


Annexure - 18

Diversion of for 0.12372 Ha. Protected Forest land for 900 mm Dia MDPE Gas Pipeline crossing & parallel connectivity for Vagoshana to Boru Ta.Mansa, District.Gandhinagar.

Gandhinagar Forest Division

Sr. No.	Name of Village	Taluka	District	Forest Survey No.	Total area. Ha	Area Carried out of C.A.ha.	C.A. Area to be carried out for this proposal ha.	Balance area for C.A. in ha.
1	2	3	4	5	6	7	8	9
1	Khari	Satlasana	Maheana	11 Paiki	461.74	0.090	0.090	461.65

PLACE:- GANDHINAGAR
DATE:-


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

11 8 DEC 2023

CERTIFICATE

This is certified that the Compensatory Afforestation scheme attached here with for 0.12372 ha. Village-Khari, Taluka.Satlasana, Dist-Mahesana Sr.No.11 paiki in lieu 0.090 Ha. area proposed for 0.12372 Ha. Protected Forest land for 900 mm Dia MDPE Gas Pipeline crossing & parallel connectivity for Vagoshana to Boru Ta.Mansa, District.Gandhinagar in the State of Gujarat with the guidelines issued vide Principal Chief Conservator of Forest Gujarat State Gandhinagar letter No. JMN/31/B/147-216 Date: 06/04/2016 and same is here by approved technically.

PLACE:- GANDHINAGAR
DATE:-


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

18 DEC 2023

Compensatory Afforestation Scheme for degraded area

Details scheme of Compensatory Afforestation as per van(sanrakshan evam samvardhan) Rules, 2023 pera.-13(5) in the following cases, cost of plantation of minimum 100 plants Compensatory afforestation scheme area preferred as below.

Diversion of for **0.12372 Ha.** Protected Forest land for 900 mm Dia MDPE Gas Pipeline crossing & parallel connectivity for Vagoshana to Boru Ta.Mansa, District.Gandhinagar.

Detailed scheme of Compensatory Afforestation for degraded area 1.00 ha. To be carried out in lieu of Compensatory Afforestation as per van(sanrakshan evam samvardhan) Rules, 2023 pera.-13(5) Of Protected forest land of Gandhinagar District.

1 Details of degraded land

Village	:	Khari
Taluka	:	Satlasana
Range	:	Dharoi
District	:	Mahesana
Division	:	Gandhinagar Forest Division, Gandhinagar
Block/Patal, Compartment No.	:	Old Survey No. 11 Pt
Area to be afforested	:	1.00 ha. (100 plants)
Working Circle	:	Coupe No.20/08 Degraded Area Improvemnet 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:-


- The Compensatory Afforestation on degraded area would be started by Deputy Conservator of Forest Gandhinagar Forest Division as early as a possible after the proposal is formally approved.
- Compensatory Afforestation will be done in 1.00 ha. Area. The total afforestation cost will be about **Rs.71,499/- for 100 plants Compensatory Afforestation as per van (sanrakshan evam samvardhan) Rules, 2023 pera.-13(5)** 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	Specofications		
(a)	General Details	The C.A. will be taken under compensatory Afforestation for degraded Forest Areas. The prevailing wage rate is 473.00 per day.		
(b)	Spacement	3 X 3 mtr., 1111 plants per ha.		
(c)	Species to be planted (No. Of plants per ha.)	Neem	300	75 cm
		Kanji	100	75 cm
		Arjun Sadad	100	90 cm
		Bamboo	111	65 cm
		Jamun	50	75 cm
		Biyo	50	90 cm
		Rayan	30	75 cm
		Baheda(Terminalia)	40	90 cm
		Kadayo	50	65 cm
		Vad	50	90 cm
		Simalo	50	75 cm
		Kosam	30	75 cm
		Khijdo	20	65 cm
		Amali	30	75 cm
		Others	100	75 cm to 90 cm
		Total:		1111
(d)	Nursery Technique	Nine months old polypot raised plants will be planted at the onset of monsoon.		
(e)	Site preparation	The malformed rootstock present in the area will be cutback & the site will be cleaned in the month of Nov-Dec. Alignment & pit digging 45 X 45X 45 cms. Will be carried out in the month of Dec-jan.		
(f)	Plantation Method	Polypot raised plants will be planted during monsoon.		
(g)	Soil & moisture Conservation Works	(i)	pucca structure like check dam, check wall, retaining wall.	
		(ii)	Coutour 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.	
(h)	Protection Trench	a) Barbed wire fencing		
		B) Seed sowing of Pilu (Salvadorapersica) and Desi baval (Acacia nilotica.)		
(i)	Silvicultural Operations	1st year three weeding soil working, support watering will be provided if needed. 2nd year two weeding soil working. 3rd year one weeding soil working.		
(j)	Maintenance	It is proposed to maintain the Plantation up to ten years.		
(k)	Subsequent Silvicultural Operation	Cleaning, cutback, thinning etc. (as per species specific requirement) will be carried out at the age as per prescribed in the working plan.		

