

Compensary Afforestation Scheme for Double Degraded Area

Subject: Diversion of 0.3936 ha. Protected forest land for 66 KV transmission line in District; Mehasana

Detailed scheme of Compensatory Afforestation for Double degraded Area 1.00 ha. to be carried out in lieu of 0.3936 ha. of Protected forest land to be diverted in Social Forestry Division Mehasana district.

1. Details of degraded land.

Village	Malana
Taluka	Palanpur
Range	Palanpur
District	Banaskantha
Division	Banaskantha
Block/ Patal, Compartment No., Survey No	453/pt
Area to be afforested	1.00 ha.
Working circle	Reboishment and watershed development working cricle

2. Description of Area.

Soil type	Sandy/Muram
Topography	Medium
Slope	Medium
Whether the area is bearing any root stock of Vegetation	Yes

3. Name of Plantation Programme:-

Compensatory Afforestation Scheme for Double degraded area

4. Schedule of Plantation Programme:-

(i)	The Compensatory Afforestation on Double degraded Area would be started by Dy.Conservator of Forest Banaskantha Division as early as possible after the proposal is formally approved.
(ii)	Compensatory Afforestation will be done in 1.00 ha. area. The total afforestation cost will be about Rs.6,86,869/- GETCO, Mehsana 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:

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Sr. No.	Details	Specifications		
a	General Details	The C.A. will be taken under Compensatory Afforestation for Double degraded area. The prevailing wage rates 351.30 per day.		
b	Spacement	3 X 3 mtr., 1111 plants per ha.		
c	Species to be planted (No. of plants per ha.)	Speaces	Number of Plants	Minimum planting height (in cm.)
				Minimum planting collar growth (in cm.)
		Babul	100	65
		Kanji	200	75
		Bordi	250	65
		Neem	50	75
		Gunda	50	75
		Gundi	50	50
		Bamboo	25	65
		Ardusa	125	90
		RagatRoyado	50	50
		Garmalo	100	65
		Khakhro (Buteamonospermavar, lutea),Dudhkudi (Wrightiatinctoria), Aval, Kada	111	50
		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 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 and percolation tank 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.		
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 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.
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.



(P.J. Chaudhari)
Dy. Conservator of Forest
Banaskantha, Palanpur

The Compensatory Afforestation scheme at the cost of **Rs.6,86,869/-** is technically and administrative approved by the undersigned.



(P.J. Chaudhari)
Dy. Conservator of Forest
Banaskantha, Palanpur

Model No - 3

Compensatory Afforestation Scheme for Dubble dgraded area

Daily wages Rs.351.30

Spacements = 3 m x 3 m				
1111 seedling / ha				
1st year replacement 10 % = 111 seedling / ha				
2nd year replacement 20 % = 111+111 seedling / ha				
3rd year replacement 10 % = 111 seedling / ha				
Total Seedlings = 1333 seedling / ha				
Polypot size : 15 cm X 25 cm X 200				
Item of work 1	Qty. 2	Labour 3	Material 4	Total 5
0 year				
Nursery				
(a) Cost of soil, ,manure, seeds, water, fertililizer, insecticides, implements, rent of lands. Shade, etc. (including 10 % for casuality replacement)	1222	0	2071	2071
(b) labour : Preparation of beds, filling and arranging of bags,showing of seeds, watering shifting, weeding etc.	1222	5068	263	5331
(c) Seedling cost for casuality replacement in one year old (20%)	222	1601	479	2080
(d) Seedling cost for casuality replacement in two year old (10%)	111	802	239	1041
Total		7471	3052	10523
2. Area Development (Land Preparation)				
(a) Survey, cutback and promotion of root suckers		3808	0	3808
(b) Aligment and digging of pits 0.45 X 0.45 X 0.45	1111 @ 6.00	10996	0	10996
Total		14804	0	14804
(a) Natural fertilizer (Neem cake/ Castor cake)	1111 @ 5.00	0	11216	11216
Total		0	11216	11216
3. SMC Works				
(a) Check wall/ retaining wall /checkdem (all pucca only)	L.S.	13527	26852	40379
(b) Contour trench 2 M x 45 Cm x 30 Cm as per Rs.17.00/rmt (300 trench)	600 rmt.	10297	0	10297
Total		23824	26852	50676
4. Protection				
(a) Barbed wire fencing per 1 rmt. 457/- Rs.	420 rmt.	84454	126680	211134
(b) Seed sowing and planting of cuttings of Ipomea/ Glaricidia along the fence		1256	539	1795
Total		85710	127219	212929
Total for 0 year		131809	168339	300148
1st Year				
(a) Maintenance of nursery (April to June)	1222	3887	389	4276
(b) Transport of seedling for plantation	1111	2132	440	2572
(c) Planting with khamna of Min 1 m dia	1111	6556	0	6556
(d)Transport & planting of seediling for casuality replacement	111	228	50	278
(e) 3 weeding cum soil working	1111	25549	0	25549
(f) Support watering 5 times @ 3.25		16332	23435	39767
(g) Protection / tending operation		5286	0	5286
(h) Tending to natural vegetation		1321	0	1321
(i) Contigency		0	1321	1321
Total for 1st year		61291	25635	86926

