

**Compensatory Afforestation Scheme for double degraded forest area**

Details scheme of compensatory afforestation for Diversion of 22.176 Ha Protected Forest land for the Protected Forest for lining of Vadodara-Padara-Jambusar Road Km.16/280 to 44/00 District Vadodara in Gujarat State.

**1. Details of degraded land.**

Village	Ambali
Taluka	Godhra
Range	Godhra West
District	Panchmahal
Division	Godhra
Reserved Forest Survey No.	540
Areato be afforested	Model-3 (45.00 ha)
Working circle	Development & Conservation Working Circle

**2. Description of Area.**

Soil type	Black & Goradu Soil
Topography	Plain
Slope	Medium & Gentle

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

Daily / Wages-355.30

Year	Area (ha)	Rate /ha	Total Amount
0 Year 70 %	1	190830	190830
1 <sup>st</sup> Year	1	94278	94278
2 <sup>nd</sup> Year	1	59044	59044
3 <sup>rd</sup> Year	1	48139	48139
4 <sup>th</sup> Year	1	16551	16551
5 <sup>th</sup> Year	1	8810	8810
6 <sup>th</sup> Year	1	10068	10068
7 <sup>th</sup> Year	1	10481	10481
8 <sup>th</sup> Year	1	10967	10967
9 <sup>th</sup> Year	1	11173	11173
10 <sup>th</sup> Year	1	11323	11323
<b>Total</b>	<b>1</b>	<b>471664</b>	<b>471664</b>
Supervision Charge 20 %	1	94333	94333
<b>Total</b>	<b>1</b>	<b>565997</b>	<b>565997</b>

Say

5,66,000/-

Compensatory Afforestation will be done in 45.00 ha. Area. The total afforestation cost will be Rs. 2,54,70,000/-

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 45 ha. Area. The total afforestation cost will be about <b>Rs. 2,54,70,000/-</b> Executive Engineer, R & B 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:

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 355.30 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.)	<table><tr><td>Holoptelea</td><td>300</td></tr><tr><td>Teak</td><td>100</td></tr><tr><td>Custard Apple</td><td>100</td></tr><tr><td>Cassia fistula</td><td>55</td></tr><tr><td>Bamboo</td><td>350</td></tr><tr><td>Arjun sadad &amp; Karamda</td><td>28</td></tr><tr><td>Vad,Pipal ,Khati ambali , kuvad, Amla</td><td>100</td></tr><tr><td>Limado,kothi,kadayo,Bili etc.</td><td>78</td></tr><tr><td>Total</td><td>1111</td></tr></table>	Holoptelea	300	Teak	100	Custard Apple	100	Cassia fistula	55	Bamboo	350	Arjun sadad & Karamda	28	Vad,Pipal ,Khati ambali , kuvad, Amla	100	Limado,kothi,kadayo,Bili etc.	78	Total	1111
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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 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 along the contour line. the dug out soil will be heaped on the down ward side. Gully plugging &amp; 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.</p> <p>(iii) Van Talavadi/ Percolation tank</p>																		


h	Protection Trench	Barbed wire fencing, Seed sowing And planting of cuttings of Ipomea/ Glarcidia along the fence
i	Silvicultural Operations	1 <sup>st</sup> year three weeding soil working, Support watering will be provided if needed. 2 <sup>nd</sup> year two weeding soil working. 3 <sup>rd</sup> 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 November 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 <sup>th</sup> 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.

Date:- 8/12/2022  
Place:- Godhra

  
(M.L.Meena)  
Deputy Conservator of Forest  
Godhra

The Compensatory Afforestation scheme at the cost of Rs. 2,54,70,000/- is technically and administrative approved by the undersigned.

Date:- 8/12/2022  
Place:- Godhra

  
(M.L.Meena)  
Deputy Conservator of Forest  
Godhra



## Compensatory Afforestation Scheme for Forest land Under FCA Proposal

Details scheme of compensatory afforestation for Diversion of 22.176 Ha Protected Forest land for the Protected Forest for lining of Vadodara-Padara-Jambusar Road Km.16/280 to 44/00 District Vadodara in Gujarat State.

