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## Annexure-18

Details of non-forest land / degraded forest area identified for compensatory afforestation viz.. Survey No. / Compartment No. / Khasra No./ Khatoni No. Village, Tehsil, District etc. along with map in appropriate scale showing the boundaries of adjoining forest areas with their use in distinct colours and GPS readings.

Sr.No.	Details	Description
1	Village	Virpur (Lotol)
2	Taluka	Danta
3	District	Banaskantha
4	Survey No/Compartment No./Khasra No.	21pt.
5	Area To be Afforested	13.275 Ha.
6	Name of Range	Danta-East
7	Name of Division	Banaskantha
8	G.P.S. Location With Longitude & Latitude of Proposal	Attached herewith

Place : Palanpur

Date : 5/6 /2020

(R. L. Jalandhara)

Dy. Conservator of Forests,  
Banaskantha Palanpur



## Detailed of Compensatory Afforestation

Village: Virpur (Lotol)  
Survey no.: 21/pt  
Ha: 13.275  
Taluka: Danta  
Dist.: Banaskantha  
Range: Danta East

P-4-N24.11365 E72.88081

P-1-N24.11128 E72.88378

P-3-N24.11093 E72.87892

P-2-N24.10886 E72.88147

Google Earth

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300 m

Deputy Conservator of Forests  
Banaskantha, Palanpur.

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**Compensary Afforestation Scheme for Non forest Area acquired under  
FCA Proposal**

Diversion of 13.275 ha. Section – 4 and Reserved forest land for construction of Ambaji bypass Road on Himmatnagar-Kheroj-Abu Road Banaskantha District in favor of Executive Engineer, R & B Division (State) Palanpur- Gujarat.

Detailed scheme of Compensatory Afforestation for Non forest Area acquired under FCA Proposal 13.275 ha. to be carried out in lieu of 13.275 ha. of Section – 4 and Reserved Forest Land to be Diverted in Banaskantha Forest division, Palanpur.

**1. Details of degraded land.**

Village	Virpur (Lotol)
Taluka	Danta
Range	Ambaji-East
District	Banaskantha
Division	Banaskantha
Block/ Patal, Compartment No., Survey No	21 pt
Area to be afforested	13.275 Ha.
Working circle	-

**2. Description of Area.**

Soil type	Hard Murram
Topography	Medium
Slope	Medium
Whether the area is bearing any root stock of Vegetation	Yes

**3. Name of Plantation Programme:-**

Compensatory Afforestation Scheme for for Non forest Area acquired under FCA Proposal.

**4. Schedule of Plantation Programme:-**

(i)	The Compensatory Afforestation on for Non forest Area acquired under FCA Proposal would be started by Dy.Conservator of Forest Banaskantha Division as early as possible after the proposal is formally approved.
(ii)	Compensatory Afforestation will be done in <b>13.275</b> ha. area. The total afforestation cost will be about <b>Rs.61,96,562/-</b> Executive Engineer, R & B Division (State) Palanpur 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	Specifications			
a	General Details	The C.A. will be taken under Compensatory Afforestation for Non forest Area acquired under FCA Proposal The prevailing wage rates 324.50 per day.			
b	Spacement	3 X 3 mtr., 1111 plants per ha.			
c	Species to be planted (No. of plants per ha.)	Speaces	Number of Tree	Minimum planting height (in cm.)	Minimum planting collar growth (in cm.)
		Khair	25	65	Minimum planting collar growth 1c.m. diameter at the time of planting.
		Kanji	250	75	
		Boradi	150	65	
		Salai	25	75	
		Gunda	25	75	
		Bael	50	50	
		Bamboo	100	65	
		Ardusa	100	90	
		Ragat Royado	25	50	
		Garmalo	200	65	
		Khakhro (Butea monosperma), Dudh kudi (Wrightia), Aval (Cassia auriculata)	161	50	
		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 45 x 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) Contour 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. Gully plugging, Nala Banding & percolation tank will be carried out as per requirement. Seeds of Jatropha, Agave plants ...etc. will be planted during monsoon in the upper side of nala as per suitability.			
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 silvicultural Operation	Cleaning, cutbacks, 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	<p>(i) A plantation register is to be maintained.</p> <p>(ii) Monitoring is to be done as per the following norms. Forester – 100% RFO – 100% ACF – 20% DCF – 10%</p> <p>(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.</p> <p>(iv) The collar girth is also to be reordered at the end of each year.</p> <p>(v) At the end of maintenance period, the area is aimed at full stocking and pole crop girth for all the species, except bamboo.</p> <p>(vi) Bamboo would be of the harvestable size by the end of 4<sup>th</sup> year.</p> <p>(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.</p>
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.

