

Annexure-19

Compensary Afforestation Scheme for double degraded area

Diversion of 13.91 Ha. Forest land for non forest purpose in protected forest land for widening of Himmatnagar-Llol-Davad-Deshotal Road in Taluka Idar Himmatnagar District Sabarkantha.

Detailed scheme of Compensatory Afforestation for degraded area 28.00 ha. to be carried out in lieu of 13.91 ha. of Protected forest land to be diverted in Sabarkantha district.

1. Details of degraded land.

Village	Suvarchar
Taluka	Malpur
Range	Malpur
District	Aravalli
Division	Aravalli Normal
Block/ Patal, Compartment No.	23 pt
Area to be afforested	28.00 Ha.
Working circle	AWC

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.

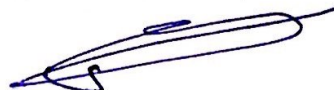
(i)	The Compensatory Afforestation on degraded area would be started by Dy.Conservator of Forest Aravalli Division as early as possible after the proposal is formally approved.
(ii)	Compensatory Afforestation will be done in 27.00 ha.area. The total afforestation cost will be about
(iii)	Rs. 13718477/- Executive Engineer, R& B division Himmatnagar is 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 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> <th>Species</th><th>Plant nos</th><th>Planting Species Hight (c.m)</th></tr> <tr> <td>Khair</td><td>200</td><td>65</td></tr> <tr> <td>Kanji</td><td>100</td><td>75</td></tr> <tr> <td>Kadaya</td><td>100</td><td>75</td></tr> <tr> <td>Salai</td><td>100</td><td>75</td></tr> <tr> <td>Gunda</td><td>50</td><td>75</td></tr> <tr> <td>Bael</td><td>100</td><td>65</td></tr> <tr> <td>Bamboo</td><td>101</td><td>90</td></tr> <tr> <td>Ardusa</td><td>50</td><td>90</td></tr> <tr> <td>Ragat Royado</td><td>100</td><td>50</td></tr> <tr> <td>Garmalo</td><td>100</td><td>65</td></tr> <tr> <td>kakhro,Dudh Kadi</td><td>100</td><td>50</td></tr> </table>	Species	Plant nos	Planting Species Hight (c.m)	Khair	200	65	Kanji	100	75	Kadaya	100	75	Salai	100	75	Gunda	50	75	Bael	100	65	Bamboo	101	90	Ardusa	50	90	Ragat Royado	100	50	Garmalo	100	65	kakhro,Dudh Kadi	100	50
Species	Plant nos	Planting Species Hight (c.m)																																				
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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,small chekdem, Van Talavadi 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.


 Dy. Conservator of Forest
 Aravalli Division
 Modasa

Model No - 3

Compensatory Afforestation Scheme for Dubble degraded area under FCA Proposal

Proposal for Diversion of 13.91 Ha. Forest land for non forest purpose in protected forest land for widening of Himmatnagar-Llol-Davad-Deshotal Road in Taluka Idar Himmatnagar District Sabarkantha.

Daily wages Rs.324.50

Spacemnts = 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.	1222	0	1913	1913
(b) labour : Preparation of beds, filling and arranging of	1222	4681	242	4923
(c) Seedling cost for casualty replacement in one year old (20%)	222	1478	442	1920
(d) Seedling cost for casualty replacement in two year old (10%)	111	740	220	960
Total		6899	2817	9716
2. Area Development (Land Preparation)				
(a) Survey, cutback and promotion of root suckers		3518	0	3518
(b) Aligment and digging of pits 0.45 X 0.45 X 0.45	1111 @ 6.00	10156	0	10156
Total		13674	0	13674
(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	600 rmt.	9512	0	9512
Total		22007	24804	46811
4. Protection				
(a) Barbed wire fencing (par Ha Rmt)	100	33569	41029	74598
(b) Seed sowing and planting of cuttings of Ipomea/ Glaricidia along the		1161	498	1659
Total		34730	41527	76257
Total for 0 year		77310	79508	156818
1st Year				
(a) Maintenance of nursery (April to June)	1222	3590	359	3949
(b) Transport of seedling for plantation	1111	1970	407	2377
(c) Planting with khamna of Min 1 m dia	1111	6055	0	6055
(d)Transport & planting of seedling for casualty replacement	111	210	46	256
(e) 3 weeding cum soil working	1111	23600	0	23600
(f) Support watering 5 times @ 3.25		15085	21647	36732
(g) Protection / tending operation		4883	0	4883
(h) Tending to natural vegetation		1220	0	1220
(i) Contingency		0	1220	1220

