Compensatory Afforestation Scheme for double degraded area

Diversion of Forest land and Tree felling Proposal For Rehabilitation and Up gradation of Mahuva-Savarkundala-Amreli-Bagasara-Jetpur Section of NH-351 to Two/Four lanes with paved Shoulder Configuration in the State of Gujarat (35.612 HA.)

Detailed scheme of Compensatory Afforestation to be carried out in lieu of 35.612 Ha. Forest land to be diverted for Rehabilitation and Up gradation of Mahuva-Savarkundala-Amreli-Bagasara-Jetpur Section of NH-351 to Two/Four lanes with paved Shoulder Configuration in the State of Gujarat.

Details of degraded land.

Village	Kharod
Taluka	Dahod
Range	Rampura
District	Dahod
Division	Baria
Block/ Patal, Compartment No.	146 pt.
Area to be afforested	72.00 Ha.
Working circle	

11. Description of Area.

Soil type	Loamy &Rocky
Topography	Plain
Slope	Gentle
Whether the area is bearing any root stock of Vegetation	Yes

12. Name of Plantation Programme:-

Compensatory Afforestation Scheme for Degraded Area.

13. Schedule of Plantation Programme:-

- (xv) The Compensatory Afforestation on degraded area would be started by Dy.Conservator of Forest Baria Division as early as possible after the proposal is formally approved.
- (xvi) Compensatory Afforestation will be done in 72.00 ha. area. The total afforestation cost will be about **Rs.3,96,42,912**/- Exicutive Engineer, National Highway, Rajkot has given an undertaking to pay the cost of Compensatory Afforestation as per the prevailing wages (including the price escalation and supervision charges).

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



Daily / Wages-Rs.351.30

Year	Area ha	Rate /ha	Total Amount
O Year 70 %	72.00	182572	13145184
1 st Year (Current Year)	72.00	89260	6426720
2 nd Year	72.00	60000	4320000
3 rd Year	72.00	47850	3445200
4 th Year	72.00	16561	1192392
5 th Year	72.00	8544	615168
6 th Year	72.00	10074	725328
7 th Year	72.00	10487	755064
8 th Year	72.00	10973	790056
9 th Year	7 2.00	11180	804960
10 th Year	72.00	11329	815688
Total	4	458830	33035760
Supervision Charge 20 %	72.00	91766	6607152
Total		550596	39642912

Say

Compensatory Afforestation will be done in 72.00 ha. Area. The total afforestation cost will be Rs. 3,96,42,912/-

14. 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. Theprevailing wage rateis 351.30 per day.		
b	Spacement	3 X 3 mtr., 1111 plants per ha.		
С	Species to be planted (No.			
	of plants per ha.)	Khair	150	65cm
	4 4,	Kanaj	100	75cm
		Sadad	50	90cm
		Bamboo	100	65cm
		Bordi	25	65cm
	8	Baheda	25	90cm
		Mahuda	50	75cm
		Amla	200	75cm
	g an	Teak	200	90cm
		Etc.	211	
		Total	1111	
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 mo	nsoon.
g	Soil & Moisture Conservation Works	(xvi) Pucca structure like Check dam	, check wall	, retaining wall
		(xvii) 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		
a .		planted during monsoon in the upper side of nala as per suitability. (xviii) Van Talavadi/ Percolation tank		
h	Protection Trench	Barbed wire fenching, Seed sowi	ng And pl	lanting of cuttings of
		Ipomea/ Glarcidia along the fence		
i	Silvicultural Operations	1 st year three weeding soil working, Support watering will be provided if needed.		
		2 nd year two weeding soil working.		
		3 rd year one weeding soil working.		