  
 (R.L. Jalandhara)  
 Dy. Conservator of Forest  
 Banaskantha, Palanpur

The Compensatory Afforestation scheme at the cost of **Rs. 61,96,562/-** is technically and administrative approved by the undersigned.

  
 (R.L. Jalandhara)  
 Dy. Conservator of Forest  
 Banaskantha, Palanpur



# Model No - 3

## Compensatory Afforestation Scheme for Non forest areas acquired under FCA Proposal

Daily wages Rs.324.50

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 1	Qty. 2	Labour 3	Material 4	Total 5
<b>0 year</b>				
Nursery				
(a) Cost of soil, ,manure, seeds, water, fertillizer, insecticides, implements, rent of lands. Shade, etc. (including 10 % for casuality replacement)	1222	0	1913	1913
(b) labour : Preparation of beds, filling and arranging of bags,showing of seeds, watering shifting, weeding etc.	1222	4681	242	4923
(c) Seedling cost for casuality replacement in one year old (20%)	222	1478	442	1920
(d) Seedling cost for casuality replacement in two year old (10%)	111	740	220	960
<b>Total</b>		<b>6899</b>	<b>2817</b>	<b>9716</b>
<b>2. Area Development ( Land Preparation )</b>				
(a) Survey, cutback and promotion of root suckers		3518	0	3518
(b) Aligment and digging of pits 0.45 X 0.45 X 0.45	1111 @ 6.00	10156	0	10156
<b>Total</b>		<b>13674</b>	<b>0</b>	<b>13674</b>
(a) Natural fertilizer (Neem cake/ Castor cake)	1111 @ 5.00	0	10360	10360
<b>Total</b>		<b>0</b>	<b>10360</b>	<b>10360</b>
<b>3. SMC Works</b>				
(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 Rs.17.00/rmt (300 trench)	600 rmt.	9512	0	9512
<b>Total</b>		<b>22007</b>	<b>24804</b>	<b>46811</b>
<b>4. Protection</b>				
(a) Barbed wire fencing per 1 rmt. 457/- Rs.	110 rmt.	22119	33178	55297
(b) Seed sowing and planting of cuttings of Ipomea/ Glaricidia along the fence		1161	498	1659
<b>Total</b>		<b>23280</b>	<b>33676</b>	<b>56956</b>
<b>Total for 0 year</b>		<b>65860</b>	<b>71657</b>	<b>137517</b>
<b>1st Year</b>				
(a) Maintenance of nursery (April to June)	1222	3590	359	3949
(b) Transport of seedling for plantation	1111	1970	407	2377
(c) Planting with khamna of Min 1 m dia	1111	6055	0	6055
(d)Transport & planting of seediling for casuality replacement	111	210	46	256
(e) 3 weeding cum soil working	1111	23600	0	23600
(f) Support watering 5 times @ 3.25		15085	21647	36732
(g) Protection / tending operation		4883	0	4883
(h) Tending to natural vegetation		1220	0	1220
(i) Contingency		0	1220	1220
<b>Total for 1st year</b>		<b>56613</b>	<b>23679</b>	<b>80292</b>



