Compensatory Afforestation Scheme for Non Forest area

Diversion of 33.40 Ha. of Forest land for Laying irrigation Water Pipeline under Tapi-Karjan Link Pipeline lift irrigation Project in Tapi District & Surat District in Gujarat State.

Detailed scheme of Compensatory Afforestation for Non Forest area 34 ha. to be carried out in lieu of 33.40 ha. Of Reserve forest land to be diverted in Tapi & Surat District.

1. Details of Non Forest land.

District	Taluka	Range	Village	Survey No.	Area(Ha)
Bhavnagar	Jesar	Jesar	Beda	231/A/1p	34
Total					34

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	Area covered with prosopis		
Vegetation	juliflora trees and grass like		
3	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 34 ha. Area. The total afforestation cost will be about **Rs. 1,56,88,178**/- Executive Engineer,ver-2,Project Division,Vyara 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.	Details	Specifications				
No.		A CC				
а	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., 111	1 plants	per ha.		
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 o	ld polyp	ot raised plants will be planted at the		
		onset of monso				
е	Site Preparation			ck present in the area will be cutback		
				ed in the month of Nov-Dec. Alignment		
				x 45 cms. will be carried out in the		
		month of Dec-Jan.				
f	Plantation Method			ill be planted during monsoon.		
g	Soil & Moisture Conservation Works	(i) Pucca si wall	tructure	like Check dam, check wall, retaining		
		(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 Acacia and thorny 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 thorny Spp. along the fence				
i	Silvicultural	1styear three weeding soil working, Support watering will be provided if needed.				
	Operations	1				
		2 nd year two weeding soil working.				
		3rdyear one weeding soil working				
j	Maintenance	It is proposed t	o mainta	ain the Plantation up to ten years.		
k	Subsequent	Cleaning, thin	ning etc.	(as per species specific received		
	silvicualtural	Cleaning, thinning etc. (as per species specific requirement) will be carried out at the age as per prescribed in the working plan.				
	Operation	plan.				

	Proposed	(i) A plantation register is to be maintained.				
	monitoring 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 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.				
	Devenoustion	Promotion of root suckers.				
m	Regeneration cleaning					
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. 1,56,88,178/is technically and administrative approved by the undersigned.

Deputy Conservator of Forests Bhavnagar Forest Division Bhavnagar Compansantory Afforestation Scheme

Sub :- Diversion of 33.40 Ha. of Forest land for Laying irrigation Water Pipeline under Tapi-Karjan Link Pipeline lift irrigation Project in Tapi District & Surat District in Gujarat State

Daily wages Rs. 324.5

Character 2 2				
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 container, soil, , manure, seeds, water,	1222	Ó	1975	1975
fartillizer, insecticides, implements, rent of lands.				
Shade, etc. (including 10 % for casuality				
replacement)				
(b) labour : Preparation of beds, filling and arranging of	1222	4444	0	4444
bags, showing of seeds, watering shifting, weeding		Į		
etc.				
(c) Seedling cost for casuality replacement in one year	222	2371	593	2963
old (20%)			-	
(d) Seedling cost for casuality replacement in two year	111	0	493	493
old (10%)	ļ 1			
Total				
		6815	3061	9876
2. Area Development (Land Preparation)				
(a) Survey, cutback and promotion of root suckers		234	19	253
, , , , , , , , , , , , , , , , , , , ,		20.	"	200
(b) Aligment and digging of pits 0.45 X 0.45 X 0.45	1111@ 6.00	10157	o	10157
(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		, , , , , ,	1 1	10107
Total		10391	19	10410
(a) Natural fertilizer (Neem cake/ Castor cake)	1111 @ 5.00	0		10361
(1.20.1.20.1.20.1.20.1.20.1.20.1.20.1.20				10001
Total	 	0	10361	10361
3. SMC Works			1333.	
(a) Check wall/ retaining wall /checkdem (all pucca only)	L.S.	12495	24804	37299
(a) Check wall/ retaining wall/checkdern (all pucca only)	L.O.	12430	/ 24004	31299
(It) Contains to a b 2 M v 4F Cm v 20 Cm on nor	600 rmt.	9511	0	9511
(b) Contour trench 2 M x 45 Cm x 30 Cm as per	1000 mil.	9511	'I "	9511
Rs.17.00/rmt		2		
(300 trench)	-	22006	24804	46810
Total		12000	24004	10010
4. Protection	105 rmt	525	1 47249	52500
(a) Barbed wire fencing	1,02 mir	323	47243	14
(b) Seed sowing and planting of cuttings of Ipomea/		1160	498	1658
Glaricidia		图 獻		
along the fence		S		
			<u> </u>	

