

Compensatory Afforestation Scheme for double degraded forest area

Details scheme of Compensatory Afforestation as per Chapter-2.6 (1) in the following cases, cost of plantation of ten times the number of trees likely to be felled or specified number of trees as may be specified in the order for diversion of forest land (subject to a minimum no. of 100 plants).

1. Details of degraded land.

Village	Palanpur
Taluka	Halol
Range	Halol
District	Panchmahal
Division	Godhra
Reserved Forest Survey No.	58
Area to be afforested	1 Ha. (1100 Plants)
Working circle	-

2. Description of Area.

Soil type	Black & Goradu Soil
Topography	Plain
Slope	Medium & Gentle
Whether the area is bearing any root stock of Vegetation	Yes

Details of Year Wise Break-Up requirement of fund is as under

Daily / Wages-Rs.340.20

Year	Area (ha)	Rate /ha	Total Amount
0 Year 70 %	1	176224	176224
1 st Year	1	86388	86388
2 nd Year	1	58071	58071
3 rd Year	1	46310	46310
4 th Year	1	16028	16028
5 th Year	1	8532	8532
6 th Year	1	9750	9750
7 th Year	1	10150	10150
8 th Year	1	10620	10620
9 th Year	1	10820	10820
10 th Year	1	10965	10965
Total	1	443858	443858
Supervision Charge 20 %	1	88772	88772
Total	1	532630	532630

Say

5,32,630/-

Compensatory Afforestation will be done in 1 ha. Area. The total afforestation cost will be Rs.5,32,630/-

3. **Name of Plantation Programme:-**
Compensatory Afforestation Scheme for Degraded Area.

4. **Schedule of Plantation Programme:-**

- (i) The Compensatory Afforestation on degraded area would be started by Dy.Conservator of Forest Godhra Division as early as possible after the proposal is formally approved.
- (ii) Compensatory Afforestation will be done in 1 ha. Area. The total afforestation cost will be about **Rs.5,32,630/-** has given an undertaking to pay the cost of Compensatory Afforestation as per the prevailing wages (including the price escalation and supervision charges).

5. **Technical Details:-**

Technical details of Compensatory Afforestation are as Follows:

Sr. No.	Details	Specifications																														
a	General Details	The C.A. will be taken under Compensatory Afforestation for double land on degraded Forest Areas. The prevailing wage rate is 340.20 per day.																														
b	Spacing	3 X 3 mtr., 1100 plants per ha.																														
c	Species to be planted (No. of plants per ha.)	<table border="1"> <tr> <td>Holoptelea</td><td>333</td><td>65 cm</td></tr> <tr> <td>Teak</td><td>370</td><td>50 cm</td></tr> <tr> <td>Custard Apple</td><td>160</td><td>50 cm</td></tr> <tr> <td>Cassia fistula</td><td>60</td><td>50 cm</td></tr> <tr> <td>Bamboo</td><td>50</td><td>50 cm</td></tr> <tr> <td>Mahuda</td><td>10</td><td>50 cm</td></tr> <tr> <td>Khair</td><td>10</td><td>50 cm</td></tr> <tr> <td>Vad, Pipal, Khatimbali, Arjun, sadad</td><td>55</td><td>65 cm</td></tr> <tr> <td>Limado, kothi, kadayo, Bili etc...</td><td>52</td><td>50 cm</td></tr> <tr> <td>Total</td><td>1100</td><td></td></tr> </table>	Holoptelea	333	65 cm	Teak	370	50 cm	Custard Apple	160	50 cm	Cassia fistula	60	50 cm	Bamboo	50	50 cm	Mahuda	10	50 cm	Khair	10	50 cm	Vad, Pipal, Khatimbali, Arjun, sadad	55	65 cm	Limado, kothi, kadayo, Bili etc...	52	50 cm	Total	1100	
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Total	1100																															
d	Nursery Technique	Nine months old polypot raised plants will be planted at the onset of monsoon.																														
e	Site Preparation	The malformed rootstock present in the area will be cutback & the site will be cleaned in the month of Nov-Dec. Alignment & pit digging 45 x 45 x 45 cms. will be carried out in the month of Dec-Jan.																														
f	Plantation Method	Polypot raised plants will be planted during monsoon.																														
g	Soil & Moisture Conservation Works	<p>(i) Pucca structure like Check dam, check wall, retaining wall</p> <p>(ii) Contour trenches 2.00 x 0.45 x 0.30, 300 Nos/ha. will be dug</p>																														