Item of work	Qty.	Labour	Material	Total
<b>2nd Year</b>				
(a) 2 weeding & soil working		13108	0	13108
(b) 20 % Casually replcement, transport and planting	111+111	221	1097	1318
(c) Natural fertilizer (neem cake / caster cake ) etc.	Rs.5/ plant	0	12243	12243
(d ) Support watering 3 times @ 3.25		9803	14070	23873
(e) Protection / tending operation		5290	0	5290
<b>Total for 2nd year</b>		<b>28422</b>	<b>27410</b>	<b>55832</b>
<b>3rd Year</b>				
(a) 2 weeding & soil working		14116	0	14116
(b) 10 % Casually replcement, transport and planting	111	119	591	710
(b) Natural fertilizer, neem cake etc.	Rs.5/ plant	0	13185	13185
(c ) Support watering 1 times @ 3.25		3520	5051	8571
(d) Protection & maintenance of fencing / tending operation	L.S.	7120	0	7120
<b>Total for 3rd year</b>		<b>24875</b>	<b>18827</b>	<b>43702</b>
<b>4thYear</b>				
(a) 1 weeding & soil working		7560	0	7560
(b) Protection & Maintenance of fencing/ Tending operation	L.S.	7629	0	7629
<b>Total for 4th year</b>		<b>15189</b>	<b>0</b>	<b>15189</b>
<b>5thYear</b>				
Protection & maintenance of fencing/ tending operation	L.S.	8138	0	8138
<b>Total for 5th year</b>		<b>8138</b>	<b>0</b>	<b>8138</b>
<b>6thYear</b>				
Protection & maintenance of fencing/ tending operation	L.S.	8646	0	8646
<b>Total for 6th year</b>		<b>8646</b>	<b>0</b>	<b>8646</b>
<b>7thYear</b>				
Protection & maintenance of fencing/ tending operation	L.S.	9155	0	9155
<b>Total for 7th year</b>		<b>9155</b>	<b>0</b>	<b>9155</b>
<b>8thYear</b>				
Protection & maintenance of fencing/ tending operation	L.S.	9663	0	9663
<b>Total for 8th year</b>		<b>9663</b>	<b>0</b>	<b>9663</b>
<b>9thYear</b>				
Protection & maintenance of fencing/ tending operation	L.S.	10172	0	10172
<b>Total for 9th year</b>		<b>10172</b>	<b>0</b>	<b>10172</b>
<b>10thYear</b>				
Protection & maintenance of fencing/ tending operation	L.S.	10681	0	10681
<b>Total for 10th year</b>		<b>10681</b>	<b>0</b>	<b>10681</b>
<b>SubTotal</b>		<b>247414</b>	<b>141573</b>	<b>388987</b>
<b>Total cost of supervision/subsequent silviculture operations</b>	20%	49483	28315	77797
<b>Grand Total</b>		<b>296897</b>	<b>169888</b>	<b>466784</b>

Note :-

- (1) Seed sowing along fencing towards the inner side.
- (2) Planting of cutting of ipomea//Glarcidia along the fencing towards outer side

(R. L. Jalandhara)  
Dy. Conservator of Forests  
Banaskantha, Palanpur  
Model-3-1111 Final @310.40 (2)




# Rate Structure for Compensatory Afforestation Scheme

Daily Wages : Rs. 310.40

Model-3 1111 Pt/Ha.																	Daily wages : Rs. 310/-	
Sr. No.	Rate	Hactor	0 Year	1st Year	2nd Year	3rd Year	4th Year	5th Year	6th Year	7th Year	8th Year	9th Year	10th Year	Total	20% Add	Grand Total		
1	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18		
A	Normal Rate par 1.00 Ha.	1.00	125015	66911	42948	31216	10126	5086	5086	5086	5086	5086	5086	306732	61346	368078		
B	Increased Rate par 1.00 Ha .by 10% Year	1.00	137517	80292	55832	43702	15189	8138	8646	9155	9663	10172	10681	388987	77797	466784		
A	Normal Rate	13.2750	1659574	888244	570135	414392	134423	67517	67517	67517	67517	67517	67517	4071870	814374	4886244		
B	Increased by 10% Year	13.2750	1825538	1065876	741170	580144	201634	108032	114776	121533	128276	135033	141790	5163802	1032760	6196562		
														Total Cost Rs.		6196562		

NB:(1)		
For Different Years the rate shown for B has been derived from A as Follows.		
0 Year-B=A +10% of A	6 Year-B=A +70% of A	
1 Year-B=A +20% of A	7 Year-B=A +80% of A	
2 Year-B=A +30% of A	8 Year-B=A +90% of A	
3 Year-B=A +40% of A	9 Year-B=A +100% of A	
4 Year-B=A +50% of A	10 Year-B=A +110% of A	
5 Year-B=A +60% of A		
NB:(2)-		
In column 17 the additional 20% is towards the cost of supervision/subsequent silvicultural operations		

