alingment etc.	25.00	10474.00	30.00	10504.00	100.31	42023.78	120.37	42144.15
	Cost of Raising seedling in nursery (including 20% casuality replacement)	147.76	61905.53	30.00	61935.53	592.84	61905.53	120.37	62025.90
2	Excavation of primary and secondary canal in hard stiff clay for letting in tidal water(92 cmt/ha)	140.00	58654.40	65.00	58719.40	561.71	235333.18	65.00	235398.18
3	Transport of plant by Boat/Tempo from nursery site to plantation site including loading	12.54	5253.76	8888.00	14141.76	50.31	21079.13	35660.43	56739.56
4	Planting of Pollybag seedling at 1.50 x 1.50	70.00	29327.20	0.00	29327.20	280.85	117666.59	0.00	117666.59
5	Purchased of material (Ghamela , Phawada, rope, plantation Board etc.)	0.00	0.00	2500.00	2500.00	0.00	0.00	10030.50	10030.50
6	Transport of polybag and casulity replacement 20 % including carriage on Headload , transport by Tempo	20.00	8379.20	1780.00	10159.20	80.24	33619.03	7141.72	40760.74
7	Removal of mass Algea and garbage around the plants at the time of hightide	20.00	8379.20	0.00	8379.20	80.24	33619.03	0.00	33619.03
8	Controlling of pest by using pesticide & insecticide or fungicide attack or any grub attack on plants	0.00	0.00	1500.00	1500.00	0.00	0.00	6018.30	6018.30
9	Repairs of channels etc	7.00	2932.72	0.00	2932.72	28.09	11766.66	0.00	11766.66
10	Watch and ward , period 6 month, 1 lab for 10ha.	15.60	6535.78	0.00	6535.78	62.59	26222.84	0.00	26222.84
	Total	457.90	191841.78	14793.00	206634.78	1837.19	769707.61	59352.47	829060.08
	Equipments. Contingencies, 3%				6199.04				24871.80
	Labour welfare 4%				8265.39				33162.40
	Net Total Rs				221099.22				887094.29

Second Year Operation 2022-2023

Sr. No	Particulars of Work	For 1 ha. Man days	For 1 ha. Labour Wages	For 1 ha. Matarial Supply	For 1 ha. Total Cost	For 4.0122 Ha. Man days	For 4.0122 Ha. Labour Wages	For 4.0122 Ha. Matarial Supply	For 4.0122 Ha. Total Cost
1	Nursery cost for 890 plant.	6.00	2438.76	1800.00	4238.76	24.07	10085.71	7221.96	17307.67
2	Transport of seedling from nursery site to plantation site by vehicles including loading and unloading	2.50	1016.15	2800.00	3816.15	10.03	4202.38	11234.16	15436.54
3	Casuality replacement including transport by head load	20.00	8129.20	0.00	8129.20	80.24	33619.03	0.00	33619.03
4	Repairs of channels etc	19.00	7722.74	0.00	7722.74	76.23	31938.07	0.00	31938.07
5	Removal of mass Algea and garbage around the plants at the time of hightide	20.00	8129.20	0.00	8129.20	80.24	33619.03	0.00	33619.03
6	Controlling of pest by using pesticide & insecticide or fungicide attack or any grub attack on plants	1.00	406.46	200.00	606.46	4.01	1680.95	802.44	2483.39
7	Watch and ward , 1 watchmen for 10 ha. For 12 month	31.20	12681.55	0.00	12681.55	125.18	52445.68	0.00	52445.68
	Total	99.70	40524.06	4800.00	45324.06	400.02	167590.85	19258.56	186849.41
	Equipments, Contingencies, 3%				1359.72				5605.48
	Labour welfare 4%				1812.96				7473.98
	Net Total Rs				48496.75				199928.86

