

Annexure- 18

Details of non-forest land/degraded forest area identified for Compensatory Afforestation viz. Survey No./Compartment No./ Khasra No./ Khatoni No, Village, Tehsil, District etc. along with map in appropriate scale showing the boundaries of adjoining forest areas with their use in distinct colors and GPS readings

Sr No	Division	Range	Village	Survey No	Area	G.P.S	
1	Bhavnagar	Vallabhipur	Limbadiya	85	1	21.901452	71.444905

Place: Bhavnagar.
Date: 30/08/2022

(S.S. Mujawar)
Deputy Conservator of Forests
Bhavnagar Forest Division
Bhavnagar



● Proposed C.A. Land
I. H. V.

Date: 30/08/2022
Place: Bhavnagar

(Sadik S. Mujawar)
Deputy Conservator of Forests
Bhavnagar Forest Division
Bhavnagar

Annexure-19

Compensatory Afforestation Scheme for Degraded Forest area

Submission of Proposal for Grant Permission of Forest land for Drinking water and Visama Facility in Palitana Sr No.495 Ha.0.238 Dist.Bhavnagar

Detailed scheme of Compensatory Afforestation for Degraded Forest area 1.00 ha. To be carried out in lieu of 0.238 ha. Of Section-20 forest land to be diverted in Palitana Taluka Dist.Bhavnagar.

1. Details of Degraded Forest land.

District	Taluka	Range	Village	Survey No.	Area(Ha)
Bhavnagar	Gadhada	Vallabhipur	Limbadiya	85	1
Total					1

2. Description of Area.

Soil type	Black clay
Topography	More or less flat.
Slope	Gentle
Whether the area is bearing any root stock of Vegetation	Area covered with prosopis juliflora trees and other local trees.

3. Name of Plantation Programme:- Compensatory Afforestation Scheme for Degraded Forest Area.

4. Schedule of Plantation Programme:-

(i)	The Compensatory Afforestation on degraded area would be started by Deputy Conservator of Forest Bhavnagar Division as early as possible after the proposal is formally approved.
(ii)	Compensatory Afforestation will be done in 1 ha. Area. The total afforestation cost will be about Rs. 7,40,211/- Sheth Anandji Kalyanji pedhi Ta.Palitana has given an undertaking to pay the cost of Compensatory Afforestation as per the prevailing wages (including the price escalation and supervision charges).

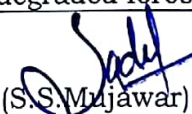
5. Technical Details:-

Technical details of Compensatory Afforestation are as Follows:

Sr. No.	Details	Specifications														
a	General Details	The C.A. will be taken under Compensatory Afforestation in degraded Forest Areas. The prevailing wage rate is 351.30 per day.														
b	Spa cement	3 X 3 mtr., 1111 plants per ha.														
c	Species to be planted (No. of plants per ha.)	<table> <tr> <th>Species</th><th>Number of Plants</th><td rowspan="5">Minimum planting height will be about 65 cm. at the time of planting. However it will vary for different species. 1111 Plants</td></tr> <tr> <td>Karanj</td><td>111</td></tr> <tr> <td>Pillu</td><td>300</td></tr> <tr> <td>Deshi baval</td><td>300</td></tr> <tr> <td>Uttmorad</td><td>400</td></tr> <tr> <td>Total</td><td>1111</td><td></td></tr> </table>	Species	Number of Plants	Minimum planting height will be about 65 cm. at the time of planting. However it will vary for different species. 1111 Plants	Karanj	111	Pillu	300	Deshi baval	300	Uttmorad	400	Total	1111	
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Karanj	111															
Pillu	300															
Deshi baval	300															
Uttmorad	400															
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 0.30 x 0.30 x 0.30 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	<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 Acacia and thorny Etc. will be planted during monsoon in the upper side of nala as per suitability.</p>														
h	Protection Trench	Wire fencing, Seed sowing And planting of cuttings of thorny Spp. 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, thinning etc. (as per species specific requirement) will be carried out at the age as per prescribed in the working plan.														


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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. Forester – 100% RFO – 100% ACF – 20% 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 plantations in the sample selected, it will also be monitored by the third party selected for this purpose.</p>
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.


