

Diversion of 8.4 Ha. of Road side Protected Forest land for Widening & Strengthening of Talala to Ankolvadi road SH-98 between km. 69/000 to 53/000 in Talala taluka of Gir-Somnath District in Gujarat State. FP/GJ/ROAD/152422/2022

### Annexure-19

#### Compensatory Afforestation Scheme for double degraded area

Detailed scheme of Compensatory Afforestation for degraded area 17.00 ha. to be carried out in lieu of 8.4 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	17.00
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:-

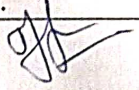
(i) The Compensatory Afforestation on degraded area would be started by Deputy Conservator of Forest Morbi Forest Division as early as possible after the proposal is formally approved.
(ii) Compensatory Afforestation will be done in 11.00 ha.area. The total afforestation cost will be about Rs.9811584/- 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	Spacing	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>3000</td><td rowspan="9">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>3000</td></tr> <tr> <td>Neem</td><td>3000</td></tr> <tr> <td>Bordi</td><td>2000</td></tr> <tr> <td>Harmo</td><td>3000</td></tr> <tr> <td>Khijdo</td><td>3000</td></tr> <tr> <td>Gugal</td><td>1000</td></tr> <tr> <td>Other</td><td>887</td></tr> <tr> <td><b>Total</b></td><td><b>18887</b></td></tr> </table>	Charel (Kanji)	3000	Minimum planting height will be 100 cm. at the time of planting. However it will vary for different species.	Desi baval	3000	Neem	3000	Bordi	2000	Harmo	3000	Khijdo	3000	Gugal	1000	Other	887	<b>Total</b>	<b>18887</b>
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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	( 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, Thor fencing, Seed sowing and planting of cuttings of Ipomea/Glarcidia along the fence																			
i	Silvicultural Operations	1 <sup>st</sup> year three weeding soil working, Support watering will be provided if needed. 2 <sup>nd</sup> year two weeding soil working. 3 <sup>rd</sup> year one weeding soil working.																			
j	Maintenance	It is proposed to maintain the Plantation up to ten years.																			
k	Subsequent	Cleaning, cutbacks, thinning etc. (as per species specific																			

	silvicultural Operation	requirement) will be carried out at the age as per prescribed in the working plan.
I	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.</p> <p>Forester – 100%</p> <p>RFO – 100%</p> <p>ACF – 20%</p> <p>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 4<sup>th</sup> 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.P. Kotadiya)  
 Deputy. Conservator of Forest  
 Morbi Forest Division, Morbi

The Compensatory Afforestation scheme at the cost of Rs. 9811584/- is technically and administrative approved by the undersigned.

  
 (S.P. 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

Spacements = 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
<b>0 year</b>				
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
<b>Total</b>		<b>7230</b>	<b>2954</b>	<b>10184</b>
<b>2. Area Development ( Land Preparation )</b>				
(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
<b>Total</b>		<b>22573</b>	<b>0</b>	<b>22573</b>
(a) Natural fertilizer (Neem cake/ Castor cake)	1111 @ 12.00	0	13332	13332
<b>Total</b>		<b>0</b>	<b>13332</b>	<b>13332</b>
<b>3. SMC Works</b>				
(a) Check wall/ retaining wall /checkdam (all pucca only) & Percolation tank	L.S.	40000	60000	100000
(b) Contour trench 2 M x 45 Cm x 30 Cm as per Rs.54.10 (300 trench)	300 Nos	16230	0	16230
<b>Total</b>		<b>56230</b>	<b>60000</b>	<b>116230</b>
<b>4. Protection</b>				
(a) Barbed wire fencing	102 rmt.@ 350	3570	32130	35700
(b) putting thorny bushes / thorn fencing	140 rmt.@ 64.90	11942	0	11942
<b>Total</b>		<b>15512</b>	<b>32130</b>	<b>47642</b>
<b>Sub Total of 0 year</b>		<b>101545</b>	<b>108416</b>	<b>209961</b>

<b>1st Year</b>				
(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
<b>Total for 1st year</b>		<b>61289</b>	<b>28794</b>	<b>90082</b>
<b>2nd Year</b>				
(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
<b>Total for 2nd year</b>		<b>30172</b>	<b>29976</b>	<b>60149</b>
<b>3rd Year</b>				
(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
<b>Total for 3rd year</b>		<b>25930</b>	<b>19768</b>	<b>45698</b>
<b>4thYear</b>				
(a) 1 weeding & soil working		7923	0	7923
(b) Protection & Maintenance of fencing/ Tending operation	L.S.	7994	0	7994
<b>Total for 4th year</b>		<b>15916</b>	<b>0</b>	<b>15916</b>
<b>5thYear</b>				
Protection & maintenance of fencing/ tending operation	L.S.	8527	0	8527
<b>Total for 5th year</b>		<b>8527</b>	<b>0</b>	<b>8527</b>
<b>6thYear</b>				
Protection & maintenance of fencing/ tending operation	L.S.	9060	0	9060
<b>Total for 6th year</b>		<b>9060</b>	<b>0</b>	<b>9060</b>
<b>7thYear</b>				
Protection & maintenance of fencing/ tending operation	L.S.	9592	0	9592
<b>Total for 7th year</b>		<b>9592</b>	<b>0</b>	<b>9592</b>

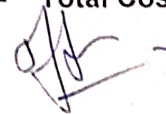
8thYear				
Protection & maintenance of fencing/ tending operation	L.S.	10125	0	10125
Total for 8th year		10125	0	10125
9thYear				
Protection & maintenance of fencing/ tending operation	L.S.	10658	0	10658
Total for 9th year		10658	0	10658
10thYear				
Protection & maintenance of fencing/ tending operation	L.S.	11191	0	11191
Total for 10th year		11191	0	11191
SUB TOTAL :		294006	186954	480960
The Cost of Supervision/subsequential silvicultureal Operations	20%	58801	37391	96192
		352807	224345	577152

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. 577152 X 17 Ha. = Total Cost Rs. :9811584/-



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