Compensary Afforestation Scheme for double degraded area

A proposal has been received by this office from Ex.engineer, R&B Gandhinagar., Division no.26, for Permission for Diversion (under FCA) of **4.0788 ha.** Protected Forest Land for Widening of existing Road No.5 & "K" Road in Gandhinagar.

Detailed scheme of Compensatory Afforestation for degraded area 09.00 ha. to be carried out in lieu of 4.0788 ha. of Protected forest land to be diverted in Gandhinagar district.

1. Details of degraded land.

Village	Aral
Taluka	Kapadvanj
Range	Antarsuba
District	Kheda
Division	Gandhinagar
Block/ Patal, Compartment No.	43 Paiki
Area to be afforested	09.00 Ha.
Working circle	

2. Description of Area.

Soil type	Murrumy
Topography	Plain/Revines
Slope	Medium & Gentle
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 Dy.Conservator of Forest Gandhinagar Division as early as possible after the proposal is formally approved.
- (ii) Compensatory Afforestation will be done in **09.00** ha. area. The total afforestation cost will be about **Rs.40,47,066**/- Executive Engineer, R&B, Division No.26, Gandhinagar 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	Specification	s		
a	General Details	The C.A. will be taken under Compensate Afforestation for double land on deprevailing wage rate 324.50 per day.	ory graded Fo	rest Areas	. The
b	Spacement	3 X 3 mtr., 1111 plants per ha.			
С	Species to be planted				
	(No. of plants per ha.)	Species to be Plants	Nos.	Plants Hights	
		Neem	300	75 cm	
		Babool	400	65 cm	
		Bamboo	100	65 cm	
		Kanji	200	75 cm	
		Arjun Sadad	100	90 cm	
		Total	1111		
d	Nursery Technique	Nine months old polypot raised plants with monsoon.		,	
е	Site Preparation	The malformed rootstock present in the site will be cleaned in the month of I digging 45 x 45 x 45 cms. will be carried Jan.	Nov-Dec.	Alignment	& pit
f	Plantation Method	Polypot raised plants will be planted during	ng monsoo	n.	
g	Soil & Moisture	(i) Pucca structure like Check dam, cl	heck wall,	retaining w	all
	Conservation Works	(ii) Contour trenches 2.00 x 0.45 x 0 along the contour line, the dug of down ward side. Gully plugging loose stone available in the area requirement. Seeds of Jatropha, planted during monsoon in the suitability.	tt soil will & Nala B will be c Agave plat upper sid	be heaped anding using carried out onto the contract of the co	on the ng The as per will be as per
h	Protection Trench	Barbed wire fencing, Seed sowing A Ipomea/Glarcidia along the fence			
i	Silvicultural Operations	1 st year three weeding soil working, provided if needed. 2 nd year two weeding soil working. 3 rd year one weeding soil working.			vill be
j	Maintenance	It is proposed to maintain the Plantation u			
k	Subsequent	Cleaning, cutbacks, thinning etc. (as per			
	silvicualtural Operation	will be carried out at the age as per prescr	ribed in the	e working p	lan.

1	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 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.

Dy. Conservator of Forest Gandhinagar Division Gandhinagar

The Compensatory Afforestation scheme at the cost of Rs.40,47,066/- is technically and administrative approved by the undersigned.

DATE 2 9 DEC 2020
PLACE :- GANDHINAGAR

Dy. Conservator of Forest Gandhinagar Division Gandhinagar **Sub :-** A proposal has been received by this office from Ex.engineer, R&B Gandhinagar., Division no.26, for Permission for Diversion (under FCA) of 4.0788 ha. Protected Forest Land for Widening of existing Road No.5 & "K" Road in gandhinagar Detailed scheme of Compensatory Afforestationfor degraded area 09.00 ha. to be carried out in lieu of 4.0788 ha. of Protected forest land to be diverted in Gandhinagar district.

Daily wages Rs. 324.5

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,	1222	0	1914	1914
fartillizer, insecticides, implements, rent of lands.				
Shade, etc. (including 10 % for casuality	/			
replacement) (b) labour : Preparation of beds, filling and arranging of	1222	4681	242	4923
bags, showing of seeds, watering shifting, weeding	1			
etc.	1			
(c) Seedling cost for casuality replacement in one year	222	1478	443	1921
old (20%)			1	
(I) O III and for a small in the season in t	- 111	741	320	961
(d) Seedling cost for casuality replacement in two year		741	220	901
old (10%)		0000	2040	9720
Total		6900	2819	9720
2. Area Development (Land Preparation)				
(a) Survey, cutback and promotion of root suckers		3518	0	3518
	11110000	10157		
(b) Aligment and digging of pits 0.45 X 0.45 X 0.45	1111@ 6.00	10157	0	10157
	-	13675	0	13675
Total		13073	o _l	130/3
(a) Natural fertilizer (Neem cake/ Castor cake)	1111 @ 5.00	0	10361	10361
Total		0	10361	10361
3. SMC Works	1 × 25 (18.44) % (400) 223			erens (g/Q)
(a) Check wall/ retaining wall /checkdem (all pucca only)	L.S.	12495	24804	37299
(b) Contour trench 2 M x 45 Cm x 30 Cm as per	600 rmt.	9511	0	9511
Rs.17.00/rmt		33.1	J	0011
Total		22006	24804	46810
The same of the sa				

