## Compensatory Afforestation Scheme for double degraded forest area

Diversion of 22.6756 Ha Protected Forest land of road side for widening and strengthening up to Four lanning of Kheda-Dholka Road Km.36/600 to 53/200 in Kheda District, Gujarat State.

Details scheme of Compensatory Afforestation to be carried out in lieu of 22.6756 Ha Protected Forest land of road side for widening and strengthening up to Four lanning of Kheda-Dholka Road Km.36/600 to 53/200 in Kheda District, Gujarat State.

### 1 Details of degraded land.

Village	Vansiya	
Taluka	Godhra	
Range	Godhra East	
District	Panchmahal	
Division	Godhra	
Reserved Forest Survey No	30 & 94 to 100	
Area to be afforested	46.00	
Working circle	Production	

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

3. Name of Plantation Programme:-

Compensatory Afforestation Scheme for Degraded Area.

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

Daily / Wages-Rs.310.40

	· · · · · · · · · · · · · · · · · · ·	Daily / Wages Tails To the			
Year	Area (ha)	Rate /ha	Total Amount		
0 Year 70 %	1.00	127894	127894		
1 st Year	1.00	76807	76807		
2 <sup>nd</sup> Year	1.00	53536	53536		
3 <sup>rd</sup> Year	1.00	43830	43830		
4 th Year	1.00	14682	14682		
5 th Year	1.00	7785	· 7785		
6 th Year	1.00	8271	8271		
7 th Year	1.00	8758	8758		
8 th Year	1.00	9243	9243		
9 th Year	1.00	9730	9730		
10 th Year	1.00	10217	10217		
Total	1.00	370753	370753		
Supervision Charge 20 %		74151	74151		
Total	1.00	444904	444904		
20		4.44.904/-			

4,44,904/-Say

Compensatory Afforestation will be done in 4.00 ha. Area. The total afforestation cost will be Rs.2,04,65,584/-

#### 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 46.00 ha. Area. The total afforestation cost will be about Rs.2,04,65,584/- Executive Engineer, R&B Division, Nadiad 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.	Details	Specifications				
No.						
a	General Details	The C.A. will be taken under Compensatory Afforestation for double land on degraded Forest Areas. The prevailing wage rate is 310.40 per day.				
b	Spacement	3 X 3 mtr., 1111 plants per ha.		_ *		
С	Species to be planted (No. of plants per ha.)	Holoptelea	333	Minimum planting		
	C. F	Teak	388	height will be 100 cm.		
	2	Custard Apple	166	at the time of		
		Cassia fistula	55	planting. However it		
		Bamboo	55	will vary for different		
		kuvad	6	species.		
		Vad,Pipal ,Khati ambali ,Arjun sadad	55			
	-	Limado,kothi,kadayo,Bili etc	53			
		Total	1111	1		
d	Nursery Technique	Nine months old polypot raised plants will be planted at the onset of monsoon.				
	Site Preparation	The malformed rootstock present in the	area will	he cuthack & the site will		
е	Site I reparation	be cleaned in the month of Nov-Dec.				
		45 cms. will be carried out in the month	_			
f	Plantation Method	Polypot raised plants will be planted du				
g	Soil & Moisture	(xiii) Pucca structure like Check dan	A CONTRACTOR OF THE PARTY OF TH			
٦	Conservation Works	(xiv) Contour trenches 2.00 x 0.45 x 0.30, 300 Nos/ha. will be dug along				
	*	the contour line. the dug out so				
	* 1	side. Gully plugging & Nala				
		available in the area will be carried out as per requirement. Seeds				
		of Jatropha, Agave plantsetc. will be planted during monsoon				
e.		in the upper side of nala as per suitability.				
		(xv) 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	1styear 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 silvicualtural	Cleaning, cutbacks, thinning etc. (as per species specific requirement) will
	Operation	be carried out at the age as per prescribed in the working plan.
1	Proposed monitoring	(xxix) A plantation register is to be maintained.
	mechanism	(xxx) Monitoring is to be done as per the following norms.
		Forester – 100%
	s .	RFO - 100%
	·	ACF - 20% DCF - 10%
		DCF - 10% (xxxi) The results of survival etc. are maintained in the plantation register
	29	
		on a periodical basis, which is updated at the end of September and
		March each year.
		(xxxii) The collar girth is also to be reordered at the end of each year.
	T T	(xxxiii)At the end of maintenance period, the area is aimed at full stocking
	2	and pole crop girth for all the species, except bamboo.
	u	(xxxiv)Bamboo would be of the harvestable size by the end of 4th year.
		(xxxv) 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	Only afforestation aimed plantation will be taken up, as the area falls
"	activities	under degraded forest land.

(G.S Singh)
Deputy Conservator of Forest
Godhra

The Compensatory Afforestation scheme at the cost of Rs.2,04,65,584/- is technically and administrative approved by the undersigned.

(G.S Singh)
Deputy Conservator of Forest
Godhra

# Compensatory Afforestration Scheme for double degraded area Under FCA Proposal

Diversion of 22.6756 Ha Protected Forest land of road side for widening and strengthening up to Four lanning of Kheda-Dholka Road Km.36/600 to 53/200 in Kheda District, Gujarat State.