Item of work	Qty.	Labour	Material	Total
2nd Year				
(a) 2 weeding & soil working		14190	0	14190
(b) 20 % Casually replcement, transport and planting	111+111	239	1188	1427
(c) Natural fertilizer (neem cake / caster cake) etc.	Rs.5/ plant	0	13255	13255
(d) Support watering 3 times @ 3.25		10613	15232	25845
(e) Protection / tending operation		5727	0	5727
Total for 2nd year		30769	29675	60444
3rd Year				
(a) 2 weeding & soil working		15281	0	15281
(b) 10 % Casually replcement, transport and planting	111	129	640	769
(b) Natural fertilizer, neem cake etc.	Rs.5/ plant	0	14274	14274
(c) Support watering 1 times @ 3.25		3811	5468	9279
(d) Protection & maintenance of fencing / tending operation	L.S.	7708	0	7708
Total for 3rd year		26929	20382	47311
4thYear				
(a) 1 weeding & soil working		8186	0	8186
(b) Protection & Maintenance of fencing/ Tending operation	L.S.	8259	0	8259
Total for 4th year		16445	0	16445
5thYear				
Protection & maintenance of fencing/ tending operation	L.S.	8810	0	8810
Total for 5th year		8810	0	8810
6thYear				
Protection & maintenance of fencing/ tending operation	L.S.	9360	0	9360
Total for 6th year		9360	0	9360
7thYear				
Protection & maintenance of fencing/ tending operation	L.S.	9911	0	9911
Total for 7th year		9911	0	9911
8thYear				
Protection & maintenance of fencing/ tending operation	L.S.	10461	0	10461
Total for 8th year		10461	0	10461
9thYear				
Protection & maintenance of fencing/ tending operation	L.S.	11012	0	11012
Total for 9th year		11012	0	11012
10thYear				
Protection & maintenance of fencing/ tending operation	L.S.	11563	0	11563
Total for 10th year		11563	0	11563
SubTotal		328360	244031	572391
Total cost of supervision/subsequentalsilvicultureal operations	20%	65672	48806	114478
Grand Total		394032	292837	686869

Note :-

- (1) Seed sowing along fencing towards the inner side.
- (2) Planting of cutting of ipomea//Gliricidia along the fencing towards outer side



(P.J. Chaudhari)
Dy. Conservator of Forests
Banaskantha, Palanpur

Model-3 1111 Pt/Ha.

Sr. No.	Rate	Hactor	0 Year	1st Year	2nd Year	3rd Year	4th Year	5th Year	6th Year	7th Year	8th Year	9th Year	10th Year	Total	20% Add	Grand Total
1	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
1	A	1.00	272860	72439	46495	33794	10963	5506	5506	5506	5506	5506	5506	469587	93917	563504
	B	1.00	300148	86926	60444	47311	16445	8810	9360	9911	10461	11012	11563	572391	114478	686869
2	A	1.0000	272860	72439	46495	33794	10963	5506	5506	5506	5506	5506	5506	469587	93917	563504
	B	1.0000	300148	86926	60444	47311	16445	8810	9360	9911	10461	11012	11563	572391	114478	686869
														Total Cost Rs.		686869

For Different Years the rate shown for B has been derived from A as Follows.