		along the contour line. the dug out soil will be heaped on the down ward side. Gully plugging & Nala Banding using The loose stone available in the area will be carried out as per requirement. Seeds of Jatropha, Agave plants ...etc. will be planted during monsoon in the upper side of nala as per suitability.
		(iii) Van Talavadi/ Percolation tank
h	Protection Trench	Barbed wire fencing, Seed sowing And planting of cuttings of Ipomea/ Glarcidia along the fence
i	Silvicultural Operations	1 st year three weeding soil working, Support watering will be provided if needed. 2 nd year two weeding soil working. 3 rd year one weeding soil working.
j	Maintenance	It is proposed to maintain the Plantation up to ten years.
k	Subsequent silvicultural Operation	Cleaning, cutbacks, thinning etc. (as per species specific requirement) will be carried out at the age as per prescribed in the working plan.
l	Proposed monitoring mechanism	(i) A plantation register is to be maintained. (ii) Monitoring is to be done as per the following norms. Forester – 100% RFO – 100% ACF – 20% DCF – 10% (iii) The results of survival etc. are maintained in the plantation register on a periodical basis, which is updated at the end of September and March each year. (iv) The collar girth is also to be reordered at the end of each year. (v) At the end of maintenance period, the area is aimed at full stocking and pole crop girth for all the species, except bamboo. (vi) Bamboo would be of the harvestable size by the end of 4 th year. (vii) Third party monitoring mechanism is also in the State and if the plantation is in the sample selected, it will also be monitored by the third party selected for this purpose.
m	Regeneration cleaning	Cut-back and promotion of root suckers.
n	Silviculture & other activities	Only afforestation aimed plantation will be taken up, as the area falls under degraded forest land.


Deputy Conservator of Forest
Godhra

The Compensatory Afforestation scheme at the cost of Rs.5,32,630/-is technically and administrative approved by the undersigned.


