Name of Project: Diversion of 0.8325 ha. Mangrove land for Construction of link road from N.H.4 (Mumbai – Pune) to Katai Junction in Thane Dist.

Estimate Compensatory Afforestation Model No.4

Range - Tokawada (South) Spacement - 4.0 M X4.0 M R.F. Compt. No 722 Place - Savarne.

Round - Moroshi Size of Pits-0.45 X 0.45 X 0.45 M Area - 1.00

Beat - Savarne No of Seedlings -625 per ha Wage Rate 327.56

Sr.No	Particulars of works	1 ha.				1.00 ha.			
		Man days	Wages	M.S.	Total	Man days	Wages	M.S.	Total
1	2	3	4	5	6	7	8	9	10
	A. Pre Monsoon Works (PPO/PYO)								
1	a. Survey and demarcation	1.00	327.56	50.00	377.56	1.00	327.56	50.00	377.56
	b. Preparation of treatment map (100 mX 50 m grid)	1.00	327.56	50.00	377.56	1.00	327.56	50.00	377.56
	c. Clearing of bushes and Preparation of Site(AS per requirement)	10.00	3275.60	50.00	3325.60	10.00	3275.60	50.00	3325.60
2	Soil and Moisture Conservation works including collection of rubbles from areas upto 30 m etc	31.00	10154.36	0.00	10154.36	31.00	10154.36	0.00	10154.36
3	Digging of Trench Cum mound (TCM) of zixe 1.90 X 0.60 X 1.00 m along the periphery of plantation area including spreading/ stacking the excavted soil as directed in 1 m width and 1M height.Length 102 Rmt per Ha (127.50 cum per ha)	82.57	27046.63	50.00	27096.63	82.57	27046.63	50.00	27096.63
4	Caunting Of grid wise valuable species & applying colour bands	3.50	1146.46	49.77	1196.23	3.50	1146.46	49.77	1196.23
5	singling of coppices ,cut back operation debudding,climber cutting &soil working around natural regaration	10.00	3275.60	0.00	3275.60	10.00	3275.60	0.00	3275.60
6	part Nursery cost for raising 750 Seedling per ha in polybag of size 12.50 X 25.00 cm Rs.10.56 per plant	26.29	7977.17	1320.00	9297.17	26.29	7977.17	1320.00	9297.17
7	Alingment of pits at 4 x 4 m spacement (wages 0.13 M.D. and MS Rs 2.24 per 50 pits	1.62	491.55	28.00	519.55	1.62	491.55	28.00	519.55

8	Digging of pits 625 Pits per ha (6.60 M.D per 100 pits)	41.25	13511.85	0.00	13511.85	41.25	13511.85	0.00	13511.85
	Total	208.23	67534.34	1597.77	69132.11	208.23	67534.34	1597.77	69132.11
	3% Contigency				2073.96				2073.96
	4% labour welfare				2765.28				2765.28
	Grand Total	208.23	67534.34	1597.77	73971.36	208.23	67534.34	1597.77	73971.36
									73971
	Total								

Place -

Area - 1.00

Wage Rate 327.56

Sr.No	Particulars of works	1 ha.				1.00ha.			
		Man days	Wages	M.S.	Total	Man days	Wages	M.S.	Total
1	2	3	4	5	6	7	8	9	10
	B First Year Operation								
1	Part Nursery cost for Maintainace of 750 Seedling per ha RS.2.64 per seedling (wages Rs.2.20 M & S Rs.0.44)	6.57	2152.07	330.00	2482.07	6.57	2152.07	330.00	2482.07
2	Reffilling of pits by good quality soil & single super phosphate Rs.0.96 per pit (1.66 M.D. per 100 pits	10.38	3400.07	600.00	4000.07	10.38	3400.07	600.00	4000.07
3	plantation of agave suckers in 3 rows on TCM (306 Suckers per ha and RS. 3 per Suckers	1.00	327.56	918.00	1245.56	1.00	327.56	918.00	1245.56
4	Transportation of seedlings from Nursery to plantation site including loading &unloding (Rs100 per Seedling wages 0.14 md per 100 seed.	1.05	343.94	750.00	1093.94	1.05	343.94	750.00	1093.94
5	planting of 625 seedling per ha (1.05 M.D. per 100 Seedling	9.38	3072.51	0.00	3072.51	9.38	3072.51	0.00	3072.51
6	Causality Replacement (20%125seedlings per ha)2.md per 100 Seed 2.md per 100 Seedlings	2.50	758.57	0.00	818.90	2.50	818.90	0.00	818.90
7	3 weeding and 2 soil working (3.50 M.D.Per 100 seedling) fertilizer application RS.0.45 per Seedling	42.00	12744.06	472.50	13216.56	42.00	12744.06	472.5	13216.56
8	part Nursuary cost for raising seedlings in casuality Replacement in SYO (125 Seedlings per ha)RS 10.56 per plant	4.38	1329.02	220.00	1549.02	4.38	1329.02	220.00	1549.02
9	Watch and ward (9 months 1 watcher per 10 ha)	30.00	9102.90	0.00	9102.90	30.00	9102.90	0.00	9102.90