Spacemts = 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: 355.30/Day

	Item of work	Qty.	Labour	Material	Totals
<b>0 year Nursery</b>					
(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 (20%)	222	1589	419	2008
	<b>Total</b>		<b>8205</b>	<b>2883</b>	<b>11088</b>
<b>2. Area Development ( Land Preparation )</b>					
(a)	Survey, cutback and promotion of root suckers		3777	0	3777
	Alignment and digging of pits 0.45 X 0.45 X 0.45	1111@8.84	10531	0	10531
	<b>Total</b>		<b>14308</b>	<b>0</b>	<b>14308</b>
(a)	Fertilizer (Neem cake/ Castor cake)/Vermicompost etc.	1111@10	0	11110	11110
	<b>Total</b>		<b>0</b>	<b>11110</b>	<b>11110</b>
<b>3. SMC Works</b>					
(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.		11977	0	11977
	<b>Total</b>		<b>36819</b>	<b>23535</b>	<b>60354</b>
<b>4. Protection</b>					
(a)	Barbed wire fencing (205 rmt/ Ha. , Rs. 450/- per Rmt) or Protection Trench	L.S	12250	80000	92250
(b)	Seed sowing and planting of cuttings of Ipomea/ Glaricidia along the fence		1247	473	1720
	<b>Total</b>		<b>13497</b>	<b>80473</b>	<b>93970</b>
	<b>Total for 0 year</b>		<b>72829</b>	<b>118001</b>	<b>190830</b>
<b>1st Year</b>					
(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 replacement, transport & Digging of Pit and then plantation (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	1206	1206
	<b>Total for 1st year</b>		<b>70673</b>	<b>23605</b>	<b>94278</b>



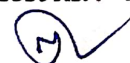
<b>2nd Year</b>					
(a)	2 weeding & soil working		14223	0	14223
(b)	20 % Casually replcement, transport & Digging of Pit and then plantaion (Casuality Replacement)	111+111	382	1320	1702
(c)	Fertilizer (Neem cake/ Castor cake)/Vermicompost etc.	Rs. 10/plants	0	13560	13560
(d)	Support watering 3 times @ 5.30		10528	13351	23879
(e)	Protection / tending operation		5680	0	5680
<b>Total for 2nd Year</b>			<b>30813</b>	<b>28231</b>	<b>59044</b>
<b>3rd Year</b>					
(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
<b>Total for 3rd year</b>			<b>29367</b>	<b>18772</b>	<b>48139</b>
<b>4thYear</b>					
(a)	1 weeding & soilworking	L.S	5896	0	5896
(b)	Protection & Maintenance of fencing/ Tending operation		10655	0	10655
<b>Total for 4th Year</b>			<b>16551</b>	<b>0</b>	<b>16551</b>
<b>5thYear</b>					
	Protection & maintenance of fencing/ tending operation	L.S	8810	0	8810
<b>Total for 5th Year</b>			<b>8810</b>	<b>0</b>	<b>8810</b>
<b>6thYear</b>					
	Protection & maintenance of fencing/ tending operation	L.S	10068	0	10068
<b>Total for 6th Year</b>			<b>10068</b>	<b>0</b>	<b>10068</b>
<b>7 th Year</b>					
	Protection & maintenance of fencing/ tending operation	L.S	10481	0	10481
<b>Total for 7th Year</b>			<b>10481</b>	<b>0</b>	<b>10481</b>
<b>8 th Year</b>					
	Protection & maintenance of fencing/ tending operation	L.S	10967	0	10967
<b>Total for 8th Year</b>			<b>10967</b>	<b>0</b>	<b>10967</b>
<b>9 th Year</b>					
	Protection & maintenance of fencing/ tending operation	L.S	11173	0	11173
<b>Total for 9th Year</b>			<b>11173</b>	<b>0</b>	<b>11173</b>
<b>10 th Year</b>					
	Protection & maintenance of fencing/ tending operation	L.S	11323	0	11323
<b>Total for 10th Year</b>			<b>11323</b>	<b>0</b>	<b>11323</b>
<b>Grand Total</b>			<b>283055</b>	<b>188609</b>	<b>471664</b>
The Cost of Supervision/Subsequential Silvicultural operations		20%	<b>56611</b>	<b>37722</b>	<b>94333</b>
			<b>339666</b>	<b>226331</b>	<b>565997</b>