Deputy Conservator of Forest
Godhra

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Spacements = 3mx3m

1100 seedling / ha

1st year replacement 10 % = 100 seedling / ha

2nd year replacement 20 % = 100+100 seedling / ha

3rd year replacement 10 % = 100 seedling / ha

Total Seedlings = 1300 seedling / ha

Polypot size : 15 cm X 25 cm X 200

Wage rate: 340.20/Day

	Plau ground	Qty.	Labour	Material	Totals
0 year Nursery					
(a)	Cost of soil. manure, seeds, water, fertilizer, insecticides, implements, rent of lands. Shade. etc. (including '10 % for casualty replacement)	1200	0	1815	1815
(b)	labour : Preparation of beds, filling and arranging of bags, showing of seeds, watering shifting, weeding etc.	1200	4868	230	5098
	Seedling cost for casualty replacement in one year old (20 %)	200	1538	419	1957
	Seedling cost for casualty replacement in two year old (10%)	100	770	209	979
	Total		7177	2673	9850
2. Area Development (Land Preparation)					
(a)	Survey, cutback and promotion of root suckers		3657	0	3657
	Alignment and digging of pits 0.45 X 0.45 X 0.45	1100@8.84	9724	0	9724
	Total		13381	0	13381
(a)	Fertilizer (Neem cake/ Castor cake)/Vermicompost etc.	1100@10.	0	11000	11000
	Total		0	11110	11110
3. SMC Works					
			0		
(a)	Check wall/ retaining wall /checkdem (all pucca only)	L.S	13685	23535	37220
(b)	Contour trench 2 M x 45 Cm x 30 Cm as per Rs.51.75/rmt (300 trench)	600rmt	10160	0	10160
(c)	Van Talavadi/Hill Top Tank/Percolation tank/Nala bund,Gully Plug etc.		10484	0	10000
	Total		34329	23535	57380
4. Protection					
(a)	Barbed wire fencing (205 rmt/ Ha. , Rs. 400/- per Rmt)	L.S	7339	75000	82000
(b)	Seed sowing and planting of cuttings of Ipomea/ Glaricidia along the fence		1208	473	1681
	Total		8547	75473	83681
	Total for 0 year		63433	112791	176224
1st Year					
(a)	Maintenance of nursery (April to June)	1200	4460	340	4800
(b)	Transport of seedling for plantation@3.50/Plants	1100	2370	200	2570
(c)	Unloading and Head load Transportation (15 cm x 25 cm)	1100	1496	0	1496
(d)	Planting with khamna of Min. 1 m dia	1100	6908	0	6908
(e)	Transport & Digging of Pit and then plantation (Casualty Replacement) @ 8.50 Per Plant	100	420	44	464
(f)	3 weeding cum soilworking	1100	25376	0	25376
(g)	Support watering 5 times @5.30		17560	20539	38099
(h)	Protection / tending operation		5370	0	5370
(i)	Tending to natural vegetation		1305	0	1305
(i)	Contingency		0	1158	1158
	Total for 1st year		65265	21123	86388

2nd Year					
(a)	2 weeding & soil working		13774	0	13774
(b)	20 % Casually replcement, transport & Digging of Pit and then plantaion (Casuality Replacement) @ 8.50 Per Plant	100+100	370	1320	1690
(c)	Fertilizer (Neem cake/ Castor cake)/Vermicompost etc.	10/plants	0	13560	13560
(d)	Support watering 3 times @ 5.30		10195	13351	23546
(e)	Protection / tending operation		5501	0	5501
Total for 2nd Year			29840	28231	58071
3rd Year					
(a)	2 weeding & soil working		13774	0	13774
(b)	10 % Casually Replcement, transport & Digging of Pit and then plantaion (Casuality Replacement) @ 8.50 Per Plant	100 RS.	244	555	799
(b)	Fertilizer (Neem cake/ Castor cake)/Vermicompost etc.	10/plants	0	13332	13332
(c)	Support watering 1 times @6		3968	4120	8088
(d)	Protection & maintenance of fencing / tending Operation	L.S	10318	0	10318
Total for 3rd year			28303	18007	46310
4thYear					
(a)	1 weeding & soilworking	L.S	5710	0	5710
(b)	Protection & Maintenance of fencing/ Tending operation		10318	0	10318
Total for 4th Year			16028	0	16028
5thYear					
	Protection & maintenance of fencing/ tending operation	L.S	8532	0	8532
Total for 5th Year			8532	0	8532
6thYear					
	Protection & maintenance of fencing/ tending operation	L.S	9750	0	9750
Total for 6th Year			9750	0	9750
7 th Year					
	Protection & maintenance of fencing/ tending operation	L.S	10150	0	10150
Total for 7th Year			10150	0	10150
8 th Year					
	Protection & maintenance of fencing/ tending operation	L.S	10620	0	10620
Total for 8th Year			10620	0	10620
9 th Year					
	Protection & maintenance of fencing/ tending operation	L.S	10820	0	10820
Total for 9th Year			10820	0	10820
10 th Year					
	Protection & maintenance of fencing/ tending operation	L.S	10965	0	10965
Total for 10th Year			10965	0	10965
Grand Total			263706	180152	443858
The Cost of Supervision/Subsequential Silvicultural operations		20%	52741	36030	88772
			316448	216182	532630

Note :

- (1) Seed sowing along fensing toword for inner side, and also in the plot
- (2) Planting of cutting of ipomea/Glaricidia along the fencing towards outer side

Compensatory afforestation will be done in 1.00 Ha Area

Total Cost Rs. : 532630

100 Plants each proposal (11*100=1100 plants/Ha)


Deputy Conservator of Forests,
Godhra