

Compensary Afforestation Scheme for double degraded area

Diversification of 0.6160 ha.(Bharuch SF Div.0.0400 ha + Narmada Forest Div. - 0.5560 ha. +Narmada SF Div. – 0.0200 ha.) of Protected Forest/Reserved Forest Land (Road side stip land) for laying 18 “ dia Natural Gas Pipeline along with OFC from Village Amboli, Ta.Ankleshwer , Dist.Bharuch to Rajpipla City , Ta. Nandod, Dist. Narmada Request to Grant Permission..

Detailed scheme of Compensatory Afforestation for degraded area 2.00 ha. to be carried out in lieu of 0.5560 ha. of Reserved/Protected forest land to be diverted in Narmada district.

1. Details of degraded land.

Village	Amalipani / Kalmkuva
Taluka	Dediyapada
Range	Sorapada
District	Narmada
Division	Narmada
Block/ Patal, Compartment No.	408 Old; 348 New
Area to be afforested	2.00 Ha.
Working circle	Plantation

2. Description of Area.

Soil type	Marramy, stony
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.

4. Schedule of Plantation Programme:-

(i) The Compensatory Afforestation on degraded area would be started by Dy.Conservator of Forest Narmada Division as early as possible after the proposal is formally approved.
(ii) Compensatory Afforestation will be done in 2.00 ha.area. The total afforestation cost will be about Rs.17,00,000/- Gujarat State Petronet Limited, Gandhinagar has given an undertaking to pay the cost of Compensatory Afforestation as per the prevailing wages (including the price escalation and supervision charges).

3. **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"> <thead> <tr> <th></th> <th></th> <th>Height (cm)</th> </tr> </thead> <tbody> <tr> <td>Khair</td> <td>200</td> <td>65</td> </tr> <tr> <td>Teak</td> <td>300</td> <td>Stump of minimum 6cm girth</td> </tr> <tr> <td>Bamboo</td> <td>100</td> <td>50</td> </tr> <tr> <td>Bahedo, Herde, Aritha</td> <td>100</td> <td>65</td> </tr> <tr> <td>Haldu, Sadad, Arjun Sadad</td> <td>100</td> <td>90</td> </tr> <tr> <td>Bhilamo, Kadayo, Sadad, Tandol etc.</td> <td>100</td> <td>90</td> </tr> <tr> <td>Albizzia, Ficus, Jamun, Anjan, Neem, etc.</td> <td>100</td> <td>75</td> </tr> <tr> <td>Bordi, Karanj, Khakhro & others</td> <td>111</td> <td>65</td> </tr> <tr> <td>Total</td> <td>1111</td> <td></td> </tr> </tbody> </table>			Height (cm)	Khair	200	65	Teak	300	Stump of minimum 6cm girth	Bamboo	100	50	Bahedo, Herde, Aritha	100	65	Haldu, Sadad, Arjun Sadad	100	90	Bhilamo, Kadayo, Sadad, Tandol etc.	100	90	Albizzia, Ficus, Jamun, Anjan, Neem, etc.	100	75	Bordi, Karanj, Khakhro & others	111	65	Total	1111	
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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, 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.																														

1	Proposed monitoring mechanism	<p>(i) A plantation register is to be maintained.</p> <p>(ii) Monitoring is to be done as per the following 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
 Narmada

The Compensatory Afforestation scheme at the cost of **Rs.17,00,000/-** is technically and administrative approved by the undersigned.


 Dy. Conservator of Forest
 Narmada

Diversification of 0.6160 ha.(Bharuch SF Div.0.0400 ha + Narmada Forest Div. -0.5560 ha. +Narmada SF Div. – 0.0200 ha.) of Protected Forest/Reserved Forest Land (Road side stip land) for laying 18 “ dia Natural Gas Pipeline along with OFC from Village Amboli, Ta.Ankleshwer , Dist.Bharuch to Rajpipla City , Ta. Nandod, Dist. Narmada Request to Grant Permission.