/D/sanjay/FCA/New CA 20-05-2022

		al al	
	j	Maintenance	It is proposed to maintain the Plantation up to ten years.
	k	Subsequent	Cleaning cuthacks thinning etc. (as a significant of the significant o
1	1	silvicualtural Operation	Cleaning, cutbacks, thinning etc. (as per species specific requirement)
1	1	Proposed monitoring	
		mechanism	(xxxvi)A plantation register is to be maintained.
			(xxxvii) Monitoring is to be done as per the following norms.
			Forester – 100%
		**	RFO – 100%
			ACF – 20%
			DCF – 10%
			(xxxviii) 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.
			(xxxix) The collar girth is also to be reordered at the end of
		,565;	each year.
			(xl) At the end of maintenance period, the area is aimed at full
		¥.,	stocking and pole crop girth for all the species, except bamboo.
		-	(xli)Bamboo would be of the harvestable size by the end of 4 th year.
	100	· 5	(xlii) Third party monitoring mechanism is also in the State and if
			the plantation is in the sample selected, it will also be monitored
L			by the third party selected for this purpose.
_1	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	degraded forest land.

Dy. Conservator of Forest Baria

With the condition that the concerned DCF will obtain approval for deviation of the working plan. The scheme for Ha. 72.00 Compensatory Afforestation is technically sanction and administratively approved Rs.3,96,42,912- (in words) Three Carore Ninty Six Lacs Fourty Two Thousand Nine Hundred Twelve Only.

Conservator of Forest Vadodara

(Ayush Verma)
Deputy Conservator Of Forests

Social Forestry Division

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Compensatory Afforestration Scheme for Non- Forest land Under FCA Proposal



Detailed scheme of Compensatory Afforestation to be carried out in lieu of 35.612 Ha. Forest land to be diverted for Rehabilitation and Up gradation of Mahuva-Savarkundala-Amreli-Bagasara-Jetpur Section of NH-351 to Two/Four lanes with paved Shoulder Configuration in the State of Gujarat.

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 Polynot size: 15 cm X 25 cm X 200

POL	ypot size: 15 cm X 25 cm X 200	T	T	Wage i	rate: 351.30/Day
0 ***	Plau ground	Qty.	Labour	Material	Totals
	Cost of soil manual and Cost o			-	
(a)	Cost of soil. manure, seeds, water, fartillizer, insecticides,				
	implements, rent of lands. Shade. etc. (including '10 % for casuality replacement)	1222		9	
	labour : Preparation of beds, filling and arranging of	1222	0	1815	1815
(b)	bags, showing of seeds, watering shifting, weeding etc.	1222	10.00		
- 0	Seedling cost for casuality replacement in one year old (20	1222	4868	230	5098
0	%	222	1500		
		222	1538	419	1957
	Seedling cost for casuality replacement in two year old (10%)	111	770	200	070
	Total	111	7177	209 2673	979
2. A	rea Development (Land Preparation)	•	/1//	7 20/3	9850
(a)	Survey, cutback and promotion of root suckers		3657	0	2657
	Aligment and digging of pits 0.45 X 0.45 X 0.45	<u>.1111@8.84</u>	10199		3657
	Total	.1111@8.84	13856	0	10199
(a)	Natural Fertilizer (Neem cake/ Castor cake)	1111@10	0	0 11110	13856
	Total	1111@10	0	11110	11110
3. SI	MC Works		0	11110	11110
			- 0		
(a)	Check wall/ retaining wall /checkdem (all pucca only)	L.S	13685	23535	27220
	Contour trench 2 M x 45 Cm x 30 Cm as per Rs.51.75/rmt	<u> </u>	13003	23333	37220
(b)	(300 trench)	600rmt	10372	ol	10372
	Van Talavadi/Hill Top Tank/Percolation tank/Nala		10072	- 0	10372
.(c)	bund,Gully Plug etc.		10484	0	10484
4	Total		34541	23535	58076
	rotection			20000	30070
(a)	Barbed wire fencing (220 rmt/ Ha., Rs. 400/- per Rmt)	L.S	8000	80000	88000
	Seed sowing and planting of cuttings of lpomea/ Glaricidia	4		-	00000
(b)	along the fence	1	1208	473	1681
	Total		9208	80473	89681
	Total for 0 year		64781	117791	182572
lst Y					
(a)	Maintenance of nursery (April toJune)	1222	4460	340	4800
	Transport of seedling for plantation	1111	2370	200	2570
(c)	Planting with khamna of Min. 1 m dia	1111	6985	0	6985
	m				
	Transport & planting of seediling for casualty replacement	111	420	44	464
(e)	3 weeding cum soilworking	1111	28509	0	28509
(f)	Support watering 5 times @5.30		17560	20539	38099
	Protection / tending operation		5370		
	Tending to natural vegetation		1305	0	5370
	Contigency			1150	1305
_			0	1158	1158
	Total for 1st year		66979	22281	89260



