

Diversion of 5.5125 Ha. Of Road side Protected Forest land for Widening & Strengthening of MDR Road Sutrapada Fatak- Sutrapada Dhamlej road between km. 10/500 to 21/00 in Veraval & Sutrapada taluka of Gir-Somnath District in Gujarat State. FP/GJ/ROAD/152353/2022

Annexure-19

Compensatory Afforestation Scheme for double degraded area

Detailed scheme of Compensatory Afforestation for degraded area 11.00 ha. to be carried out in lieu of 5.5125 ha. of Protected forest land to be diverted in Morbi district.

1. Details of degraded land.

Village	Chumpani
Taluka	Halvad
Range	Morbi
District	Morbi
Division	Morbi
Block/ Patal, Compartment No.	12/11
Area to be afforested	11.00
Working circle	Planstation

2. Description of Area.

Soil type	Soft Morram / Stony
Topography	Plain
Slope	gentle
Whether the area is bearing any root stock of Vegetation	Sparse Vegetation

3. Name of Plantation Programme:-

Compensatory Afforestation Scheme for Degraded Forest Area.

4. Schedule of Plantation Programme:-

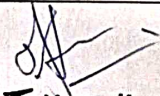
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|---|
| (i) The Compensatory Afforestation on degraded area would be started by Deputy Conservator of Forest Morbi Forest Division as early as possible after the proposal is formally approved. |
| (ii) Compensatory Afforestation will be done in 11.00 ha. area. The total afforestation cost will be about Rs.6463512/- Deputy Executive Engineer, R&B Sub Division Veraval. 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 border="1"> <tr> <td>Charel (Kanji)</td><td>2000</td><td rowspan="8">Minimum planting height will be 100 cm. at the time of planting. However it will vary for different species.</td></tr> <tr> <td>Desi baval</td><td>2000</td></tr> <tr> <td>Neem</td><td>2000</td></tr> <tr> <td>Bordi</td><td>1000</td></tr> <tr> <td>Harmo</td><td>2000</td></tr> <tr> <td>Khijdo</td><td>2000</td></tr> <tr> <td>Gugal</td><td>500</td></tr> <tr> <td>Other</td><td>721</td></tr> <tr> <td>Total</td><td>12221</td><td></td></tr> </table>	Charel (Kanji)	2000	Minimum planting height will be 100 cm. at the time of planting. However it will vary for different species.	Desi baval	2000	Neem	2000	Bordi	1000	Harmo	2000	Khijdo	2000	Gugal	500	Other	721	Total	12221	
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Total	12221																					
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 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.																				
h	Protection Trench	Barbed wire fencing, Thcr 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	<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.


(S.D. Kotadiya)
 Deputy. Conservator of Forest
 Morbi Forest Division, Morbi

The Compensatory Afforestation scheme at the cost of Rs. 6463512/- is technically and administrative approved by the undersigned.


(S.D. Kotadiya)
 Deputy. Conservator of Forest
 Morbi Forest Division, Morbi

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Rate structure of forest land of village : Chumpani ta. Halvad District : Morbi
Afforestation as per Add.pri.C.C.F. land, Gujarat State, Gandhinagar's letter no.
.Campa/31/B/4769-4838/Dt. 27/11/2019

Daily wages Rs. 340.00

Spacings = 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	2006	2006
(b) labour : Preparation of beds, filling and arranging of bags, showing of seeds, watering shifting, weeding etc.	1222	4905	254	5159
(c) Seedling cost for casualty replacement in one year old (20%)	222	1549	464	2013
(d) Seedling cost for casualty replacement in two year old (10%)	111	776	231	1007
Total		7230	2954	10184
2. Area Development (Land Preparation)				
(a) Survey, cutback and promotion of root suckers		3686	0	3686
(b) Alignment and digging of pits 0.45 X 0.45 X 0.45	1111 @ 17.00	18887	0	18887
Total		22573	0	22573
(a) Natural fertilizer (Neem cake/ Castor cake)	1111 @ 12.00	0	13332	13332
Total		0	13332	13332
3. SMC Works				
(a) Check wall/ retaining wall /checkdam (all pucca only) & Percolation tank	L.S.	32000	48000	80000
(b) Contour trench 2 M x 45 Cm x 30 Cm as per Rs.54.10 (300 trench)	300 Nos	16230	0	16230
Total		48230	48000	96230
4. Protection				
(a) Barbed wire fencing	184 rmt.@ 350	6440	57960	64400
(b) putting thorny bushes / thorn fencing	140 rmt.@ 64.90	11942	0	11942
Total		18382	57960	76342
Sub Total of 0 year		96415	122246	218661

1st Year				
(a) Maintenance of nursery (April to June)	1222	3762	375	4137
(b) Transport of seedling for plantation	1111	2064	426	2490
(c) Planting with khamna of Min 1 m dia	1111	6343	0	6343
(d) Transport of seedling for casualty replacement	111	220	50	270
(e) 3 weeding cum soil working	1111	24727	0	24727
(f) Support watering 5 times @ 8.00		17776	26664	44440
(g) Protection / tending operation		5116	0	5116
(h) Tending to natural vegetation		1279	0	1279
(i) Contingency		0	1279	1279
Total for 1st year		61289	28794	90082
2nd Year				
(a) 2 weeding & soil working		13733	0	13733
(b) 20 % Casually replcement, transport and planting	111+111	231	1149	1380
(c) Natural fertilizer (neem cake / caster cake) etc.	Rs.5/ plant	0	12829	12829
(d) Support watering 3 times @ 8.00		10666	15998	26664
(e) Protection / tending operation		5542	0	5542
Total for 2nd year		30172	29976	60149
3rd Year				
(a) 2 weeding & soil working		14790	0	14790
(b) 10 % Casually replcement, transport and planting	111	124	620	744
(c) Natural fertilizer, neem cake etc.	Rs.5/ plant	0	13815	13815
(d) Support watering 1 times @ 8.00		3555	5333	8888
(e) Protection & maintenance of fencing / tending operation	L.S.	7461	0	7461
Total for 3rd year		25930	19768	45698
4thYear				
(a) 1 weeding & soil working		7923	0	7923
(b) Protection & Maintenance of fencing/ Tending operation	L.S.	7994	0	7994
Total for 4th year		15916	0	15916
5thYear				
Protection & maintenance of fencing/ tending operation	L.S.	8527	0	8527
Total for 5th year		8527	0	8527
6thYear				
Protection & maintenance of fencing/ tending operation	L.S.	9060	0	9060
Total for 6th year		9060	0	9060
7thYear				
Protection & maintenance of fencing/ tending operation	L.S.	9592	0	9592
Total for 7th year		9592	0	9592

8thYear				
Protection & maintenance of fencing/ tending operation	L.S.	10125	0	10125
Total for 8th year		10125	0	10125
9thYear				
Protection & maintenance of fencing/ tending operation	L.S.	10658	0	10658
Total for 9th year		10658	0	10658
10thYear				
Protection & maintenance of fencing/ tending operation	L.S.	11191	0	11191
Total for 10th year		11191	0	11191
SUB TOTAL :		288876	200784	489660
The Cost of Supervision/subsequential silvicultureal Operations	20%	57775	40157	97932
		346651	240941	587592

Note :-

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

Compensatory afforestation will be done in 1.00 ha. Area.

1 Ha cost, Rs. 587592 X 11 Ha. = Total Cost Rs. :6463512/-


 (S. J. Kotadiya)
 Dy. Conservator of Forests
 Morbi Forest Division
 Morbi