  
(R. L. Jalandhara)  
Dy. Conservator of Forests  
Banaskantha, Palanpur

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Increase 10% year



Name of works	Model No.	Area	Rate per	Amount												Total Rs.	
				0 Year	1st Year	2nd Year	3rd Year	4th Year	5th Year	6th Year	7th Year	8th Year	9th Year	10th Year	20%		
		H.A.	Hac.														
0 Year 70 % Adv.work. 1st Year Operation.	Model-3	13.2750	137517	1825538	0	0	0	0	0	0	0	0	0	0	0	365108	2190646
1st Year 30 % Advance work Current year plantation			80292	0	1065876	0	0	0	0	0	0	0	0	0	0	213175	1279051
2nd Year operation Maintenance of one year old plantation.			55832	0	0	741170	0	0	0	0	0	0	0	0	0	148234	889404
3rd Year operation Maintenance of 2 years old plantation.			43702	0	0	0	580144	0	0	0	0	0	0	0	0	116029	696173
4th year operation Maint.of 3 years old plantation.			15189	0	0	0	0	201634	0	0	0	0	0	0	0	40327	241961
5th year operation Maint.of 4 years old plantation.			8138	0	0	0	0	0	108032	0	0	0	0	0	0	21606	129638
6th year operation Maint.of 5 years old plantation.			8646	0	0	0	0	0	0	114776	0	0	0	0	0	22955	137731
7th year operation Maint.of 6 years old plantation.			9155	0	0	0	0	0	0	0	121533	0	0	0	0	24307	145840
8th year operation Maint.of 7 years old plantation.			9663	0	0	0	0	0	0	0	0	128276	0	0	0	25655	153931
9th year operation Maint.of 8 years old plantation.			10172	0	0	0	0	0	0	0	0	0	135033	0	0	27007	162040
10th year operation Maint.of 9 years old plantation.			10681	0	0	0	0	0	0	0	0	0	0	141790	28358	170148	
Total			388987	1825538	1065876	741170	580144	201634	108032	114776	121533	128276	135033	141790	1032760	6196562	

(R. L. Jalandhara)  
Dy. Conservator of Forests  
Banaskantha, Palanpur



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## ***CERTIFICATE***

This is to certify that the compensatory afforestation scheme attached herewith for 13.275 ha. in Virpur (Lotol) Village, Ta. Danta, Survey No. 21pt in lieu 13.275 ha. diversion of Forest land proposal for construction of Ambaji bypass Road on Himmatnagar-Kheroj-AbuRoad. in the State of Gujarat with the guidelines issued vide additional Principal Chief Conservator of Forests, Land Gujarat State Gandhinagar Letter No. land/31/b/147-216/2016-17, Dated.06/04/2016 and same is here by approved technically.

Palanpur

Date: 5/6/2020




(R. L. Jalandhara)  
Dy.Conservator of Forests,  
Banaskantha-Palanpur



**Annexure-20****CERTIFICATE**

This is to certify that I have visited 20.3692 ha. area of Virpur (Lotol) Village of Danta-East Range Compensatory Afforestation Scheme for Non forest areas acquired under FCA Proposals (for taking up 13.275 ha. of CA), Survey No.21pt Virpur (Lotol) Village, Ta. Danta, Dist. Banaskantha on dt. 5 / 8 / 2020 (Date) which has been identified for construction of Ambaji bypass Road on Himmatnagar-Kheroj-Abu Road. 13.275 ha. area diversion Ta-Danta, Dist. Banaskantha in the State of Gujarat. of Non forest areas acquired under FCA Proposals the side area is suitable for compensatory afforestation. It is also certified that the compensatory afforestation scheme suggested in the area is in consonance with the Site specific treatment Requirements.

Place : Palanpur  
Date: 5/8/2020

  
(R. L. Jalandhara)  
Dy. Conservator of Forests,  
Banaskantha-Palanpur



Detailed scheme of Compensatory Afforestation to be carried out in lieu of 13.275 Ha. of non forest areas acquired under FCA Proposals to construction of Ambaji bypass Road on Himmatnagar-Kheroj-Abu Road 13.275 ha diversion of Forest land forest the Purpose of construction Road.

Sr.No.	Name of Village	Taluka	District	Survey No.	C.A. Area to be carried out for this proposal ha.
1	Virpur (Lotol)	Danta	Banaskantha	21pt	13.2750

