COMPENSATORY AFFORESTATION

PLANTING OF LITTORAL AND OTHER SUITABLE NATIVE SPECIES

CALCULATION SHEET OF COMPENSATORY AFFORESTATION COST					
Sl. No	Name of the Work	Quantity	Rate	Per	Amount
1	2	3	4	5	6
1	Raising Compensatory Afforestation Plantation (1000 Nos per ha) - 2.22 Ha	2220 Nos	240	1 No	532800
2	Cost of Ist year maintenance - 2.22 Ha	2220 Nos	25.3	1 No	56166
3	Cost of IInd year maintenance - 2.22 Ha	2220 Nos	8.91	1 No	19780
4	Cost of IIIrd year maintenance (IInd year maintenance cost + 5% enhancement rate)	2220 Nos	9.36	1 No	20769
5	Cost of IVth year maintenance (IIIrd year maintenance cost + 5% enhancement rate)	2220 Nos	9.83	1 No	21808
6	Cost of Vth year maintenance (IVnd year maintenance cost + 5% enhancement rate)	2220 Nos	10.32	1 No	22898
7	Cost of VIth year maintenance (IVth year maintenance cost + 5% enhancement rate)	2220 Nos	10.84	1 No	24043
8	Cost of VIIth year maintenance (VI year maintenance cost + 5% enhancement rate)	2220 Nos	11.38	1 No	25245
9	Cost of VIIIth year maintenance (VII year maintenance cost + 5% enhancement rate)	2220 Nos	11.95	1 No	26507
10	Cost of IXth year maintenance (VIIIth year maintenance cost + 5% enhancement rate)	2220 Nos	12.55	1 No	27832
11	Cost of Xth year maintenance (IX year maintenance cost + 5% enhancement rate)	2220 Nos	13.18	1 No	29224
12	Providing Barbed wire fenching using RCC Readymade pillers (Total CA Land area 2.22 Ha or 850.00 RM)	850.00 RM	1350	1 RM	1147500
13	Providing water harvesting structure	1 No	400000	1 No	400000
13	Contingencies	L.S			428
	TOTAL				2355000

(Rupees twenty three lakhs fifty five thousand only)

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MODEL ESTIMTE FOR RAISING AND PLANTING 1000 NOS OF TALLER SEEDLING (30 X 45) FOR COMPENSATORY PLANTATION IN WILDLIFE DIVISION,CHENNAI-22						
Sl. No	Name of the Work	FSR/SSR Item No.	Quantity	Rate	Per	Amount
1	2	3	4	5	6	7
	PART - 1 : NURSERY OPERATION					
1	Preparation of Nursery site	4.1	20m2	775.01	200m2	77.5
2	Cost of Seeds	Local Rate	1 kg	200	1 kg	200
3	Cost of 13 X 25cm X 250g polythene Bages	Local Rate	1000 Nos	819	1000 Nos	819
4	Formation of mother beds of size 10mx1mx0.80m@1 bed/5000 Nos	FSR 86-87	1 Bed	27.5	1Bed	27.5
5	Watering Germination beds twice daily with rose can for 15 days	4.5.1	1 Bed/15 days	262.61	10 Bed/day	393.92
6	Watering Germination beds twice daily with rose can for 30 days	4.5.2	1 Bed/30 days	131.3	10 Bed/day	393.92
7	Cost of Sand @ 0.34m3 / 1000 nos	NHAI model estimate	0.34m3	500	1m3	170
8	Collection and transport of Silt @ 0.34m2 / 1000nos	NHAI model estimate	0.34m3	400	1m3	136
9	Cost and transport of Farm yard Mannure @ 0.34m3 / 1000 nos	NHAI model estimate	0.34m3	176	1m3	59.84
10	Preparation of Soil mixture by mixing sand,sit and Farm yard mannure in the ratio 1:1:1 and filling in polythene bages of size 13x25cmx250g and arranging in beds etc...	4.6	1000 Nos	1434.72	1000 Nos	1434.72
11	Watering twice daily - 15 days	4.10.4	1000 Nos/15 days	73.66	1000 / days	1104.9
12	Watering once daily - 30 days	4.11.4	1000 Nos/30 days	36.83	1000 / days	1104.9
13	Watering the alternate days-15 days	4.11.4	1000 Nos/15 days	36.83	1000 / days	552.45
14	Shifting and grading - 2 shift	4.15.4	1000 Nos/2 shift	163.33	1000 / shift	326.66
	Sub Total (A)					6801.31
15	Add 10% for culling damage etc..	10% of A				680.13
	Total for PART-1					7481.44