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 45.00 HA. Area**

**Cost Rs. : 5,66,000/-**  
**Total Cost Rs. : 2,54,70,000/-**



**(M.L.Meena)**  
**Deputy Conservator of Forests,**  
**Godhra**



**Land Suitability Certificate**

This is to certify that I have visited 70.00 ha. Area of Ambali Village, Reserved Forest Survey No.540, Taluka: Godhra, District: Panchmahal on Date:08/12/2022. Which has been identified for compensatory afforestation as shown in the location map attached with the Compensatory Afforestation Scheme against the proposal for diversion of 22.176 ha. of Reserved forest land and the said area is suitable for compensatory afforestation. It is also certified that the compensatory afforestation scheme suggested is not under encroachment hence we have complete area of 45.00 Ha for afforestation work.

Date : 08/12/2022

Place : Godhra



**(M.L.Meena)**  
**Deputy Conservator of Forest**  
**Godhra**

Details scheme of compensatory afforestation for Diversion of 22.176 Ha Protected Forest land for the Protected Forest for lining of Vadodara-Padara-Jambusar Road Km.16/280 to 44/00 District Vadodara in Gujarat State.

Information of Compensatory Afforestation area GPS Point  
Godhra Forest Division

Sr. No.	Name of Village	Compensatory Afforestation area in ha.	Compensatory Afforestation S.No.	GPS Point	
1	Ambali Ta. Godhra District Panchmahal	45.00	540	1	22°44'18.92"N 73°34'4.17"E
				2	22°44'19.22"N 73°34'15.23"E
				3	22°44'19.45"N 73°34'24.17"E
				4	22°44'19.64"N 73°34'31.47"E
				5	22°44'14.59"N 73°34'31.54"E
				6	22°44'10.83"N 73°34'31.60"E
				7	22°44'5.66"N 73°34'31.67"E
				8	22°44'0.62"N 73°34'31.73"E
				9	22°43'56.68"N 73°34'30.37"E
				10	22°43'56.48"N 73°34'24.68"E
				11	22°43'57.65"N 73°34'18.62"E
				12	22°44'1.45"N 73°34'14.85"E
				13	22°44'2.77"N 73°34'9.13"E
				14	22°44'4.54"N 73°34'6.65"E
				15	22°44'8.24"N 73°34'6.02"E
				16	22°44'11.35"N 73°34'4.31"E
				17	22°44'14.28"N 73°34'4.52"E



(M.L. Meena)

Deputy Conservator of Forests  
Godhra

DETAILS SCHEME OF DIVERSION OF 22.176 HA PROTECTED FOREST LAND FOR THE PROTECTED FOREST FOR LINING OF VADODARA-PADARA-JAMBUSAR ROAD KM.16/280 TO 44/00 DISTRICT VADODARA IN GUJARAT STATE.  
 VILLAGE : Ambali, Reserved Forest Survey No. 540 , COMPENSATORY AFFORESTATION AREA :45.00 HA

RANGE : Godhra (W), TALUKA : Godhra, DIVISION : GODHRA, DIST : PANCHMAHAL,

WORKING CIRCLE : Development & Conservation working Circle, F.S No-II PT, COUPE NO- 16 & 17 PT.



Trd. By. *[Signature]*  
 (D.R.Patel)  
 Range Forest Officer  
 (Survey) Godhra

(M.L.Meena)  
 Deputy Conservator Of Forest  
 Godhra

SCALE : 1 CM = 79.20 MT.