

**Annexure-XIX****Compensatory Afforestation Scheme for Non- Forest land Under FCA Proposal**

Details Scheme of Compensatory Afforestation for Diversion of 3.2512 Ha Reserved forest land for the Proposal of construction of Karjan right bank high level recharge canal in village -jitgadh, Ta- nandod District - Narmada, Gujarat State

**1. Details of degraded land.**

Village	Kali Makvana
Taluka	Garudeswar
Range	
District	Narmada
Division	Kevadiya
Sur No..	530 & 533 pt
Area to be afforested	3.26 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-Rs.340.20

Year	Area (ha)	Rate /ha	Total Amount
0 Year 70 %	3.26	176699	576039
1 st Year	2	86389	281628
2 nd Year	2	58070	189308
3 rd Year	2	46310	150971
4 th Year	2	16028	52251
5 th Year	2	8532	27814
6 th Year	2	9750	31785
7 th Year	2	10150	33089
8 th Year	2	10620	34621
9 th Year	2	10820	35273
10 th Year	2	10965	35746
Total	2	444333	1448526
Supervision Charge 20 %	2	88867	289706
Total	2	533200	1738231

Say

17,38,200/-

Compensatory Afforestation will be done in 3.26 ha. Area. The total afforestation cost will be Rs.17,38,200/-

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

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


(i)	The Compensatory Afforestation on degraded area would be started by Dy.Conservator of Forest Kevadiya Division as early as possible after the proposal is formally approved.
(ii)	Compensatory Afforestation will be done in 2 ha. Area. The total afforestation cost will be about <b>Rs.17,38,200/-</b> Executive Engineer Irrigation Project Division No.4 Rajpipla 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	Spacement	3 X 3 mtr., 1100 plants per ha.																											
c	Species to be planted (No. of plants per ha.)	<table> <tr> <td>Holoptelea</td><td>344</td><td>65 cm</td></tr> <tr> <td>Teak</td><td>385</td><td>Stump of minimum 6 cm Girth</td></tr> <tr> <td>Custard Apple</td><td>166</td><td>50 cm</td></tr> <tr> <td>Cassia fistula</td><td>55</td><td>50 cm</td></tr> <tr> <td>Bamboo</td><td>50</td><td>50 cm</td></tr> <tr> <td>kuvad</td><td>6</td><td>50 cm</td></tr> <tr> <td>Vad,Pipal ,Khatiambali ,Arjun sadad</td><td>55</td><td>65 cm</td></tr> <tr> <td>Limado,kothi,kadayo,Bili etc...</td><td>50</td><td>50 cm</td></tr> <tr> <td><b>Total</b></td><td><b>1111</b></td><td></td></tr> </table>	Holoptelea	344	65 cm	Teak	385	Stump of minimum 6 cm Girth	Custard Apple	166	50 cm	Cassia fistula	55	50 cm	Bamboo	50	50 cm	kuvad	6	50 cm	Vad,Pipal ,Khatiambali ,Arjun sadad	55	65 cm	Limado,kothi,kadayo,Bili etc...	50	50 cm	<b>Total</b>	<b>1111</b>	
Holoptelea	344	65 cm																											
Teak	385	Stump of minimum 6 cm Girth																											
Custard Apple	166	50 cm																											
Cassia fistula	55	50 cm																											
Bamboo	50	50 cm																											
kuvad	6	50 cm																											
Vad,Pipal ,Khatiambali ,Arjun sadad	55	65 cm																											
Limado,kothi,kadayo,Bili etc...	50	50 cm																											
<b>Total</b>	<b>1111</b>																												
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 along the contour line. the dug out soil will be heaped on the down ward side. Gully plugging &amp; Nala Banding using The loose</p>																											

		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 <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 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 <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.

  
 Deputy Conservator of Forest  
 Kevadiya

The Compensatory Afforestation scheme at the cost of **Rs. 17,38,200/-** is technically and administrative approved by the undersigned.

  
 Deputy Conservator of Forest  
 Kevadiya



## Compensatory Afforestation Scheme for Non- Forest land Under FCA Proposal

Details Scheme of Compensatory Afforestation for Diversion of 3.2512 Ha Reserved forest land for the Proposal of construction of Karjan right bank high level recharge canal in village -jitnagadh, Ta- nandod District - Narmada, Gujarat State

