

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	Dhrangivas
2	Taluka	Danta
3	District	Banaskantha
4	Survey No/Compartment No./Khasra No.	61/pt.
5	Area To be Afforested	1.00 Ha.
6	Name of Range	Ambaji-South
7	Name of Division	Banaskantha
8	G.P.S. Location With Longitude & Latitude of Proposal	Attached herewith

Palanpur

Date: 30/5 /2020

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

Degraded scheme Compensatory Afforestation

Village: Dhrangivas

Taluka: Danta

Dist.: Banaskantha

Survey no.: 61/pt.

Ha: 1.00

Range: Ambaji-South

1-N24.28065 E73.01114

2-N24.25970 E73.01039

3-N24.28014 E73.00978

4-N24.26107 E73.01048

Google Earth

Image © 2020 Maxar Technologies
© 2020 Google

Deputy Conservator of Forests
Banaskantha, Palanpur.

73

Annexure-19**Compensary Afforestation Scheme for Double Degraded Area**

Diversion of Forest land for use of Aval Village, Forest Survey No. 718 (Old S.No. 295pt) Total Area 0.1036 Ha. Purpose of entry Road Shri Vijaykumar Kalidas Mandora Palanpur. At. & Post Palanpur, Ta-Palanpur, Dist. Banaskantha.

Detailed scheme of Compensatory Afforestation for Double degraded Area **1.00** ha, to be carried out in lieu of 0.1036 ha. of forest land to be diverted in Banaskantha Forest division, Palanpur.

1. Details of degraded land.

Village	Dhrangivas
Taluka	Danta
Range	Ambaji-South
District	Banaskantha
Division	Banaskantha
Block/ Patal, Compartment No., Survey No	61/ pt
Area to be afforested	1.00 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 Double degraded area

4. Schedule of Plantation Programme:-

(i)	The Compensatory Afforestation on Double degraded Area 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 1.00 ha. area. The total afforestation cost will be about Rs. 4,30,128/- Shri Vijaykumar Kalidas Mandora Palanpur. At. & Post Palanpur, Ta-Palanpur, Dist. Banaskantha 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:


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 Double degraded area. The prevailing wage rates 310.40 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
		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 st year three weeding soil working, Support watering will be 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 to ten years.		

79

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 4th 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. 4,30,128/-** is technically and administrative approved by the undersigned.


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

Model No - 3

Compensatory Afforestation Scheme for Dubble dgraded area

Daily wages Rs.310.40

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 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
0 year				
Nursery				
(a) Cost of soil, ,manure, seeds, water, fertillizer, insecticides, implements, rent of lands. Shade, etc. (including 10 % for casualty replacement)	1222	0	1830	1830
(b) labour : Preparation of beds, filling and arranging of bags,showing of seeds, watering shifting, weeding etc.	1222	4478	232	4710
(c) Seedling cost for casualty replacement in one year old (20%)	222	1415	422	1837
(d) Seedling cost for casualty replacement in two year old (10%)	111	708	210	918
Total		6601	2694	9295
2. Area Development (Land Preparation)				
(a) Survey, cutback and promotion of root suckers		3365	0	3365
(b) Aligment and digging of pits 0.45 X 0.45 X 0.45	1111 @ 6.00	9715	0	9715
Total		13080	0	13080
(a) Natural fertilizer (Neem cake/ Castor cake)	1111 @ 5.00	0	9910	9910
Total		0	9910	9910
3. SMC Works				
(a) Check wall/ retaining wall /checkdem (all pucca only)	L.S.	11953	23726	35679
(b) Contour trench 2 M x 45 Cm x 30 Cm as per Rs.17.00/rmt (300 trench)	600 rmt.	9098	0	9098
Total		21051	23726	44777
4. Protection				
(a) Barbed wire fencing	L.S.	3567	35679	39246
(b) Seed sowing and planting of cuttings of Ipomea/ Glaricidia along the fence		1110	476	1586
Total		4677	36155	40832
Total for 0 year		45409	72485	117894
1st Year				
(a) Maintenance of nursery (April to June)	1222	3434	343	3777
(b) Transport of seedling for plantation	1111	1884	389	2273
(c) Planting with khamna of Min 1 m dia	1111	5792	0	5792
(d)Transport & planting of seediling for casualty replacement	111	202	44	246
(e) 3 weeding cum soil working	1111	22574	0	22574
(f) Support watering 5 times @ 3.25		14430	20706	35136
(g) Protection / tending operation		4670	0	4670
(h) Tending to natural vegetation		1168	0	1168
(i) Contingency		0	1168	1168
Total for 1st year		54154	22650	76804

