

Compensary Afforestation Scheme for double degraded area

submission of 6.642 hac. Forest land proposal for diversion of forest land for forest clearance for erection of 66kv D/C tower line for 66kv kalibel substation LILO from exist 66kv waghai-ahwa line.in Gujarat State .

Detailed scheme of Compensatory Afforestation for degraded area 14 ha. to be carried out in lieu of 6.642 ha. of Reserved forest & Protected forest land to be diverted in Dang district.

1. Details of degraded land.

Village	Don
Taluka	Ahwa
Range	Piplaidevi
District	Dang
Division	North Dang Forest Division Ahwa
Block/ Patal, Compartment No.	P.F.Comptt.No.137
Area to be afforested	14.00 Ha.

2. Description of Area.

Soil type	Brown & murom
Topography	Hilly
Slope	Medium & High
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 Deputy Conservator of Forest North Dang Division Ahwa as early as possible after the proposal is formally approved.
(ii)	Compensatory Afforestation will be done in 15.00 ha. area. The total afforestation cost will be about Rs.79,61,700/- Executive Engineer,(const) GETCO-,Navasari 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 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> <td>Khair</td><td>200</td><td>75cm</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>50cm</td></tr> <tr> <td>Bahedo, Herde, Aritha</td><td>100</td><td></td></tr> <tr> <td>Haldu, Sadad, Arjun Sadad</td><td>100</td><td>65cm</td></tr> <tr> <td>Bhilamo, Kadayo, Sadad, Tandol etc.</td><td>100</td><td>50cm</td></tr> <tr> <td>Albizzia, Ficus, Jamun, Anjan, Neem, etc.</td><td>100</td><td>65cm</td></tr> <tr> <td>Bordi, Karanj, Khakhro & others</td><td>111</td><td>50 cm</td></tr> <tr> <td>Total</td><td>1111</td><td></td></tr> </table>	Khair	200	75cm	Teak	300	Stump of minimum 6cm girth	Bamboo	100	50cm	Bahedo, Herde, Aritha	100		Haldu, Sadad, Arjun Sadad	100	65cm	Bhilamo, Kadayo, Sadad, Tandol etc.	100	50cm	Albizzia, Ficus, Jamun, Anjan, Neem, etc.	100	65cm	Bordi, Karanj, Khakhro & others	111	50 cm	Total	1111	
Khair	200	75cm																											
Teak	300	Stump of minimum 6cm girth																											
Bamboo	100	50cm																											
Bahedo, Herde, Aritha	100																												
Haldu, Sadad, Arjun Sadad	100	65cm																											
Bhilamo, Kadayo, Sadad, Tandol etc.	100	50cm																											
Albizzia, Ficus, Jamun, Anjan, Neem, etc.	100	65cm																											
Bordi, Karanj, Khakhro & others	111	50 cm																											
Total	1111																												
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.
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% (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.

Deputy Conservator of Forest
North Dang Division Ahwa

The Compensatory Afforestation scheme at the cost of **Rs. Rs.79,61,700/-** is technically and administrative approved by the undersigned.

Deputy Conservator of Forest
North Dang Division Ahwa

Submission of 6.642 hac. Forest land proposal for diversion of forest land for forest clearance for erection of 66kv D/C tower line for 66kv kalibel substation LILO from exist 66kv waghai-ahwa line.

Daily wages Rs. 324.2

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,fartillizer, 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	4677.15622	230	4907
(c) Seedling cost for casualty replacement in one year old (20%)	222	1478.32673	419	1897
(d) Seedling cost for casualty replacement in two year old (10%)	111	740.216304	209	949
Total		6896	2673	9569
2. Area Development (Land Preparation)				
(a) Survey, cutback and promotion of root suckers		3514	0	3514
(b) Aligment and digging of pits 0.45 X 0.45 X 0.45	1111@ 6.00	10147	0	10147
Total		13661	0	13661
(a) Natural fertilizer (Neem cake/ Castor cake)	1111 @ 5.00	0	9830	9830
Total		0	9830	9830
3. SMC Works				
(a) Check wall/ retaining wall /checkdem (all pucca only)	L.S.	12484	23535	36019
(b) Contour trench 2 M x 45 Cm x 30 Cm as per Rs.17.00/rmt (300 trench)	600 rmt.	9502	0	9502
Total		21985	23535	45520
4. Protection				
(a) Barbed wire fencing	205	32800	49200	82000
(b) Seed sowing and planting of cuttings of Ipomea/ Glaricidia along the fence		1159	473	1632
Total		33959	49673	83632

Sub Total of 0 year		76501	85711	162212
1st Year				
(a) Maintenance of nursery (April to June)	1222	3587	340	3927
(b) Transport of seedling for plantation	1111	19420	386	19806
(c) Planting with khamna of Min 1 m dia	1111	6048	0	6048
(d) Transport of seedling for casualty replacement	111	210	44	254
(e) 3 weeding cum soil working	1111	24631	0	24631
(f) Support watering 5 times @ 3.25		15072	20539	35611
(g) Protection / tending operation		4856	0	4856
(h) Tending to natural vegetation		1219	0	1219
(i) Contingency		0	1158	1158
Total for 1st year		75044	22467	97511
2nd Year				
(a) 2 weeding & soil working		13232	0	13232
(b) 20 % Casually replcement, transport and planting	111+111	220	1041	1261
(c) Natural fertilizer (neem cake / caster cake) etc.	Rs.5/ plant	0	11617	11617
(d) Support watering 3 times @ 3.25		9793	13351	23144
(e) Protection / tending operation		5285	0	5285
Total for 2nd year		28530	26009	54539
3rd Year				
(a) 2 weeding & soil working		13966	0	13966
(b) 10 % Casually replcement, transport and planting	111	118	561	679
(c) Natural fertilizer, neem cake etc.	Rs.5/ plant	0	12735	12735
(d) Support watering 1 times @ 3.25		3517	4792	8309
(e) Protection & maintenance of fencing / tending operation	L.S.	9132	0	9132
Total for 3rd year		26733	18088	44821
4thYear				
(a) 1 weeding & soil working		7713	0	7713
(b) Protection & Maintenance of fencing/ Tending operation	L.S.	7622	0	7622
Total for 4th year		15335	0	15335
5thYear				
Protection & maintenance of fencing/ tending operation	L.S.	8131	0	8131
Total for 5th year		8131	0	8131
6thYear				
Protection & maintenance of fencing/ tending operation	L.S.	8638	0	8638
Total for 6th year		8638	0	8638
7thYear				

Protection & maintenance of fencing/ tending operation	L.S.	9147	0	9147
Total for 7th year		9147	0	9147
8thYear				
Protection & maintenance of fencing/ tending operation	L.S.	9654	0	9654
Total for 8th year		9654	0	9654
9thYear				
Protection & maintenance of fencing/ tending operation	L.S.	10163	0	10163
Total for 9th year		10163	0	10163
10thYear				
Protection & maintenance of fencing/ tending operation	L.S.	10672	0	10672
Total for 10th year		10672	0	10672
SUB TOTAL :		278549	152275	430824
The Cost of Supervision/subsequential silvicultureal Operations	20%	55710	30455	86165
Grand Total :		334258	182730	516988

Note :-

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

Compensatory afforestation will be done in 14.00 ha. Area.

The Total afforestation cost will be Rs.: 7237837

10% 723784

Total Cost Rs.: (with 10%) 7961621

Say **7961700**


Dy. Conservator of Forests.
North Dangs Divn., AHWA