

**Compensary Afforestation Scheme for double degraded area**

Diversion of **0.1411** ha. for laying of Optical cable along the routes mentioned here under Protected Area land in Panchmahal dist. Halol taluka Of Gujarat State.by Reliance Jio Digital Fibre Private Limited.

Detailed scheme of Compensatory Afforestation for degraded area 1.00 ha. to be carried out in lieu of 0.1411 ha. of Protected Area land to be diverted in Panchmahal district.

**1. Details of degraded land.**

Village	Talavadi
Taluka	Halol
Range	Shivrajpur
District	Panchmahal
Division	W.L Division Vadodara
Survey No.	106
Area to be afforested	1.00 Ha.
Working circle	

**2. Description of Area.**

Soil type	Black
Topography	Plain
Slope	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:-**


(i)	The Compensatory Afforestation on degraded area would be started by Dy.Conservator of Forest W.L Division Vadodara as early as possible after the proposal is formally approved.
(ii)	Compensatory Afforestation will be done in 1.00 ha. Protected area. The total afforestation cost will be about Rs.4,29,500/- Reliance Jio Digital Fibre Private Limited 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 307.90 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 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>Teak</td><td>300</td></tr> <tr> <td>Bamboo</td><td>100</td></tr> <tr> <td>Bahedo, Herde, Aritha</td><td>100</td></tr> <tr> <td>Haldu, Sadad, Arjun Sadad</td><td>100</td></tr> <tr> <td>Bhilamo, Kadayo, Sadad, Tandol etc.</td><td>100</td></tr> <tr> <td>Albizia, Ficus, Jamun, Anjan, Neem, etc.</td><td>100</td></tr> <tr> <td>Bordi, Karanj, Khakhro &amp; others</td><td>111</td></tr> <tr> <td><b>Total</b></td><td><b>1111</b></td><td></td></tr> </table>	Khair	200	Minimum planting height will be 100 cm. at the time of planting. However it will vary for different species.	Teak	300	Bamboo	100	Bahedo, Herde, Aritha	100	Haldu, Sadad, Arjun Sadad	100	Bhilamo, Kadayo, Sadad, Tandol etc.	100	Albizia, Ficus, Jamun, Anjan, Neem, etc.	100	Bordi, Karanj, Khakhro & others	111	<b>Total</b>	<b>1111</b>	
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<b>Total</b>	<b>1111</b>																					
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 &amp; 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	Trench cum Live Hedge, Seed sowing And planting of cuttings of Ipomea/ Glarcidia along the fence																				
i	Silvicultural Operations	<p>1<sup>st</sup> year three weeding soil working, Support watering will be provided if needed.</p> <p>2<sup>nd</sup> year two weeding soil working.</p> <p>3<sup>rd</sup> year one weeding soil working.</p>																				

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.</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.

  
Deputy Conservator of Forest  
WildLife Division,  
Vadodara

The Compensatory Afforestation scheme at the cost of **Rs.4,29,500/-** is technically and administrative approved by the undersigned.

  
Deputy Conservator of Forest  
WildLife Division,  
Vadodara

Compensatory Afforestation Scheme for double degraded area under FCA proposal  
 Diversion of 0.1411 ha. (Km. 3.137) for laying of Optical cable along the routes mentioned here  
 under Protected Area land in Panchmahal dist. Halol taluka Of Gujarat State.by Reliance Jio  
 Digital Fibre Private Limited.

Daily wages Rs.307.90

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	1815	1815
(b) labour : Preparation of beds, filling and arranging of bags,showing of seeds, watering shifting, weeding etc.	1222	4442	230	4672
(c ) Seedling cost for casualty replacement in one year old (20%)	222	1404	419	1823
(d) Seedling cost for casualty replacement in two year old (10%)	111	703	209	912
<b>Total</b>		<b>6549</b>	<b>2673</b>	<b>9222</b>
<b>2. Area Development ( Land Preparation )</b>				
(a) Survey, cutback and promotion of root suckers		3337	0	3337
(b) Aligment and digging of pits 0.45 X 0.45 X 0.45	1111@ 6.00	9637	0	9637
<b>Total</b>		<b>12974</b>	<b>0</b>	<b>11794</b>
(a) Natural fertilizer (Neem cake/ Castor cake)	1111 @ 5.00	0	9830	9830
<b>Total</b>		<b>0</b>	<b>9830</b>	<b>9830</b>
<b>3. SMC Works</b>				
(a) Check wall/ retaining wall /checkdem (all pucca only)	L.S.	11856	23535	35391
(b) Contour trench 2 M x 45 Cm x 30 Cm as per Rs.17.00/rmt (300 trench)	600 rmt.	9024	0	9024
<b>Total</b>		<b>20880</b>	<b>23535</b>	<b>44415</b>
<b>4. Protection</b>				
(a) Trench cum Live Hedge	L.S.	3539	35391	38930
(b) Seed sowing and planting of cuttings of Ipomea/ Glaricidia along the fence		1101	473	1574
<b>Total</b>		<b>4640</b>	<b>35864</b>	<b>40504</b>
<b>Sub Total of 0 year</b>		<b>45043</b>	<b>71901</b>	<b>116944</b>

