# Compensary Afforestation Scheme for double degraded area

A Proposal for diversion of (Area 0.0915 Ha.) forest land for Non-Forest purpose for laying of 250 mm Dia Steel Water Pipeline by GIDC along and Across on various roads of gnadhinagar in village Adiwada Taluka Gandhinagar of district Gnadhinagar.

Detailed scheme of Compensatory Afforestation for degraded area **1.00** ha. to be carried out in lieu of **0.0915** ha. of Protected forest land to be diverted in Gandhinagar district.

### 1. Details of degraded land.

Village	Ended
Taluka	Fudeda
Range	Vijapur
District	Mansa
	Gandhinagar
Division	Gandhinagar
Block/ Patal, Compartment No.	699 paiki
Areato be afforested	1.00 Ha.
Working circle	F.S.9/Coup No. 7 Paiki
	WC-AWC

#### 2. Description of Area.

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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:-

(1)	The Compensatory Afforestation on Non forest area would be started by	٦
	Dy.Conservator of Forest Gandhinagar Division as early as possible after the	
	proposal is formally approved.	

(ii) Compensatory Afforestation will be done in 1.00 ha. area. The total afforestation cost will be about Rs.5,95,869/- Executive Engineer, Gujarat Industrial Development Corporation, Ahmedabad has given an undertaking to pay the cost of Compensatory Afforestation as per the prevailing wages (including the price escalation and supervision charges).

#### 10. Technical Details:-

Technical details of Compensatory Afforestation are as Follows:

S.N.	Details	Specifications
а	General Details	The C.A. will be taken under Compensatory Afforestation for Non
		forest area. The prevailing wage rate is <b>355.30</b> per day.

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0	Spacement	3 X 3 mtr.,	1111 plants per ha.		
С	e planted				
	(No. of plants per ha.)	Sr.No.	Species to be Plants	Nos.	Plants Hights
		1	Neem	300	75 cm
		2	Kanji	100	75 cm
		3	Arjun Sadad	100	90 cm
		4	Bamboo	111	65 cm
		5	Jamun	50	75 cm
		6	Biyo	50	90 cm
		7	Rayan	30	75 cm
		8	Baheda(Terminalia)	40	90 cm
		9	Kadayo	50	65 cm
		10	Vad	50	90 cm
		11	Simalo	50	75 cm
		12	Kosam	30	75 cm
		13	Khijdo	20	65 cm
		14	Amali	30	75 cm
		15	Others	100	75 cm <b>to</b> 90 cm
d			Total	1111	
		i une monu	18 old polypot raised pl	ante will h	o planted at the
e	Site Preparation	The malfor the site wil digging 45	ns old polypot raised pla n. med rootstock present l be cleaned in the mor x 45 x 45 cms. will be c	in the ar	ea will be cutback
e f		The malfor the site wil digging 45 Jan.	n. med rootstock present l be cleaned in the mor x 45 x 45 cms. will be c	in the ar oth of Nov- arried out	ea will be cutback Dec. Alignment & in the month of De
f	Site Preparation Plantation Method Soil & Moisture	The malfor the site wil digging 45 Jan. Polypot rais	n. med rootstock present l be cleaned in the mor x 45 x 45 cms. will be c sed plants will be plante	in the ar oth of Nov- arried out	ea will be cutback Dec. Alignment & in the month of De
	Plantation Method	of monsoon The malfor the site wil digging 45 Jan. Polypot rais (i) Pucc (ii) Cont dug on t using out a etc nala	n. med rootstock present l be cleaned in the mor x 45 x 45 cms. will be c sed plants will be plant ca structure like Check o cour trenches 2.00 x 0. along the contour line. he down ward side. G g The loose stone avail as per requirement. Se . will be planted during as per suitability.	in the ar ath of Nov- arried out ed during r lam, check 45 x 0.30 the dug ou fully plugg able in the eeds of Jat g monsoor	ea will be cutback Dec. Alignment & in the month of De monsoon. wall, retaining wal 300 Nos/ha.will at soil will be heap ging & Nala Bandi e area will be carrie tropha, Agave plan in the upper side
f	Plantation Method Soil & Moisture	of monsoon The malfor the site wil digging 45 Jan. Polypot rais (i) Pucc (ii) Cont dug on t using out a etc nala Barbed wir	n. med rootstock present l be cleaned in the mor x 45 x 45 cms. will be c sed plants will be plant a structure like Check o cour trenches 2.00 x 0. along the contour line. he down ward side. G g The loose stone avail as per requirement. Se . will be planted during as per suitability. e fencing, Seed sowin	in the ar ath of Nov- arried out ed during r lam, check 45 x 0.30 the dug ou fully plugg able in the eeds of Jat g monsoor	ea will be cutback Dec. Alignment & in the month of De monsoon. wall, retaining wal 300 Nos/ha.will at soil will be heap ging & Nala Bandi e area will be carrie tropha, Agave plan in the upper side
f g	Plantation Method Soil & Moisture Conservation Works	The malfor the site wil digging 45 Jan. Polypot rais (i) Pucc (ii) Cont dug (ii) Cont dug on t using out a etc nala Barbed wir Ipomea/Gla 1 <sup>st</sup> year thre provided if n 2 <sup>nd</sup> year two	n. med rootstock present l be cleaned in the mor x 45 x 45 cms. will be c sed plants will be plant a structure like Check o cour trenches 2.00 x 0. along the contour line. he down ward side. G g The loose stone avail as per requirement. Se . will be planted during as per suitability. e fencing, Seed sowin rcidia along the fence weeding soil working. b weeding soil working.	in the ar arried out ed during p lam, check 45 x 0.30 the dug ou fully plugg able in the eeds of Jat g monsoor g And pla	ea will be cutback Dec. Alignment & in the month of De monsoon. wall, retaining wal , 300 Nos/ha.will at soil will be heap ging & Nala Bandi e area will be carrie tropha, Agave plan in the upper side
f g	Plantation Method Soil & Moisture Conservation Works Protection Trench Silvicultural	The malfor the site wil digging 45 Jan. Polypot rais (i) Pucc (ii) Cont dug on t using out a etc nala Barbed wir Ipomea/Gla 1 <sup>st</sup> year thre provided if 2 <sup>nd</sup> year two 3 <sup>rd</sup> year one	n. med rootstock present l be cleaned in the mor x 45 x 45 cms. will be c sed plants will be plant ca structure like Check o cour trenches 2.00 x 0. along the contour line. he down ward side. G g The loose stone avail as per requirement. Se . will be planted during as per suitability. e fencing, Seed sowin rcidia along the fence be weeding soil workin needed.	in the ar ath of Nov- arried out ed during r lam, check 45 x 0.30 the dug ou fully plugg able in the eeds of Jat g monsoor g And pla	ea will be cutback Dec. Alignment & j in the month of De monsoon. wall, retaining wal , 300 Nos/ha.will at soil will be heap ging & Nala Bandin e area will be carrie tropha, Agave plan in the upper side unting of cuttings ort watering will b