Item of work	Qty.	Labour	Material	Total
2nd Year				
(a) 2 weeding & soil working		12537	0	12537
(b) 20 % Casually replcement, transport and planting	111+111	211	1050	1261
(c) Natural fertilizer (neem cake / caster cake) etc.	Rs.5/ plant	0	11712	11712
(d) Support watering 3 times @ 3.25		9377	13459	22836
(e) Protection / tending operation		5060	0	5060
Total for 2nd year		27185	26221	53406
3rd Year				
(a) 2 weeding & soil working		13502	0	13502
(b) 10 % Casually replcement, transport and planting	111	113	566	679
(b) Natural fertilizer, neem cake etc.	Rs.5/ plant	0	12613	12613
(c) Support watering 1 times @ 3.25		3367	4831	8198
(d) Protection & maintenance of fencing / tending operation	L.S.	6811	0	6811
Total for 3rd year		23793	18010	41803
4thYear				
(a) 1 weeding & soil working		7232	0	7232
(b) Protection & Maintenance of fencing/ Tending operation	L.S.	7298	0	7298
Total for 4th year		14530	0	14530
5thYear				
Protection & maintenance of fencing/ tending operation	L.S.	7784	0	7784
Total for 5th year		7784	0	7784
6thYear				
Protection & maintenance of fencing/ tending operation	L.S.	8271	0	8271
Total for 6th year		8271	0	8271
7thYear				
Protection & maintenance of fencing/ tending operation	L.S.	8757	0	8757
Total for 7th year		8757	0	8757
8thYear				
Protection & maintenance of fencing/ tending operation	L.S.	9244	0	9244
Total for 8th year		9244	0	9244
9thYear				
Protection & maintenance of fencing/ tending operation	L.S.	9730	0	9730
Total for 9th year		9730	0	9730
10thYear				
Protection & maintenance of fencing/ tending operation	L.S.	10217	0	10217
Total for 10th year		10217	0	10217
SubTotal		219074	139366	358440
Total cost of supervision/subsequent silviculture operations	20%	43815	27873	71688
Grand Total		262889	167239	430128

Note :-

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

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

Rate Structure for Compensatory Afforestation Scheme

Daily Wages : Rs. 310.40

Model-3 1111 Pu/Ha.

Model-3 1111 P/Ha.																	
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	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
1	A	Normal Rate par 1.00 Ha.	1.00	107177	64004	41081	29859	9686	4865	4865	4865	4865	4865	4865	280997	56199	337196
	B	Increased Rate par 1.00 Ha .by 10% Year	1.00	117894	76804	53406	41803	14530	7784	8271	8757	9244	9730	10217	358440	71688	430128
2	A	Normal Rate	1.0000	107177	64004	41081	29859	9686	4865	4865	4865	4865	4865	4865	280997	56199	337196
	B	Increased by 10% Year	1.0000	117894	76804	53406	41803	14530	7784	8271	8757	9244	9730	10217	358440	71688	430128
															Total Cost Rs.		430128