Polypot size : 15 cm X 25 cm X 200				
Total for 1st year		56613	23679	80292
2nd Year				
(a) 2 weeding & soil working		13108	0	13108
(b) 20 % Casually replcement, transport and planting	111+111	221	1097	1318
(c) Natural fertilizer (neem cake / caster cake) etc.	Rs.5/ plant	0	12243	12243
(d) Support watering 3 times @ 3.25		9803	14070	23873
(e) Protection / tending operation		5290	0	5290
Total for 2nd year		28422	27410	55832
3rd Year				
(a) 2 weeding & soil working		14116	0	14116
(b) 10 % Casually replcement, transport and planting	111	119	591	710
(b) Natural fertilizer, neem cake etc.	Rs.5/ plant	0	13185	13185
(c) Support watering 1 times @ 3.25		3520	5051	8571
(d) Protection & maintenance of fencing / tending operation	L.S.	7120	0	7120
Total for 3rd year		24875	18827	43702
4thYear				
(a) 1 weeding & soil working		7560	0	7560
(b) Protection & Maintenance of fencing/ Tending operation	L.S.	7629	0	7629
Total for 4th year		15189	0	15189
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
SubTotal		258864	149424	408288
Total cost of supervision/subsequent silvicultureal operations	20%	51773	29885	81658
Grand Total		310637	179309	489946

Note :-

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


Dy. Conservator of Forests
Aravalli Modasa

Proposal for Diversion of 13.91 Ha. Forest land for non forest purpose in protected forest land for widening of Himmatnagar-Lol-Davad-Deshotal Road in Taluka Idar Himmatnagar District Sabarkantha.

District Sabarkantha.																Daily wages Rs.324.50									
Name of works	Model No.	Area	Rate per	Amount										Total Rs.											
				0 Year	1st Year	2nd Year	3rd Year	4th Year	5th Year	6th Year	7th Year	8th Year	9th Year	10th Year	20%										
0 Year 70 % Adv.work. 1st Year Operation.	Model-3	28.00	156818	4390904	0	0	0	0	0	0	0	0	0	0	0	878181	5269085								
1st Year 30 % Advance work Current year plantation			80292	0	2248176	0	0	0	0	0	0	0	0	0	0	449635	2697811								
2nd Year operation Maintenance of one year old plantation.			55832	0	0	1563296	0	0	0	0	0	0	0	0	0	312659	1875955								
3rd Year operation Maintenance of 2 years old plantation.			43702	0	0	0	1223656	0	0	0	0	0	0	0	0	244731	1468387								
4th year operation Maint.Of 3 years old plantation.			15189	0	0	0	0	425292	0	0	0	0	0	0	0	85058	510350								
5th year operation Maint.Of 4 years old plantation.			8138	0	0	0	0	0	227864	0	0	0	0	0	0	45573	273437								
6th year operation Maint.Of 5 years old plantation.			8646	0	0	0	0	0	0	242088	0	0	0	0	0	48418	290506								
7th year operation Maint.Of 6 years old plantation.			9155	0	0	0	0	0	0	0	256340	0	0	0	0	51268	307608								
8th year operation Maint.Of 7 years old plantation.			9663	0	0	0	0	0	0	0	0	270564	0	0	0	54113	324677								
9th year operation Maint.Of 8 years old plantation.			10172	0	0	0	0	0	0	0	0	0	284816	0	0	56963	341779								
10th year operation Maint.Of 9 years old plantation.			10681	0	0	0	0	0	0	0	0	0	0	299068	0	59814	358882								
Total			408288	4390904	2248176	1563296	1223656	425292	227864	242088	256340	270564	284816	299068	2286413	13718477									

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