Compensary Afforestation Scheme for double degraded area

Proposal for Diversion of Protected Forest land for the project of Four lanning of Vadodara-Padra-Jambusar Road Km. 44/00 to 52/575 Dist.Bharuch, State Gujarat.

Detailed scheme of Compensatory Afforestation for degraded area 14.00 ha. to be carried out in lieu of **6.86** ha. of Protected forest land to be diverted in Bharuch District.

1. Details of degraded land.

Village	Yal
Taluka	Netrang
Range	Netrang
District	Bharuch
Division	Sub Division Bharuch
Block/ Haldari, Compt No.	365(64)
Area to be afforested	14.00 Ha.
Working circle	Plantation

2. Description of Area.

Black & Starey
Plain
Medium & Gentle
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 Asst.Conservator of Forest, Sub Division Bharuch as early as possible after the proposal is formally approved.
- (ii) Compensatory Afforestation will be done in **14.00** ha. area. The total afforestation cost will be about **Rs.84,40,600/- Executive Engineer (R & B) Division Bharuch** has given an undertaking to pay the cost of Compensatory Afforestation as per the prevailing wages (including the price escalation and supervision charges).

Technical Details:-

5.

Technical details of Compensatory Afforestation are as Follows:

Sr.	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	Spacement	3 X 3 mtr., 1111 plants per ha.				
С	Species to be planted (No. of plants per ha.)	Khair Teak	200	70cm 90cm		
		Bamboo	100	65cm		
		Bahedo, Herde, Aritha	100	90cm		
		Haldu, Sadad, Arjun Sadad	100	90cm		
		Bhilamo, Kadayo, Sadad, Tandol etc.	100	75cm		
		Albizzia, Ficus, Jamun, Anjan, Neem, etc.	100	75cm		
		Bordi, Karanj, Khakhro & others	111	75cm		
		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 mo	onsoon.		
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 plantsetc. will be planted during monsoon in the upper side of nala as per suitability. 				
П	Protection Trench	Barbed wire fencing, Seed sowing And planting of cuttings of Ipomea/ Glarcidia along the fence				

		·				
i	Silvicultural Operations	1st 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	Cleaning, cutbacks, thinning etc. (as per species specific requirement)				
	silvicualtural Operation	will be carried out at the age as per prescribed in the working plan.				
1	Proposed monitoring	(i) A plantation register is to be maintained.				
	mechanism	(ii) Monitoring is to be done as per the following norms.				
	;	Forester – 100%				
		RFO - 100%				
		ACF – 20%				
		DCF - 10%				
		(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	Only afforestation aimed plantation will be taken up, as the area falls				
	activities	under degraded forest land.				

(P. J. Chaudhari)

Asst. Conservator of Forest Sub Division, Bharuch

The Compensatory Afforestation scheme at the cost of Rs. 84,40,600/- is technically and administrative approved by the undersigned.

Place:-Bharuch

(P. J. Chaudhari)

Date:-09/2021

Asst. Conservator of Forest Sub Division, Bharuch

Model No - 3

Annexure-19

Annexure-4 (1)

Compensatory Afforestration Scheme for double degradation areas & Non Forest Daily wages Rs.340.20

acements = 3 m x 3 m				
1 seedling / Ha 1 seedling / ha				
1 seedling / Ha year replacement 10 % = 111 seedling /ha year replacement 20 % = 111+111 seedling /ha				
year replacement 10 % = 111 seedling /ha year replacement 20 % = 111+111 seedling /ha				
Lungt size : 15 CM X Z5 CM X Z50		Labour	Material	Total
Item of work	Qty.	Labour	4	5
1	2	3	4	
/ear				
	1000	0	2006	2006
Cost of soil, ,manure, seeds, water, fartillizer, insecticides, implements, rent of lands. Shade, etc. (including 10 % for casuality	1222	O	2000	
0	1222	4907	254	5161
 placement) labour: Preparation of beds, filling and arranging of bags, showing of seeds, watering shifting, weeding 		4007		
C	222	1552	463	2015
c. ;) Seedling cost for casuality replacement in one year d (20%)				1000
1) Seedling cost for casuality replacement in two year	111	777	231	1008
Id (10%)				10100
otal		7236	2954	10190
. Area Development (Land Preparation)				0517
a) Survey, cutback and promotion of root suckers		368	7 0	3517
b) Aligment and digging of pits 0.45 X 0.45 X 0.45	1111@ 6.00	1064	8 0	10648
Total		1433	5 0	12974
(a) Natural fertilizer (Neem cake/ Castor cake)	1111 (6	0	0 10861	10861
Total			0 10861	10861
3. SMC Works				
(a) Check wall/ retaining wall /checkdem (all pucca only)	L.S.	1310	26004	39104
(b) Contour trench 2 M x 45 Cm x 30 Cm as per Rs.17.00/rmt (300 trench)	600 rmt.	99	71	9971
Total		230	71 2600	4 4907