(l)	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 result 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)	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)	Silvicultural & 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 Forests
Gandhinagar Forest Division
Gandhinagar

The Compensatory Afforestation scheme at the cost of Rs. 7,94,357/- (To be recovered Rs.71,499/- For 100 plants from the user agency.) is technically and administrative approved by the undersigned.


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

17 8 DEC 2023

Model No - 3
Annexure -4 (1)
Compensatory Afforestation Scheme for double degraded area under FCA proposals

Daily wages Rs. 473.00

Spacemnts = 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 seedling =1333 seedling/ha.

polypot size : 15 cm X 25 cm X 200

Item of work		Qty.	labour	Matrrial	Total
1		2	3	4	5
0 Year					
Nursery					
(a)	.	1222	0	2789	2789
(b)	labour: Preparation of beds, filling and arranging of bags, showing of seeds, watering shifting, weeding etc.	1222	6823	353	7177
(c)	seedling cost for casuality replacement in one year old (20%)	222	2156	644	2800
(d)	seedling cost for casuality replacement in two year old (10%)	111	1079	321	1400
Total			10058	4107	14166
2. Area Development (Land Preparation)					
(a)	Survey, Cutback and promotion of root suckers		5127	0	5127
(b)	Aligment and digging of pits 0.45 X 0.45 X 0.45	1111 @ 6.00	14804	0	14804
Total			19931	0	19931
(a)	Natural fertilizer (Neem cake/castor cake)	1111 @ 5.00	0	15101	15101
Total			0	15101	15101
3.SMC Works					
(a)	Check wall/ retainingwall/ checkdem/ (all pucca only)	L.S	18213	36155	54368
(b)	Contour trench 2 M. X 45 Cm. X 30 Cm. As per Rs.17.00/rmt (300 trench)	600 rmt.	13864	0	13864
Total			32077	36155	68232
4.Protection					
(a)	Barbed wire fencing (Including Fitting)	1.00 ha= 456 rmt.	0	175560	175560
(b)	Seed sowing of Pilu (Salvadorapersica) and Desi baval (Acacia nilotica.)		1691	726	2417
Total			1691	176286	177977
Total for 0 year			63757	231649	295406

Item of work		Qty.	labour	Matrial	Total
1st Year					
(a)	Maintenance of nursery (April to June)	1222	5234	522	5756
(b)	Transport of seedling o plantation	1111	2874	593	3467
(c)	Planting with khamna of min 1 m. Doa	1111	8825	0	8825
(d)	Transport & planting of seeding for casualty replacement	111	305	68	374
(e)	3 weeding cum soil working	1111	34400	0	34400
(f)	Support watering 5 times @ 3.25		21989	31553	53542
(g)	Protection /tending operation		7117	0	7117
(h)	Tending to natural vegetation		1779	0	1779
(i)	Contigency		0	1779	1779
Total for 1st year			82524	34516	117040
2nd Year					
(a)	2 Weeding & soil working		19106	0	19106
(b)	20% Casually replcement, transport and planting	111+111	321	1600	1921
(c)	Natural fertilizer (Neem cake/castor cake) etc.	Rs.5/Plant	0	17846	17846
(d)	Support watering 5 times @ 3.25		14290	20510	34799
(e)	Protection /tending operation		7710	0	7710
Total for 2nd year			41427	39956	81383
3rd Year					
(a)	2 Weeding & soil working		20575	0	20575
(b)	10% Casually replcement, transport and planting	111	173	861	1034
(c)	Natural fertilizer Neem cake etc.	Rs.5/Plant	0	19219	19219
(d)	Support watering 5 times @ 3.25		5131	7362	12493
(e)	Protection & maintenance of fancing / tanding operation	L.S	10379	0	10379
Total for 3rd year			36258	27443	63701
4th Year					
(a)	2 Weeding & soil working		11021	0	11021
(b)	Protection & maintenance of fancing / tanding operation	L.S	11121	0	11121
Total for 4th year			22141	0	22141
5th Year					
	Protection & maintenance of fancing / tanding operation	L.S	11862	0	11862
Total for 5th year			11862	0	11862
6th Year					
	Protection & maintenance of fancing / tanding operation	L.S	12603	0	12603
Total for 6th year			12603	0	12603

Item of work		Qty.	labour	Matrial	Total
7th Year					
	Protection & maintenance of fancing / tanding operation	L.S	13345	0	13345
Total for 7th year			13345	0	13345
8th Year					
	Protection & maintenance of fancing / tanding operation	L.S	14086	0	14086
Total for 8th year			14086	0	14086
9th Year					
	Protection & maintenance of fancing / tanding operation	L.S	14828	0	14828
Total for 9th year			14828	0	14828
10th Year					
	Protection & maintenance of fancing / tanding operation	L.S	15569	0	15569
Total for 10th year			15569	0	15569
Sub Total:			328401	333563	661964
The cost of supervision / subsequental silvicultureal operations		20%	65680	66713	132393
Grand Total:			394082	400275	794357

Note:

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


Compensatory Afforestation will be done in 1.00 ha. Area.

