

Compensatory Afforestation Scheme for double degraded forest area

Details scheme of compensatory afforestation for Diversion of 0.343 Ha Protected Forest land for the Protected for long term Road National Highway-56 Surkheda (km.376/300 to 377/00) and Dumoli (km.377/00 to 377/700) Dist.Chhotaudepur in Gujarat State.

1. Details of degraded land.

Village	Sampa
Taluka	Godhra
Range	Godhra East
District	Panchmahal
Division	Godhra
Reserved Forest Survey No.	487
Area to be afforested	Model-3 (1.00 ha)
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-351.30

Year	Area (ha)	Rate /ha	Total Amount
0 Year 70 %	1	184575	184575
1 st Year	1	94230	94230
2 nd Year	1	59044	59044
3 rd Year	1	48139	48139
4 th Year	1	16551	16551
5 th Year	1	8810	8810
6 th Year	1	10068	10068
7 th Year	1	10481	10481
8 th Year	1	10967	10967
9 th Year	1	11173	11173
10 th Year	1	11323	11323
Total	1	465361	465361
Supervision Charge 20 %	1	93072	93072
Total	1	558433	558433

Say

558433

Compensatory Afforestation will be done in 1.00 ha. Area. The total afforestation cost will be Rs.5,58,433/-

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.5,58,433/- Executive Engineer, National Highway Division, Vadodara 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 351.30 per day.(it may change as per wage rate at the time of approval.)
b	Spacement	3 X 3 mtr., 1111 plants per ha.
c	Species to be planted (No. of plants per ha.)	Holoptelea 300 65 cm
		Teak 350 Stump of minimum 6 cm Girth
		Custard Apple 166 50 cm
		Cassia fistula 55 50 cm
		Bamboo 125 50 cm
		Arjun sadad 7 65 cm
		Vad,Pipal ,Khati ambali , kuvad 55 65 cm
		Limado,kothi,kadayo,Bili etc... 53 50 cm
		Total 1111
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	(i) Pucca structure like Check dam, check wall, retaining wall (ii) Contour trenches 2.00 x 0.45 x 0.30, 300 Nos/ha.will be dug 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.5,58,433/-** is technically and administrative approved by the undersigned.


Deputy Conservator of Forest
Godhra

Compensatory Afforestation Scheme for Non- Forest land Under FCA Proposal

Details scheme of compensatory afforestation for Diversion of 0.343 Ha Protected Forest land for the Protected for long term Road National Highway-56 Surkheda (km.376/300 to 377/00) and Dumoli (km.377/00 to 377/700) Dist.Chhotaudepur in Gujarat State.

