

Compensary Afforestation Scheme for Non Forest area

Proposal for Diversion of 4.599 Ha For Construct Rajkot-Kalavad-Khatiya-Khambhaliya road SH-23 Jamnagar District section missing link of Khatiya Macchilivad road Ch.00/00 to ch 17/200 of Jamnagar District of Gujarat State

Detailed scheme of Compensatory Afforestation for degraded area 4.599 ha. to be carried out in lieu of 4.599 ha. of Protected forest land to be diverted in devbhumi dwaraka district.

1. Details of degraded land.

District	Taluka	Range	Village	Survey No.	Area
Jamnagar	Lalpur	Lalpur	Rakka	New 290 (old 160Pt1)	4.599

2. Description of Area.

Soil type	Marraimy, Hard Mormy
Topography	Plain
Slope	Gentle
Whether the area is bearing any root stock of Vegetation	Most of the area is Degreeded

3. Name of Plantation Programme:-

Compensatory Afforestation Scheme for Non Forest Area.

4. Schedule of Plantation Programme:-

(i)	The Compensatory Afforestation on degraded area would be started by Dy.Conservator of Forest Jamnagar Division as early as possible after the proposal is formally approved.
(ii)	Compensatory Afforestation will be done in 4.599 ha. area. The total afforestation cost will be about Rs. 1978191/- Dy. executive engineer, R&B Sub Division Jamnagar 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 double

		land on degraded Forest Areas. The prevailing wage rate is 310.40 per day.		
b	Spacement	3 X 3 mtr., 1111 plants per ha.		
c	Species to be planted (No. of plants per ha.)	Kanji	200	Minimum planting height will be about 65 cm. at the time of planting. However it will vary for different species
		Kadayo	100	
		Neem	200	
		Gunda	100	
		Gundi	111	
		Ardusa	200	
		Garmalo	100	
		Khakhra	100	
		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 using The loose stone available in the area will be carried out as per requirement. Seeds of Acacia and thorny 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 thorny Spp. 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, 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 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	promotion of root suckers.
n	Silviculture & other activities	Only afforestation aimed plantation will be taken up, as the area falls under degraded forest land.


Dy. Conservator of Forest
Jamnagar Forest Division
jamnagar

The Compensatory Afforestation scheme at the cost of Rs.1978191/- is technically and administrative approved by the undersigned.


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Jamnagar District of Gujarat State

Daily wages Rs. 310.4

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	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	1831	1831
(b) labour : Preparation of beds, filling and arranging of bags,showing of seeds, watering shifting, weeding etc.	1222	4478	232	4710
(c) Seedling cost for casualty replacement in one year old (20%)	222	1414	423	1837
(d) Seedling cost for casualty replacement in two year old (10%)	111	709	211	920
Total		6600	2697	9297
2. Area Development (Land Preparation)				
(a) Survey, cutback and promotion of root suckers		3365	0	3365
(b) Aligment and digging of pits 0.45 X 0.45 X 0.45	1111@ 6.00	9716	0	9716
Total		13081	0	13081
(a) Natural fertilizer (Neem cake/ Castor cake)	1111 @ 5.00	0	9910	9910
Total		0	9910	9910
3. SMC Works				
(a) Check wall/ retaining wall /checkdem (all pucca only)	L.S.	11952	23726	35678
(b) Contour trench 2 M x 45 Cm x 30 Cm as per Rs.17.00/rmt (300 trench)	600 rmt.	9098	0	9098
Total		21050	23726	44776
4. Protection				
(a) Barbed wire fencing	L.S.	3568	35678	39246

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(b) Seed sowing and planting of cuttings of Ipomea/ Glaricidia along the fence		1109	477	1586
Total				
Sub Total of 0 year		4677	36155	40832
1st Year		45409	72488	117897
(a) Maintenance of nursery (April to June)				
(b) Transport of seedling for plantation	1222	3435	342	3777
(c) Planting with khamna of Min 1 m dia	1111	1884	389	2274
(d) Transport of seedling for casualty replacement	1111	5791	0	5791
(e) 3 weeding cum soil working	111	201	45	247
(f) Support watering 5 times @ 3.25	1111	22575	0	22575
(g) Protection / tending operation		14430	20706	35137
(h) Tending to natural vegetation		4671	0	4671
(i) Contingency		1168	0	1168
		0	1168	1168
Total for 1st year		54155	22651	76805
2nd Year				
(a) 2 weeding & soil working		12538	0	12538
(b) 20 % Casually replcement, transport and planting	111+111	211	1049	1260
(c) Natural fertilizer (neem cake / caster cake) etc.	Rs.5/ plant	0	11712	11712
(d) Support watering 3 times @ 3.25		9377	13459	22836
(e) Protection / tending operation		5060	0	5060
Total for 2nd year		27185	26220	53405
3rd Year				
(a) 2 weeding & soil working		13503	0	13503
(b) 10 % Casually replcement, transport and planting	111	114	566	680
(c) Natural fertilizer, neem cake etc.	Rs.5/ plant	0	12612	12612
(d) Support watering 1 times @ 3.25		3367	4831	8198
(e) Protection & maintenance of fencing / tending operation	L.S.	6811	0	6811
Total for 3rd year		23794	18009	41803
4thYear				
(a) 1 weeding & soil working		7233	0	7233
(b) Protection & Maintenance of fencing/ Tending operation	L.S.	7298	0	7298
Total for 4th year		14531	0	14531
5thYear				
Protection & maintenance of fencing/ tending operation	L.S.	7784	0	7784
Total for 5th year		7784	0	7784

6thYear				
Protection & maintenance of fencing/ tending operation	L.S.	8271	0	8271
Total for 6th year		8271	0	8271
7thYear				
Protection & maintenance of fencing/ tending operation	L.S.	8757	0	8757
Total for 7th year		8757	0	8757
8thYear				
Protection & maintenance of fencing/ tending operation	L.S.	9244	0	9244
Total for 8th year		9244	0	9244
9thYear				
Protection & maintenance of fencing/ tending operation	L.S.	9730	0	9730
Total for 9th year		9730	0	9730
10thYear				
Protection & maintenance of fencing/ tending operation	L.S.	10217	0	10217
Total for 10th year		10217	0	10217
SUB TOTAL :		219077	139369	358446
The Cost of Supervision/subsequential silvicultureal Operations	20%	43815	27874	71689
		262892	167242	430135

Note :-

- (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.

1 Ha cost, Rs. 430135 X 4.599 Ha. = Total Cost Rs. :1978191/-

(R.B.Parsana)

Dy.Conservator of Forest
Jamnagar Forest Division
Jamnagar