

**Compensatory Afforestation Scheme for Non Forest Area  
acquired under FCA proposal**

Diversion of **2.0021** ha. RF land for Widening and strengthening two lane to four lane Danta-Ambaji road (SH-56) km. 97.00 to 97.480 and km. 101.400 to 102.25 Total Length 1.405 km.

Detailed scheme of Compensatory Afforestation for Non Forest Area acquired under FCA proposal **2.0021** ha. to be carried out in lieu of 2.0021 ha. of Reserved forest land to be diverted in Banaskantha district

**1. Details of degraded land.**

Village	Virpur (Lotol)
Taluka	Danta
Range	Danta-East
District	Banaskantha
Division	Banaskantha
Block/ Patal, Compartment No., Survey No	New 52/ pt (Old 21 pt)
Area to be afforested	2.0021 Ha.
Working circle	-

**2. Description of Area.**

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

**3. Name of Plantation Programme:-**

Compensatory Afforestation Scheme for Non Forest Area acquired under FCA proposal.

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

(i)	The Compensatory Afforestation on Non Forest Area acquired under FCA proposal would be started by Dy.Conservator of Forest Banaskantha Division as early as possible after the proposal is formally approved.
(ii)	Compensatory Afforestation will be done in 2.0021 ha. area. The total afforestation cost will be about <b>Rs.8,61,157/-</b> Executive Engineer, Road & Building Division(state),Palanpur,Banaskantha 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 degraded area. The prevailing wage rates 310.40 per day.			
b	Spacement	3 X 3 mtr., 1111 plants per ha.			
c	Species to be planted (No. of plants per ha.)	Speaces	Number of Tree	Minimum planting height (in cm.)	Minimum planting collar growth (in cm.)
		Khair	25	65	Minimum planting collar growth 1c.m. diameter at the time of planting.
		Kanji	250	75	
		Boradi	150	65	
		Salai	25	75	
		Gunda	25	75	
		Bael	50	50	
		Bamboo	100	65	
		Ardusa	100	90	
		Ragat Royado	25	50	
		Garmalo	200	65	
		Khakhro (Butea monosperma), Dudh kudi (Wrightia), Aval (Cassia auriculata)	161	50	
		<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	(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 & percolation tank 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.			
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	<p>(i) A plantation register is to be maintained.</p> <p>(ii) Monitoring is to be done as per the following norms. Forester – 100% RFO – 100% ACF – 20% DCF – 10%</p> <p>(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.</p> <p>(iv) The collar girth is also to be reordered at the end of each year.</p> <p>(v) At the end of maintenance period, the area is aimed at full stocking and pole crop girth for all the species, except bamboo.</p> <p>(vi) Bamboo would be of the harvestable size by the end of 4<sup>th</sup> year.</p> <p>(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.</p>
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.



(R.L. Jalandhara)  
Dy. Conservator of Forest  
Banaskantha, Palanpur

The Compensatory Afforestation scheme at the cost of **Rs. 8,61,157/-** is technically and administrative approved by the undersigned.