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

Name of works	Model No.	Area	Rate per	Amount											Total Rs.		
		H.A.	Hac.	0 Year	1st Year	2nd Year	3rd Year	4th Year	5th Year	6th Year	7th Year	8th Year	9th Year	10th Year		20%	
0 Year 70 % Adv.work. 1st Year Operation.	Model-3	1.0000	117894	117894	0	0	0	0	0	0	0	0	0	0	0	23579	141473
1st Year 30 % Advance work Current year plantation			76804	0	76804	0	0	0	0	0	0	0	0	0	0	15361	92165
2nd Year operation Maintenance of one year old plantation.			53406	0	0	53406	0	0	0	0	0	0	0	0	0	10681	64087
3rd Year operation Maintenance of 2 years old plantation.			41803	0	0	0	41803	0	0	0	0	0	0	0	0	8361	50164
4th year operation Maint.of 3 years old plantation.			14530	0	0	0	0	14530	0	0	0	0	0	0	0	2906	17436
5th year operation Maint.of 4 years old plantation.			7784	0	0	0	0	0	7784	0	0	0	0	0	0	1557	9341
6th year operation Maint.of 5 years old plantation.			8271	0	0	0	0	0	0	8271	0	0	0	0	0	1654	9925
7th year operation Maint.of 6 years old plantation.			8757	0	0	0	0	0	0	0	8757	0	0	0	0	1751	10508
8th year operation Maint.of 7 years old plantation.			9244	0	0	0	0	0	0	0	0	9244	0	0	0	1849	11093
9th year operation Maint.of 8 years old plantation.			9730	0	0	0	0	0	0	0	0	0	9730	0	0	1946	11676
10th year operation Maint.of 9 years old plantation.			10217	0	0	0	0	0	0	0	0	0	0	10217	0	2043	12260
Total			358440	117894	76804	53406	41803	14530	7784	8271	8757	9244	9730	10217	71688	430128	

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

CERTIFICATE

This is to certify that the compensatory afforestation scheme attached herewith for 1.00 ha in Dhrangivas Village, Ta. Danta, Survey No. 61pt. in lieu 0.1036 ha. Diversion of Forest land for use of entry Road Shri Vijaykumar Kalidas Mandora Palanpur. At. & Post Palanpur, Ta-Palanpur, Dist. Banaskantha. 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: 30/5 /2020



(R.L. Jalandhara)

Dy.Conservator of Forests,
Banaskantha-Palanpur

Annexure-20**CERTIFICATE**

This is to certify that I have visited 44.8698 ha. area of Dhrangivas Village of Ambaji-South Range degraded forest (for taking up 1.00 ha. of CA), Survey No.61pt. Dhrangivas Village, Ta. Danta, Dist. Banaskantha on dt. 30/5/2020 (Date) which has been identified for compensatory Afforestation Scheme against the Diversion of Forest land for use of entry Road Shri Vijaykumar Kalidas Mandora Palanpur. At. & Post Palanpur, Ta-Palanpur, Dist. Banaskantha for Forest land 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.

Palanpur

Date: 30/5/2020



(R.L. Jalandhara)

