

Compensatory Afforestation Scheme for degraded area

Diversion of 0.47892 ha. Protected Forest land for laying 8" dia steel gas pipeline connectivity for (1)Maruti Nadan CNG Station to Kanubhai Rabari SGL CNG station Ta.Dehgam (2) Bilasiya Bus Stand to Kanubhai Rabari CNG Station Dehgam Ta.Gandhinagar Dist.Gandhinagar. **(Total 0.47892 Ha.)**

1 Details of degraded land

Village	:	Khari
Taluka	:	Satlasana
Range	:	Dharoi
District	:	Mahasana
Division	:	Gandhinagar Forest Division, Gandhinagar
Block/Patal, Compartment No.	:	Old Survey No. 11 Pt
Area to be afforested	:	1.00 Ha.
Working Circle	:	Coupe No.20/08 Degraded Area Improvemnet Working Circle

2 Description of Area.

Soil type	Murrumy
Topography	Plain/Revines
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

4 Schedule of Plantation programme:-

- (i) The Compensatory Afforestation on degraded area would be started by Deputy Conservator of Forest Gandhinagar Forest Division as early as a possible after the proposal is formally approved.
- (ii) (ii) Compensatory Afforestation will be done in 1.00 ha. area. The total afforestation cost will be about Rs.8,15,899/- Chief Manager, Sabarmati Gas Limited, Gandhinagar, 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 degraded Forest Areas. The prevailing wage rate is 486.50 per day.		
(b)	Spacing	3 X 3 mtr., 1111 plants per ha.		
(c)	Species to be planted (No. Of plants per ha.)	Neem	300	75 cm
		Kanji	100	75 cm
		Arjun Sadad	100	90 cm
		Bamboo	111	65 cm
		Jamun	50	75 cm
		Biyo	50	90 cm
		Rayan	30	75 cm
		Baheda(Terminalia)	40	90 cm
		Kadayo	50	65 cm
		Vad	50	90 cm
		Simalo	50	75 cm
		Kosam	30	75 cm
		Khijdo	20	65 cm
		Amali	30	75 cm
		Others	100	75 cm to 90 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 & 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)	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.	
(h)	Protection Trench	a) Barbed wire fencing		
		B) Seed sowing of Pilu (Salvadorapersica) and Desi baval (Acacia nilotica.)		
(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	(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 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)	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)	Silvicultural & other activities	Only afforestation aimed plantation will be taken up, as the area falls under degraded forest land.			


(Ravirajsinh V. Rathod)
 Dy.Conservator of Forests
 Gandhinagar Forest Division
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The Compensatory Afforestation scheme at the cost of **Rs. 8,15,899/-** is technically and administrative approved by the undersigned.


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 Dy.Conservator of Forests
 Gandhinagar Forest Division
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Dt. 19/12/2025

Sub :- Diversion of 0.47892 ha. Protected Forest land for laying 8" dia steel gas pipeline connectivity for (1) Maruti Nandan CNG Station to Kanubhai Rabari SGL CNG station Ta. Dehgam (2) Bilasiya Bus Stand to Kanubhai Rabari CNG Station Dehgam Ta. Gandhinagar Dist. Gandhinagar. (Total 0.47892 Ha.)

