Compensatory Afforestation Scheme for Non Forest area

Diversion of 4.97 ha. Of Forest land for laying Irrigation underground Water Pipeline under Tapi- Karjan Link Pipeline Lift Irrigation Project.

Detailed scheme of Compensatory Afforestation for Non Forest area 5 ha. To be carried out in lieu of 4.97 ha. Of Forest land to be diverted in Tapi District.

1. Details of Non Forest land.

District	Taluka	Range	Village	Survey No.	Area(Ha)
Bhavnagar	Jesar	Jesar	Beda	231/A/1p	5
		Tot	al		5

2. Description of Area.

Soil type	Black clay	
Topography	More or less flat, Hilly	
Slope	Gentle	
Whether the area is bearing any root stock of Vegetation	Area covered with prosopis juliflora trees and grass like sporobolus and other saline land grass species.	

3. Name of Plantation Programme:- Compensatory Afforestation Scheme for Degraded Forest Area.

4. Schedule of Plantation Programme:-

- (i) The Compensatory Afforestation on degraded area would be started by Deputy Conservator of Forest Bhavnagar Division as early as possible after the proposal is formally approved.
- (ii) Compensatory Afforestation will be done in 5 ha. Area. The total afforestation cost will be about **Rs.24,39,505**/- Executive Engineer, Ver-2 Yojna Vibhag, Vyara,Dist. Tapi has given an undertaking to pay the cost of Compensatory Afforestation as per the prevailing wages (including the price escalation and supervision charges).

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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 340.20 per day.						
b	Spacement	3 X 3 mtr., 111						
С	Species to be	Species Plants Plants Height						
	planted (No. of	Karanj	250	75 cm				
	plants per ha.)	Pilu	250	50 cm				
		Desi baval	200	65 cm				
		Khijado	211	65 cm				
		Grass Zinjva	200	-				
		Total	1111					
d	Nursery Technique	Nine months old polypot raised plants will be planted at t						
		onset of monso	oon.					
e	Site Preparation	The malformed rootstock present in the area will be cutback						
		& the site will	be cleane	ed in the month of Nov-Dec. Alignmen				
		& 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						
		be dug a heaped Banding be carrie thorny	along the on the d gusing th ed out as Etc. will	s 2.00 x 0.45 x 0.30, 300 Nos/ha. wil e contour line. the dug out soil will be own ward side. Gully plugging & Nala he loose stone available in the area wil oper requirement. Seeds of Acacia and be planted during monsoon in the a as per suitability.				
h	Protection Trench	Barbed wire fencing, Seed sowing And planting of cuttings of thorny Spp. along the fence.						
i	Silvicultural Operations	 1styear three weeding soil working, Support watering will be provided if needed. 2nd year two weeding soil working. 3rdyear one weeding soil working. 						
j	Maintenance	It is proposed to maintain the Plantation up to ten years.						
k	Subsequent			(as per species specific requirement				
	Silvicultural	will be carried out at the age as per prescribed in the working						
	Operation	plan.						
No.								

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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% 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 4th year. (vii) Third party monitoring mechanism is also in the State and if the plantations in the sample selected, it will also be monitored by the third party selected for this purpose.
m	Regeneration cleaning	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 Forests Bhavnagar Forest Division Bhavnagar

The Compensatory Afforestation scheme at the cost of Rs. 24,39,505/- is technically and administrative approved by the undersigned.

Deputy Conservator of Forests Bhavnagar Forest Division Bhavnagar

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Compansantory Afforestation Scheme Diversion of 4.97 ha. of Forest land for laying Irrigation underground Water Pipeline Under Tapi-Karjan Link Pipeline Lift Irrigation Project.