10	Fire tracing	2.00	606.86	0.00	606.86	2.00	606.86	0.00	606.86
	Total	109.26	33837.56	3290.50	37188.39	109.26	33897.89	3290.50	37188.39
	3% Contigency				1115.65				1115.65
	4% labour welfare				1487.54				1487.54
	Grand Total	109.26	33837.56	3290.5	39791.58	109.26	33897.89	3290.5	39791.58
	Total								39792

Place -

Area - 1.00

Wage Rate 327.56

Sr.No	Particulars of works	1 ha.				1.00 ha.			
		Man days	Wages	M.S.	Total	Man days	Wages	M.S.	Total
1	2	3	4	5	6	7	8	9	10
	C.Second Year operations								
1	Part Nursery cost for Seedling for Causality replacement (500 Seedlings per ha)	1.10	360.32	586.52	946.84	1.10	360.32	586.52	946.84
2	Transport of Seedlings for causality replacement from nursuary to plantation site including loading and unloding) (0.14 M.D per125Seed.	0.18	58.96	9500.00	9558.96	0.18	58.96	9500.00	9558.96
3	Causality Replacement (125seedlings per ha)2.md per 100 Seedling	2.50	818.90	0.00	818.90	2.50	818.90	0.00	818.90
4	2 weedling and 1 Soil Working With FertiliZer application at RS.0.45 per Seedlings	26.50	8680.34	0.00	8680.34	26.50	8680.34	0.00	8680.34
5	Watch and ward (12 months 1 watcher per 10 ha)	36.50	11075.19	0.00	11075.19	36.50	11075.19	0.00	11075.19
6	Fire tracing	2.00	655.12	2346.08	3001.20	2.00	655.12	2346.08	3001.20
	Total	68.78	21648.83	12432.60	34081.43	68.78	21648.83	12432.60	34081.43
	3% Contigency				1022.44				1022.44
	4% labour welfare				1363.26				1363.26
	Grand Total	68.78	21648.83	12432.60	36467.13	68.78	21648.83	12432.60	36467.13
	Total								36467

Place -
Area - 1.00
Wage Rate 327.56

Sr.No	Particulars of works	1 ha.				1.00 ha.			
		Man days	Wages	M.S.	Total	Man days	Wages	M.S.	Total
1	2	3	4	5	6	7	8	9	10
	D.Third Year Operations								
1	Singling cut back operations debudding climber cutting and Soil work ing for natural regeneration	10.00	3275.60	0.00	3275.60	10.00	3275.60	0.00	3275.60
2	one weeding (1 M.D. pe 100 Seedlings	6.25	2047.25	0.00	2047.25	6.25	2047.25	0.00	2047.25
3	Collection and Sowing of Seeds of Valuable Species	1.00	327.56	0.00	327.56	1.00	327.56	0.00	327.56
4	Watch and ward (12 months 1 watcher per 10 ha)	36.50	11955.94	0.00	11955.94	36.50	11955.94	0.00	11955.94
5	Fire tracing	2.00	655.12	0.00	655.12	2.00	655.12	0.00	655.12
	Total	55.75	18261.47	0.00	18261.47	55.75	18261.47	0.00	18261.47
	3% Contigency				547.84				547.84
	4% labour welfare				730.46				730.46
	Grand Total	55.75	18261.47	0.00	19539.77	55.75	18261.47	0.00	19539.77
	Total								19540

