


Annexure - 1

Proposed area for double degradation afforestation as well as for CAMPA (CA) projects for barren degraded forest areas.

Sr.No.	Name of FCA proposal	Division	Proposed Territorial divisions for double degradation afforestation	Remarks
1	2		3	4
1	Forest Division Valsad, South		Baria	


 (R. M. Parmar)
 Deputy Conservator of Forests,
 Baria.

Annexure-XIX

Compensatory Afforestation Scheme for double degraded forest area

Construction of 765 KV D/C Navsari (New) (South Gujarat) (GIS) Padghe (GIS) Transmission Line In Gujarat Under regulated tariff mechanism(RTM) through Reserve Forest Area Proposal Reg. (Reserve Forest Area:99.6228 Ha.)

Village	Garadiya, Kharoda
Taluka	Sanjeli, Dahod
Range	Sanjeli, Dahod
District	Dahod
Division	Baria
Reserved Forest Survey No.	Garadiya 10 pt, Kharoda 250 pt
Area to be afforested	Garadiya 100.00 Ha, Kharoda 120.00 Ha
Working circle	Development & Conservation

1. Description of Area.

Soil type	Black & Goradu Soil
Topography	Plain
Slope	Medium & Gentle

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

Daily / Wages-462.00

Year	Area (ha)	Rate /ha	Total Amount
0 Year 70 %	1	256030	256030
1 st Year	1	122590	122590
2 nd Year	1	76776	76776
3 rd Year	1	62595	62595
4 th Year	1	21521	21521
5 th Year	1	11456	11456
6 th Year	1	13091	13091
7 th Year	1	13630	13630
8 th Year	1	14260	14260
9 th Year	1	14528	14528
10 th Year	1	14723	14723
Total	1	621200	621200
Supervision Charge 20 %	1	124240	124240
Total	1	745440	745440

Say

7,45,440/-

Compensatory Afforestation will be done in 220 ha. Area. The total afforestation cost will be Rs. 16,39,96,800/-

2. **Name of Plantation Programme:-**
Compensatory Afforestation Scheme for Degraded Area.
3. **Schedule of Plantation Programme:-**

(i)	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.
(ii)	Compensatory Afforestation will be done in 220 ha. Area. The total afforestation cost will be about Rs.16,39,96,800/- Chief Manager Powergrid Corporation Of India Ltd.Navasari has given an undertaking to pay the cost of Compensatory Afforestation as per the prevailing wages (including the price escalation and supervision charges).

4. **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 441.00per day.(it may change as per wage rate at the time of approval.)		
b	Spacement	3 X 3 mtr., 1111 plants per ha.		
c	Species to be planted (No. of plants per ha.)	Holoptelea	300	65 cm
		Teak	100	Stump of minimum 6 cm Girth
		Custard Apple	100	50 cm
		Cassia fistula	55	50 cm
		Bamboo	350	50 cm
		Arjun sadad&Karamda	28	50 cm
		Vad,Pipal ,Khatiambali , kuvad, Amla	100	65 cm
		Limado,kothi,kadayo,Bili etc.	78	50 cm
		Total	1111	
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 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 using the loose 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 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.
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 November 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 th 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.

Date:- /12/2023
Place:-Baria


(R.M.Parmar)
Deputy Conservator of Forest
Baria

The Compensatory Afforestation scheme at the cost of **Rs.16,39,96,800/-** is technically and administrative approved by the undersigned

Compensatory Afforestation Scheme for Forest land Under FCA Proposal

Construction of 765 KV D/C Navsari (New) (South Gujarat) (GIS) Padghe (GIS) Transmission Line In Gujarat Under regulated tariff mechanism(RTM) through Reserve Forest Area Proposal Reg. (Reserve Forest Area:99.6228 Ha.)