Third Year Operation 2023-2024

Sr. No	Particulars of Work	For 1 ha. Man days	For 1 ha. Labour Wages	For 1 ha. Matarial Supply	For 1 ha. Total Cost	For 4.0122 Ha. Man days	For 4.0122 Ha. Labour Wages	For 4.0122 Ha. Matarial Supply	For 4.0122 Ha. Total Cost
1	Repairs of channels etc	19.00	7722.74	0.00	7722.74	76.23	31938.07	0.00	31938.07
2	Removal of mass Algea and garbage around the plants at the time of hightide	20.00	8129.20	0.00	8129.20	80.24	33619.03	0.00	33619.03
3	Controlling of pest by using pesticide & insecticide or fungicide attack or any grub attack on plants	1.00	406.46	200.00	606.46	4.01	1680.95	802.44	2483.39
4	Watch and ward , 1 watchmen for 10 ha. For 12 month	31.20	12681.55	0.00	12681.55	125.18	52445.68	0.00	52445.68
	Total	71.20	28939.95	200.00	29139.95	285.67	119683.73	802.44	120486.17
	Equipments, Contingencies, 3%				874.20				3614.59
	Labour welfare 4%				1165.60				4819.45
	Net Total Rs				31179.75				128920.21

RANGE FOREST OFFICER * DAHANU *

Forth Year Operation 2024-2025

	Particulars of Work	For 1 ha.				For 4.022 Ha.			
		Man days	Labour Wages	Matarial Supply	Total Cost	Man days	Labour Wages	Matarial Supply	Total Cost
1	Repairs of channels etc	19.00	7722.74	0.00	7722.74	76.23	31938.07	0.00	31938.07
2	Removal of mass Algea and garbage around the plants at the time of hightide	20.00	8129.20	0.00	8129.20	80.24	33619.03	0.00	33619.03
3	Watch and ward , 1 watchmen for 10 ha. For 12 month	31.20	12681.55	0.00	12681.55	125.18	52445.68	0.00	52445.68
	Total	70.20	28533.49	0.00	28533.49	281.66	118002.78	0.00	118002.78
	Equipments, Contingencies, 3%				856.00				3540.08
	Labour welfare 4%				1141.34				4720.11
	Net Total Rs				30530.84				126262.98

Fifth Year Operation 2025-2026

	Particulars of Work	For 1 ha.				For 4.0122 Ha.			
		Man days	Labour Wages	Matarial Supply	Total Cost	Man days	Labour Wages	Matarial Supply	Total Cost
1	Removal of mass Algea and garbage around the plants at the time of hightide	20.00	8129.20	0.00	8129.20	80.24	33619.03	0.00	33619.03
2	Watch and ward , 1 watchmen for 10 ha. For 12 month	31.20	12681.55	0.00	12681.55	125.18	52445.68	0.00	52445.68
	Total	51.20	20810.75	0.00	20810.75	205.42	86064.71	0.00	86064.71
	Equipments, Contingencies, 3%				624.32				2581.94
	Labour welfare 4%				832.43				3442.59
	Net Total Rs				22267.50				92089.24

Six Year Operation 2026-2027

	Particulars of Work	For 1 ha.				For 4.0122Ha.			
		Man days	Labour Wages	Matarial Supply	Total Cost	Man days	Labour Wages	Matarial Supply	Total Cost
1	Removal of mass Algea and garbage around the plants at the time of hightide	20.00	8129.20	0.00	8129.20	80.24	33619.03	0.00	33619.03
2	Watch and ward , 1 watchmen for 10 ha. For 12 month								
	Total	31.20	12681.55	0.00	12681.55	125.18	52445.68	0.00	52445.68
	Equipments, Contingencies, 3%	51.20	20810.75	0.00	20810.75	205.42	86064.71	0.00	86064.71
	Labour welfare 4%				624.32				2581.94
					832.43				3442.59
	Net Total Rs				22267.50				92089.24

RANGE FOREST OFFICER

Seven Year Operation 2027-2028

	Particulars of Work	For 1 ha.				For 4.0122 Ha.			
		Man days	Labour Wages	Matarial Supply	Total Cost	Man days	Labour Wages	Matarial Supply	Total Cost
1	Removal of mass Algea and garbage around the plants at the time of hightide	20.00	8129.20	0.00	8129.20	80.24	33619.03	0.00	33619.03
2	Watch and ward , 1 watchmen for 10 ha. For 12 month	31.20	12681.55	0.00	12681.55	125.18	52445.68	0.00	52445.68
	Total	51.20	20810.75	0.00	20810.75	205.42	86064.71	0.00	86064.71
	Equipments, Contingencies, 3%				624.32		0.00		2581.94
	Labour welfare 4%				832.43		0.00		3442.59
	Net Total Rs				22267.50		0.00		92089.24

