

Annexure-19

Compensary Afforestation Scheme for double degraded area

Diversion of 12.25 Ha. Protected Forest land for Widening of existing Visnagar-Vijapur road SH-130 in Ta.Visnagar & Vijapur of Mehsana District in favour of Executive Engineer, Mehsana (R & B) Division Mehsana.

Detailed scheme of Compensatory Afforestation for degraded area 25.00 ha. to be carried out in lieu of 12.25 ha. of Protected forest land to be diverted in Mehsana district.

1. Details of degraded land.

Village	Panthal
Taluka	Khedbrahma
Range	RDF Khedbrahma
District	Sabarkantha
Division	Sabarkantha Normal
Block/ Patal, Compartment No.	54
Area to be afforested	25.00 Ha.
Working circle	

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.

Schedule of Plantation Programme:-

4.

(i)	The Compensatory Afforestation on degraded area would be started by Dy.Conservator of Forest Sabarkantha Division as early as possible after the proposal is formally approved.
(ii)	Compensatory Afforestation will be done in 25.00 ha.area. The total afforestation cost will be about
(iii)	Rs.10,75,3275/-Executive Engineer, R&B Division Mehsana,has given an undertaking to pay the cost of Compensatory Afforestation as per the prevailing wages (including the price escalation and supervision charges).


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.)	<table border="1"> <tr> <td>Khair</td><td>250</td><td rowspan="12">Minimum planting height will be 100 cm. at the time of planting. However it will vary for different species.</td></tr> <tr> <td>Kanji</td><td>150</td></tr> <tr> <td>Kadaya</td><td>101</td></tr> <tr> <td>Salai</td><td>70</td></tr> <tr> <td>Gunda</td><td>70</td></tr> <tr> <td>Bael</td><td>100</td></tr> <tr> <td>Bamboo</td><td>70</td></tr> <tr> <td>Ardusa</td><td>75</td></tr> <tr> <td>Ragat Royado</td><td>100</td></tr> <tr> <td>Garmalo</td><td>75</td></tr> <tr> <td>kakhro, Dudh Kadi</td><td>50</td></tr> <tr> <td>Total</td><td>1111</td></tr> </table>	Khair	250	Minimum planting height will be 100 cm. at the time of planting. However it will vary for different species.	Kanji	150	Kadaya	101	Salai	70	Gunda	70	Bael	100	Bamboo	70	Ardusa	75	Ragat Royado	100	Garmalo	75	kakhro, Dudh Kadi	50	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	(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, small chekdem, Van Talavadi using The loose stone available in the area will be carried out as per requirement. Seeds of Jatropa, Agave plants ...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 Ipomea/Glarcidia along the fence																									
i	Silvicultural Operations	1 st year three weeding soil working, Support watering will be provided if needed.																									

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		2 nd year two weeding soil working. 3 rd year one weeding soil working.
	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. 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 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.


 Dy. Conservator of Forest
 Sabarkantha, Himatnagar

The Compensatory Afforestation scheme at the cost of Rs.10,75,3275/- is technically and administrative approved by the undersigned.


 Dy. Conservator of Forest
 Sabarkantha, Himatnagar

Compensatory Afforestation Scheme for double degraded area under FCA proposal
 Diversion of 12.25 Ha. of Protected Forest Land of Road Widening of existing Visnagar-Vijapur road SH-130 in
 Ta.Visnagar & Vijapur of Mehsana (R & B) Division Mehsana. (C.A. 25.00 Ha.)

Daily wages Rs.310.40

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	1830	1830
(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	1415	422	1837
(d) Seedling cost for casualty replacement in two year old (10%)	111	708	210	918
Total		6601	2694	9295
2. Area Development (Land Preparation)				
(a) Survey, cutback and promotion of root suckers		3365	0	3365
(b) Alignment and digging of pits 0.45 X 0.45 X 0.45	1111 @ 6.00	9715	0	9715
Total		13080	0	13080
(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.	11953	23726	35679
(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		21051	23726	44777
4. Protection				
(a) Barbed wire fencing	L.S.	3567	35679	39246
(b) Seed sowing and planting of cuttings of Ipomea/ Glaricidia along the fence		1110	476	1586
Total		4677	36155	40832
Total for 0 year		45409	72485	117894
1st Year				
(a) Maintenance of nursery (April to June)	1222	3434	343	3777
(b) Transport of seedling for plantation	1111	1884	389	2273
(c) Planting with khamna of Min 1 m dia	1111	5792		5792
(d) Transport & planting of seedling for casualty replacement	111	202	44	246
(e) 3 weeding cum soil working	1111	22574		22574
(f) Support watering 5 times @ 3.25		14430	20706	35136
(g) Protection / tending operation		4670	0	4670
(h) Tending to natural vegetation		1168	0	1168
(i) Contingency		0	1170	1170
Total for 1st year		54154	22652	76806

Item of work	Qty.	Labour	Material	Total
2nd Year				
(a) 2 weeding & soil working		12537	0	12537
(b) 20 % Casually replcement, transport and planting	111+111	211	1050	1261
(c) Natural fertilizer (neem cake / caster cake) etc.	Rs.5/ plant	0	11713	11713
(d) Support watering 3 times @ 3.25		9377	13459	22836
(e) Protection / tending operation		5060	0	5060
Total for 2nd year		27185	26222	53407
3rd Year				
(a) 2 weeding & soil working		13502	0	13502
(b) 10 % Casually replcement, transport and planting	111	113	566	679
(b) Natural fertilizer, neem cake etc.	Rs.5/ plant	0	12613	12613
(c) Support watering 1 times @ 3.25		3367	4831	8198
(d) Protection & maintenance of fencing / tending operation	L.S.	6811	0	6811
Total for 3rd year		23793	18010	41803
4thYear				
(a) 1 weeding & soil working		7232	0	7232
(b) Protection & Maintenance of fencing/ Tending operation	L.S.	7298	0	7298
Total for 4th year		14530	0	14530
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
Grand Total		219074	139369	358443
Total Cast of supervision/subsequentalsilviculture oprations	20%	43815	27873	71688
Grand Total		262889	167242	430131

Note :-

- (1) Seed sowing along fencing towards the inner side.
- (2) Planting of cutting of ipomea//Glarcidia along the fencing towards outer side


Dy. Conservator of Forests
Sabarkantha Himatnagar.