## Compensary Afforestation Scheme for Non Forest Land

A proposal under forest conservation act 1980 proposal for construction of barrage and road across in sabarmati river (area 10.19 ha.) Near hirpura taluka vijapur of mehsana district Datailed sabama of Commensatemy Afformation for desmaled area 10.10 hours

Detailed scheme of Compensatory Afforestation for degraded area 10.19 ha. to be carried out in lieu of 10.19 ha. of Reserved forest land to be diverted in Mahesana district.

### 1. Details of degraded land.

Village	Rangpur(Gadh)
Taluka	Satlasana
Range	Dharoi
District	Mahesana
Division	Gandhinagar
Block/ Patal, Compartment No.	297 (Old S.No.65)
Area to be afforested	10.19 Ha.
Working circle	Govt. Land

#### 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:-

- 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 10.19 ha. area. The total afforestation cost will be about Rs.48,03,505/- Executive Engineer, Dharoi Canal Division-3, Mehasana 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		Specific	ations		
a	General Details	Afforestation	l be taken under Compo for Nov Fort land of age rate is 340.20 per da	n degraded	l Forest Areas.	The
b	Spacement		111 plants per ha.			
с	Species to be planted					
	(No. of plants per ha.)	Sr.No.	Species to be Plants	Nos.	Plants Hights	
		1	Neem	300	75 cm	1
		2	Kanji	100	75 cm	1
		3	Arjun Sadad	100	90 cm	1
		4	Bamboo	111	65 cm	1
		5	Jamun	50	75 cm	1
		6	Віуо	50	90 cm	1
		7	Rayan	30	75 cm	1
		8	Baheda(Terminalia)	40	90 cm	1
		9	Kadayo	50	65 cm	1
		10	Vad	50	90 cm	1
		11	Simalo	50	75 cm	1
		12	Kosam	30	75 cm	1
		13	Khijdo	20	65 cm	1
		14	Amali	30	75 cm	1
		15	Others	100	75 cm to 90 cm	
			Total	1111		
d e	Nursery Technique Site Preparation	monsoon. The malforn site will be	s old polypot raised pla med rootstock present i e cleaned in the montl	n the area h of Nov-I	will be cutback & Dec. Alignment &	k the
		digging 45 Jan.	x 45 x 45 cms. will be	carried ou	t in the month of	Dec
f	Plantation Method		ed plants will be planted	d during mo	onsoon.	
g	Soil & Moisture Conservation Works	(ii) Cont alon dow loos requ plan	a structure like Check of tour trenches 2.00 x 0.4 g the contour line. the of n ward side. Gully plu e stone available in the irement. Seeds of Jatro ted during monsoon in ability.	45 x 0.30, 3 dug out soi gging & N e area will opha, Agav	300 Nos/ha.will be I will be heaped of ala Banding using be carried out as e plantsetc. wi	e dug n the The s per ill be

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h	Protection Trench	Barbed wire fencing, Seed sowing And planting of cuttings of
		Ipomea/Glarcidia along the fence
i	Silvicultural Operations	1 <sup>st</sup> year three weeding soil working, Support watering will be provided if needed. 2 <sup>nd</sup> year two weeding soil working. 3 <sup>rd</sup> year one weeding soil working.
j	Maintenance	It is proposed to maintain the Plantation up to ten years.
k	Subsequent silvicualtural Operation	Cleaning, cutbacks, thinning etc. (as per species specific 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. 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.

(Dr.C.M.SHANADRE) Dy. Conservator of Forest Gandhinagar Forest Division Gandhinagar 2 5 APR 2022

The Compensatory Afforestation scheme at the cost of **Rs.48,03,505**/- is technically and administrative approved by the undersigned.



(Dr.C.M.SHANADRE) Dy. Conservator of Forest Gandhinagar Forest Division Gandhinagar 2 5 APP 2022

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**Sub:** A proposal under forest conservation act 1980 proposal for construction of barrage and road across in sabarmati river (area 10.19 ha.) Near hirpura taluka vijapur of mehsana district. Detailed scheme of Compensatory Afforestationfor degraded area 10.19 ha. to be carried out in lieu of 10.19 ha. of Reserved forest land to be diverted in Mahesana district.