<b>1st Year</b>				
(a) Maintenance of nursery (April to June)	1222	3407	340	3747
(b) Transport of seedling for plantation	1111	18444	386	18830
(c) Planting with khamna of Min 1 m dia	1111	5744	0	5744
(d) Transport of seedling for casualty replacement	111	199	44	243
(e) 3 weeding cum soil working	1111	23393	0	23393
(f) Support watering 5 times @ 3.25		14314	20539	34853
(g) Protection / tending operation		4612	0	4612
(h) Tending to natural vegetation		1158	0	1158
(i) Contingency		0	1158	1158
<b>Total for 1st year</b>		<b>53718</b>	<b>22470</b>	<b>76188</b>
<b>2nd Year</b>				
(a) 2 weeding & soil working		12567	0	12567
(b) 20 % Casually replcement, transport and planting	111+111	209	1041	1250
(c) Natural fertilizer (neem cake / caster cake ) etc.	Rs.5/ plant	0	11617	11617
(d ) Support watering 3 times @ 3.25		9301	13351	22652
(e) Protection / tending operation		5019	0	5019
<b>Total for 2nd year</b>		<b>27096</b>	<b>26009</b>	<b>53105</b>
<b>3rd Year</b>				
(a) 2 weeding & soil working		13264	0	13264
(b) 10 % Casually replcement, transport and planting	111	112	561	673
(c) Natural fertilizer, neem cake etc.	Rs.5/ plant	0	12735	12735
(d ) Support watering 1 times @ 3.25		3340	4792	8132
(e) Protection & maintenance of Trench cum Live Hedge / tending operation	L.S.	8673	0	8673
<b>Total for 3rd year</b>		<b>25389</b>	<b>18088</b>	<b>43477</b>
<b>4thYear</b>				
(a) 1 weeding & soil working		7325	0	7325
(b) Protection & Maintenance of Trench cum Live Hedge/ Tending operation	L.S.	7239	0	7239
<b>Total for 4th year</b>		<b>14564</b>	<b>0</b>	<b>14564</b>
<b>5thYear</b>				
Protection & maintenance of Trench cum Live Hedge/ tending operation	L.S.	7722	0	7722
<b>Total for 5th year</b>		<b>7722</b>	<b>0</b>	<b>7722</b>
<b>6thYear</b>				
Protection & maintenance of Trench cum Live Hedge/ tending operation	L.S.	8204	0	8204
<b>Total for 6th year</b>		<b>8204</b>	<b>0</b>	<b>8204</b>
<b>7thYear</b>				
Protection & maintenance of Trench cum Live Hedge/ tending operation	L.S.	8687	0	8687
<b>Total for 7th year</b>		<b>8687</b>	<b>0</b>	<b>8687</b>


<b>8thYear</b>				
Protection & maintenance of Trench cum Live Hedge/ tending operation	L.S.	9169	0	9169
<b>Total for 8th year</b>		<b>9169</b>	<b>0</b>	<b>9169</b>
<b>9thYear</b>				
Protection & maintenance of Trench cum Live Hedge/ tending operation	L.S.	9652	0	9652
<b>Total for 9th year</b>		<b>9652</b>	<b>0</b>	<b>9652</b>
<b>10thYear</b>				
Protection & maintenance of Trench cum Live Hedge/ tending operation	L.S.	10135	0	10135
<b>Total for 10th year</b>		<b>10135</b>	<b>0</b>	<b>10135</b>
<b>SUB TOTAL :</b>		<b>291379</b>	<b>138468</b>	<b>357847</b>
The Cost of Supervision/subsequential silvicultureal Operations	20%	58276	27694	71569
		<b>349655</b>	<b>166162</b>	<b>429416</b>

**Note :-**

- (1) Seed sowing along fencing towards the inner side, and also in the plot.
- (2) Planting of cutting of ipomea//Glarcidia along the Trench cum Live Hedge towards outer side.

Compensatory afforestation will be done in 1.00 ha. Area.

**Total Cost Rs. :4,29,500/-**

  
Deputy Conservator of Forest  
WildLife Division,  
Vadodara



Disgustan  
Wildlife Division  
Forest Officer of Forest

# Untitled Map

Write a description for your map.

## Legend

Feature 1

Talavadi Sruve no 106



Google Earth

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## CERTIFICATE

This is to certify that, i have visited 1.00 ha area of degraded Sanctuary Area (for taking in lieu of diverting 0.1411 ha of forest land C.A) of Village Talavdi survey No.106 Taluka: Halol Dist: Panchmahal on Date 03/09/2019 which has been indentified for Compensatory afforestation as shown in the location map attatched with the Compensatory afforestation scheme against the proposal for diversion of Optical Fiber Cable lieu of 0.1411 Ha. Sanctuary Area land and the said area is suitable for Compensatory afforestation. it is also certify that the Compensatory afforestation scheme suggested in the area is in consonance with the management plan prescriptions; specified for the said area.

Date : 10 /12/2019

Place : vadodara

  
Dy.Conservator of Forest  
WildLife Division  
Vadodara

## Annexure-xx

### CERTIFICATE

This is to certify that, the Compensatory afforestation scheme of 1.00 ha. (for taking in lieu of diverting 0.1411 ha of forest land) received from the jio Digital Fiber Private Ltd. Ahmedabad has given an undertaking to pay cost of Compensatory afforestation as per the prevailing wages (including the price escalation and supervision charges)


The scheme in question has been checked and found correct as per the prevailing wage rate structure and approved model-3 of plantation.

The Compensatory afforestation has to be carried out in P.A Surve no.106 of Village.Talavdi Ta.halol Dist.Panchmahal at the cost of Rs.4,29,500/- (in words four lakh twenty Nine thousand Five hundred Rupees only)

There of the Compensatory afforestation scheme in question here by technically approved by the undersigned.

Date : 10 /12 /2019

Place : vadodara

  
Dy.Conservator of Forest  
WildLife Division  
Vadodara