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	silvicualtural Operation	requirement) will be carried out at the age as per prescribed in the working plan.
1	Proposed monitoring mechanism	<ul> <li>(i) A plantation register is to be maintained.</li> <li>(ii) Monitoring is to be done as per the following norms.</li> <li>Forester - 100%</li> <li>RFO - 100%</li> <li>ACF - 20%</li> <li>DCF - 10%</li> <li>(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.</li> <li>(iv) At the end of maintenance period, the area is aimed at full stocking and pole crop girth for all the species, except bamboo.</li> <li>(v) 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.</li> </ul>
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 Forest Division Gandhinagar

The Compensatory Afforestation scheme at the cost of **Rs.5,95,869**/- is technically and administrative approved by the undersigned.

( Dr.C.M.Shanadre ) Dy. Conservator of Forest Gandhinagar Forest Division Gandhinagar

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**Sub:-** A Proposal for diversion of (Area 0.0915 Ha.) forest land for Non-Forest purpose for laying of 250 mm Dia Steel Water Pipeline by GIDC along and Across on various roads of gnadhinagar in village Adiwada Taluka Gandhinagar of district Gnadhinagar.

Detailed scheme of Compensatory Afforestation for degraded area 1.00 ha. to be carried out in lieu of 0.0915 ha. of Protected forest land to be diverted in Gandhinagar district.

#### Daily wages Rs. 355.30

Spacements = 3 m x 3 m				
1111 seedling / Ha				
1st year replacement 10.0/ 111				
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				5
0 year	2	3	4	5
Nursery				
(a) Cost of soil, ,manure, seeds, water,	1000	0	2096	20
fartillizer, insecticides, implements, rent of lands.	1222	0	2090	20
Shade, etc. (including 10 % for casuality replacement)				
(b) labour : Preparation of beds, filling and arranging of	1000	<b>F1</b> 2 <b>F</b>	265	539
bags, showing of seeds, watering shifting, weeding etc.	1222	5125	265	23
(c) Seedling cost for casuality replacement in one year old				
(20%)	222	1619	485	21
		1		
(d) Seedling cost for casuality replacement in two year old (10%)	111	811	241	105
Total		7555	3087	1064
2. Area Development (Land Preparation)				
(a) Survey, cutback and promotion of root suckers		3852	0	385
(b) Aligment and digging of pits 0.45 X 0.45 X 0.45 Total	1111@ 6.00	11121	0	1112
	1111 0 7 00	14973	0	1497
(a) Natural fertilizer (Neem cake/ Castor cake) Total	1111@5.00	0	11344	1134
3. SMC Works		0	11344	1134
(a) Check wall/ retaining wall /checkdem (all pucca only)	L.S.	13681	27158	4083
b) Contour trench 2 M x 45 Cm x 30 Cm as per	600 rmt.	10414	0	1041
Rs.17.00/rmt				
(300 trench)		24095	05450	
. Protection		24095	27158	5125
a) Barbed wire fencing	Rmt. 450	13119	110064	
	KIII. 450	13119	118064	13118
b) Seed sowing and planting of cuttings of Ipomea/		1270	546	181
ilaricidia along the fence				101
otal		14389	118610	13299
ub Total of 0 year		61012	160199	22121
st Year				
a) Maintenance of nursery (April to June)	1222	3932	392	4324
b) Transport of seedling for plantation	1111	2157	446	2603
c) Planting with khamna of Min 1 m dia	1111	6629	0	6629
d)Transport of seediling for casualty replacement	111	230	52	282
e) 3 weeding cum soil working	1111	25840	0	25840
) Support watering 5 times @ 3.25		16518	23702	40220
g) Protection / tending operation		5346	0	5346
n) Tending to natural vegetation		1337	0	1337
) Contigency		0	1337	1337
otal for 1st year		61989	25929	87918

