Compensatory Afforestation Scheme for double degraded forest area

Diversion of 6.75 Ha Protected Forest land for the work of widening and strengthening of Nadiad-Patlad Road, Km.0/00 to 9/00 (Chainage 3/00 to 9/00, SH No.89) Dist.Kheda, State of Gujarat.

Details scheme of Compensatory Afforestation to be carried out in lieu of 6.75 Ha Protected Forest land for the work of widening and strengthening of Nadiad-Patlad Road, Km.0/00 to 9/00 (Chainage 3/00 to 9/00, SH No.89) Dist.Kheda, State of Gujarat.

1. Details of degraded land.

Village	Ladpur
Taluka	Godhra
Range	Godhra East
District	Panchmahal
Division	Godhra
Reserved Forest Survey No	27
Area to be afforested	14.00
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

Year	Area (ha)	Rate /ha	Total Amount
0 Year 70 %	1.00	127894	127894
1 st Year	1.00	76807	76807
2 nd Year	1.00	53536	53536
3 rd 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

Say 4,44,904/-

Compensatory Afforestation will be done in 4.00 ha. Area. The total afforestation cost will be Rs.62,28,656/-

4. Schedule of Plantation Programme:-

- (v) 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.
- (vi) Compensatory Afforestation will be done in 14.00 ha. Area. The total afforestation cost will be about Rs.62,28,656/- 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.		Specific		*	
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 Teak Custard Apple	333 388 166	Minimum planting height will be 100 cm. at the time of	
		Cassia fistula	55	planting. However it	
		Bamboo	55	will vary for different	
		kuvad	6	species.	
	3	Vad,Pipal ,Khati ambali ,Arjun sadad	55		
		Limado,kothi,kadayo,Bili etc	53	1	
		Total	1111		
d	Nursery Technique	Nine months old polypot raised plan monsoon.	nts will be	planted at the onset of	
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	(viii) Pucca structure like Check dam, check wall, retaining wall (viii) 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 plantsetc. will be planted during monsoon
		in the upper side of nala as per suitability.
		(ix) 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
-	1	needed.
	-	2 nd year two weeding soil working.
	d.	3 rd 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	(xv) A plantation register is to be maintained.
	mechanism	 (xvi) Monitoring is to be done as per the following norms. Forester - 100% RFO - 100% ACF - 20% DCF - 10% (xvii) 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. (xviii) The collar girth is also to be reordered at the end of each year. (xix) At the end of maintenance period, the area is aimed at full stocking and pole crop girth for all the species, except bamboo. (xx) Bamboo would be of the harvestable size by the end of 4th year. (xxi) 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.62,28,656/- 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 6.75 Ha Protected Forest land for the work of widening and strengthening of Nadiad-Patlad Road, Km.0/00 to 9/00 (Chainage 3/00 to 9/00, SH No.89) Dist.Kheda, State of Gujarat.

Wage rate: 310.40/Day

5744

243

23392

34853

4612

1158

1158

76807

0

44

20539

1158

22281

0

0

0

5744

199

23392

14314

4612

1158

54526

1111

111

1111

Total for 1st year

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

Transport of seedling for plantation

(d) |Transport & planting of seediling for casualty replacement

.(c) | Planting with khamna of Min. 1 m dia

Support watering 5 times @5.30

Protection / tending operation

Tending to natural vegetation

(e) 3 weeding cum soilworking

Contigency

(g)

(h)

Polypot size: 15 cm X 25 cm X 200

Totals Material Labour Qty. Item of Work 0 year Nursery Cost of soil. .manure, seeds, water, fartillizer, insecticides, implements, rent of lands. Shade. etc. (including '10 % for 1815 1815 1222 casuality replacement) labour: Preparation of beds, filling and arranging of 4672 230 4442 bags, showing of seeds, watering shifting, weeding etc. 1222 1823 419 Seedling cost for casuality replacement in one year old (20 %) 222 1404 209 912 Seedling cost for casuality replacement in two year old (10%) 111 703 9222 2673 6549 Total 2. Area Development (Land Preparation) 3337 3337 0 (a) Survey, cutback and promotion of root suckers 9305 0 9305 1111@8.68 Aligment and digging of pits 0.45 X 0.45 X 0.45 0 12642 12642 **Total** 11110 11110 1111@10 0 (a) Natural Fertilizer (Neem cake/ Castor cake) 11110 11110 0 Total 3. SMC Works 35391 23535 Check wall/retaining wall/checkdem (all pucca only) L.S 11856 Contour trench 2 M x 45 Cm x 30 Cm as per Rs.51.75/rmt (300 9024 9024 600rmt (b) Van Talavadi/Hill Top Tank/Percolation tank/Nala 10000 10000 bund, Gully Plug etc. 23535 54415 30880 Total 4. Protection 38930 35391 3539 L.S Barbed wire fencing Seed sowing and planting of cuttings of lpomea/ Glaricidia 1575 473 1102 along the fence 40505 35864 4641 **Total** 127894 73182 54712 Total for 0 year lst Year 3747 3407 340 1222 (a) Maintenance of nursery (April toJune) 1900 1700 200 1111

Т	Total for 1st year		54526	22281	76807
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2nd	Year		107.67	0	12567
(a)	2 weeding & soil working		12567		1250
b)	20 % Casually replecement, transport and Planting	111+111	209	1041	1230
. ,		Rs.		12040	12048
(c)	Natural fertilizer (neem cake / caster cake) etc	10/plants	0	12048	22652
(d)	Support watering 3 times @ 5.30		9301	0	5019
(e)	Protection / tending operation		5019		53536
,	Total for 2nd Year		27096	26440	33330
3rd	Year		10565		12567
(a)	2 weeding & soil working		12567	0	777
(b)	10 % Casually Replecement, transport and	111	222	555	- 111
		Rs.		12222	13332
(b)	Planting,Natural fertilizer, neem cake etc.	10/plants	0	13332 4120	7740
(c)	Support watering 1 times @6		3620	0	9414
(d)	Protection & maintenance of fencing / tending Operation	L.S	9414		43830
	Total for 3rd year		25823	18007	43630
4th	Year		5260	0	5268
(a)	1 weeding & soilworking	L.S	5268		9414
(b)	Protection & Maintenance of fencing/ Tending operation		9414	0	14682
	Total for 4th Year	<u> </u>	14682	0	14002
5th	Year				7785
	Protection & maintenance of fencing/ tending operation	L.S	7785	0	7785
	Total for 5th Year		7785	0	//83
6th	Year				0271
	Protection & maintenance of fencing/ tending operation	L.S	8271	0	8271
	Total for 6th Year	r	8271	0	8271
		-			
7 tr	Protection & maintenance of fencing/ tending operation	L.S	8758	0	8758
-	Total for 7th Year	r	8758	0	8758
0 +1	ı Year				
8 11	Protection & maintenance of fencing/ tending operation	L.S	9243	0	9243
<u> </u>	Total for 8th Yea	r	9243	0	9243
Q th	Year				
3 11	Protection & maintenance of fencing/ tending operation	L.S	9730	0	9730
-	Total for 9th Yea	r	9730	. 0	9730
10	th Year				
Protection & maintenance of fencing/ tending operation		L.S	10217	0	1021
	Total for 10th Yea	r	10217	0	1021
-	Grand Total		230843	139910	37075
Th	Cost of Supervision/Subsequential Silvicultural operations	20%	46169	27982	7415
Ine	cost of supervision/subsequential survicated at operations		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.Ğ.S.Singh)
Deputy Conservator of Forests,
Godhra