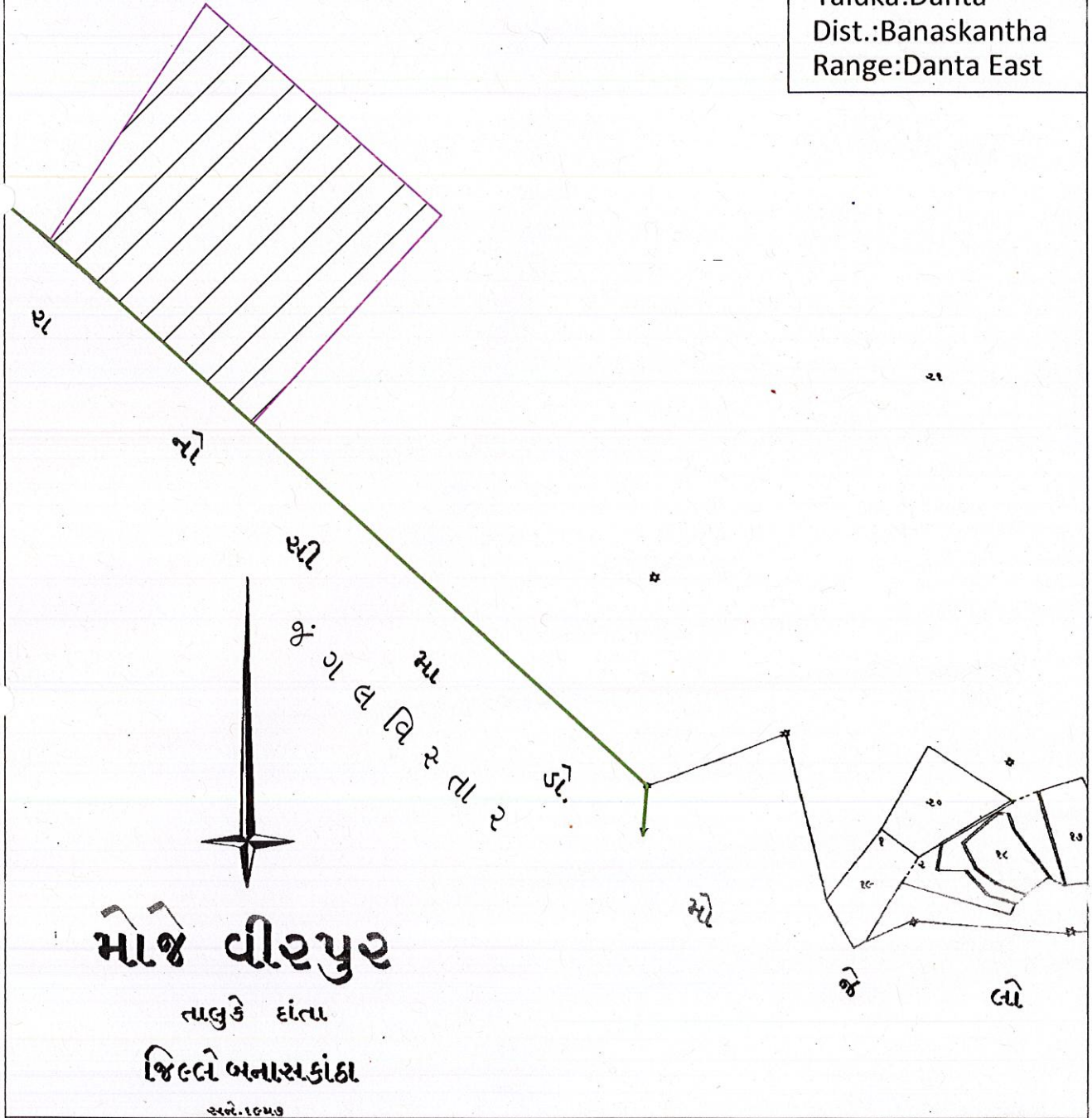
(R. L. Jalandhara)  
Dy.Conservator of Forests,  
Banaskantha-Palanpur

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Detailed of Compensatory Afforestation to be carried out in lieu of 13.275 Ha. of Non Forest areas acquired under FCA proposal to construction of Ambaji bypass road on Himmaatnagar - Kheroj-Aburoad for Diversion 13.275 ha of Forest Land For the Purpose of Const. Road.

Village:Virpur(Lotol)  
Survey no.:21/pt  
Ha:13.275  
Taluka:Danta  
Dist.:Banaskantha  
Range:Danta East



Area to be taken for Compensatory Afforestation  
13.275 Ha.

