

Compensary Afforestation Scheme for double degraded area

Submission of revised Forest land proposal for diversion of Forest Land of 14.7031 hac. for forest clearance for Erection of 66kv D/C tower line for 66kv Subir substation to Proposed 66kv Morzira substation.

Detailed scheme of Compensatory Afforestation for degraded area 30 ha. to be carried out in lieu of 14.7031 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	30.00 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 30.00 ha. area. The total afforestation cost will be about Rs. 1,59,40,811/- 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><td rowspan="9"></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	
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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 fenching, 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. 1,59,40,811/-** is technically and administrative approved by the undersigned.


 Deputy Conservator of Forest
 North Dang Division Ahwa

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Daily wages Rs.

340

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
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	4905.09906	230	5135
(c) Seedling cost for casualty replacement in one year old (20%)	222	1550.3735	419	1969
(d) Seedling cost for casualty replacement in two year old (10%)	111	776.291004	209	985
Total		7232	2673	9905
2. Area Development (Land Preparation)				
(a) Survey, cutback and promotion of root suckers		3685	0	3685
(b) Aligment and digging of pits 0.45 X 0.45 X 0.45	1111@ 6.00	10642	0	10642
Total		14327	0	14327
(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.	13092	23535	36627
(b) Contour trench 2 M x 45 Cm x 30 Cm as per Rs.17.00/rmt (300 trench)	600 rmt.	9965	0	9965
Total		23057	23535	46592
4. Protection				
(a) Barbed wire fencing	205	32800	49200	82000

(b) Seed sowing and planting of cuttings of Ipomea/ Gliricidia along the fence		1216	473	1689
Total		34016	49673	83689
Sub Total of 0 year		78631	85711	164342
1st Year				
(a) Maintenance of nursery (April to June)	1222	3762	340	4102
(b) Transport of seedling for plantation	1111	20367	386	20753
(c) Planting with khamna of Min 1 m dia	1111	6343	0	6343
(d) Transport of seedling for casualty replacement	111	220	44	264
(e) 3 weeding cum soil working	1111	25832	0	25832
(f) Support watering 5 times @ 3.25		15806	20539	36345
(g) Protection / tending operation		5093	0	5093
(h) Tending to natural vegetation		1279	0	1279
(i) Contingency		0	1158	1158
Total for 1st year		78701	22467	101168
2nd Year				
(a) 2 weeding & soil working		13877	0	13877
(b) 20 % Casually replcement, transport and planting	111+111	231	1041	1272
(c) Natural fertilizer (neem cake / caster cake) etc.	Rs.5/ plant	0	11617	11617
(d) Support watering 3 times @ 3.25		10271	13351	23622
(e) Protection / tending operation		5542	0	5542
Total for 2nd year		29921	26009	55930
3rd Year				
(a) 2 weeding & soil working		14647	0	14647
(b) 10 % Casually replcement, transport and planting	111	124	561	685
(c) Natural fertilizer, neem cake etc.	Rs.5/ plant	0	12735	12735
(d) Support watering 1 times @ 3.25		3688	4792	8480
(e) Protection & maintenance of fencing / tending operation	L.S.	9577	0	9577
Total for 3rd year		28036	18088	46124
4thYear				
(a) 1 weeding & soil working		8089	0	8089
(b) Protection & Maintenance of fencing/ Tending operation	L.S.	7994	0	7994
Total for 4th year		16082	0	16082
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.	9059	0	9059
Total for 6th year		9059	0	9059
7thYear				
Protection & maintenance of fencing/ tending operation	L.S.	9593	0	9593
Total for 7th year		9593	0	9593
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.	11192	0	11192
Total for 10th year		11192	0	11192
SUB TOTAL :		290525	152275	442800
The Cost of Supervision/subsequential silvicultureal Operations	20%	58105	30455	88560
Grand Total :		348630	182730	531360

Note :-

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

Compensatory afforestation will be done in 30.00 ha. Area.

The Total afforestation cost will be Rs.: 15940811

Total Cost Rs.: 15940811


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