			17740	54158
		6410	47748 86433	133038
3		46605	86433	
Total				3949
Sub Total of 0 year		3591	358	2377
Ist Year	1222	1970	407	
Maintenance of nursery (April to daily)	1111		 0	6054
b) Transport of seedling for plantation	1111	6054		258
c) Planting with khamna of Min 1 m dia		210	47	250
d)Transport of seediling for casualty replacement	111			23600
	1111	23600	Ĭ	
e) 3 weeding cum soil working	'''	15006	21647	36733
		15086		4883
f) Support watering 5 times @ 3.25	-	4883	0	
(g) Protection / tending operation		1221	0	1221
(h) Tending to natural vegetation			4001	1221
		0	1221	
(i) Contigency		56615	23680	80294
Total for 1st year				
2nd Year		107	0	13107
(a) 2 weeding & soil working		13107		1317
(a) 2 weeding & soil working (b) 20 % Casually replecement, transport and planting	111+111	220	1097	
(b) 20 % Casually replecement, transport	Rs.5/ plant	0	12244	12244
(c) Natural fertilizer (neem cake / caster cake) etc.	Training	9803	14070	23873
(d) Support watering 3 times @ 3.25		5290	0	5290
(e) Protection / tending operation				55831
Total for 2nd year		28420	27411	33031
3rd Year				
	=	14116	0	14116
(a) 2 weeding & soil working	111	119	592	710
(b) 10 % Casually replecement, transport and planting				1318
c) Natural fertilizer, neem cake etc.	Rs.5/ plant	0		
d) Support watering 1 times @ 3.25		3520	5051	8570
(e) Protection & maintenance of fencing / tending	na L.S.	7121	0	712
· ·			1	
operation		2487	18827	4370
Total for 3rd year				
4thYear	250 rmt	756	1 0	756
(a) 1 weeding & soil working			,	
(b) Protection & Maintenance of fencing/ Tendi	ing L.S.	762	9	102
operation		1519	1 0	1519
Total for 4th year	-	1518		151.
5thYear				
Protection & maintenance of fencing/ tending operation	L.S.	813	38 (81:
Total for 5th year		813	38	81
6thYear	1 1 2			n 86
			47	0 86

4	2.47	0	8647	
Cath work		8647		
Total for 6th year				0455
7thYear		9155	0	9155
Protection & maintenance of fencing/ tending operation	L.S.		0	9155
Total for 7th year		9155		
8thYear		1001	0	9664
Protection & maintenance of fencing/ tending operation	L.S.	9664		
		9664	0	9664
Total for 8th year				10170
9thYear Protection & maintenance of fencing/ tending operation	L.S.	10172	0	10172
Protection & maintenance of fericing/ tending operation	L.O.	10172	0	10172
Total for 9th year		10172		
10thYear				10681
Protection & maintenance of fencing/ tending operation	L.S.	10681	0	10001
Total for 10th year		10681	0	10681
		228162	156352	384514
SUB TOTAL :		228162	130302	
The Cost of Supervision/subsequental silvicultureal	20%	45632	31270	76903
Operations				
		273795	187622	461417

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. 461417 X 34 Ha. = Total Cost Rs. :15688178/-

Deputy Conservator of Forests

Bhavnagar Forest Division

Bhavnagar

:: CERTIFICATE::

This is to certify that Non Forest Land of Village. Beda Ta.Jesar Dist. Bhavnagar Ha.34 is selected for compensatory afforestation is in compact block and Suitable from the management and Protection point of view.

Place: Bhavnagar

Date: 06-08-2020.

(Dr. Sandeep Kumar)

Deputy Conservator of Forests

Bhavnagar Forest Division

- Bhavnagar