 (S.S. Mujawar)
 Deputy Conservator of Forests
 Bhavnagar Forest Division
 Bhavnagar

The Compensatory Afforestation scheme at the cost of Rs. 7,40,211/- is technically and administrative approved by the undersigned.

T.S & A.S Approved Sr. No. 03
Year 2022-23


 (S.S. Mujawar)
 Deputy Conservator of Forests
 Bhavnagar Forest Division
 Bhavnagar

Compansantory Afforestation Scheme

Sub :-Submission of Proposal for Grant Permition of Forest land for Drinking water and Visama Facility in Palitana Sr No.495 Ha.0.238 Dist.Bhavnagar

Daily wages Rs. 351.3

Spacements = 3 m x 3 m				
1111 seedling / Ha				
1st year replacement 10 % = 161 seedling /ha				
2nd year replacement 20 % = 161+161 seedling /ha				
3rd year replacement 10 % = 161 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 container,soil, ,manure, seeds, water, fartillizer, insecticides, implements, rent of lands. Shade, etc. (including 10 % for casualty replacement)	1222	0	2138	2138
(b) labour : Preparation of beds, filling and arranging of bags,showing of seeds, watering shifting, weeding etc.	1222	4811	0	4811
(c) Seedling cost for casualty replacement in one year old (20%)	222	2567	642	3208
(d) Seedling cost for casualty replacement in two year old (10%)	111	0	534	534
Total		7377	3314	10691
2. Area Development (Land Preparation)				
(a) Survey, cutback and promotion of root suckers		253	20	273
(b) Aligment and digging of pits 0.30 X 0.30 X 0.30	1111@ 5.70	10446	0	10446
Total		10699	20	10719
(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) Wire Fence	300 rmt	51900	207600	259500
(b) Seed sowing and planting of cuttings of Ipomea/ Glaricidia along the fence		1255	540	1795
Total		53155	208140	261295
Sub Total of 0 year		95056	249542	344598

1st Year				
(a) Maintenance of nursery (April to June)	1222	3887	387	4275
(b) Transport of seedling for plantation	1111	2133	441	2573
(c) Planting with khamna of Min 1 m dia	1111	6554	0	6554
(d) Transport of seedling for casualty replacement	111	228	51	279
(e) 3 weeding cum soil working	1111	25549	0	25549
(f) Support watering 5 times @ 3.25		16332	23435	39766
(g) Protection / tending operation		5286	0	5286
(h) Tending to natural vegetation		1322	0	1322
(i) Contingency		0	1322	1322
Total for 1st year		61290	25635	86926
2nd Year				
(a) 2 weeding & soil working		14190	0	14190
(b) 20 % Casually replcement, transport and planting	111+111	239	1188	1426
(c) Natural fertilizer (neem cake / caster cake) etc.	Rs.5/ plant	0	13255	13255
(d) Support watering 3 times @ 3.25		10612	15232	25845
(e) Protection / tending operation		5727	0	5727
Total for 2nd year		30767	29675	60442
3rd Year				
(a) 2 weeding & soil working		15282	0	15282
(b) 10 % Casually replcement, transport and planting	111	128	641	769
(c) Natural fertilizer, neem cake etc.	Rs.5/ plant	0	14274	14274
(d) Support watering 1 times @ 3.25		3810	5468	9278
(e) Protection & maintenance of fencing / tending operation	L.S.	7709	0	7709
Total for 3rd year		26929	20382	47312
4thYear				
(a) 1 weeding & soil working	250 rmt	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.	9361	0	9361
Total for 6th year		9361	0	9361

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.	10462	0	10462
Total for 8th year		10462	0	10462
9thYear				
Protection & maintenance of fencing/ tending operation	L.S.	11013	0	11013
Total for 9th year		11013	0	11013
10thYear				
Protection & maintenance of fencing/ tending operation	L.S.	11563	0	11563
Total for 10th year		11563	0	11563
SUB TOTAL :		291608	325235	616843
The Cost of Supervision/subsequential silvicultureal Operations	20%	58322	65047	123369
		349929	390282	740211

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.

G.A SCHEME FOR 1111 PLANTS 1 Ha cost, Rs. 740211 X 1 Ha. = Cost Rs. :740211/-

7,40,211/-

(Sadik S. M. Jawar)
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