Total Cost Rs. 7,94,357/-

Compensatory Afforestation for degraded area 1.00 ha.	Total Ha.	1.00 Ha. Rs.	Total Rs.
	1.00	794357	794357
For 100 plants		71499	

Compensatory Afforestation Total cost Rs. 7,94,357/-

To be recovered Rs.71499/- For 100 plants from the user agency.


 (Dr. C. M. Shanadre)
 Dy.Conservator of Forests
 Gandhinagar Forest Division
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Sub:- Division of for 0.12372 Ha. Protected Forest land for 900 mm Dia MDPE Gas Pipeline crossing & parallel connectivity for Vagoatana to Kote Ta Mania, District Gandhinagar
 Detailed scheme of Compensatory Afforestation for degraded area 1.00 ha. To be carried out in lieu of Compensatory Afforestation as per van(samrakshan evam samrakshan) Rules, 2013 goes as
 13(5) Of Protected forest land of Gandhinagar District.

Sub- Division of for 0.12372 Ha. Protected forest, degraded area 1.00 ha. To be carried out in need of Comp.															
Detailed scheme of Compensatory Afforestation for degraded area 1.00 ha. To be carried out in need of Gandhinagar District.															
13(5) Of Protected forest land of Gandhinagar District.															
Name of works		Model No.	Area (Ha.)	Rate per (Ha.)	Amount (Daily wage: Rs.473)										Total Rs.
					Zero Year Rs.	1st Year Rs.	IIInd Year Rs.	III rd Year Rs.	IVth Year Rs.	Vth Year Rs.	VIIIth Year Rs.	IXth Year Rs.	Xth Year Rs.		
0 Year 70 % Adv.work.		SMC	1.00	295406	295406	0	0	0	0	0	0	0	0	295406	
Ist Year Operation.				117040	0	117040	0	0	0	0	0	0	0	117040	
Ist Year 30 % Advance work					0	0	81383	0	0	0	0	0	0	81383	
Current year plantation					0	0	0	0	0	0	0	0	0	0	
2nd Year operation Maintanance				81383	0	0	0	63701	0	0	0	0	0	63701	
of one year old plantation.				63701	0	0	0	0	22141	0	0	0	0	22141	
3rd Year operation Maintanance					0	0	0	0	0	0	0	0	0	0	
of 2 years old plantation.				22141	0	0	0	0	0	0	0	0	0	0	
4th year operation Maint.of 3					0	0	0	0	0	11862	0	0	0	11862	
years old plantation.				11862	0	0	0	0	0	0	0	0	0	0	
5th year operation Maint.of 4					0	0	0	0	0	0	12603	0	0	12603	
years old plantation.				12603	0	0	0	0	0	0	0	0	0	0	
6th year operation Maint.of 5					0	0	0	0	0	0	13345	0	0	13345	
years old plantation.				13345	0	0	0	0	0	0	0	0	0	0	
7th year operation Maint.of 6					0	0	0	0	0	0	14086	0	0	14086	
years old plantation.				14086	0	0	0	0	0	0	0	0	0	0	
8th year operation Maint.of 7					0	0	0	0	0	0	0	14828	0	14828	
years old plantation.				14828	0	0	0	0	0	0	0	0	0	0	
9th year operation Maint.of 8					0	0	0	0	0	0	0	0	0	0	
years old plantation.				15569	0	0	0	0	0	0	0	0	15569	15569	
10th year operation Maint.of 9					0	0	0	0	0	0	0	0	0	0	
years old plantation.				661964	295406	117040	81383	63701	22141	11862	13345	14086	14828	661964	
SUB Total (+/- 2)				132393	0	0	0	0	0	0	0	0	0	132393	
The Cost of Supervision /															
Subsequent/Silvicultureal															
operation (20%)															
GRAND Total				794357	295406	117040	81383	63701	22141	11862	13345	14086	14828	794357	

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Compensatory Afforestation will be done in 1.00 Ha. Area			Total Rs.
1.00			794357
0.090 Ha.			71499
For 100 Plants			

Compensatory Afforestation Total Cost Rs. 7,94,357/-
 To be recovered Rs.71499/- For 100 Plants from the user agency.

Certificate from the DCF, that non-forest land selected for compensatory afforestation is in a compact block and contiguous to forest area or in close proximity of forest area and suitable from the management and protection point of view.

CERTIFICATE

This is certified that for Proposal for the approval for 0.12372 Ha. Protected Forest land for 900 mm Dia MDPE Gas Pipeline crossing & parallel connectivity for Vagoshana to Boru Ta.Mansa, District.Gandhinagar in the state of Gujarat 0.090 Hect. land of S.No.11 paiki of Village-Khari, Taluka.Satlasana, Dist-Mahesana will be taken for Afforestation under Compensatory Afforestation plan.

Technical and administrative sanction is here by give to the Compensatory Afforestation plan prepared for this purpose.

PLACE:- GANDHINAGAR
DATE:-


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

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