NB:(2)-

In column 17 the additional 20% is towards the cost of supervision/subsequent silvicultural operations

F:\d\NETWORK\T-17 (T-15) (T-26)\2022-23\Transmission Line 7 Proposal in SF Divison BK\1.00 Malana\CA Dgraded Model-3 @ 351.30

Name of works	Model No.	Area	Rate per	Amount												Total Rs.	
		H.A.	Hac.	0 Year	1st Year	2nd Year	3rd Year	4th Year	5th Year	6th Year	7th Year	8th Year	9th Year	10th Year	20%		
0 Year 70 % Adv.work. 1st Year Operation.	Model-3	1.0000	300148	300148	0	0	0	0	0	0	0	0	0	0	0	60030	360178
1st Year 30 % Advance work Current year plantation			86926	0	86926	0	0	0	0	0	0	0	0	0	0	17385	104311
2nd Year operation Maintanance of one year old plantation.			60444	0	0	60444	0	0	0	0	0	0	0	0	0	12089	72533
3rd Year operation Maintanance of 2 years old plantation.			47311	0	0	0	47311	0	0	0	0	0	0	0	0	9462	56773
4th year operation Maint.of 3 years old plantation.			16445	0	0	0	0	16445	0	0	0	0	0	0	0	3289	19734
5th year operation Maint.of 4 years old plantation.			8810	0	0	0	0	0	8810	0	0	0	0	0	0	1762	10572
6th year operation Maint.of 5 years old plantation.			9360	0	0	0	0	0	0	9360	0	0	0	0	0	1872	11232
7th year operation Maint.of 6 years old plantation.			9911	0	0	0	0	0	0	0	9911	0	0	0	0	1982	11893
8th year operation Maint.of 7 years old plantation.			10461	0	0	0	0	0	0	0	0	10461	0	0	0	2092	12553
9th year operation Maint.of 8 years old plantation.			11012	0	0	0	0	0	0	0	0	0	11012	0	0	2202	13214
10th year operation Maint.of 9 years old plantation.			11563	0	0	0	0	0	0	0	0	0	0	11563	0	2313	13876
Total			572391	300148	86926	60444	47311	16445	8810	9360	9911	10461	11012	11563	114478.2	686869	



(P.J. Chaudhari)
Dy. Conservator of Forests
Banaskantha, Palanpur

Detailed of Degraded scheme Compensatory Afforestation to be carried out in lieu of 1.00 Ha. of Forest land to Gujarat Energy Transmission Corporation Ltd. Proposal For Diversion of 0.3936 Ha. Forest Land of Maheshwar Social Forestry Division For The Purpose of Transmission Line

Village: Malana
Taluka: Palanpur
Dist.: Banaskantha
Survey no.: 453 pt.
Ha: 1.00
Range: Palanpur

453/Pt Forest

Forest Area

Area to be taken for Compensatory Afforestation 1.00 Ha.