Eight Year Operation 2028-2029

	Particulars of Work	For 1 ha.				For 4.0122 Ha.			
		Man days	Labour Wages	Matarial Supply	Total Cost	Man days	Labour Wages	Matarial Supply	Total Cost
1	Removal of mass Algea and garbage around the plants at the time of hightide	20.00	8129.20	0.00	8129.20	80.24	33619.03	0.00	33619.03
2	Watch and ward , 1 watchmen for 10 ha. For 12 month	31.20	12681.55	0.00	12681.55	125.18	52445.68	0.00	52445.68
	Total	51.20	20810.75	0.00	20810.75	205.42	86064.71	0.00	86064.71
	Equipments, Contingencies, 3%				624.32		0.00		2581.94
	Labour welfare 4%				832.43		0.00		3442.59
	Net Total Rs				22267.50		0.00		92089.24

Ninth Year Operation 2029-2030

	Particulars of Work	For 1 ha.				For 4.0122 Ha.			
		Man days	Labour Wages	Matarial Supply	Total Cost	Man days	Labour Wages	Matarial Supply	Total Cost
1	Removal of mass Algea and garbage around the plants at the time of hightide	20.00	8129.20	0.00	8129.20	80.24	33619.03	0.00	33619.03
2	Watch and ward , 1 watchmen for 10 ha. For 12 month	31.20	12681.55	0.00	12681.55	125.18	52445.68	0.00	52445.68
	Total	51.20	20810.75	0.00	20810.75	205.42	86064.71	0.00	86064.71
	Equipments, Contingencies, 3%				624.32		0.00		2581.94
	Labour welfare 4%				832.43		0.00		3442.59
	Net Total Rs				22267.50		0.00		92089.24

RANGE FOREST OFFICER * DAHANU *

	Tenth Year Operation 2030-2031								
	Particulars of Work	For 1 ha.				For 4.0122 Ha.			
		Man days	Labour Wages	Matarial Supply	Total Cost	Man days	Labour Wages	Matarial Supply	Total Cost
1	Removal of mass Algea and garbage around the plants at the time of hightide	20.00	8129.20	0.00	8129.20	80.24	33619.03	0.00	33619.03
2	Watch and ward , 1 watchmen for 10 ha. For 12 month	31.20	12681.55	0.00	12681.55	125.18	52445.68	0.00	52445.68
	Total	51.20	20810.75	0.00	20810.75	205.42	86064.71	0.00	86064.71
	Equipments, Contingencies, 3%				624.32		0.00		2581.94
	Labour welfare 4%				832.43		0.00		3442.59
	Net Total Rs				22267.50		0.00		92089.24

	Abstract								
1	First year operation	457.90	191841.78	14793.00	206634.78	1837.19	769707.61	59352.47	829060.08
2	Second year operation	99.70	40524.06	4800.00	45324.06	400.02	167590.85	19258.56	186849.41
3	Third year operation	71.20	28939.95	200.00	29139.95	285.67	119683.73	802.44	120486.17
4	Fourth year operation	70.20	28533.49	0.00	28533.49	281.66	118002.78	0.00	118002.78
5	Fifth year operation	51.20	20810.75	0.00	20810.75	205.42	86064.71	0.00	86064.71
6	Six year operation	51.20	20810.75	0.00	20810.75	205.42	86064.71	0.00	86064.71
7	Seven year operation	51.20	20810.75	0.00	20810.75	205.42	86064.71	0.00	86064.71
8	Eight Year Operation	51.20	20810.75	0.00	20810.75	205.42	86064.71	0.00	86064.71
9	Ninth year operation	51.20	20810.75	0.00	20810.75	205.42	86064.71	0.00	86064.71
10	Tenth year operation	51.20	20810.75	0.00	20810.75	205.42	86064.71	0.00	86064.71
	Total	1006.20	414703.80	19793.00	434496.80	4037.08	1691373.21	79413.47	1770786.68
	ContinGency 3%				13034.90406				53123.60054
	ContinGency 4%				17379.87208				70831.46739
	GrandTotal				464911.58				1894741.75

Estimate Prepared By

Range Forest Officer
Dahanu

Range Forest Officer
Dahanu.

RANGE FOREST OFFICER * DAHANU *

सत्यमेव जयते

Checked By

Assistant Conservator of Forest
Kasa

स.व.स.कासा.

~~Technical Sanction No-~~
~~Date-~~

Deputy Conservator of Forest
Dahanu

Dy. Conservator of Forests
Dahanu

Administative Approval
Date-