

Compensatory Afforestation Scheme for degraded area

Compensatory Afforestation Scheme for double degraded area under FCA proposal for Diversion of 2.1533 ha. of forest land for Construction of 765 kv D/C Transmission line vide Proposal no.FP/GJ/TRANS/429315/2023.

Detailed scheme of Compensatory Afforestation for degraded area **5.00 ha.** To be carried out in lieu of 2.1533 ha. Of Protected Forest land to be diverted in Valsad District.

1 Details of degraded land

Village	:	Khatalwada
Taluka	:	Umargam
Range	:	Sanjan
District	:	Valsad
Division	:	Valsad South
Survey No.	:	921
Area to be afforested	:	5
Working Circle	:	Production Working Circle

2 Description of Area.

Soil type	Brown-Murom
Topography	Hilly
Slope	Medium
Whether the area is bearing any root stock of Vegetation	Blank

3 Name of Plantation programme:-

Compensatory Afforestation Scheme for degraded area

4 Schedule of Plantation programme:-

- (i) The Compensatory Afforestation on degraded area would be started by Dupety Conservator of Forest Valsad South Division as early as possible after the proposal is formally approved.
- (ii) Compensatory Afforestation will be done in **5.00 ha.** Area. The total afforestation cost will be about **Rs.46,30,000/-** Power Grid New Navsari 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 souble degraded Forest Areas. The prevailing wage rate is 441 per day.		
(b)	Spacement	3 X 3 mtr., 1111 plants per ha.		
(c)	Species to be planted (No. Of plants per ha.)	Plant	Species	Hight in centimeter
		Khair	150	65
		Kadaya	100	75
		Bael	50	65
		Bamboo	150	50
		Harde	100	75
		Sadad	100	90
		Baheda	50	90
		Arjun Sadad	100	90
		Haldu	100	75
		Garmaro, Sisu, sisam, Ashoka, Bhilamo, Subavar, Kaju, and Aritha	61	65
Teak	150	90		
	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 & the site will be cleaned in the month of Nov-Dec. Alignment & pit digging 45 X 45X 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) Coutour 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. Gukky plugging & nala banding using the loose stone available in the area will be carried out as per requirement. seeds of jatropa, Agava 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	1st year three weeding soil working, support watering will be provided if needed. 2nd year two weeding soil working. 3rd year one weeding soil working.		

(j)	Maintenance	It is proposed to maintain the Plantation up to ten years.								
(k)	Subsequent Silvicultural Operation	Cleaning, cutback, 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	<ul style="list-style-type: none"> (i) A plantation register is to be maintained. (ii) Monitoring is to be done as per the following norms <table style="margin-left: 20px; border: none;"> <tr> <td>Forester:-</td> <td style="text-align: right;">100%</td> </tr> <tr> <td>RFO:-</td> <td style="text-align: right;">100%</td> </tr> <tr> <td>ACF:-</td> <td style="text-align: right;">20%</td> </tr> <tr> <td>DCF:-</td> <td style="text-align: right;">10%</td> </tr> </table> (iii) The result 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. (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 4th 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. 	Forester:-	100%	RFO:-	100%	ACF:-	20%	DCF:-	10%
Forester:-	100%									
RFO:-	100%									
ACF:-	20%									
DCF:-	10%									
(m)	Regeneration cleaning	Cut-back and promotion of root suckers.								
(n)	Silvicultural & other activities	Only afforestation aimed plantation will be taken up, as the area falls under degraded forest land.								


 Deputy Conservator of Forest
 Valsad South Division
 Valsad

The Compensatory Afforestation scheme at the cost of Rs. 46,30,000/- is technically and administrative approved by the undersigned.


 Deputy Conservator of Forest
 Valsad South Division
 Valsad

99 95

Proposal for Diversion of 2.1533 ha. of forest land for Construction of 765 kv D/C Transmission line
 Vide Proposal no.FP/GJ/TRANS/429315/2023.

Model No - 3
Annexure -4 (1)

Compensatory Afforestation Scheme for double degraded area 5.00 Ha.

Daily wages Rs. 441.00

Spacemnts = 3 m X 3 m
1111 seedling/ha.
2nd year replacement 20 % = 111+111 seedling/ha.
3rd year replacement 10 % = 111 seedling/ha.
Total seedling =1333 seedling/ha.
polyptot size : 15 cm X 25 cm X 200

Item of work	Qty.	labour	Matrial	Total
1	2	3	4	5
0 Year				
Nursery				
Cost of soil, manure, seeds, water, fartilliser, (a) insecticides, implements, rent of land. Shade, etc. (including 10 % for casualty replacement)	1222	0	2600	2600
labour: Preparation of beds, filling and (b) arranging of bags, showing of seeds, watering shifting, weeding etc.	1222	6363	329	6692
(c) seedling cost for casualty replacement in one year old (20%)	222	2010	562	2572
(d) seedling cost for casualty replacement in two year old (10%)	111	1006	299	1305
Total		9379	3790	13169