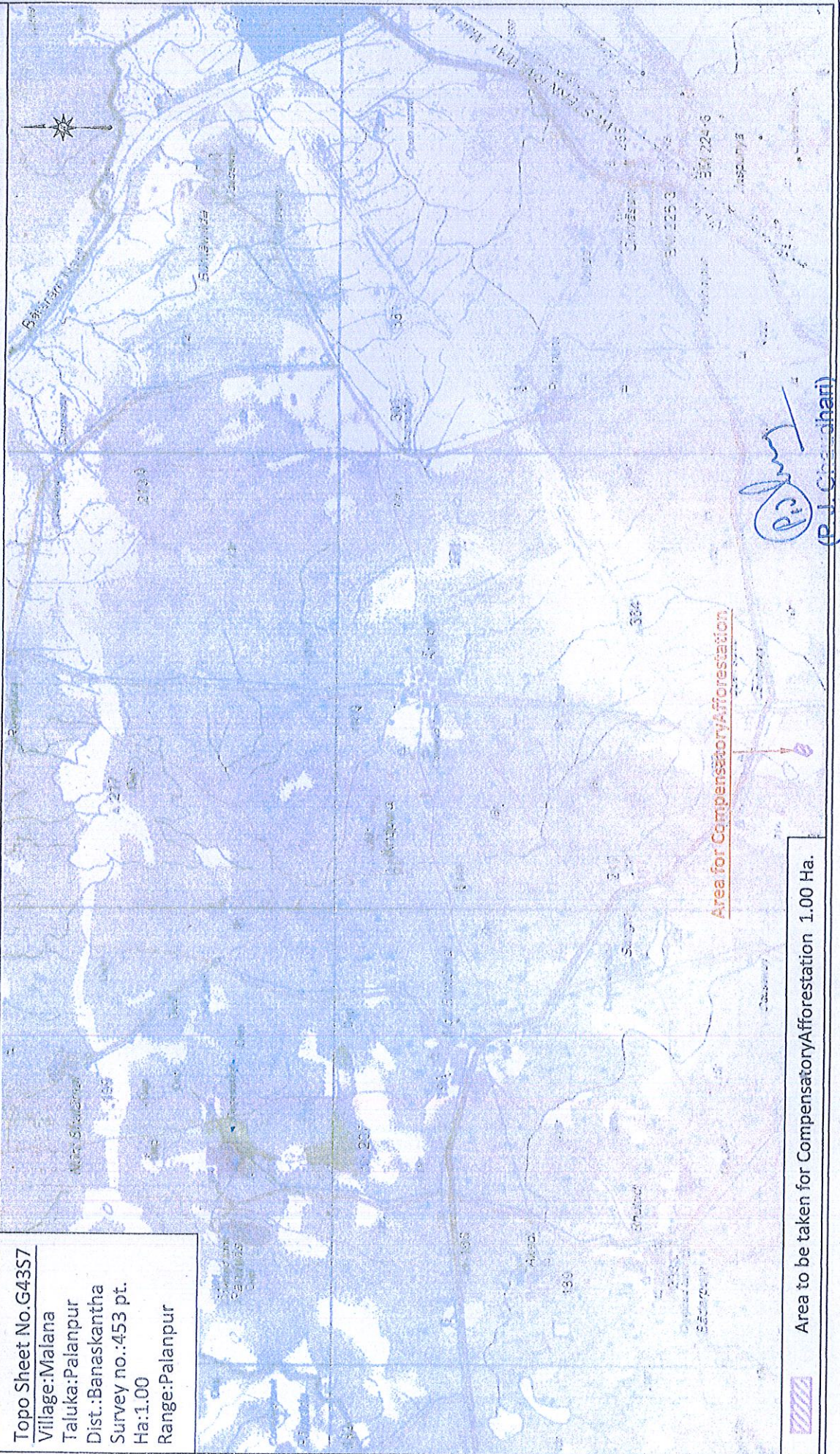
SCALE: 1 C.M = 79.20 M.T

(P. J. Chaudhari)

Deputy Conservator of Forest
Ranaskantha - Palanpur

Detailed of Degraded scheme Compensatory Afforestation to be carried out in lieu of 1.00 Ha. of Forest land to Gujarat Energy Transmission Corporation Ltd. ⁴⁴⁵⁴⁷ Proposal For Diversion 0.3136 Ha. Forest Land of ~~Mekheriya~~ Social Forestry Division For The Purpose of Transmission Line

Topo Sheet No.G43S7
Village:Malana
Taluka:Palanpur
Dist.:Banaskantha
Survey no.:453 pt.
Ha:1.00
Range:Palanpur



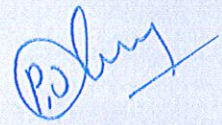
Deputy Conservator of Forest
Banaskantha - Palanpur

CERTIFICATE

This is certified that 1.00 Ha. land of S.No. 453pt. of Village Malana, Ta. Palanpur, Dist. Banaskantha proposal for Compensatory Afforestation against the Diversion of 0.3936 ha. Protected forest land for 66 KV transmission line in District; mehsana is identified and found suitable for afforestation.

Palanpur

Date: / /2022



(P.J. Chaudhari)
Dy.Conservator of Forests,
Banaskantha-Palanpur