Dy.Conservator of Forests,
Banaskantha-Palanpur

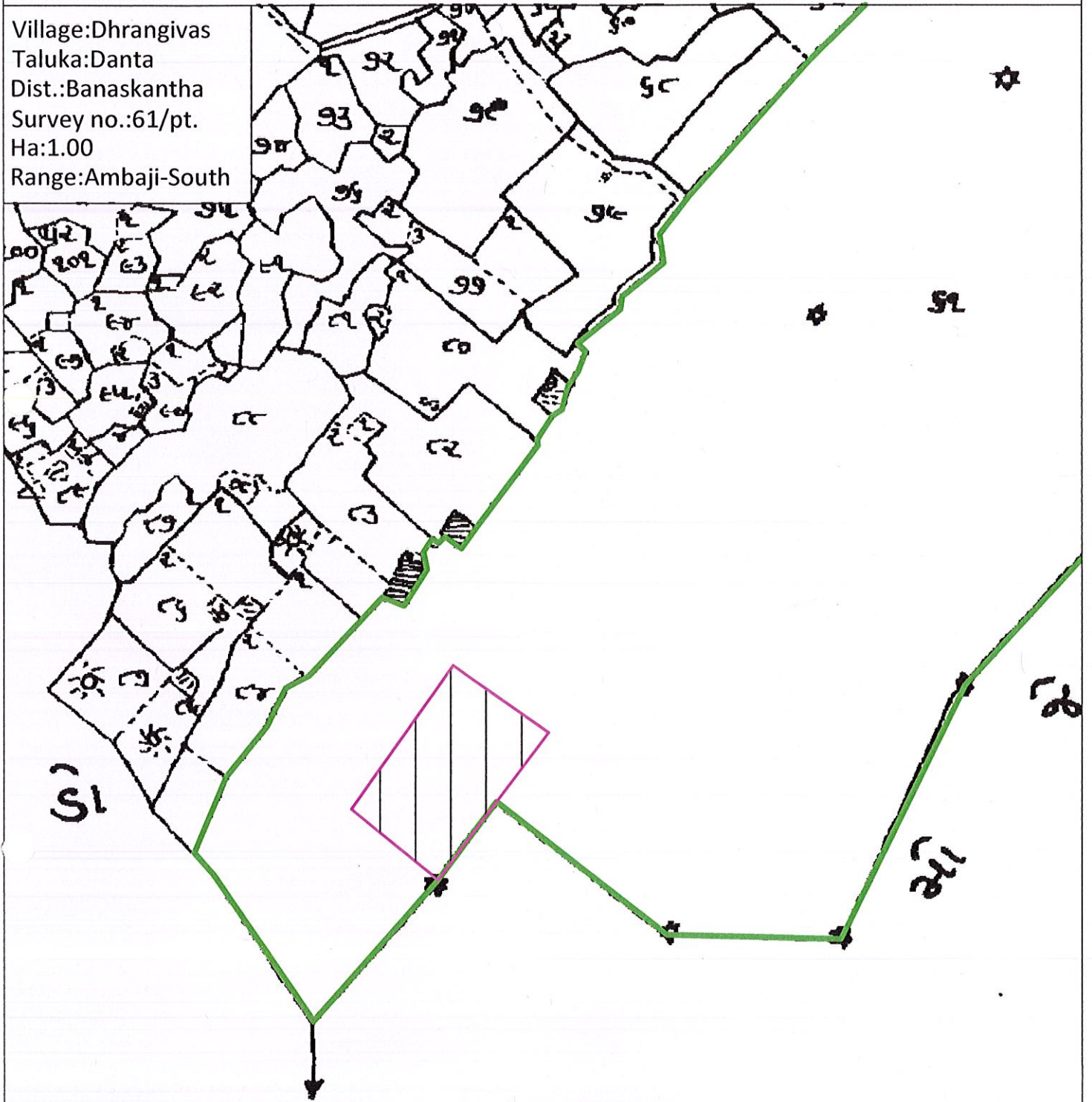
Detailed scheme of Compensatory Afforestation to be carried out in lieu of 1.00 Ha. of forest land for Diversion of 0.1036 ha. forest land for entry Road Shri Vijaykumar Kalidas Mandora Palanpur. At. & Post Palanpur, Ta-Palanpur, Dist. Banaskantha.

Sr.No.	Name of Village	Taluka	District	Survey No.	C.A. Area to be carried out for this proposal ha.
1	Dhrangivas	Danta	Banaskantha	61/pt	1.0000

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

Detailed of Degraded scheme Compensatory Afforestation to be carried out in lieu of 1.00 Ha. of Forest land for Entry Road Shri Vijaykumar Kalidas Mandora At.& Post Palanpur, Ta-Palanpur Dist.Banaskantha Proposal For Diversion 0.1036 Ha. Forest Land of Banaskantha Forest Division.

Village:Dhrangivas
Taluka:Danta
Dist.:Banaskantha
Survey no.:61/pt.
Ha:1.00
Range:Ambaji-South