2200	l Year	**		-	
			W. 1		
(a)	2 weeding & soil working		13774	0	13774
(b)	20 % Casually replecement, transport and Planting	111+111	370	1320	1690
.(c)	Natural fertilizer (neem cake / caster cake) etc	Rs. 10/plants			-
(d)	Support watering 3 times @ 5.30	10/ plants	0	13560	13560
(e)	Protection / tending operation		11150	14325	25475
-	Total for 2nd Year		5501	0	5501
3rd	Year		30795	29205	60000
(a)	2 weeding & soil working		10774		
	5		13774	0	13774
(b)	10 % Casually Replecement, transport and	111	244	555	700
	Dlanking N. J. C. 191	Rs.	211	333	799
(b)	Planting, Natural fertilizer, neem cake etc.	10/plants	0	14871	14871
(c)	Support watering 1 times @6	4	3968	- 4120	8088
(d)	Protection & maintenance of fencing / tending Operation	L.S	10319	0	10319
4thY	Total for 3rd year		28304	19546	47850
0	1 weeding & soilworking				
(b)	Protection & Maintenance of fencing/ Tending operation	L.S	6243	0	6243
	Total for 4th Year		10318	0	10318
5thY	ear		16561	0	16561
	Protection & maintenance of fencing/ tending operation	L.S	8544	0	8544
CALAZ	Total for 5th Year		8544	0	8544
6thY					0311
\vdash	Protection & maintenance of fencing/ tending operation	L.S	10074	0	10074
	Total for 6th Year		10074	0	10074
7 th	Year				
	Protection & maintenance of fencing/ tending operation	L.S	10407		
2 31	Total for 7th Year	L.3	10487 10487	0	10487
8 th Y	'ear	4	10407	0	10487
	Protection & maintenance of fencing/ tending operation	L.S	10973	0	10973
9 th Y	Total for 8th Year		10973	0	10973
	Protection & maintenance of fencing/ tending operation	L.S	11180	0	11180
40.1	Total for 9th Year		11180	0	11180
10 th					11100
P	Protection & maintenance of fencing/ tending operation	L.S	11329	0	11329
	Total for 10th Year		11329	0	11329
	Grand Total		270007	188823	458830
The Co	ost of Supervision/Subsequential Silvicultural operations	20%	54001	37765	91766
	lote :		324008	226588	550596

.(1) Seed sowing along fensing toword 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 72.00 Ha Area

Total Cost Rs.: 3,96,42,912/-

(Ayush Verma) **Deputy Conservator Of Forests Social Forestry Division** Botad

Deputy Conservator of Forests, Baria

Annexure-3

Zone wise per ha species spectrum for degraded forest areas for Double Degradation area plantation for FCA proposals as also for Campa(CA) project plantations.

Model-3

I. Plant population 1111 (3mx3m spacing)

II. Density 1111 seedling/Ha.

III. 1st Year replacement 20 % = 222 seedling /Ha.

IV. 2nd Year replacement 20 % = 222 seedling /Ha.

V. 3rd Year replacement 20 % = 222 seedling /Ha.

VI. Total Seedling = 1777 seedling/Ha.

VII 1Polyot size: 15cm 2 25cm 2 200g Total 1111 plants/ Ha.

VII. 1Po	lyot size: 15cm 2 25cm 2 200g 1	Otal IIII plants/ IIa.
Sr. No.	Central zone	
51.110.	Species	Nos
1 .	Khair	150
2	Kanaj	100
3	Sadad	50
4	Bamboo	50
5	Bordi	. 25
	Baheda	25
<u>6</u> 7	Mahuda	50
	Amla	200
8	Teak	200
9	Etc.	261
10	Total	. 1111

(R.M.Parmar)

Deputy Conservator of Forests,

Baria.

Deputy Conservator Of Forests
Social Fore

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