Daily wages Rs. 340.2

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Spacements = 3 m x 3 m			den parte	
1111 seedling / Ha				
1st year replacement 10 % = 111 seedling /ha				
2nd year replacement 20 % = 111+111 seedling /ha		A		
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 container, soil, ,manure, seeds, water, fartillizer, insecticides, implements, rent of lands. Shade, etc. (including 10 % for casuality replacement) 	1222	0	2071	2071
(b) labour : Preparation of beds, filling and arranging of bags, showing of seeds, watering shifting, weeding etc.	1222	4659	0	4659
(c) Seedling cost for casuality replacement in one year old (20%)	222	2485	621	3107
(d) Seedling cost for casuality replacement in two year old (10%)	111	. 0	517	517
Total		7144	3209	10354
2. Area Development (Land Preparation)				
(a) Survey, cutback and promotion of root suckers		245	20	265
(b) Aligment and digging of pits 0.45 X 0.45 X 0.45	1111@ 6.00	10649	0	10649
Total		10894	20	10913
(a) Natural fertilizer (Neem cake/ Castor cake)	1111 @ 5.00	0	10862	10862
Total		0	10862	10862
3. SMC Works				
(a) Check wall/ retaining wall /checkdem (all pucca only)	L.S.	13100	26004	39103
(b) Contour trench 2 M x 45 Cm x 30 Cm as per Rs.17.00/rmt (300 trench)	600 rmt.	9971	0	9971
Total		23071	26004	49075
4. Protection				10010
(a) Barbed wire fencing	200 rmt	6000	54000	60000
(b) Seed sowing and planting of cuttings of Ipomea/ Glaricidia along the fence		1216	. 523	1738

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	231	1150 12837	138 1283
	0	12837	1283
.5/ plant			
	10277	14751	0500
			2502
	5546	0	554
	29795	28737	5853
	14799	0	1479
1	124	620	74
.5/ plant	0	13823	1382
	3690	5295	898
S.	7465	0	746
-	26078	19738	4581
0 rmt	7927	0	792
B.	7998	0	799
	15926	0	1592
i.	8532	0	8532
	8532	0	853
			9065
		7998 15926 8532 8532	7998 0 15926 0 8532 0 8532 0

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Total for 6th year		9065	0	9065
7thYear				
Protection & maintenance of fencing/ tending operation	L.S.	9598	0	9598
Total for 7th year		9598	0	9598
8thYear				
Protection & maintenance of fencing/ tending operation	L.S.	10131	0	10131
Total for 8th year		10131	0	10131
9thYear		•		
Protection & maintenance of fencing/ tending operation	L.S.	10665	0	10665
Total for 9th year		10665	0	10665
10thYear				
Protection & maintenance of fencing/ tending operation	L.S.	11198	0	11198
Total for 10th year		11198	0	11198
SUB TOTAL :		239201	163916	406585
The Cost of Supervision/subsequental silvicultureal Operations	20%	47840	32783	81317
		287041	196700	487901

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.

1 Ha cost, Rs. 487901 X 5 Ha. = Total Cost Rs. :24,39,505/-

Deputy Conservator of Forests Bhavnagar Forest Division Bhavnagar

Annexure- 20

:: CERTIFICATE::

This is to certify that Non Forest Land of Village. Beda Ta.Jesar Dist. Bhavnagar Ha.5 is selected for compensatory afforestation is in compact block and Suitable from the management and Protection point of view.

Place: Bhavnagar Date:**2 %-**07-2021. (Dr. Sandeep Kumar) Deputy Conservator of Forests Bhavnagar Forest Division Bhavnagar 119

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LAND SUITABILITY CERTIFICATE

This is to certify that the Non Forest land of Village Beda, Tal.Jesar, Sr.No. 231/A/1 P, Ha.5 in lieu 4.97 Ha diverted of Forest land for laying irrigation Underground Water Pipeline is suitable for Compensatory Afforestation of Grasses, Shrubs and trees along with SMC Works.

The proposed land is Non Forest Land of above Village area is having potential to facilitate the increase vegetation cover and Lion habitat.

Place: Bhavnagar Date: **2**%-07-2021.

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(Dr.Sandeep Kumar) Deputy Conservator of Forests Bhavnagar Forest Division Bhavnagar 121 12)

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