Daily wages Rs. 486.50

Spacemnts = 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	Qty.	Labour	Material	Total
1	2	3	4	5
0 year				
Nursery				
(a) Cost of soil, manure, seeds, water, fertillizer, insecticides, implements, rent of lands. Shade, etc. (including 10 % for casualty replacement)	1222	0	2870	2870
(b) labour : Preparation of beds, filling and arranging of bags, showing of seeds, watering shifting, weeding etc.	1222	7018	363	7381
(c) Seedling cost for casualty replacement in one year old (20%)	222	2216	663	2880
(d) Seedling cost for casualty replacement in two year old (10%)	111	1111	330	1441
Total		10345	4227	14572
2. Area Development (Land Preparation)				
(a) Survey, cutback and promotion of root suckers		5274	0	5274
(b) Aligment and digging of pits 0.45 X 0.45 X 0.45	1111@ 6.00	15228	0	15228
Total		20502	0	20502
(a) Natural fertilizer (Neem cake/ Castor cake)	1111 @ 5.00	0	15533	15533
Total		0	15533	15533
3. SMC Works				
(a) Check wall/ retaining wall /checkdem (all pucca only)	L.S.	18733	37186	55920
(b) Contour trench 2 M x 45 Cm x 30 Cm as per Rs. 17.00/rmt (300 trench)	600 rmt.	14259	0	14259
Total		32993	37186	70179
4. Protection				
(a) Barbed wire fencing	Rmt. 450	17963	161661	179624
(b) Seed sowing and planting of cuttings of Ipomea/ Glaricidia along the fence		1739	747	2486
Total		19701	162408	182110
Sub Total of 0 year				
		83541	219355	302896
1st Year				
(a) Maintenance of nursery (April to June)	1222	5384	536	5920
(b) Transport of seedling for plantation	1111	2954	610	3564
(c) Planting with khamna of Min 1 m dia	1111	9077	0	9077
(d) Transport of seediling for casualty replacement	111	315	71	386
(e) 3 weeding cum soil working	1111	35382	0	35382

Support watering 5 times @ 3.25		22617	32454	55071
(a) Protection / tending operation		7320	0	7320
(b) Tending to natural vegetation		1830	0	1830
(c) Contingency		0	1830	1830
Total for 1st year		84878	35501	120380
2nd Year				
(a) 2 weeding & soil working		19651	0	19651
(b) 20 % Casually replcement, transport and planting	111+111	330	1645	1975
(c) Natural fertilizer (neem cake / caster cake) etc.	Rs.5/ plant	0	18357	18357
(d) Support watering 3 times @ 3.25		14697	21094	35791
(e) Protection / tending operation		7930	0	7930
Total for 2nd year		42608	41096	83704
3rd Year				
(a) 2 weeding & soil working		21163	0	21163
(b) 10 % Casually replcement, transport and planting	111	178	887	1065
(c) Natural fertilizer, neem cake etc.	Rs.5/ plant	0	19768	19768
(d) Support watering 1 times @ 3.25		5277	7572	12849
(e) Protection & maintenance of fencing / tending operation	L.S.	10676	0	10676
Total for 3rd year		37293	28227	65520
4thYear				
(a) 1 weeding & soil working		11336	0	11336
(b) Protection & Maintenance of fencing/ Tending operation	L.S.	11438	0	11438
Total for 4th year		22775	0	22775
5thYear				
Protection & maintenance of fencing/ tending operation	L.S.	12201	0	12201
Total for 5th year		12201	0	12201
6thYear				
Protection & maintenance of fencing/ tending operation	L.S.	12963	0	12963
Total for 6th year		12963	0	12963
7thYear				
Protection & maintenance of fencing/ tending operation	L.S.	13726	0	13726
Total for 7th year		13726	0	13726
8thYear				
Protection & maintenance of fencing/ tending operation	L.S.	14488	0	14488
Total for 8th year		14488	0	14488
9thYear				
Protection & maintenance of fencing/ tending operation	L.S.	15251	0	15251
Total for 9th year		15251	0	15251
10thYear				
Protection & maintenance of fencing/ tending operation	L.S.	16013	0	16013
Total for 10th year		16013	0	16013
SUB TOTAL :		355737	324178	679916
The Cost of Supervision/subsequent silvicultureal Operations	20%	71147	64836	135983
		426885	389014	815899

ote :-

- 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.

The Total afforestation cost will be Rs. 8,15,899/-

(1 Ha. cost) Rs.815899 X 01.00 Ha. = Total Cost Rs. : 8,15,899/-


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