(e) 3 weeding cum soil working (f) Support watering 5 times @ 3.25 (g) Protection / tending operation (h) Tending to natural vegetation (i) Contigency Total for 1st year 2nd Year (a) 2 weeding & soil working (b) 20 % Casually replecement, transport and planting (c) Natural fertilizer (neem cake / caster cake ) etc. (d) Support watering 3 times @ 3.25 (e) Protection / tending operation	1222 1111 1111 1111 1111 1111 1111 111		5         427           7         0           0         49           2         0           6         22694           9         0           80         0           0         1280           41         0           31         1150           0         12836           77         1475	249 634 267 2474 3851 0 511 0 126 5 8417 0 137 0 137 5 128
(e) 3 weeding cum soil working (f) Support watering 5 times @ 3.25 (g) Protection / tending operation (h) Tending to natural vegetation (i) Contigency Total for 1st year 2nd Year (a) 2 weeding & soil working (b) 20 % Casually replecement, transport and planting (c) Natural fertilizer (neem cake / caster cake ) etc.	1111 1111 1111 1111 1111	206 634 22 2474 1581 511 128 5935 5935 1374 22 1	5         427           7         0           0         49           2         0           6         22694           9         0           30         0           64         24825           41         0           31         1150           0         12836	249 634 267 2474 3851 0 511 0 126 5 8417 0 137 0 137 5 128
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<ul> <li>(e) 3 weeding cum soil working</li> <li>(f) Support watering 5 times @ 3.25</li> <li>(g) Protection / tending operation</li> <li>(h) Tending to natural vegetation</li> </ul>	1111 1111 111	206 634 22 2474 1581 511	5         427           7         0           0         49           2         0           6         22694           19         0           30         0	249 634 26 2474 3851 511 0 128
(e) 3 weeding cum soil working (f) Support watering 5 times @ 3.25 (g) Protection / tending operation	1111 1111 111	206 634 22 2474 1581 511	5         427           7         0           0         49           2         0           6         22694           9         0	249 634 26 2474 3851 9 511
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(e) 3 weeding cum soil working	1111 1111 111	206 634 22 2474	5 427 7 0 0 49 2 0	249 634 26 2474
	1111 1111 111	206 634 22	5 427 7 0 0 49	249 634 26
I UT I ANSDULL UL SCOUTTINE TUL LASUALLY I CUIALCHICHL	1111 1111	206 634	5 427 7 0	249 634
(d)Transport of seediling for casualty replacement	1111	206	5 427	249
(c) Planting with khamna of Min 1 m dia				
(b) Transport of seedling for plantation	1222	274	E 275	44
1st Year           (a) Maintenance of nursery (April to June)				
		4973	6 79448	12918
Sub Total of 0 year		509		4472
(b) Seed sowing and planting of cuttings of ipomea/ Giaricidia along the tence Total			and the second	173
(a) Barbed wire fencing (b) Seed sowing and planting of cuttings of Ipomea/ Glaricidia along the fence	L.S.	3879		4298
	L.S.	2070	20104	4200
4. Protection		23071	20004	4907
(b) Contour trench 2 M x 45 Cm x 30 Cm as per RS.17.00/rmt Total	600 rmt.	23071	In the second	to taken the state had been
(a) Check wall/ retaining wall /checkdem (all pucca only) (b) Contour trench 2 M x 45 Cm x 30 Cm as per Rs.17.00/rmt	L.S.	13100 9971		3910 997
3. SMC Works		12100	26004	2010
		U	10002	1000
(a) Natural fertilizer (Neem cake/ Castor cake) Total	1111@5.00	0		1086
	1111 @ 5.00	14330	10862	1435
(0) Aligment and digging of pits 0.45 X 0.45 X 0.45	1111@ 0.00	14336	0	1433
(a) Survey, cutback and promotion of root suckers (b) Aligment and digging of pits 0.45 X 0.45 X 0.45	1111@ 6.00	10648	0	1064
2. Area Development (Land Preparation)		3688	0	3688
	And the state of the	1234	2930	10190
d) Seedling cost for casuality replacement in two year old (10%) Total	111	777 7234	231	1008
c) Seedling cost for casuality replacement in one year old (20%)	222	1550	464 231	2014
eeds, watering shifting, weeding etc.				
b) labour : Preparation of beds, filling and arranging of bags, showing of	1222	4907	254	5161
of lands. Shade, etc. (including 10 % for casuality replacement)	1222	0	2007	2007
a) Cost of soil, manure, seeds, water, fartillizer, insecticides, implements, rent				
Jursery				
1 Vyear	2	3	4	5
Item of work	Qty.	Labour	Material	Total
olypot size : 15 cm x 25 cm x 200				
otal Seedlings = 1333 seedling /ha				
rd year replacement 10 % = 111 seedling /ha				
st year replacement 10 % = 111 seedling /ha nd year replacement 20 % = 111+111 seedling /ha				
seedling / Ha				
Dacements = 3 m x 3 m	Duny wuge	es Rs.340.20		

