Compensary Afforestation Scheme for double degraded area

A Proposal for the approval of Forest land Proposed to be diverted for non forest purposes for "Road No.6" and "Raod G" in gandhinagar.

Detailed scheme of Compensatory Afforestation for degraded area **41.00 ha.** to be carried out in lieu of 20.41 ha. of Protected forest land to be diverted in Gandhinagar district.

1. Details of degraded land.

Village	Mahudi
Taluka	Mansa
Range	Mansa
District	Gandhinagar
Division	Gandhinagar
Block/ Patal, Compartment No.	1 Paiki
Area to be afforested	41.00 Ha.
Working circle	SMC

2. Description of Area.

Soil type	Mummumar
Topography	Murrumy
	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 41.00 ha. area. The total afforestation cost will be about Rs. 31079599 + 4032000 (Protection Wall) = 3,51,11,599/- Gandhinagar Smart City Devlopment Ltd. 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:-

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Technical details of Compensatory Afforestation are as Follows:

Sr.	Detail			
No.	Details	Specifications		
a	General Details	The C.A. will be taken under Compensato Afforestation for double land on deg prevailing wage rate is 452.00 per day.	ry graded Fo	rest Areas. The
b	Spacement	3 X 3 mtr., 1111 plants per ha.		
с	Species to be planted	, planto por ha.		
	(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 will monsoon.	ll be plant	ed at the onset of
e	Site Preparation	The malformed rootstock present in the a site will be cleaned in the month of N digging 45 x 45 x 45 cms. will be carried Jan.	lov-Dec.	Alignment & pit
f	Plantation Method	Polypot raised plants will be planted during	g monsoor	ı.
g	Soil & Moisture Conservation Works	 (i) Pucca structure like Check dam, ch (ii) Contour trenches 2.00 x 0.45 x 0.3 along the contour line. the dug out down ward side. Gully plugging & loose stone available in the area requirement. Seeds of Jatropha, A planted during monsoon in the u suitability. 	30, 300 No soil will & Nala Ba will be ca gave plan	os/ha.will be dug be heaped on the anding using The arried out as per itsetc. will be
h	Protection Trench	Barbed wire fencing, Seed sowing And Ipomea/Glarcidia along the fence	d planting	g of cuttings of
i	Silvicultural Operations	1 st year three weeding soil working, S 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		
k	Subsequent silvicual tural Operation	Cleaning, cutbacks, thinning etc. (as per sp will be carried out at the age as per prescri		
	silvicualtural Operation	will be carried out at the age as per present	o sa m m	Prairie Prairie

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	D	
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 4th 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.
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n	Silviculture & other activities	Only afforestation aimed plantation will be taken up, as the area falls under degraded forest land.

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Dy. Conservator of Forest Gandhinagar Forest Division Gandhinagar

The Compensatory Afforestation scheme at the cost of **Rs.3,51,11,599**/- is technically and administrative approved by the undersigned.

Dy. Conservator of Forest Gandhinagar Forest Division Gandhinagar Sub:- A Proposal for the approval of Forest land Proposed to be diverted for non forest purposes for "Road No.6" and "Raod G" in gandhinagar. Detailed scheme of Compensatory Afforestation for degraded area 41.00 ha. to be carried out in lieu of 20.41 ha. of Protected forest land to be diverted in Gandhinagar district.

Daily wages Rs. 452.00

pacements ≈ 3 m x 3 m				
111 seedling / Ha				
st year replacement 10 % = 111 seedling /ha				
nd year replacement 20 % = 111+111 seedling /ha				
rd year replacement 10 % = 111 seedling /ha				
otal Seedlings = 1333 seedling /ha				
Polypot size : 15 cm x 25 cm x 200				Tetal
Item of work	Qty.	Labour	Matorial	Total
1	2	3	4	5
) year				
Nursery				000
a) Cost of soil, manure, seeds, water,	1222	0	2666	2666
fartillizer, insecticides, implements, rent of lands.				
Shade, etc. (including 10 % for casuality replacement)				
Density of hade filling and even sing of	1222	6520	338	6858
(b) labour : Preparation of beds, filling and arranging of bags, showing of seeds, watering shifting, weeding	1222	0020		
etc.				
(c) Seedling cost for casuality replacement in one year	222	2059	616	2676
old (20%)	111	1032	307	1339
(d) Seedling cost for casuality replacement in two year		1002		
old (10%)				
Total		9611	3927	13539
2. Area Development (Land Preparation)				
		4900	0	4900
(a) Survey, cutback and promotion of root suckers		4900	U U	4300
		44149	0	1414
(b) Aligment and digging of pits 0.45 X 0.45 X 0.45	1111@ 6.00	14148	U U	14140
		19048	0	19048
Total	1111 0 5 00	19048	14431	1443
(a) Natural fertilizer (Neem cake/ Castor cake)	1111 @ 5.00	0	14451	1445
		0	14431	1443
Total				
3. SMC Works	IS	17405	34549	5195
(a) Check wall/ retaining wall /checkdem (all pucca only)	2.0.			
(b) Contour trench 2 M x 45 Cm x 30 Cm as per	600 rmt.	13248	0	1324
Rs.17.00/rmt				
(300 trench)				
Total		30653	34549	6520
4. Protection				
(a) Barbed wire fencing	Rmt. 450	16689	150197	16688
	Rmt. 1100	1612800	2419200	403200