T			
1.0	2720	27200	44000
L.S.			41029 1658
		430	1000
	4890	37797	42687
	47471	75781	123252
1222	3591	358	3949
1111	1970	407	2377
1111	6054	0	6054
111	210	47	258
1111	23600	0	23600
	15086	21647	36733
	4883	0	4883
	1221	0	1221
	0	1221	1221
	56615	23680	80294
	13107	0	13107
111+111	220	1097	1317
Rs.5/ plant	0	12244	12244
-	9803	14070	23873
	5290	0	5290
200	28420	27411	55831
			A and well a comment
	14116	0	14116
111	119	592	710
Rs.5/ plant	0	13185	13185
	3520	5051	8570
g L.S.	7121	0	7121
	24875	18827	43702
	7561	0	7561
ng L.S.	7629	0	
	15191	0	15191
·····································			
L.S.	8138	3 0	8138
	1111 1111 1111 1111 1111 1111 Rs.5/ plant 111 Rs.5/ plant 111 Rs.5/ plant 111 Rs.5/ plant	1160 4890 47471 1222 3591 1111 1970 1111 6054 111 210 1111 23600 15086 4883 1221 0 56615 13107 111+111 220 Rs.5/ plant 0 9803 5290 28420 14116 111 119 Rs.5/ plant 0 3520 7121 24875	1160

6thYear				
Protection & maintenance of fencing/ tending operation	L.S.	8647	0	8647
Total for 6th year		8647	0	8647
7thYear				
Protection & maintenance of fencing/ tending operation	L.S.	9155	0	9155
Total for 7th year		9155	0	9155
8thYear				
Protection & maintenance of fencing/ tending operation	L.S.	9664	0	9664
Total for 8th year		9664	0	9664
9thYear			and the second second second second	Maria and a second
Protection & maintenance of fencing/ tending operation	L.S.	10172	0	10172
Total for 9th year		10172	0	10172
10thYear				
Protection & maintenance of fencing/ tending operation	L.S.	10681	0	10681
Total for 10th year		10681	0	10681
SUB TOTAL:		229029	145699	374728
The Cost of Supervision/subsequental silvicultureal Operations	20%	45806	29140	74946
GRAND TOTAL:		274834	174839	449674

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 1.00 ha. Area.

1 Ha cost, Rs. 449674 X 9.0 Ha. = Total Cost Rs.: 40,47,066/-

Dy. Conservator of Forest Gandhinagar Division Gandhinagar

DATE2-9 DEC 2020 PLACE:- GANDHINAGAR

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Name of works	Model	Area	Rate per					Атоп	Amount (Daily wage: Rs.324.50)	ge: Rs.324.5	(0)				
	į	H.A.	Нас	Zero Year Rs.	Ist Year Rs.	IInd Year Rs.	III rd Year Rs.	IVth Year Rs.	Vth Year Rs.	VIth Year Rs.	VIIth Year Rs.	VIIIth Year Rs.	IXth Year Rs.	Xth Year Rs.	Total Rs.
0 Year 70 % Adv.work. Ist Year Operation.	SMC	9.00	123252	1109268	0	0	0	0	0	0	0	0	0	0	1109268
Ist Year 30 % Advance work Current year plantation			80294	0	722646	0	0	0	0	0	0	0	0	0	722646
2nd Year operation Maintanance of one year old plantation.			55831	0	0	502479	0	0	0	0	0	0	0	0	502479
3rd Year operation Maintanance of 2 years old plantation.			43702	0	0	0	393318	0	0	0	0	0	0	0	393318
4th year operation Maint.of 3 years old plantation.			15191	0	0	0	0	136719	0	0	0	0	0	0	136719
5th year operation Maint.of 4 years old plantation.			8138	0	0	0	0	0	73243	0	0	0	0	0	73243
6th year operation Maint.of 5 years old plantation.			8647	0	0	0	0	0	0	77824	0	0	0	0	77824
7th year operation Maint.of 6 years old plantation.			9155	0	0	0	0	0	0	0	82396	0	0	0	82396
8th year operation Maint.of 7 years old plantation.			9664	0	0	0	0	0	0	0	0	86976	0	0	86976
9th year operation Maint.of 8 years old plantation.			10173	0	0	0	0	0	0	0	0	0	91557	0	91557
10th year operation Maint.of 9 years old plantation.			10681	0	0	0	0	0	0	0	0	0	0	96129	96129
SUB Total (+/- 2)			374728	1109268	722646	502479	393318	136719	73243	77824	82396	86976	91557	96129	3372555
The Cost of Supervision/Subsequental/Silvi cultureal opertion (20%)			74946									,			674511
GRAND Total			449674	1109268	722646	502479	393318	136719	73243	77824	82396	86976	91557	96129	4047066

Dy. Conservator of Forest Gandhinagar Division Gandhinagar

DATE 2 9 DEC 2020 PLACE - GANDHINAGAR