Forest Area



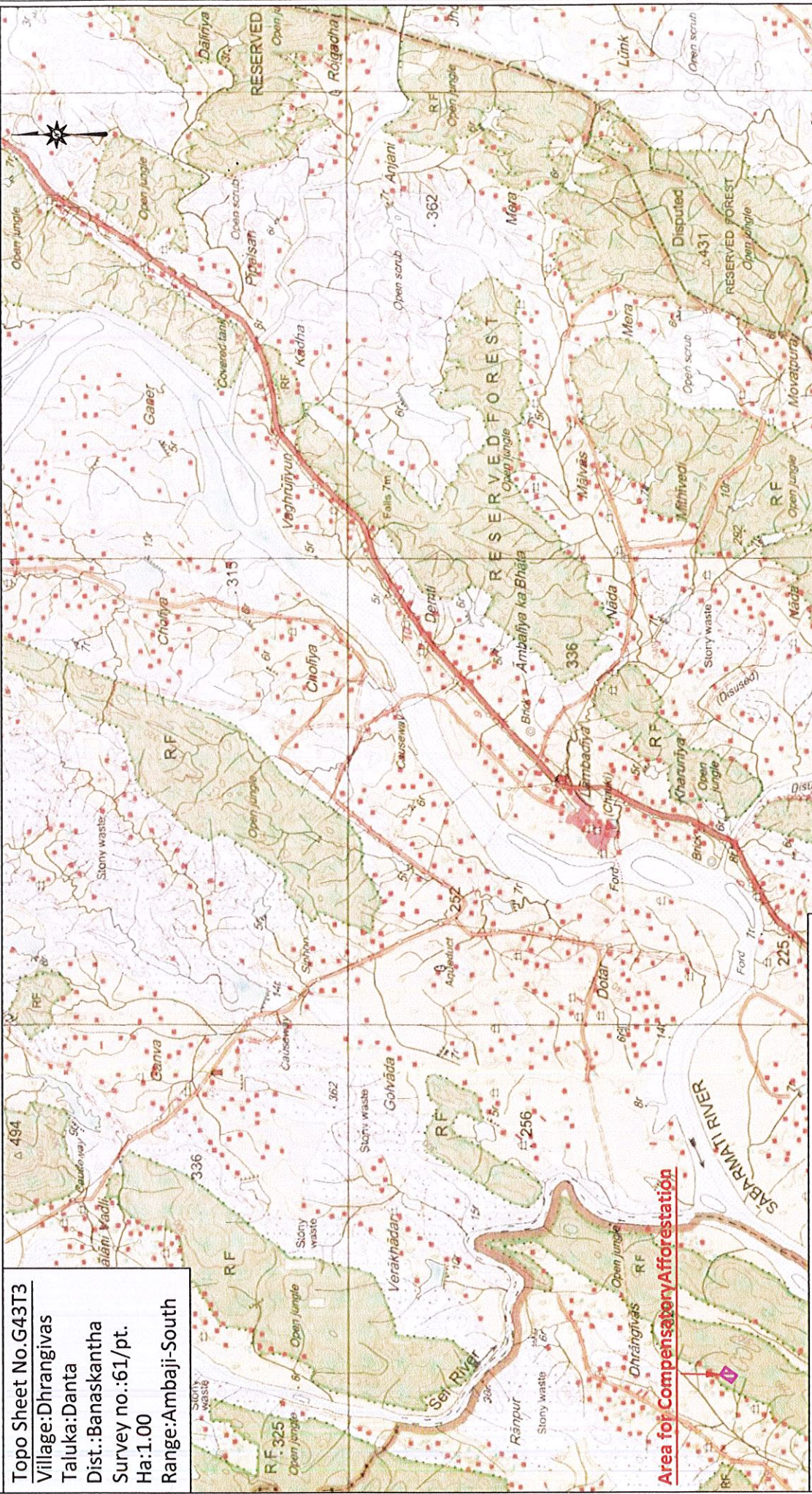
Area to be taken for Compensatory Afforestation 1.00 Ha.



SCALE:1 C.M = 39.60 M.T

[Signature]
Deputy Conservator of Forests
Banaskantha, Palanpur.

Detailed of Degraded scheme Compensatory Afforestation to be carried out in lieu of 1.00 Ha. of Forest land for Entry Road Shri Vijaykumar Kalidas Mandora At. & Post Palanpur, Ta-Palanpur Dist.Banaskantha Proposal For Diversion 0.1036 Ha. Forest Land of Banaskantha Forest Division.



Area to be taken for Compensatory Afforestation 1.00 Ha.

Annexure-21**CERTIFICATE**

This is certified that 1.00 Ha. land of S.No. 61pt. of Village Dhrangivas, Ta. Danta, Dist. Banaskantha proposal for Compensatory Afforestation against the Diversion of 0.1036 ha. Forest land for use of entry Road Shri Vijaykumar Kalidas Mandora Palanpur. At. & Post Palanpur, Ta-Palanpur, Dist. Banaskantha in the state of Gujarat is identified and found suitable for afforestation.



(R.L. Jalandhara)

Dy.Conservator of Forests,
Banaskantha-Palanpur

Palanpur

Date: 30/5/2020