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(c) Seed sowing and planting of cuttings of varius plant species along the fence		1615	694	2310
Total		4024404	2570091	4201195
Sub Total of 0 year		1631104 77617	203799	281410
1st Year				
(a) Maintenance of nursery (April to June)	1222	5002	498	5500
(b) Transport of seedling for plantation		2744	567	3311
	1111	2/44	507	
(c) Planting with khamna of Min 1 m dia	1111	8433	0	8433
(d)Transport of seediling for casualty replacement	111	293	66	359
(e) 3 weeding cum soil working	1111	32873	0	32873
(f) Support watering 5 times @ 3.25		21013	30152	51165
(g) Protection / tending operation		6801	0	6801
(h) Tending to natural vegetation		1700	0	1700
(i) Contigency		0	1700	1700
Total for 1st year		78859	32984	111843
2nd Year				
(a) 2 weeding & soil working		18257	0	18257
(b) 20 % Casually replecement, transport and planting	111+111	307	1528	1835
(c) Natural fertilizer (neem cake / caster cake) etc.	Rs.5/ plant	0	17055	17055
(d) Support watering 3 times @ 3.25		13654	19598	33253
(e) Protection / tending operation		7368	0	7368
Total for 2nd year		39587	38181	77768
3rd Year				
(a) 2 weeding & soil working		19662	0	19662
(b) 10 % Casually replecement, transport and planting	111	165	824	989
(c) Natural fertilizer, neem cake etc.	Rs.5/ plant	0	18366	18366
(d) Support watering 1 times @ 3.25		4903	7035	11938
(e) Protection & maintenance of fencing / tending operation	L.S.	9918	0	9918
Total for 3rd year		34649	26225	60874
4thYear				
(a) 1 weeding & soil working		10532	0	10532
(b) Protection & Maintenance of fencing/ Tending operation	L.S.	10627	0	10627
Total for 4th year		21159	0	21159
5thYear				
Protection & maintenance of fencing/ tending operation	L.S.	11335	0	11335
Total for 5th year		11335	0	11335
6thYear				

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Protection & maintenance of fencing/ tending operation				
	L.S.	12044	0	12044
Total for 6th year				
7thYear		12044	0	12044
Protection & maintenance of fencing/ tending operation				
tending operation	L.S.	12752	0	10750
Total for 7th year		12702	0	12752
8thYear		12752	0	12752
Protection & maintenance of fencing/ tending operation				
Total for 8th year	L.S.	13461	0	13461
9thYear		13461	0	13461
Protection & maintenance of fencing/ tending operation				13401
Total for Date	L.S.	14169	0	14169
Total for 9th year		44400		
10thYear		14169	0	14169
Protection & maintenance of fencing/ tending operation	L.S.	14878	0	14878
Total for 10th year				. 10/ 0
		14878	0	14878
SUB TOTAL :		330510	301189	631700
The Cost of Supervision/subsequental silvicultureal	20%	66102	60238	
Operations		00102	00230	126340
		396612	361427	758039

Note :-

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

(2) Planting of cutting varius plant species along the fencing towards outer side.

Compensatory afforestation will be done in 1.00 ha. Area. 1 Ha cost, Rs. 758039 X 41.00 Ha. = Total Cost Rs. 31079599+4032000 = 3,51,11,599/-

Dy.Conservator of Forests Gandhinagar Forest Division Gandhinagar

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TLOUTE TO BE CALLED OUT IT THE OT 2014 THE OF TOCCELED FOR EXAMINE WATER TO THE AND A STATE AND A STAT	Model	Area	Rate per						Amount (Daily wage: Rs.452)	lly wage: Rs.	452)				
	No.								100	Vieh Vaar	Vilth Year	viith Year Viilth Year	- IXth Year	Xth Year	Total Rs.
		H.A.	Hac	Zero Year Rs.	lst Year Rs.	lind Year Rs.	UI rd Year Rs.	IVth Year Rs.	Vth Year Rs.		Rs.	Rs.	ž	Rs.	
0 Year 70 % Adv.work. 1st Year Operation.	SMC	41.00	281416	15570041	0	0	0	0	0	0	0	0	0	0	15570041
1st Year 30 % Advance work Current year plantation			111843	0	4585557	0	0	0	0	0	0	0	0	0	4585557
2nd Year operation Maintanance of one year old plantation.			77768	0	0	3188492	0	0	•	0	0	0	0	0	3188492
3rd Year operation Maintanance of 2 years old mantation			60874	0	0	0	2495817	0	0	0	0	0	0	0	2495817
4th year operation Maint of 3 vears old plantation.			21159	0	0	0	0	867538	0	0	•	0	0	0	867538
5th year operation Maint.of 4 vears old plantation.			11335	0	0	0	0	0	464752	0	0	0	0	•	464752
6th year operation Maint of 5 vears old plantation.			12044	0	0	0	0	0	0	493799	0	0	0	0	493799
7th year operation Maintof 6 vears old plantation.			12752	0	0	0	0	0	0	0	522846	0	0	0	522846
Bth year operation Maint of 7 vears old plantation.			13461	0	0	0	0	0	•	0	0	551893	0	0	551893
9th year operation Maint of 8 vears old plantation.			14169	0	0	0	0	0	0	0	0	0	580940	0	580940
10th year operation Maint.of 9 years old plantation.			14878	0	0	0	0	0	0	0	0	0	0	609987	609987
			631700												
The Cost of Supervision/Subsequental/Sil vicultureal onertion			126340												5179936
Total (+/- 2)			758039	758039 15570041		4585557 3188492 2495817	2495817	867538	464752	493799	522846	551893	580940	609987	35111599
													6		

Dy.Conservator of Forests Gandhinagar Forest Division Gandhinagar