Spacemnts = 3mx3m

1111 seedling / ha

1st year replacement 20 % = 111+111 seedling / ha

2nd year replacement 20 % = 111+111 seedling / ha

3rd year replacement 20 % = 111+111 seedling / ha

Total Seedlings = 1333 seedling / ha

Polypot size : 15 cm X 25 cm X 200

Wage rate: 351.30/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)	1222	0	1815	1815
(b)	labour : Preparation of beds, filling and arranging of bags, showing of seeds, watering shifting, weeding etc.	1222	5027	230	5257
	Seedling cost for casualty replacement in one year old (20 %)	222	1589	419	2008
	Seedling cost for casualty replacement in two year old (10%)	111	795	209	1004
	Total		7411	2673	10084
2. Area Development (Land Preparation)					
(a)	Survey, cutback and promotion of root suckers		3777	0	3777
	Alignent and digging of pits 0.45 X 0.45 X 0.45	1111@8.84	10531	0	10531
	Total		14308	0	14308
(a)	Fertilizer (Neem cake/ Castor cake)/Vermicompost etc.	1111@10	0	11110	11110
	Total		0	11110	11110
3. SMC Works					
(a)	Check wall/ retaining wall /checkdem (all pucca only)	L.S	14132	23535	37667
(b)	Contour trench 2 M x 45 Cm x 30 Cm as per Rs.51.75/rmt (300 trench)/Trench/Stone dykes (45 cm ht.and 1 m inward sloped width)	600rmt	10710	0	10710
(c)	Van Talavadi/Hill Top Tank/Percolation tank/Nala bund,Gully Plug etc.		10826	0	10826
	Total		35668	23535	59203
4. Protection					
(a)	Barbed wire fencing (205 rmt/ Ha. , Rs. 430/- per Rmt) or Protection Trench	L.S	8150	80000	88150
(b)	Seed sowing and planting of cuttings of Ipomea/ Glaricidia along the fence		1247	473	1720
	Total		9397	80473	89870
	Total for 0 year		66784	117791	184575
1st Year					
(a)	Maintenance of nursery (April to June)	1222	4606	340	4946
(b)	Transport of seedling for plantation@3.50/Plants	1111	2447	200	2647
(c)	Unloading and Head load Transportation (15 cm x 25 cm)	1111	1560	0	1560
(d)	Planting with khamna of Min. 1 m dia	1111	7213	0	7213
(e)	20 % Casually replcement, transport & Digging of Pit and then plantaion (Casualty Replacement)	111+111	382	1320	1702
(f)	3 weeding cum soilworking	1111	29439	0	29439
(g)	Support watering 5 times @5.30		18133	20539	38672
(h)	Protection / tending operation		5545	0	5545
(i)	Tending to natural vegetation		1348	0	1348
(i)	Contingency		0	1158	1158
	Total for 1st year		70673	23557	94230

Year					
	weeding & soil working		14223	0	14223
(b)	20 % Casually replcement, transport & Digging of Pit and then plantaion (Casuality Replacement)	111+111	382	1320	1702
(c)	Fertilizer (Neem cake/ Castor cake)/Vermicompost etc.	Rs. 10/plants	0	13560	13560
(d)	Support watering 3 times @ 5.30		10528	13351	23879
(e)	Protection / tending operation		5680	0	5680
	Total for 2nd Year		30813	28231	59044
3rd Year					
(a)	2 weeding & soil working		14223	0	14223
(b)	20 % Casually replcement, transport & Digging of Pit and then plantaion (Casuality Replacement)	111+111	382	1320	1702
(c)	Fertilizer (Neem cake/ Castor cake)/Vermicompost etc.	Rs. 10/plants	0	13332	13332
(d)	Support watering 1 times @6		4097	4120	8217
(e)	Protection & maintenance of fencing / tending Operation	L.S	10665	0	10665
	Total for 3rd year		29367	18772	48139
4thYear					
(a)	1 weeding & soilworking	L.S	5896	0	5896
(b)	Protection & Maintenance of fencing/ Tending operation		10655	0	10655
	Total for 4th Year		16551	0	16551
5thYear					
	Protection & maintenance of fencing/ tending operation	L.S	8810	0	8810
	Total for 5th Year		8810	0	8810
6thYear					
	Protection & maintenance of fencing/ tending operation	L.S	10068	0	10068
	Total for 6th Year		10068	0	10068
7 th Year					
	Protection & maintenance of fencing/ tending operation	L.S	10481	0	10481
	Total for 7th Year		10481	0	10481
8 th Year					
	Protection & maintenance of fencing/ tending operation	L.S	10967	0	10967
	Total for 8th Year		10967	0	10967
9 th Year					
	Protection & maintenance of fencing/ tending operation	L.S	11173	0	11173
	Total for 9th Year		11173	0	11173
10 th Year					
	Protection & maintenance of fencing/ tending operation	L.S	11323	0	11323
	Total for 10th Year		11323	0	11323
Grand Total			277010	188351	465361
The Cost of Supervision/Subsequential Silvicultural operations		20%	55402	37670	93072
			332412	226021	558433

Note :

- (1) Seed sowing along fencing toward 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
Compensatory afforestation for 1 HA. Area**

**Cost Rs. : 5,58,433/-
Total Cost Rs. : 5,58,433/-**

**Deputy Conservator of Forests,
Godhra**