

Compensary Afforestation Scheme for double degraded area

Details scheme of Compensatory Afforestation as per Chapter- 2.6(1) in the following cases, cost of plantation of ten time the number of tree likely to be felled or specified number of tree as may be specified in the order for diversion of forest land for degraded area 11.00 ha. to be carried out in lieu of **5.2725 ha.** of Protected forest land to be diverted in Bharuch District.

1. Details of degraded land.

Village	Vadpan(Anjoli)
Taluka	Netrang
Range	Netrang
District	Bharuch
Division	Sub Division Bharuch
Block/ Haldari, Compt No.	372(71)
Area to be afforested	11.00 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:-

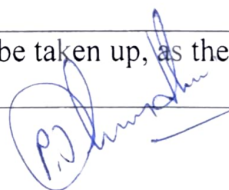
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|------|--|
| (i) | The Compensatory Afforestation on degraded area would be started by Asst.Conservator of Forest, Sub Division Bharuch as early as possible after the proposal is formally approved. |
| (ii) | Compensatory Afforestation will be done in 11.00 ha. area. The total afforestation cost will be about Rs.66,31,900/- Bharuch Urban Development Authority (BUDA) 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 340.20 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>Albizia, 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	Albizia, 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 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 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	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 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	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)

Asst. Conservator of Forest
Sub Division, Bharuch

The Compensatory Afforestation scheme at the cost of Rs. 66,31,900/- is technically and administrative approved by the undersigned.

Place:-Bharuch

Date:-02/12/2021



(P. J. Chaudhari)

Asst. Conservator of Forest
Sub Division, Bharuch

Model No - 3**Annexure-19****Annexure-4 (1)**

Penal Compensatory Afforestation Scheme for double degradation areas & Non Forest area acquired Under FCA Proposals.

Daily wages Rs.340.20

spacements = 3 m x 3 m

111 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
1st year				
Nursery				
a) Cost of soil, manure, seeds, water, fertilizer, insecticides, implements, rent of lands, Shade, etc. (including 10 % for casualty replacement)	1222	0	2006	2006
b) labour : Preparation of beds, filling and arranging of bags, sowing of seeds, watering shifting, weeding etc.	1222	4907	254	5161
c) Seedling cost for casualty replacement in one year (20%)	222	1552	463	2015
d) Seedling cost for casualty replacement in two year (10%)	111	777	231	1008
Total		7236	2954	10190
II. Area Development (Land Preparation)				
a) Survey, cutback and promotion of root suckers		3687	0	3517
b) Alignment and digging of pits 0.45 X 0.45 X 0.45	1111 @ 6.00	10648	0	10648
Total		14335	0	12974
a) Natural fertilizer (Neem cake/ Castor cake)	1111 @ 5.00	0	10861	10861
Total		0	10861	10861
III. SMC Works				
a) Check wall/ retaining wall /checkdam (all pucca only)	L.S.	13100	26004	39104
b) Contour trench 2 M x 45 Cm x 30 Cm as per Rs.17.00/rmt (300 trench)	600 rmt.	9971	0	9971
Total		23071	26004	49075

Seedlings				
Blaricidia along the fence				
Total		5126	39627	44753
Sub Total of 0 year		49768	79446	129214
1st Year				
a) Maintenance of nursery (April to June)	1222	3689	375	4064
b) Transport of seedling for plantation	1111	20378	427	20805
c) Planting with khamna of Min 1 m dia	1111	6347	0	6347
d) Transport of seedling for casualty replacement	111	220	48	268
e) 3 weeding cum soil working	1111	25847	0	25847
f) Support watering 5 times @ 3.25		15816	22693	38509
g) Protection / tending operation		5096	0	5096
h) Tending to natural vegetation		1279	0	1279
i) Contingency		0	1279	1279
j) Barbed Wire fencing (410/- Per Meter)	205 RM	35247	52870	84050
Total for 1st year		113919	77692	187544
2nd Year				
a) 2 weeding & soil working		13886	0	13886
b) 20 % Casually replcement, transport and planting	111+111	231	1150	1381
c) Natural fertilizer (neem cake / caster cake) etc.	Rs.5/ plant	0	12835	12835
d) Support watering 3 times @ 3.25		10276	14752	25028
e) Protection / tending operation		5546	0	5546
Total for 2nd year		29939	28737	58676
3rd Year				
a) 2 weeding & soil working		14655	0	14655
b) 10 % Casually replcement, transport and planting	111	124	620	744
c) Natural fertilizer, neem cake etc.	Rs.5/ plant	0	14071	14071
d) Support watering 1 times @ 3.25		3690	5294	8984
e) Protection & maintenance of fencing / tending operation	L.S.	9583	0	9583
Total for 3rd year		28052	19985	48037

4thYear				
a) 1 weeding & soil working		8094	0	8094
b) Protection & Maintenance of fencing/ Tending operation	L.S.	7998	0	7998
Total for 4th year		16092	0	16092
5thYear				
Protection & maintenance of fencing/ tending operation	L.S.	8532	0	8532
Total for 5th year		8532	0	8532
6thYear				
Protection & maintenance of fencing/ tending operation	L.S.	9064	0	9064
Total for 6th year		8646	0	9064
7thYear				
Protection & maintenance of fencing/ tending operation	L.S.	9598	0	9598
Total for 7th year		9598	0	9598
8thYear				
Protection & maintenance of fencing/ tending operation	L.S.	10131	0	10131
Total for 8th year		10131	0	10131
9thYear				
Protection & maintenance of fencing/ tending operation	L.S.	10664	0	10664
Total for 9th year		10664	0	10664
10thYear				
Protection & maintenance of fencing/ tending operation	L.S.	11198	0	11198
Total for 10th year		11198	0	11198
		296539	205860	502399
SUB TOTAL :				
The Cost of Supervision/subsequential silvicultural Operations	20%	59308	41172	100480
		355847	247032	602879
		SAY		602900

Note :-

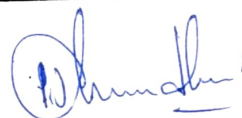
- 1) Seed sowing along fencing towards the inner side, and also in the plot.
- 2) Planting of cutting of ipomea//Glaricidia along the fencing towards outer side.

1.00 ha afforestation cost will be Rs. 6,02,900/-

Annual Compensatory afforestation will be done in 11.00 ha. Area.

The Total afforestation cost will be Rs. 66,31,900/-

Total Cost Rs. : 66,31,900/-



(P. J. Chaudhari)

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