(R.L. Jalandhara)  
Dy. Conservator of Forest  
Banaskantha, Palanpur



## Model No - 3

### Compensatory Afforestation Scheme for Dubble dgraded area

Daily wages Rs.310.40

Spacements = 3 m x 3 m				
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				
Item of work	Qty.	Labour	Material	Total
1	2	3	4	5
<b>0 year</b>				
Nursery				
(a) Cost of soil, ,manure, seeds, water, fartillizer, insecticides, implements, rent of lands. Shade, etc. (including 10 % for casuality replacement)	1222	0	1830	1830
(b) labour : Preparation of beds, filling and arranging of bags,showing of seeds, watering shifting, weeding etc.	1222	4478	232	4710
(c ) Seedling cost for casuality replacement in one year old (20%)	222	1415	422	1837
(d) Seedling cost for casuality replacement in two year old (10%)	111	708	210	918
<b>Total</b>		<b>6601</b>	<b>2694</b>	<b>9295</b>
<b>2. Area Development ( Land Preparation )</b>				
(a) Survey, cutback and promotion of root suckers		3365	0	3365
(b) Aligment and digging of pits 0.45 X 0.45 X 0.45	1111 @ 6.00	9715	0	9715
<b>Total</b>		<b>13080</b>	<b>0</b>	<b>13080</b>
(a) Natural fertilizer (Neem cake/ Castor cake)	1111 @ 5.00	0	9910	9910
<b>Total</b>		<b>0</b>	<b>9910</b>	<b>9910</b>
<b>3. SMC Works</b>				
(a) Check wall/ retaining wall /checkdem (all pucca only)	L.S.	11953	23726	35679
(b) Contour trench 2 M x 45 Cm x 30 Cm as per Rs.17.00/rmt (300 trench)	600 rmt.	9098	0	9098
<b>Total</b>		<b>21051</b>	<b>23726</b>	<b>44777</b>
<b>4. Protection</b>				
(a) Barbed wire fencing	L.S.	3567	35679	39246
(b) Seed sowing and planting of cuttings of Ipomea/ Glaricidia along the fence		1110	476	1586
<b>Total</b>		<b>4677</b>	<b>36155</b>	<b>40832</b>
<b>Total for 0 year</b>		<b>45409</b>	<b>72485</b>	<b>117894</b>
<b>1st Year</b>				
(a) Maintenance of nursery (April to June)	1222	3434	343	3777
(b) Transport of seedling for plantation	1111	1884	389	2273
(c) Planting with khamna of Min 1 m dia	1111	5792	0	5792
(d)Transport & planting of seediling for casuality replacement	111	202	44	246
(e) 3 weeding cum soil working	1111	22574	0	22574
(f) Support watering 5 times @ 3.25		14430	20706	35136
(g) Protection / tending operation		4670	0	4670
(h) Tending to natural vegetation		1168	0	1168
(i) Contingency		0	1168	1168
<b>Total for 1st year</b>		<b>54154</b>	<b>22650</b>	<b>76804</b>



Item of work	Qty.	Labour	Material	Total
<b>2nd Year</b>				
(a) 2 weeding & soil working		12537	0	12537
(b) 20 % Casually replcement, transport and planting	111+111	211	1050	1261
(c) Natural fertilizer (neem cake / caster cake ) etc.	Rs.5/ plant	0	11712	11712
(d ) Support watering 3 times @ 3.25		9377	13459	22836
(e) Protection / tending operation		5060	0	5060
<b>Total for 2nd year</b>		<b>27185</b>	<b>26221</b>	<b>53406</b>
<b>3rd Year</b>				
(a) 2 weeding & soil working		13502	0	13502
(b) 10 % Casually replcement, transport and planting	111	113	566	679
(b) Natural fertilizer, neem cake etc.	Rs.5/ plant	0	12613	12613
(c ) Support watering 1 times @ 3.25		3367	4831	8198
(d) Protection & maintenance of fencing / tending operation	L.S.	6811	0	6811
<b>Total for 3rd year</b>		<b>23793</b>	<b>18010</b>	<b>41803</b>
<b>4thYear</b>				
(a) 1 weeding & soil working		7232	0	7232
(b) Protection & Maintenance of fencing/ Tending operation	L.S.	7298	0	7298
<b>Total for 4th year</b>		<b>14530</b>	<b>0</b>	<b>14530</b>
<b>5thYear</b>				
Protection & maintenance of fencing/ tending operation	L.S.	7784	0	7784
<b>Total for 5th year</b>		<b>7784</b>	<b>0</b>	<b>7784</b>
<b>6thYear</b>				
Protection & maintenance of fencing/ tending operation	L.S.	8271	0	8271
<b>Total for 6th year</b>		<b>8271</b>	<b>0</b>	<b>8271</b>
<b>7thYear</b>				
Protection & maintenance of fencing/ tending operation	L.S.	8757	0	8757
<b>Total for 7th year</b>		<b>8757</b>	<b>0</b>	<b>8757</b>
<b>8thYear</b>				
Protection & maintenance of fencing/ tending operation	L.S.	9244	0	9244
<b>Total for 8th year</b>		<b>9244</b>	<b>0</b>	<b>9244</b>
<b>9thYear</b>				
Protection & maintenance of fencing/ tending operation	L.S.	9730	0	9730
<b>Total for 9th year</b>		<b>9730</b>	<b>0</b>	<b>9730</b>
<b>10thYear</b>				
Protection & maintenance of fencing/ tending operation	L.S.	10217	0	10217
<b>Total for 10th year</b>		<b>10217</b>	<b>0</b>	<b>10217</b>
<b>SubTotal</b>		<b>219074</b>	<b>139366</b>	<b>358440</b>
<b>Total cost of supervision/subsequentalsilvicultureal operations</b>	20%	43815	27873	71688
<b>Grand Total</b>		<b>262889</b>	<b>167239</b>	<b>430128</b>