Spacements = 3mx3m

1111 seedling / ha

1st year replacement 10 % = 111 seedling / ha

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

3rd year replacement 10 % = 111 seedling / ha

Total Seedlings = 1333 seedling / ha

Polypot size : 15 cm X 25 cm X 200

Wage rate: 340.20/Day

Plau ground		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, sowing of seeds, watering, shifting, weeding etc.	1222	4868	230	5098
	Seedling cost for casualty replacement in one year old (20 %)	222	1538	419	1957
	Seedling cost for casualty replacement in two year old (10%)	111	770	209	979
	<b>Total</b>		<b>7177</b>	<b>2673</b>	<b>9850</b>
<b>2. Area Development ( Land Preparation )</b>					
(a)	Survey, cutback and promotion of root suckers		3657	0	3657
	Alignment and digging of pits 0.45 X 0.45 X 0.45	1111@8.84	10199	0	10199
	<b>Total</b>		<b>13856</b>	<b>0</b>	<b>13856</b>
(a)	Natural Fertilizer (Neem cake/ Castor cake)	1111@10	0	11110	11110
	<b>Total</b>		<b>0</b>	<b>11110</b>	<b>11110</b>
<b>3. SMC Works</b>					
			0		
(a)	Check wall/ retaining wall /checkdam (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
	<b>Total</b>		<b>34329</b>	<b>23535</b>	<b>57380</b>
<b>4. Protection</b>					
(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
	<b>Total</b>		<b>8547</b>	<b>75473</b>	<b>83681</b>
	<b>Total for 0 year</b>		<b>63908</b>	<b>112791</b>	<b>176699</b>
<b>1st Year</b>					
(a)	Maintenance of nursery (April to June)	1222	4460	340	4800
(b)	Transport of seedling for plantation	1111	2370	200	2570
(c)	Planting with khamna of Min. 1 m dia	1111	6985	0	6985
(d)	Transport & planting of seedling for casualty replacement	111	420	44	464
(e)	3 weeding cum soilworking	1111	25638	0	25638
(f)	Support watering 5 times @5.30		17560	20539	38099
(g)	Protection / tending operation		5370	0	5370
(h)	Tending to natural vegetation		1305	0	1305
(i)	Contingency		0	1158	1158
	<b>Total for 1st year</b>		<b>64108</b>	<b>22281</b>	<b>86389</b>

<b>2nd Year</b>					
(a)	2 weeding & soil working				
(b)	20 % Casually replacement, transport and Planting		13774	0	13774
(c)	Natural fertilizer (neem cake / caster cake ) etc	111+111	370	1320	1690
(d)	Support watering 3 times @ 5.30	Rs. 10/plants	0	13560	13560
(e)	Protection / tending operation		10194	13351	23545
			5501	0	5501
<b>Total for 2nd Year</b>			<b>29839</b>	<b>28231</b>	<b>58070</b>
<b>3rd Year</b>					
(a)	2 weeding & soil working		13774	0	13774
(b)	10 % Casually Replcement, transport and	111	244	555	799
(b)	Planting, Natural fertilizer, neem cake etc.	Rs. 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	10318.28069
<b>Total for 3rd year</b>			<b>28303</b>	<b>18007</b>	<b>46310</b>
<b>4th Year</b>					
(a)	1 weeding & soilworking				
(h)	Protection & Maintenance of fencing/ Tending operation	L.S	5710	0	5710
			10318	0	10318
<b>Total for 4th Year</b>			<b>16028</b>	<b>0</b>	<b>16028</b>
<b>5th Year</b>					
	Protection & maintenance of fencing/ tending operation	L.S	8532	0	8532
<b>Total for 5th Year</b>			<b>8532</b>	<b>0</b>	<b>8532</b>
<b>6th Year</b>					
	Protection & maintenance of fencing/ tending operation	L.S	9750	0	9750
<b>Total for 6th Year</b>			<b>9750</b>	<b>0</b>	<b>9750</b>
<b>7 th Year</b>					
	Protection & maintenance of fencing/ tending operation	L.S	10150	0	10150
<b>Total for 7th Year</b>			<b>10150</b>	<b>0</b>	<b>10150</b>
<b>8 th Year</b>					
	Protection & maintenance of fencing/ tending operation	L.S	10620	0	10620
<b>Total for 8th Year</b>			<b>10620</b>	<b>0</b>	<b>10620</b>
<b>9 th Year</b>					
	Protection & maintenance of fencing/ tending operation	L.S	10820	0	10820
<b>Total for 9th Year</b>			<b>10820</b>	<b>0</b>	<b>10820</b>
<b>10 th Year</b>					
	Protection & maintenance of fencing/ tending operation	L.S	10965	0	10965
<b>Total for 10th Year</b>			<b>10965</b>	<b>0</b>	<b>10965</b>
<b>Grand Total</b>			<b>263023</b>	<b>181310</b>	<b>444333</b>
The Cost of Supervision/Subsequential Silvicultural operations		20%	52605	36262	88867
			<b>315628</b>	<b>217572</b>	<b>533200</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 3.26 Ha Area

Total Cost Rs. : 17,38,231

  
 Deputy Conservator of Forests,  
 Kevadiya