

Compensary Afforestation Scheme for double degraded area

Proposal for diversion of protected forest land for the project of widening and Strengthening of Surat Dhuliya road (Missing Link- Bajipura to Sumul Dairy) Ch. Km 50/780 to 52/930, Ta-Vyara, Dist. Tapi in Gujarat state.

Detailed scheme of Compensatory Afforestation for degraded area 5.00 ha. to be carried out in lieu of 2.08 ha. of Protected forest land to be diverted in Surat district.

1. Details of degraded land.

Village	Amarkui
Taluka	Mangrol
Range	Vankal
District	Surat
Division	Surat
Block/ Patal, Compartment No.	574/101
Area to be afforested	5.00 Ha.
Working circle	Plantation

2. Description of Area.

Soil type	Black & Starey
Topography	Plain
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 Dy.Conservator of Forest Surat 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. 28,80,000/- Executive Engineer, Tapi R&B Div. Vyara 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 land on degraded Forest Areas. The prevailing wage rate is 324.50 per day.																											
b	Spacement	3 X 3 mtr., 1111 plants per ha.																											
c	Species to be planted (No. of plants per ha.)	<table> <tr> <td>Khair</td><td>200</td><td>70cm</td></tr> <tr> <td>Teak</td><td>300</td><td>90cm</td></tr> <tr> <td>Bamboo</td><td>100</td><td>65cm</td></tr> <tr> <td>Bahedo, Herde, Aritha</td><td>100</td><td>90cm</td></tr> <tr> <td>Haldu, Sadad, Arjun Sadad</td><td>100</td><td>90cm</td></tr> <tr> <td>Bhilamo, Kadayo, Sadad, Tandol etc.</td><td>100</td><td>75cm</td></tr> <tr> <td>Albizzia, Ficus, Jamun, Anjan, Neem, etc.</td><td>100</td><td>75cm</td></tr> <tr> <td>Bordi, Karanj, Khakhro & others</td><td>111</td><td>75cm</td></tr> <tr> <td>Total</td><td>1111</td><td></td></tr> </table>	Khair	200	70cm	Teak	300	90cm	Bamboo	100	65cm	Bahedo, Herde, Aritha	100	90cm	Haldu, Sadad, Arjun Sadad	100	90cm	Bhilamo, Kadayo, Sadad, Tandol etc.	100	75cm	Albizzia, Ficus, Jamun, Anjan, Neem, etc.	100	75cm	Bordi, Karanj, Khakhro & others	111	75cm	Total	1111	
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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 Werks	<p>(i) Pucca structure like Check dam, check wall, retaining wall</p> <p>(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.</p>																											
h	Protection Trench	Barbed wire fencing, Seed sowing And planting of cuttings of Ipomea/ Glarcidia along the fence																											
i	Silvicultural Operations	<p>1st year three weeding soil working, Support watering will be provided if needed.</p> <p>2nd year two weeding soil working.</p> <p>3rd year one weeding soil working.</p>																											

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	<p>(i) A plantation register is to be maintained.</p> <p>(ii) Monitoring is to be done as per the following norms.</p> <p>Forester – 100%</p> <p>RFO – 100%</p> <p>ACF – 20%</p> <p>DCF – 10%</p> <p>(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.</p> <p>(iv) The collar girth is also to be reordered at the end of each year.</p> <p>(v) At the end of maintenance period, the area is aimed at full stocking and pole crop girth for all the species, except bamboo.</p> <p>(vi) Bamboo would be of the harvestable size by the end of 4th year.</p> <p>(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.</p>
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.


 (Puneet Nayyar)
 Dy. Conservator of Forest
 Surat

The Compensatory Afforestation scheme at the cost of Rs. 28,80,000/- is technically and administrative approved by the undersigned.


 (Puneet Nayyar)
 Dy. Conservator of Forest
 Surat

Model No - 3

Annexure-4 (1)

Compensatory Afforestation Scheme for double degradation areas & Non Forest

Daily wages Rs.324.50

Spacemts = 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, fertilizer, insecticides, implements, rent of lands. Shade, etc. (including 10 % for casualty replacement)	1222	0	1913	1913
(b) labour : Preparation of beds, filling and arranging of bags, showing of seeds, watering shifting, weeding etc.	1222	4681	242	4923
(c) Seedling cost for casualty replacement in one year old (20%)	222	1480	442	1922
(d) Seedling cost for casualty replacement in two year old (10%)	111	741	220	961
Total		6902	2817	9719
2. Area Development (Land Preparation)				
(a) Survey, cutback and promotion of root suckers		3517	0	3517
(b) Aligment and digging of pits 0.45 X 0.45 X 0.45	1111@ 6.00	10157	0	10157
Total		13674	0	12974
(a) Natural fertilizer (Neem cake/ Castor cake)	1111 @ 5.00	0	10360	10360
Total		0	10360	10360
3. SMC Works				
(a) Check wall/ retaining wall /checkdem (all pucca only)	L.S.	12495	24804	37299
(b) Contour trench 2 M x 45 Cm x 30 Cm as per Rs.17.00/rmt (300 trench)	600 rmt.	9511	0	9511
Total		22006	24804	46810