2nd Year				
(a) 2 weeding & soil working				
(b) 20 % Casually replacements		14351	0	14351
(c) Natural fertilizer (neem cake / caster cake ) etc.	111+111	241	1201	1442
(d) Support watering 3 times @ 3.25	Rs.5/ plant	0	13406	13406
(e) Protection / tending operation		10733	15406	26139
Total for 2nd year		5792	0	5792
3rd Year		31117	30013	61130
(a) 2 weeding & soil working				
(b) 10 % Casually replecement i		15456	0	15456
	111	130	648	778
(u) Support Watering 1 times @ 2.25	Rs.5/ plant	0	14437	14437
(e) Protection & maintenance of fencing / tending operation		3854	5530	9384
operation de mancenance of fencing / tending	L.S.	7797	0	7797
Total for 3rd year				
4thYear		27237	20615	47852
(a) 1 weeding & soil working				
(b) Protection & Maintenance of fencing/ Tending		8279	0	8279
operation de Maintenance of fencing/ Tending	L.S.	8353	0	8353
Total for 4th year				
5thYear		16632	0	16632
Protection & maintenance of fencing/ tending operation Total for 5th year	L.S.	8910	0	8910
6thYear		8910	0	8910
		5		
Protection & maintenance of fencing/ tending operation Total for 6th year	L.S.	9467	0	9467
7thYear		9467	0	9467
Protection & maintenance of fencing/ tending operation				
Total for 7th year	L.S.	10024	0	10024
SthYear		10024	0	10024
Protection & maintenance of fencing/ tending operation				
Total for 8th year	L.S.	10581	0	10581
9thYear		10581	0	10581
Protection & maintenance of fencing/ tending operation				
Total for 9th year	L.S.	11138	0	11138
10thYear		11138	0	11138
Protection & maintenance of fencing/ tending operation				
Total for 10th year	L.S.	11695	0	11695
SUB TOTAL :		11695	0	11695
The Cost of Supervision/subsequental silvicultureal		259802	236756	496558
Operations	20%	51960	47351	99311
·perations				
		311762	284107	595869

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.

 Par Cost
 Rs.

 1 Ha cost
 595869.00

The Total Total Cost Rs. 595869.00

Ha.

1.00

( Dr.C.M.Shanadre) Dy. Conservator of Forest Gandhinagar Forest Division Gandhinagar

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district. scheme of Compensatory Afforestation for degraded area 1.00 ha. to be carried out in lieu of 0.0915 ha. of Protected fo РЧ

Name of works Model Area Rate per	Model	Area	Rate per			Amount (Daily wage: Rs.355.30)		V	Amount (Daily wage: Rs.355.30)	wage: Rs.355	30)				
	ov	(на.)	(на.)	Zero Year Rs.	lst Year Rs.	llnd 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	33.00	221211	7299963	0	0	0	0	0	0		0		0	0 7299963
lst Year 30 % Advance work Current year plantation			87918	0	2901294	0	0	0	0	0	0	0	0		0 2901294
2nd Year operation Maintanance of one year old plantation.			61130	0	0	2017290	0	0	0	0	0	0	0		0 2017290
<b>3rd Year operation Maintanance</b> of 2 years old plantation.			47852	0	0	0	1579116	0	0	0	0	0	0	0	1579116
4th year operation Maint. of 3 years old plantation.			16632	0	0	0	0	548856	0	0	0	0	0	0	548856
5th year operation Maint. of 4 years old plantation.			8910	0	0	0	0	0	294030	0	0	0	0	0	294030
6th year operation Maint. of 5 years old plantation.			9467	0	0	0	0	0	0	312411	0	0	0	0	312411
7th year operation Maint of 6 years old plantation.			10024	0	0	0	0	0	0	0	330792	0	0	0	330792
8th year operation Maint. of 7 years old plantation.			10581	0	0	0	0	0	0	0	0	349157	0	0	349157
9th year operation Maint. of 8 years old plantation.			11138	0	0	0	0	0	0	0	0	0	367554	0	367554
10th year operation Maint. of 9 years old plantation.			11695	0	0	0	0	0	0	0	0	0	0	385935	385935
SUB Total (+/- 2)			496558	7299963	2901294	2017290	1579116	548856	294030	312411	330792	349157	367554	385935	16386398
The Cost of Supervision / Subsequental/Silvicultureal opertion (20%)			99311			•									3277280
GRAND Total			595869	7299963	2901294	2017290	1579116	548856	294030	312411	330792	349157	367554	385935	19663677
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