3rd Year				
(a) 2 weeding & soil working				
(b) 10 % Commission		14799	0	14799
(b) 10 % Casually replecement, transport and planting (c) Natural formula	111	125	621	746
	Rs.5/ plant	0	13823	13823
(d) Support watering 1 times @ 3.25		3690	5295	8985
(c) rotection & maintenance of fencing / tending operation	L.S.	7466	0	7466
Total for 3rd year		26080	19739	45819
4thYear				
(a) 1 weeding & soil working		7927	0	7927
(b) Protection & Maintenance of fencing/ Tending operation	L.S.	7998	0	7998
Total for 4th year		15925	0	15925
5thYear				
Protection & maintenance of fencing/ tending operation	L.S.	8532	0	8532
Total for 5th year		8532	0	8532
6thYear		0000	and the second	
Protection & maintenance of fencing/ tending operation	L.S.	9065	0	9065
Total for 6th year	a substances males and	9065	0	9065
7thYear				
Protection & maintenance of fencing/ tending operation	L.S.	9598	0	9598
Total for 7th year	SEL TANK SPECIA	9598	0	9598
8thYear				
Protection & maintenance of fencing/ tending operation	L.S.	10132	0	10132
Total for 8th year		10132	Ö	10132
9thYear				
Protection & maintenance of fencing/ tending operation	L.S.	10664	0	10664
Total for 9th year		10664	0	10664
10thYear				
Protection & maintenance of fencing/ tending operation	L.S.	11198	0	11198
Total for 10th year	and an a state of the second	11198	0	11198
Sub Total of 1 to 10 year		190343	73301	263644
SUB TOTAL	Statistic Section	240079	152749	392828
The Cost of Supervision/subsequental silvicultureal Operations	20%	48016	30550	78566
GRAND TOTAL		288095	183299	471394

Note :-

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

Compensatory afforestation cost is in 1.00 ha. Area. The Total afforestation cost will be Rs. 471394/- par Ha.

Cost Rs. 1 Ha cost 471394.00

Total Cost Rs. 4803504.86

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

Ha.

10.19

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Dy. Conservator of Forest Dy. Conservator of Forest Gandhinagar Forest Division Candhinagar 2 5 APR 2022

Name of works	Model	Area	Rate per					An	Amount (Daily wage: Rs.340.20)	age: Rs.340.20	6				
	é	(.ma.)	(m)	Zero Year Rs.	Ist Year Rs.	IInd Year Rs.	III rd Year Rs.	IVth Year Rs.	Vih Year Rs.	Vith Year Rs.	Vilth Year Rs.	VIIIth Year Rs.	IXth Year Rs.	Xth Year Rs.	Total Rs.
0 Year 70 % Adv.work. Ist Year Operation.	SMC	10.19	129184	1316388	0	0	0	e	C	e	0	0	0	0	1316388
lst Year 30 % Advance work Current year plantation			84179	0	857784	0	0	0	0	0	0	0	0	0	857784
2nd Year operation Maintanance of one year old plantation.			58532	0	0	596441	0	0	0	0	0	0	0	0	596441
3rd Year operation Maintanance of 2 years old plantation.			45819	0	0	0	466896	0	0	0	0	0	0	0	466896
4th year operation Maint of 3 years old plantation.			15925	0	0	0	0	162276	0	0	0	0	0	0	162276
5th year operation Maint of 4 years old plantation.			8532	0	0	0	0	0	86941	0	0	0	0	0	86941
6th year operation Maint of 5 years old plantation.			9065	0	0	0	0	0	0	27529	0	0	0	0	92372
7th year operation Maint of 6 years old plantation.			9598	0	0	0	0	0	0	0	97804	0	D	0	97804
8th year operation Maint of 7 years old plantation.			10132	0	0	0	0	0	0	0	0	103245	0	0	103245
9th year operation Maint of 8 years old plantation.			10664	0	0	0	0	0	0	0	0	0	108666	0	108666
10th year operation Maint. of 9 years old plantation.			11198	0	0	0	0	0	0	0	0	0	0	114108	114108
SUB Total (+/-2)			392828	1316388	857784	596441	466896	162276	86941	92372	97804	103245	108666	114108	4002920
The Cost of Supervision / Subsequental/Silvicultureal opertion (20%)			78566							,					800584
GRAND Total			471394	1316388	857784	596441	466896	162276	86941	92372	97804	103245	108666	114108	4803505

Sub: A proposal under forest conservation act 1980 proposal for construction of barrage and road across in sabarmati river (area 10.19 ha.) Near hirpura taluka vijapur of mehsana district. Detailed scheme of Compensatory Afforestationfor degraded area 10.19 ha to be carried out in lieu of 10.19 ha of Reserved forest land to be diverted in Malesana district. Comré

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