4. Protection				
(a) Barbed wire fencing	L.S.	3730	37299	41029
(b) Seed sowing and planting of cuttings of Ipomea/ Glaricidia along the fence		1160	499	1659
Total		4890	37798	42688
Sub Total of 0 year		47472	75779	123251
1st Year				
(a) Maintenance of nursery (April to June)	1222	3519	358	3877
(b) Transport of seedling for plantation	1111	19438	407	19845
(c) Planting with khamna of Min 1 m dia	1111	6054	0	6054
(d) Transport of seedling for casualty replacement	111	210	46	256
(e) 3 weeding cum soil working	1111	24654	0	24654
(f) Support watering 5 times @ 3.25		15086	21646	36732
(g) Protection / tending operation		4861	0	4861
(h) Tending to natural vegetation		1220	0	1220
(i) Contingency		0	1220	1220
(j) Barbed Wire fencing (410/- Per Meter)	205 RM	33620	50430	84050
Total for 1st year		108662	74107	182769
2nd Year				
(a) 2 weeding & soil working		13245	0	13245
(b) 20 % Casually replcement, transport and planting	111+111	220	1097	1317
(c) Natural fertilizer (neem cake / caster cake) etc.	Rs.5/ plant	0	12243	12243
(d) Support watering 3 times @ 3.25		9802	14071	23873
(e) Protection / tending operation		5290	0	5290
Total for 2nd year		28557	27411	55968
3rd Year				
(a) 2 weeding & soil working		13979	0	13979
(b) 10 % Casually replcement, transport and planting	111	118	591	709
(c) Natural fertilizer, neem cake etc.	Rs.5/ plant	0	13422	13422
(d) Support watering 1 times @ 3.25		3520	5050	8570
(e) Protection & maintenance of fencing / tending operation	L.S.	9141	0	9141
Total for 3rd year		26758	19063	45821

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4thYear				
(a) 1 weeding & soil working		7720	0	7720
(b) Protection & Maintenance of fencing/ Tending operation	L.S.	7629	0	7629
Total for 4th year		15349	0	15349
5thYear				
Protection & maintenance of fencing/ tending operation	L.S.	8138	0	8138
Total for 5th year		8138	0	8138
6thYear				
Protection & maintenance of fencing/ tending operation	L.S.	8646	0	8646
Total for 6th year		8646	0	8646
7thYear				
Protection & maintenance of fencing/ tending operation	L.S.	9155	0	9155
Total for 7th year		9155	0	9155
8thYear				
Protection & maintenance of fencing/ tending operation	L.S.	9663	0	9663
Total for 8th year		9663	0	9663
9thYear				
Protection & maintenance of fencing/ tending operation	L.S.	10172	0	10172
Total for 9th year		10172	0	10172
10thYear				
Protection & maintenance of fencing/ tending operation	L.S.	10681	0	10681
Total for 10th year		10681	0	10681
SUB TOTAL :		283253	196360	479613
The Cost of Supervision/subsequential silvicultureal Operations	20%	56651	39272	95923
		339904	235632	575536
		SAY		5,76,000

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 5.00 ha. Area.
The Total afforestation cost will be Rs. 28,80,000/-

Total Cost Rs. :28,80,000/-


(Puneet Nayyar)
Dy. Conservator of Forest
Surat


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Statement showing the details of degraded forest area identified
for the Compensation for afforestation.

Sr. No	Dist.	Taluka	Village	Compt. No	Total area ha.	Area in degrade d forest in other scheme ha.	Area under this scheme ha.	Balance area. ha.
1	2	3	4	5	6	7	8	9
1	Surat	Mangrol	Amarkui	574/101	187.28	5.00	5.00	177.28

Date: 17/06/2021
Place: SURAT


(Puneet Nayyar)
Dy. Conservator of Forests
Surat.

CERTIFICATE

This is to Certify that the Compensatory Afforestation Scheme of 5.00 ha. (Double area of diverted area 2.08 ha) received from the **The Executive Engineer, Tapi R&B Div. Vyara** has given an undertaking to pay the cost of Compensatory Afforestation as per the prevailing wages (including the price escalation and supervision charges).


The Scheme in Question has been checked and found correct as per the prevailing wage rate structure and approved Model No-3 of plantation.

The Compensatory Afforestation has to be carried out in **R.F.Compt. No. Pt. of Village Amarkui, Taluka, Mangrol, Range : Vankal of Surat division at the cost of Rs. 28,80,000/- (In words Twenty Eight lakh Eighty thousand rupees Only).**

There of the Compensatory afforestation Scheme in question here by technically approved by the undersigned.

Date: 17/06/2021

Place: Surat


(Punet Nayyar)
Dy. Conservator of Forests
Surat


Annexure- 21

LAND SUITABILITY CERTIFICATE

This is to certify that I have visited 187.28 ha. area of degraded RF forest (for taking up 5.00 Ha. Of CA), of block No - / Comptt. No/ Survey No.-574/101 of Village- Amarkui, Taluka- Mangrol, District Surat on Date-17/06/201 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 2.08 ha. Of 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.

Date: 17/06/2021

Place: Surat


(Punet Nayyar)
Dy. Conservator of Forests
Surat.

Geo Reference Map

Legend

- CA Area 5.00 ha
- GPS Coordinates

21°29'32.39"N, 73°18'48.18"E

21°29'29.68"N, 73°18'40.48"E

21°29'26.23"N, 73°18'53.63"E

21°29'22.95"N, 73°18'50.66"E

Handwritten signature
01/5/21

Handwritten signature
By. Conservator of Forests
Surat

Google Earth

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200 m

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