Note :-

- (1) Seed sowing along fencing towards the inner side.
- (2) Planting of cutting of ipomea//Glaricidia along the fencing towards outer side



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Model-3-1111 Final @310.40 (2)



# Rate Structure for Compensatory Afforestation Scheme

Daily Wages : Rs. 310.40

Model-3 1111 Pt/Ha.

Sr. No	Rate	Hactor	0 Year	1st Year	2nd Year	3rd Year	4th Year	5th Year	6th Year	7th Year	8th Year	9th Year	10th Year	Total	20% Add	Grand Total
1	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
A	Normal Rate par 1.00 Ha.	1.00	107177	64004	41081	29859	9686	4865	4865	4865	4865	4865	4865	280997	56199	337196
B	Increased Rate par 1.00 Ha. by 10% Year	1.00	117894	76804	53406	41803	14530	7784	8271	8757	9244	9730	10217	358440	71688	430128
A	Normal Rate	2.0021	214579	128142	82248	59781	19392	9740	9740	9740	9740	9740	9740	562582	112516	675098
B	Increased by 10% Year	2.0021	236036	153769	106924	83694	29091	15584	16559	17532	18507	19480	20455	717631	143526	861157
														Total Cost Rs.		861157

<b>NB:(1)</b>	For Different Years the rate shown for B has been derived from A as Follows.
0 Year-B=A +10% of A	6 Year-B=A +70% of A
1 Year-B=A +20% of A	7 Year-B=A +80% of A
2 Year-B=A +30% of A	8 Year-B=A +90% of A
3 Year-B=A +40% of A	9 Year-B=A +100% of A
4 Year-B=A +50% of A	10 Year-B=A +110% of A
5 Year-B=A +60% of A	
<b>NB:(2)-</b>	In column 17 the additional 20% is towards the cost of supervision/subsequent silvicultural operations

  
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Name of works	Model No.	Area	Rate per	Amount												Total Rs.	
				0 Year	1st Year	2nd Year	3rd Year	4th Year	5th Year	6th Year	7th Year	8th Year	9th Year	10th Year	20%		
0 Year 70 % Adv.work. 1st Year Operation.	Model-3	2.0021	117894	236036	0	0	0	0	0	0	0	0	0	0	0	47207	283243
1st Year 30 % Advance work Current year plantation			76804	0	153769	0	0	0	0	0	0	0	0	0	0	30754	184523
2nd Year operation Maintenance of one year old plantation.			53406	0	0	106924	0	0	0	0	0	0	0	0	0	21385	128309
3rd Year operation Maintenance of 2 years old plantation.			41803	0	0	0	83694	0	0	0	0	0	0	0	0	16739	100433
4th year operation Maint.of 3 years old plantation.			14530	0	0	0	0	29091	0	0	0	0	0	0	0	5818	34909
5th year operation Maint.of 4 years old plantation.			7784	0	0	0	0	0	15584	0	0	0	0	0	0	3117	18701
6th year operation Maint.of 5 years old plantation.			8271	0	0	0	0	0	0	16559	0	0	0	0	0	3312	19871
7th year operation Maint.of 6 years old plantation.			8757	0	0	0	0	0	0	0	17532	0	0	0	0	3506	21038
8th year operation Maint.of 7 years old plantation.			9244	0	0	0	0	0	0	0	0	18507	0	0	0	3701	22208
9th year operation Maint.of 8 years old plantation.			9730	0	0	0	0	0	0	0	0	0	19480	0	0	3896	23376
10th year operation Maint.of 9 years old plantation.			10217	0	0	0	0	0	0	0	0	0	0	20455	4091	24546	
Total			358440	236036	153769	106924	83694	29091	15584	16559	17532	18507	19480	20455	143526	861157	

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