L.S.	3910	39104	43014
	1216	523	1739
		39627	44753
	49768	79446	129214
1222	3689	375	4064
1111	20378	427	20805
1111	6347	0	6347
111	220	48	268
1111	25847	0	25847
	15816	22693	38509
	5096	0	5096
	1279	0	1279
	0	1279	1279
205 RM	35247	52870	84050
	113919	77692	187544
	13886	0	13886
111+111	231	1150	1381
Rs.5/ plant	0	12835	12835
	10276	14752	25028
	5546	0	5546
	29939	28737	58676
	14655	0	14655
111	124	620	744
Rs.5/ plant	0	14071	14071
	3690	5294	8984
L.S.	9583	0	9583
1	1		
	1111 1111 1111 205 RM 111+111 Rs.5/ plant	5126 49768 1222 3689 1111 20378 1111 6347 111 220 1111 25847 15816 5096 1279 0 205 RM 35247 113919 13886 111+111 231 Rs.5/ plant 0 10276 5546 29939 14655 111 124 Rs.5/ plant 0	1216 523 5126 39627 49768 79446 1222 3689 375 1111 20378 427 1111 6347 0 111 220 48 1111 25847 0 15816 22693 5096 0 1279 0 1279 0 1279 205 RM 35247 52870 113919 77692 113886 0 111+111 231 1150 Rs.5/ plant 0 12835 10276 14752 5546 0 29939 28737 14655 0 111 124 620 Rs.5/ plant 0 14071 3690 5294

		SAY		602900
		355847	247032	602879
ne Cost of Supervision/subsequental silvicultureal perations	20%	59308	41172	100480
SUB TOTAL :		296539	205860	502399
otal for 10th year		11198	0	11198
otection & maintenance of fencing/ tending operation	L.S.	11198	0	11198
thYear				
tal for 9th year		10664	0	10664
otection & maintenance of fencing/ tending operation	L.S.	10664	0	10664
hYear		10.01		
otal for 8th year		10131	0	10131
rotection & maintenance of fencing/ tending operation	L.S.	10131	0	10131
hYear		9598	U	3030
rotection & maintenance of fencing/ tending operation	L.S.	9598 9598	0	9598 9598
hYear		0.500		0500
otal for 6th year		8646	0	9064
rotection & maintenance of fencing/ tending operation	L.S.	9064	0	9064
hYear		- 3332		
otal for 5th year		8532	0	8532
hYear rotection & maintenance of fencing/ tending operation	L.S.	8532	0	8532
otal for 4th year		16092	0	16092
Protection & Maintenance of fencing/ Tending peration		, 500		, 550
	I S	7998	0	7998
hYear) 1 weeding & soil working	-	8094	0	8094

ote :-

ompensatory afforestation will be done in 14.00 ha. Area.

he Total afforestation cost will be Rs. 84,40,600/-

Total Cost Rs.: 84,40,600/-

(P. J. Chaudhari)

Asst. Conservator of Forest Sub Division, Bharuch

Seed sowing along fencing towards the inner side, and also in the plot.

⁾ Planting of cutting of ipomea//Glaricidia along the fencing towards outer side.

^{1.00} ha afforestation cost will be Rs. 6,02,900/-