	PART - II Nursery operation - Bigger size bags					
16	Clearing Nursery site for forming beds @ 1 bed / 300 nos	4.1	66.6m2	775.01	200m2	258.07
17	Cost of polythene bages of size 30x45cmx600g-HDPE/empty cement bags 1.DPE	Local Rate	1000 Nos	6400	1000 Nos	6400
18	Cost of Palar river sand @ 3.234m3/1000 Nos	Local Rate	3.234m3	500	1m3	1617
19	Collection and transport of silt @ 3.234m3/1000 Nos	Local Rate	3.234m3	400	1m3	1293.6
20	Cost and Transport of Farm yard mannure @ 2.234m3/1000 Nos	Local Rate	3.234m3	176	1m3	569.18
21	Preparation of Soil mixture by mixing sand,sit and Farm yard mannure in the ratio 1:1:1 and filling in polythene bages of size 30x45cmx600g and arranging in beds etc...	4.6.7	1000 Nos	9149.54	1000 Nos	9149.54
22	Cost of VAM 40gms @18/kg vamricastings 100gms @ 10/kg Azozphyrillum 15gms @ 27/kg . Phospobacteria 15gms @27/kg plant HDPE/1.DPE	As per research wing rate	1000 Nos	2.53	1 Each	2530
23	Labour cost for transporting 13x25cm bags seeding in to 30x45cmx600g bags/HDPE	Collector Rate	10 maz/ 1000 nos	320	1 Mazdoor	3200
24	Cost of Vertical stick of size 2.5mt Ht.	Local Rate	1000 Nos	8	1 Each	8000
25	Cost of Horizontal stick	Local Rate	500 m	1	1 metre	500
26	Tying plants to the vertical stick once in a month	Local Rate	1000 Nos/4 times	0.25		1000
27	Pruning side to the vertical stick once in a month	Local Rate	1000 Nos/4 times	1	1 Each/time	4000
28	Watering 30x45cm bags twice daily	4.10.7	1000 Nos/30 days	179.34	1000/day	5380.2
29	Watering 30x45cm bags twice daily	4.11.7	1000 Nos/230 days	89.67	1000/day	20624.1
30	Shifting the container once in of 1 days First shift after 45 days from the date transporting-10 shifts	4.15.7	1000 Nos / 10 shift	861.47	1000/day/ shift	8614.7
31	Wages of once mazdoor for protection	FSR mandays	0.05 mazdoor/ 300 days	320	1 day	4800
32	Cost of DAP 0.5% TO 1% DAP solution 10 times 10gm/litre.	Local Rate	25 kgs	25	1 kg	625
33	Pesticides	L.S				1100
	Sub Total (B)					79661.39

34	Add 5 % for culling damage etc...	5% of (B)				3983.07
34 (A)	Add 10% for casualty replacement in the plaanting year	10% OF (B)				7966.14
	TOATL FOR PART-II					**91610.6**
	GRAND TOTAL FOR PART- I & II (7481.44 + 91610.60)					99092.04
	Contigencies for unforseen charges					907.96
	GRAND TOTAL					**100000**
	PART - III : PLANTING OPERATION AND PROTECTION					
35	Transporting sapling (transported to the radius of 40 kms)	As per quotation	1100 Nos	8	1 Each	8800
36	Loading and unloading the seedings	5.11.7	1100 Nos	1053.62	1000 Nos	1158.98
37	Transport by headload up to 1.00 km	5.13.3	1100 Nos	22417.5	1000 Nos	24659.25
38 (A)	Distribution of sapling upto 100m	5.15.1	550 Nos	3202.5	1000 Nos	1761.37
(B)	Upto 200m	5.15.2	550 Nos	5604.38	1000 Nos	3082.4
39	Digging of pits in hard gravelly soil (i) 60cm3	5.8.1	1000 Nos	2965.52	100 Nos	29655.2
40	Cost and transport of farmyard mannure @ 0.054m3 for 60cm3 pit (1/4 by volume)	4.6.10	54m3	176	1 m3	9504
41	Application charges for farm yard mannure for 60 cm3 pit@ 1maz/30 Nos	collector rate	34mazdoor / 1000 Nos	320	1 mazddor	10880
42	Biofertilizer including cost of application	Local Rate	1000 Nos	5	1 Plant	5000
43	Planting saplings 60 cm3 pit	5.22	1000 Nos	547.63	100 Nos	5476.3
44	Provision of stick for saplings to the planted seedings	Local Rate	1000 Nos	10	1 Each	10000
45	Replacement of casusities 1/2 pitting rate of full planting rate (Rain season rate) 60 cm3 pits	chennai circle rate	100 nos	18.9	1 Each	1890
46	Watering and soil working	5.24	1000 Nos	393.91	100 Nos	3939.1
47	Forming catch water drains for each plant	5.26	1000 Nos	2190.51	100 Nos	21905.1
	TOTAL FOR PART-III					137711.7
	GRAND TOTAL FOR PART- I ,II & III					**237711.7**
	Contigencies for unforseen charges					2288.3
	GRAND TOTAL					**240000**
	i.e. Rs.240.00 / No					