Spacemnts = 3mx3m

1111 seedling / ha

1st year replacement 20 % = 111+111 seedling / ha

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

3rd year replacement 20 % = 111+111 seedling / ha

Total Seedlings = 1333 seedling / ha

Polypot size : 15 cm X 25 cm X 200

Wage rate: 462.00/Day

	Item of work	Qty.	Labour	Material	Totals
0 year Nursery					
(a)	Cost of soil .manure, seeds, water,fertilizer, insecticides, implements, rent of lands. Shade. etc. (including '20 % for casualty replacement)	1333	0	1815	1815
(b)	labour : Preparation of beds, filling and arranging of bags,showing of seeds, watering shifting, weeding etc.	1333	7745	230	7975
	Seedling cost for casualty replacement in one year old (20 %)	222	1972	419	2391
	Seedling cost for casualty replacement in two year old (20%)	222	1972	419	2391
	Total		11689	2883	14572
2. Area Development (Land Preparation)					
(a)	Survey, cutback and promotion of root suckers		4688	0	4688
	Aligment and digging of pits 0.45 X 0.45 X 0.45	.1111@12	13071	0	13071
	Total		17759	0	17759
(a)	Fertilizer (Neem cake/ Castor cake)/Vermicompost etc.	1111@8	0	8888	8888
	Total		0	8888	8888
3. SMC Works					
			0		
(a)	Check wall/ retaining wall /checkdem (all pucca only)	L.S	22541	23535	46076
	Soil Work including contour trench/ trench / Nala bund				
(b)	/Gully Plug etc.	L.S	19866	0	19866
(c)	Van Talavadi/Hill Top Tank/Percolation tank etc.		25222	0	25222
	Total		67629	23535	91164
4. Protection					
(a)	Barbed wire fencing or Protection Trench	L.S	15205	106421	121626
	Seed sowing and planting of cuttings of Ipomea/ Glaricidia				
(b)	along the fence		1548	473	2021
	Total		16753	106894	123647
	Total for 0 year		113830	142200	256030
1st Year					
(a)	Maintenance of nursery (April to June)	1222	5717	340	6057
(b)	Transport of seedling for plantation	1111	3037	200	3237
(c)	Unloading and Head load Transportation (15 cm x 25 cm)	1111	1936	0	1936
(d)	Planting with khamna of Min. 1 m dia	1111	8953	0	8953
(e)	20 % Casualty replacement, transport & Digging of Pit and then plantaion (Casualty Replacement)	111+111	474	1320	1794
(f)	3 weeding cum soilworking	1111	36540	0	36540
(g)	Support watering 5 times		22507	31805	54312
(h)	Protection / tending operation		6882	0	6882
(i)	Tending to natural vegetation		1673	0	1673
(i)	Contingency		0	1206	1206
	Total for 1st year		87719	34871	122590

2nd Year					
(a)	2 weeding & soil working	L.S	17654	0	17654
(b)	20 % Casualty replecement, transport & Digging of Pit and then plantaion (Casualty Replacement)	111+111	474	1320	1794
(c)	Fertilizer (Neem cake/ Castor cake)/Vermicompost etc.	Rs. 10/plants	0	13560	13560
(d)	Support watering 3 times		13067	23651	36718
(e)	Protection / tending operation		7050	0	7050
Total for 2nd Year			38245	38531	76776
3rd Year					
(a)	2 weeding & soil working		17654	0	17654
(b)	20 % Casualty replecement, transport & Digging of Pit and then plantaion (Casualty Replacement)	111+111	474	1320	1794
(c)	Fertilizer (Neem cake/ Castor cake)/Vermicompost etc.	Rs. 16/plants	0	17776	17776
(d)	Support watering 1 times		5085	4204	9289
(e)	Protection & maintenance of fencing / tending Operation	L.S	16082	0	16082
Total for 3rd year			39295	23300	62595
4thYear					
(a)	1 weeding & soilworking	L.S	7318	0	7318
(b)	Protection & Maintenance of fencing/ Tending operation		14203	0	14203
Total for 4th Year			21521	0	21521
5thYear					
	Protection & maintenance of fencing/ tending operation	L.S	11456	0	11456
Total for 5th Year			11456	0	11456
6thYear					
	Protection & maintenance of fencing/ tending operation	L.S	13091	0	13091
Total for 6th Year			13091	0	13091
7 th Year					
	Protection & maintenance of fencing/ tending operation	L.S	13630	0	13630
Total for 7th Year			13630	0	13630
8 th Year					
	Protection & maintenance of fencing/ tending operation	L.S	14260	0	14260
Total for 8th Year			14260	0	14260
9 th Year					
	Protection & maintenance of fencing/ tending operation	L.S	14528	0	14528
Total for 9th Year			14528	0	14528
10 th Year					
	Protection & maintenance of fencing/ tending operation	L.S	14723	0	14723
Total for 10th Year			14723	0	14723
Grand Total			382298	238902	621200
The Cost of Supervision/Subsequential Silvicultural operations		20%	76460	47780	124240
			458758	286682	745440