2. Area Development (Land Preparation)

(a) Survey, Cutback and promotion of root suckers		9715	0	9715
(b) Aligment and digging of pits 0.45 X 0.45 X 0.45	1111@18.00	50685	0	50685
Total		60400	0	60400
(a) Natural fertilizer (Neem cake/castor cake)	1111@8.00	0	14079	14079
Total		0	14079	14079

3.SMC Works

(a) Check wall/ retainingwall/ checkdem/ (all pucca only)	L.S	16981	33709	50690
(b) Contour trench 2 M. X 45 Cm. X 30 Cm. As per Rs.17.00/rmt (300 trench)	600 rmt.	86679	0	86679
Total		103660	33709	137369

4.Protection

(a) Barbed wire fencing	1.00ha=400 rmt.	0	179975	179975
(b) Seed sowing and planting of cuttings of Ipomea/ Glaricidia along the fence		1577	676	2253
Total		1577	180651	182228

Item of work	Qty.	labour	Matrial	Total
Total for 0 year		175016	232229	407245
1st Year				
(a) Maintenance of nursery (April to june)	1222	4881	488	5369
(b) Transport of seedlinf o plantation	1111	11059	2765	13824
(c) Planting with khamna of min 1 m. Doa	1111	10367	0	10367
(d) Transport & planting of seeding for casualty replacement	111	2350	595	2945
(e) 3 weeding cum soil working	1111	32073	0	32073
(f) Support watering 5 times @ 3.25		20502	29419	49921
(g) Protection /tending operation		6635	0	6635
(h) Tending to natural vegetation		1659	0	1659
(i) Contigency		0	1659	1659
Total for 1st year		89526	34926	124452
2nd Year				
(a) 2 Weeding & soil working		17814	0	17814
(b) 20% Casually replcement, transport and planting	111+111	1273	5091	6364
(c) Natural fertilizer (Neem cake/castor cake) etc.	Rs.5/Plant	0	16640	16640
(d) Support watering 5 times @ 3.25		13323	19122	32445
(e) Protection /tending operation		7189	0	7189
Total for 2nd year		39599	40853	80452
3rd Year				
(a) 2 Weeding & soil working		19183	0	19183
(b) 10% Casually replcement, transport and planting	111	693	2742	3435
(c) Natural fertilizer Neem cake etc.	Rs.5/Plant	0	17918	17918
(d) Support watering 5 times @ 3.25		4784	6865	11649
(e) Protection & maintenance of fancing / tanding operation	L.S	9678	0	9678
Total for 3rd year		34338	27525	61863
4th Year				
(a) 2 Weeding & soil working		10275	0	10275
(b) Protection & maintenance of fancing / tanding operation	L.S	10368	0	10368
Total for 4th year		20643	0	20643
5th Year				
Protection & maintenance of fancing / tanding operation	L.S	11059	0	11059
Total for 5th year		11059	0	11059
6th Year				
Protection & maintenance of fancing / tanding operation	L.S	11754	0	11754

Item of work	Qty.	labour	Matrial	Total
Total for 6th year		11754	0	11754
7th Year				
Protection & maintenance of fancing / tanding operation	L.S	12500	0	12500
Total for 7th year		12500	0	12500
8th Year				
Protection & maintenance of fancing / tanding operation	L.S	13200	0	13200
Total for 8th year		13200	0	13200
9th Year				
Protection & maintenance of fancing / tanding operation	L.S	13827	0	13827
Total for 9th year		13827	0	13827
10th Year				
Protection & maintenance of fancing / tanding operation	L.S	14522	0	14522
Total for 10th year		14522	0	14522
Sub Total:		435853	335534	771387
The cost of supervision / subsequental silvicultureal operations	20%	87171	67107	154278
Grand Total:		523024	402641	925665

- 1 Seed sowing along fencing towards the 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. 9,26,000/-

Compensatory Afforestation for degraded area 20.00 ha.	Total Ha.	1.00 Ha. Rs.	Total Rs.
	5.00	9,26,000	46,30,000

Compensatory Afforestation Total cost Rs.46,30,000/-

Deputy Conservator of Forest
Valsad South Division
Valsad



20

SAMBARVELA D.

26

21

21

Vaḡhia Páda

Maishet Páda

Pharara Páda

Khatalvada

Proposed C.A. Area

Deputy Conservator of Forest
Valsad South.

Area of Reserved Forest in this Section... 159.11 Acres

Index to adjoining Sections

9

proposal for diversion of 2.1533 Ha. Forest land for
construction of 765 KV D/c Transmission line vide proposal
no. FR/GJ/TRANS/429315/2023.

(1) 20.252704° 72.821310°

(2) 20.251739° 72.822251°

(3) 20.249260° 72.820190°

(4) 20.250377° 72.819312°

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