Daily wages Rs.351.30

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	2071	2071
(b) labour : Preparation of beds, filling and arranging of bags,showing of seeds, watering shifting, weeding etc.	1222	5068	276	5344
(c) Seedling cost for casualty replacement in one year old (20%)	222	1602	503	2105
(d) Seedling cost for casualty replacement in two year old (10%)	111	802	251	1053
Total		7472	3101	10573
2. Area Development (Land Preparation)				
		0	0	0
(a) Survey, cutback and promotion of root suckers		3807	0	3807
(b) Aligment and digging of pits 0.45 X 0.45 X 0.45	1111@ 6.00	10995	0	10995
Total		14803	0	14803
(a) Natural fertilizer (Neem cake/ Castor cake)	1111 @ 5.00	0	11796	11796
Total		0	11796	11796
3. SMC Works				
		0	0	0
(a) Check wall/ retaining wall /checkdem (all pucca only)	L.S.	13527	286473	300000
(b) Contour trench 2 M x 45 Cm x 30 Cm as per Rs.17.00/rmt (300 trench)	600 rmt.	10296	0	10296
(c)Van Talavadi/Hill Top Tank/Percolation tank/Nala bund,Gully Plug etc.		11200	0	11200
Total		35023	286473	321496
4. Protection				
		0	0	0
(a) Barbed wire fencing	L.S.	4037	42469	46506

(b) Seed sowing and planting of cuttings of Ipomea/ Glaricidia along the fence		1256	568	1824
Total		5293	43037	48330
Sub Total of 0 year		62591	344407	406998
1st Year				
(a) Maintenance of nursery (April to June)	1222	3888	408	4296
(b) Transport of seedling for plantation	1111	21044	463	21507
(c) Planting with khamna of Min 1 m dia	1111	6554	0	6554
(d) Transport of seedling for casualty replacement	111	227	53	280
(e) 3 weeding cum soil working	1111	26690	0	26690
(f) Support watering 5 times @ 3.25		16331	24647	40978
(g) Protection / tending operation		5261	0	5261
(h) Tending to natural vegetation		1321	0	1321
(i) Contingency		0	1390	1390
Total for 1st year		81316	26961	108277
2nd Year				
(a) 2 weeding & soil working		14338	0	14338
(b) 20 % Casually replcement, transport and planting	111+111	239	1249	1488
(c) Natural fertilizer (neem cake / caster cake) etc.	Rs.5/ plant	0	13940	13940
(d) Support watering 3 times @ 3.25		10612	16021	26633
(e) Protection / tending operation		5727	0	5727
Total for 2nd year		30916	31210	62126
3rd Year				
(a) 2 weeding & soil working		15134	0	15134
(b) 10 % Casually replcement, transport and planting	111	128	673	801
(c) Natural fertilizer, neem cake etc.	Rs.5/ plant	0	15282	15282
(d) Support watering 1 times @ 3.25		3810	5750	9560
(e) Protection & maintenance of fencing / tending operation	L.S.	9896	0	9896
Total for 3rd year		28969	21705	50674
4thYear				
(a) 1 weeding & soil working		8357	0	8357
(b) Protection & Maintenance of fencing/ Tending operation	L.S.	8260	0	8260
Total for 4th year		16617	0	16617
5thYear				
Protection & maintenance of fencing/ tending operation	L.S.	8810	0	8810
Total for 5th year		8810	0	8810

6thYear		0	0	0
Protection & maintenance of fencing/ tending operation	L.S.	9361	0	9361
Total for 6th year		9361	0	9361
7thYear				
Protection & maintenance of fencing/ tending operation	L.S.	9912	0	9912
Total for 7th year		9912	0	9912
8thYear				
Protection & maintenance of fencing/ tending operation	L.S.	10461	0	10461
Total for 8th year		10461	0	10461
9thYear				
Protection & maintenance of fencing/ tending operation	L.S.	11012	0	11012
Total for 9th year		11012	0	11012
10thYear				
Protection & maintenance of fencing/ tending operation	L.S.	11563	0	11563
Total for 10th year		11563	0	11563
SUB TOTAL :		281528	424283	705811
The Cost of Supervision/subsequential silvicultureal Operations	20%	56306	84857	141162
		337833	509140	846973
			Say - 1.00 ha. CA :	850000

Note :-

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

Compensatory afforestation will be done in 2.00 ha. Area.

The Total afforestation cost will be Rs. 17,00,000/-

	Ha	Total
Total Cost Rs. :	2	1700000

Statement showing the details of degraded forest area identified for the Compensation for afforestation

Sr. No.	District	Taluka	Village	Comp. No.	Total Area Ha.	Area in Degraded forest in other scheme Ha.	Area under this Scheme Ha.	Balance area Ha.
1	2	3	4	5	6	7	8	9
1	Narmada	Dediyapada	Amalipani / Kalmkuva	Old: 408 New:348	255.69	10.00	2.00	243.69

Place :-Rajpipla

Date :- - - 2022



Dy. Conservator of Forests
Narmada