Place -

Area - 1.00

Wage Rate 327.56

Sr.No	Particulars of works	1 ha.				1.00 ha.			
		Man days	Wages	M.S.	Total	Man days	Wages	M.S.	Total
1	2	3	4	5	6	7	8	9	10
	E.Fourth Year Operations								
1	Watch and ward (12Months - 1 Watcher per 10 ha)	36.50	11955.94	0.00	11955.94	36.50	11955.94	0.00	11955.94
2	Fire tracing	2.00	655.12	0.00	655.12	2.00	655.12	0.00	655.12
	Total	38.50	12611.06	0.00	12611.06	38.50	12611.06	0.00	12611.06
	3% Contigency				378.33				378.33
	4% labour welfare				504.44				504.44
	Grand Total	38.50	12611.06	0.00	13493.83	38.50	12611.06	0.00	13493.83
	Total								13494

						Place -		
						Area -	1.00	
						Wage Rate	327.56	

Sr.No	Particulars of works	1 ha.				1 ha.			
		Man days	Wages	M.S.	Total	Man days	Wages	M.S.	Total
1	2	3	4	5	6	7	8	9	10
	F.Fifth Year Operations								
1	Watch and ward (12Months - 1 Watcher per 10 ha)	36.50	11955.94	0.00	11955.94	36.50	11955.94	0.00	11955.94
2	Fire tracing	2.00	655.12	0.00	655.12	2.00	655.12	0.00	655.12
	Total	38.50	12611.06	0.00	12611.06	38.50	12611.06	0.00	12611.06
	3% Contigency				378.33				378.33
	4% labour welfare				504.44				504.44
	Grand Total	38.50	12611.06	0.00	13493.83	38.50	12611.06	0.00	13493.83
	Total								13494

Place -

Area - 1.00

Wage Rate 327.56

Sr.No	Particulars of works	1 ha.				1 ha.			
		Man days	Wages	M.S.	Total	Man days	Wages	M.S.	Total
1	2	3	4	5	6	7	8	9	10
	G. Sixth Year Operations								
1	Watch and ward (12Months - 1 Watcher per 10 ha)	36.50	11955.94	0.00	11955.94	36.50	11955.94	0.00	11955.94
2	Fire tracing	2.00	655.12	0.00	655.12	2.00	655.12	0.00	655.12
	Total	38.50	12611.06	0.00	12611.06	38.50	12611.06	0.00	12611.06
	3% Contigency				378.33				378.33
	4% labour welfare				504.44				504.44
	Grand Total	38.50	12611.06	0.00	13493.83	38.50	12611.06	0.00	13493.83
	Total								13494

Place -

Area - 1.00

Wage Rate 327.56

Sr.No	Particulars of works	1 ha.				1.00 ha.			
		Man days	Wages	M.S.	Total	Man days	Wages	M.S.	Total
1	2	3	4	5	6	7	8	9	10
	H.Seventh Year Operations				मजूरीचे दर रु.३०३.४३				
1	Watch and ward (12Months - 1 Watcher per 10 ha)	36.50	11955.94	0.00	11955.94	36.50	11955.94	0.00	11955.94
2	Fire tracing	2.00	655.12	0.00	655.12	2.00	655.12	0.00	655.12
	Total	38.50	12611.06	0.00	12611.06	38.50	12611.06	0.00	12611.06
	3% Contigency				378.33				378.33
	4% labour welfare				504.44				504.44
	Total	38.50	12611.06	0.00	13493.83	38.50	12611.06	0.00	13493.83
	Grand Total								13494

Abstract for Model No.

S.r No.	Year of operation	Man days	Wages	Material Supply	Total	Others Expenses	Total	Total amount (1.00 He. rounded off)
1	Pre Monsoon Works	208.23	67534.34	1597.77	69132.00	4839.24	73971.24	73971
2	First year Operations	109.26	33837.56	3290.50	37188.39	2603.19	39791.58	39792
3	Second year Operations	68.78	21648.83	12432.60	34081.43	2385.70	36467.13	36467
4	Third year Operations	55.75	18261.47	0.00	18261.47	1278.30	19539.77	19540
5	Fourth year Operations	38.50	12611.06	0.00	12611.06	882.77	13493.83	13494
6	Fifth year Operations	38.50	12611.06	0.00	12611.06	882.77	13493.83	13494
7	Sixth year Operations	38.50	12611.06	0.00	12611.06	882.77	13493.83	13494
8	Sevanth year Operations	38.50	12611.06	0.00	12611.06	882.77	13493.83	13494
	Total	**596.02**	**191726.44**	**17320.87**	**209107.53**	**14637.53**	**223745.06**	**223746**