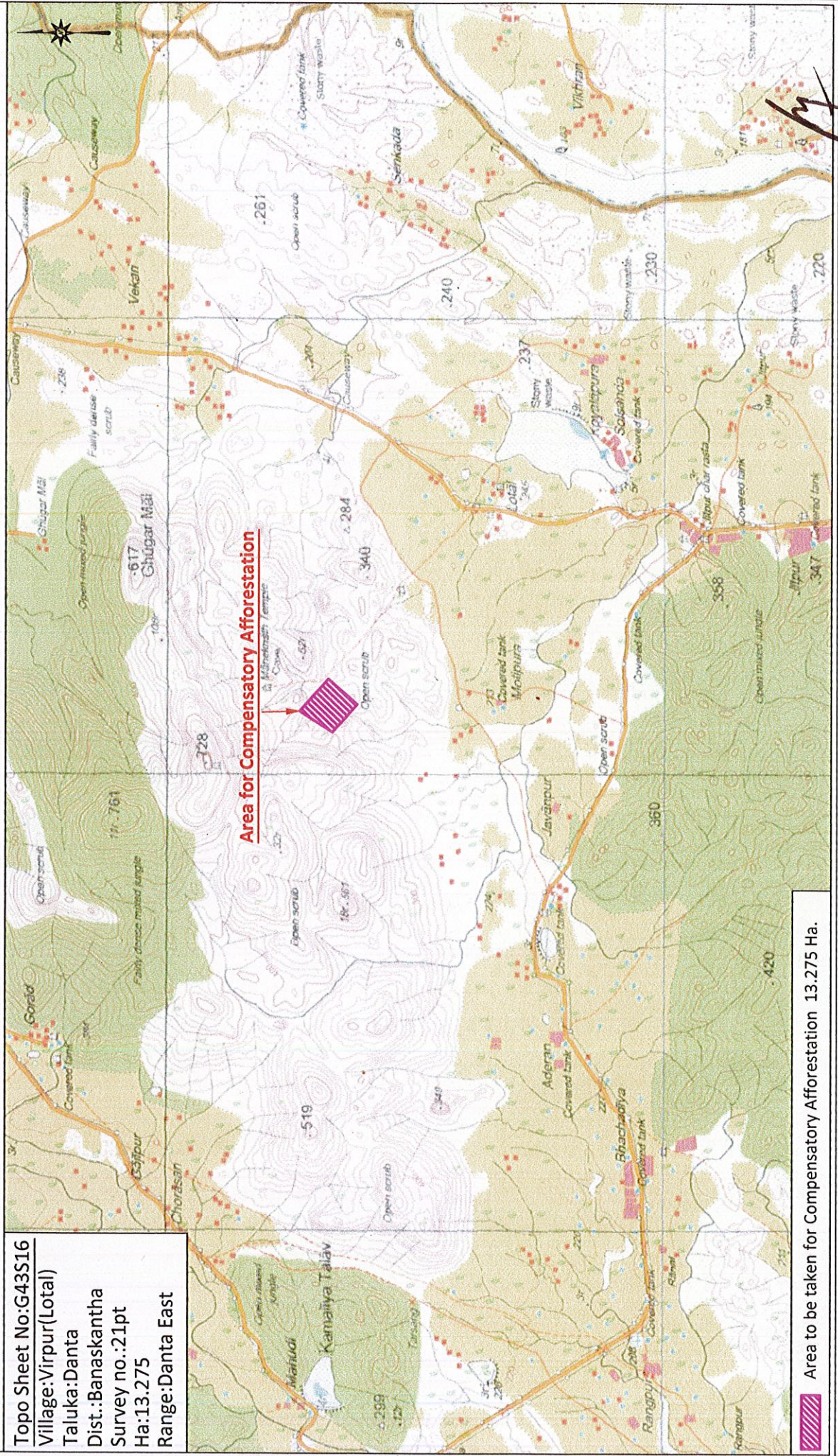
Scale:-1 c.m = 79.20 meter

Deputy Conservator of Forests  
Banaskantha, Palanpur.



Detailed of Compensatory Afforestation to be carried out in lieu of 13.275 Ha. of Non Forest areas acquired under FCA proposal to construction of Ambaji bypass road on Himmaatnagar - Kheroj-Aburoad for Diversion 13.275 ha of Forest Land For the Purpose of Const. Road.

Topo Sheet No:G43S16  
Village:Virpur(Lotal)  
Taluka:Danta  
Dist.:Banaskantha  
Survey no.:21pt  
Ha:13.275  
Range:Danta East



Area to be taken for Compensatory Afforestation 13.275 Ha.



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**Annexure-21**

***CERTIFICATE***

This is certified that 13.275 Ha. land of S.No. 21pt of Village Virpur (Lotol), Ta. Danta, Dist. Banaskantha proposal for Compensatory Afforestation against the Diversion of 13.275 ha. Construction of Ambaji bypass Road on Himmatnagar-Kheroj-AbuRoad is identified and found suitable for afforestation.



(R. L. Jalandhara)

Dy.Conservator of Forests,  
Banaskantha-Palanpur

Place : Palanpur

Date: 5/8 /2020