Compensatory afforestation will be done in 1.00 Ha Area
Compensatory afforestation for 220.00 HA. Area

Cost Rs. : 7,45,440/-
Total Cost Rs. : 16,39,96,800/-


 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 × 25cm × 200g Total 1111 plants/ Ha.


Sr. No.	Central zone	
	Species	Nos
1	Khair	150
2	Bili	25
3	Teak	150
4	Baheda	50
5	Kanaj	200
6	Arjun Sadad	100
7	Amla	25
8	Bamboo	150
9	Pani kanaj	50
10	Mahuda	25
11	Etc.	186
	Total	1111

(R.M.Parmar)

Dy.Conservator of forests
Baria

પ્રમાણપત્ર

આથી પ્રમાણપત્ર આપવામાં આવે છે કે, Construction of 765 KV D/C Navsari (New) (South Gujarat) (GIS) Padghe (GIS) Transmission Line In Gujarat Under regulated tariff mechanism(RTM) through Reserve Forest Area Proposal Reg. (Reserve Forest Area:99.6228 Ha.) ની દરખાસ્ત સામે વળતર વનીકરણ માટે સુચવેલ ડીગ્રેડેડ વિસ્તાર મોજે -:ગરાડીયા, સર્વે નંબર/કમ્પાર્ટમેન્ટ નંબર-૧૦ પૈકી, વર્કીંગ સર્કલ :ડેવલોપમેન્ટ વર્કીંગ સર્કલ રેંજ:-સંજેલી, તા-સંજેલી, મોજે -:ખરોદા, સર્વે નંબર/કમ્પાર્ટમેન્ટ નંબર-૨૫૦ પૈકી, વર્કીંગ સર્કલ :ડેવલોપમેન્ટ વર્કીંગ સર્કલ રેંજ -: દાહોદ, તા-દાહોદ, જિલ્લો:-દાહોદ ડિવીઝન:-બારીયા વિસ્તાર:-૨૨૦.૦૦ હેક .માં છેલ્લા પાંચ વર્ષમાં અન્ય કોઈ યોજના હેઠળ વાવેતર લેવામાં આવેલ નથી .


નાયબ વન સંરક્ષક
બારીયા વન વિભાગ
બારીયા

CERTIFICATE

This is to certify that I have visited 220.00 Ha. area of degraded RF forest (for taking up 220.00 Ha. of CA) of Village- Garadiya Survey No. 10 pt, Taluka – Sanjeli Village- Kharoda Survey No. 250 pt, Taluka- Dahod, District –Dahod, on date. 2/07/2023 which has been identified for compensatory afforestation as shown in the location map attached with the Compensatory Afforestation Scheme against the proposal for diversion of 99.6228 Ha.of R.F. forest land and the said area is suitable for compensatory afforestation. It is also certified that the compensatory afforestation scheme suggested in the area is in consonance with the working plan prescriptions, specified for the said area. and The area is not under encroachment.

Date: /12/2023
Place: Baria

(R.M.Parmar)
Dy.Conservator of forests
Baria

CERTIFICATE

Office of the
Deputy Conservator Of Forest,
Baria Forest Division,
Baria.

This is to Certify that Village- Garadiya Survey No. 10 pt, Taluka – Sanjeli, Village- Kharoda Survey No. 250 pt, Taluka – Dahod District –Dahod Is no plantation/ afforestation activity was taken up under any scheme over the degraded forest area identified and accepted for raising CA Plantation.

Date: /12/2023

Place: Baria


(R.M.Parmar)

Dy.Conservator of forests
Baria