Spacements = 3mx3m
1111 seedling / ha
1st year replacement 10 % = 111 seedling / ha
2nd year replacemenl 20 % = 111+111 seedling / ha
3rd year replacemenl 10 % = 111 seedling / ha
Total Seedlings = 1333 seedling / ha

Olynot size: 15 cm X 25 cm X 200 Wage rate: 310.40/Day

olvr	oot size: 15 cm X 25 cm X 200		Wage rate: 310.40/D		
1	Item of Work	Qty.	Labour	Material	IUtais
yea	r Nursery				
2) [	Cost of soil, manure, seeds, water, fartillizer, insecticides,				
	implements, rent of lands. Shade. etc. (including '10 % for	1222	0	1815	1815
1	casuality replacement)	1222		1010	
	labour: Preparation of beds, filling and arranging of	4000	4442	230	4672
b)	bags, showing of seeds, watering shifting, weeding etc.	1222	4442	230	
-	Seedling cost for casuality replacement in one year old (20 %)	222	1404	419	1823
	Seedling cost for casuality replacement in two year old (10%)	111	703		
$\dashv$	Total		6549	2673	9222
2 4	ea Development ( Land Preparation )	•	8		2005
	Survey, cutback and promotion of root suckers		3337		
(a)	Aligment and digging of pits 0.45 X 0.45 X 0.45	.1111@8.68	9305		
	Total		12642		12642
	The state of the s	1111@10		1111	11110
(a)	Natural Fertilizer (Neem cake/ Castor cake)  Total	25.7.7.	(	1111	11110
			<u> </u>		
3. SN	AC Works				
		L.S	1185	2353	35391
(a)	Check wall/retaining wall /checkdem (all pucca only)	L.S	1103	2000	
	Contour trench 2 M x 45 Cm x 30 Cm as per Rs.51.75/rmt (300	C00	902		9024
(b)	trench)	600rmt	702	-	
	Van Talavadi/Hill Top Tank/Percolation tank/Nala		1000	o o	10000
.(c)	bund,Gully Plug etc.		1000		
` _	Total		3088	2353	31113
4. P	rotection		252	9 3539	1 38930
(a)	Barbed wire fencing	L.S	353	9 3339	30730
(-)	Seed sowing and planting of cuttings of lpomea/ Glaricidia				3 1575
(b)	along the fence		110		
(0)	Total		464		
	Total for 0 year		5471	2 7318	2 127894
let \	/ear				2545
	Maintenance of nursery (April toJune)	1222	340		
(a)	Transport of seedling for plantation	1111	170	0 20	
(b)	Planting with khamna of Min. 1 m dia	1111	574	4	0 5744
.(c)	Flatining Willi Kilatinia of Film 1 in dia		T		
(q)	Transport & planting of seediling for casualty replacement	111	19		0 23392
(e)	3 weeding cum soilworking	1111	2339		
(f)	Support watering 5 times @5.30		1431		1616
	Protection / tending operation		461		0 4617
(g)	Tending to natural vegetation		115		0 1150
(h)				0 11	
(i)	Contigency Total for 1st year		5452	6 2228	7680

				.,
2nd Year				
(a) 2 weeding & soil working		12567	0	. 12567
(b) 20 % Casually replecement, transport and Planting	111+111	209	1041	1250
	Rs.			10010
.(c) Natural fertilizer (neem cake / caster cake ) etc	10/plants	0	12048	12048
(d) Support watering 3 times @ 5.30		9301	13351	22652
(e) Protection / tending operation		5019	0	5019
Total for 2nd Year		27096	26440	53536
3rd Year				107/5
(a) 2 weeding & soil working		12567	0	12567
(b) 10 % Casually Replecement, transport and	111	222	555	777
	Rs.		40000	12222
(b) Planting, Natural fertilizer, neem cake etc.	10/plants	0	13332	13332 7740
(c) Support watering 1 times @6		3620	4120	9414
(d) Protection & maintenance of fencing / tending Operation	L.S	9414		43830
Total for 3rd year		25823	18007	43630
4thYear				5268
(a) 1 weeding & soilworking	L.S	5268	0	9414
(b) Protection & Maintenance of fencing/ Tending operation		9414	0	
Total for 4th Year		14682	0	14682
5thYear				7705
Protection & maintenance of fencing/ tending operation	L.S	7785	0	7785
Total for 5th Year		7785	0	7785
6thYear				0271
Protection & maintenance of fencing/tending operation	L.S	8271	0	8271
Total for 6th Year		8271	0	8271
7 th Year				0750
Protection & maintenance of fencing/ tending operation	L.S	8758	0	8758
Total for 7th Year		8758	0	8758
8 th Year				0242
Protection & maintenance of fencing/ tending operation	L.S	9243	0	9243
Total for 8th Year		9243	0	9243
9 th Year				0.500
Protection & maintenance of fencing/ tending operation	L.S	9730	0	9730
Total for 9th Year		9730	0	9730
10 th Year				
Protection & maintenance of fencing/ tending operation	L.S	10217	0	10217
Total for 10th Year		10217	0	10217
Grand Total	и е	230843	139910	370753
The Cost of Supervision/Subsequential Silvicultural operations	20%	46169	27982	74151
		277012	167892	444904

Note:

.(1) Seed sowing along fensing 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

Total Cost Rs.: 4,44,904/-

(Dr.G.S.Singh)
Deputy Conservator of Forests,
Godhra