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ESTIMATE FOR I YEAR MAINTENCE OF COMPENSATORY PLANTATIONS REPLACEMENT OF CASUALITIES 10%						
Sl. No	Name of the Work	FSR/SSR Item No.	Quantity	Rate	Per	Amount
1	2	3	4	5	6	7
1	Cost of taller plants	As per model estimate	100 Nos	90.5	1 Each	9050
2	Transporting seedlings (upto 40 km)	As per Quotation	100 Nos	8	1 Each	800
3	Loading and unloading the seedings	5.11.7	100 Nos	1053.62	1000 Nos	105.36
4	Transported of seeding by head load upto 1.00km	5.13.3	100 Nos	19535.25	1000 Nos	1953.53
5	Distribution of sapling (i) upto 200m	5.15.2	50 Nos	5604.38	1000 Nos	280.22
	(ii) upto 500m	5.15.2	50 Nos	13130.25	1000 Nos	656.51
6	Replacement of casusities 50% pitting	5.23	100 Nos	18.9	1 Each	1890
7	Weeding and soil working	5.24	1000/2 times	393.91	100 Nos	7878.2
8	Contigencies for cost of DAP etc..	L.S				386.18
	SUB TOTAL					**23000**
	Add 10% enhancement rate for 1st year maintenance					2300
	GRAND TOTAL					**25300**
i.e.Rs.25.30 / No						

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ESTIMATE FOR II YEAR MAINTENCE OF COMPENSATORY PLANTATIONS						
Sl. No	Name of the Work	FSR/SSR Item No.	Quantity	Rate	Per	Amount
1	2	3	4	5	6	7
1	Weeding and soil working	5.24	1000/2 times	393.91	100 Nos	7878.2
2	Contigencies for cost of DAP etc..	L.S				221.8
	SUB TOTAL					**8100**
	Add 10% enhancement rate for IInd year maintenance					810
	GRAND TOTAL					**8910**
i.e.Rs.8.91 / No						

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ESTIMATE FOR BARBED WIRE FENCHING USING RCC READYMADE PILLERS FOR 100RM						
Sl. No	Name of the Work	FSR/SSR Item No.	Quantity	Rate	Per	Amount
1	2	3	4	5	6	7
1	Cost of RCC Pillers (size 0.15x0.15x2.10m hight)	Local Rate	48 Nos	250	Each	12000
2	Digging 45cm3 pits	5.5	48 Nos	1239.37	100 Nos	595
3	PCC 1:5:10 using 40mm HBG Jelly	SSR	3.9 cum	2613	cum	10191
4	Planting the stones	Research rate	48 Nos	5	Each	240
5	Streching & tying the barbed wire	collector rate	7500 RM	320	100 Rm	24000
6	Cost & supply of Barbed wire	SSR	1250 kg	69.3	kg	86625
7	Cost & supply of binding wire (Galvanized)	SSR	15 kg	45.6	kg	684
8	Contingencies such as white washing & numbering the pillers coast of paint brush,etc..	L.S				665
	SUB TOTAL					135000
	i.e.Rs.1350 / 1 RM					

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