

Model No-3

Annexure-4(1)

**Compensary Afforestation Scheme for Non Forest Area
Acquired under FCA Proposals.**

**(Diversion of 33.40 ha. R.F. Land for Tapi-karjan Link under ground pipeline (Surat
Divi. 11.40 & Vyara 22.00 ha. by Ver-II Project Divi. Vyara)**

Detailed scheme for Compensatory Afforestation for Non Forest Areas acquired under FCA Proposals 34.00 Ha. to be carried out in lieu of 33.40 Ha. (Vyara-22.00 ha,+ Surat-11.40 ha) of forest land to be diverted in Amlpada & Satkashi, Ta.Songadh, Dist: Tapi in Vyara Division and Village-Vadpada & Gondaliya, Ta.Umarpada, Dist.Surat in Surat Division

1. Details of non forest land.

Village. – Doswada, Ta.Songadh, Dist.Tapi.

Survey No.171pt

Range- Sadadvel.

Village. – Patharda, Ta.Songadh, Dist.Tapi.

Survey No.24pt

Range- Fort Songadh.

Village. – Siletvel, Ta.Songadh, Dist.Tapi.

Survey No. 13pt, 20pt, 2pt, 10pt, 11pt, 14pt, 15/Apt, 19pt, 8/1pt, 8/2pt, 8/3pt, 95pt, 101/1pt, 103pt, 1034pt, 102/1pt, 102/2pt, 56pt, 75pt, 76pt, 77pt, 78pt, 79pt, 86pt,

Range- Fort Songadh.

Village. – Singalkanch, Ta.Songadh, Dist.Tapi.

Survey No.37pt, 39pt.

Range- Fort Songadh.

Village. – Ukai, Ta.Songadh, Dist.Tapi.

Survey No. 103pt, 104pt, 105pt, 106pt, 107pt, 108pt (Copy of award)

Range- Fort Songadh.

Village.– Anandpur, Ta.Uchahhal, Dist.Tapi.

Survey No.43pt.

Range- Nessu West.

Name of Forest Division – Vyara.

Compensatory Afforestation Area 34.00 ha.

2. Description of Area.

Soil type:- Black & Storey,

Topography :- Plain

Slope:- Plain

Whether the area is bearing any root stock of Vegetation : Yes/No

3. Name of Plantation Programme:- Compensatory Afforestation Scheme for Non Forest Areas acquired under FCA Proposals for as also for CAMPA & NPV project Plantations.

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

The Compensatory Afforestation on non forest land would be started by Dy.Conservator of Forest Vyara Division as early as possible after the proposal is formally approved.

Compensatory Afforestation will be done in 34.00 ha. area. The total afforestation cost will be **Rs.1,78,50,000/-** Dy. Executive Engineer Ver-II project Division, Vyara thus gave 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 areas. The prevailing wage rate is 310.40 per day.		
b	Spacement	3 X 3 mtr., 1111 plants per ha.		
c	Species to be planted (No. of plants per ha.)	Khair	200	65 cm
		Teak	300	Stump of minimum 6 cm girth
		Bamboo	100	65 cm
		Bahedo, Biyo, Arduso.	100	90 cm
		Sadad, Arjun Sadad, Kilai.	100	90 cm
		Aashitro, Sitafal, Karmda, Ragat-rohano etc.	100	50 cm
		Sisam, Gamalo, Billi, Asan, Sargvo etc.	100	65 cm
		Tans, Kusum, Kalam, Amla, Karanj & others	111	75 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 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 using The loose stone available in the area 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.
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	(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 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. (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) Bamboo would be of the harvestable size by the end of 4 th year.

		(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.
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.


 (Anandkumar S.)
 Dy. Conservator of Forest
 Vyara

The Compensatory Afforestation scheme at the cost of **Rs.1,78,50,000/-** is technically and administrative approved by the undersigned.


 (Anandkumar S.)
 Dy. Conservator of Forest
 Vyara

Daily wages Rs:-324.50

Compensatory Afforestation Scheme for Double degraded Forest Area under FCA Proposals.

Spacements= 3m x 3m

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:-15cm x 25cm x200

Item of Work	Qty.	Labour	Material	Total
1	2	3	4	5
0 year				
Nursery				
(a) Cost of soil, manure , seeds,water,fartillizer, insecticides, impements,rent of lands. Shade etc (including 10 % for casuality replacement)	1222	0	1929	1929
(b) Labour:- Preparation of beds, filling and arrnging of bags,showing of seeds, watering shifting,weeding etc.	1222	4681	245	4926
© Seedling cost for casuality replacement in one year old (20%)	222	1479	445	1924
(d) seedling cost for casuality replacement in two year old (10%)	111	741	222	963
Total.		6901	2841	9742
2. Area Development (Land Preparation)				
(a) Survey,cutback and promotion of root suckers		3517	0	3517
(b) Aligment and digging of pits 0.45 x 0.45 x 0.45	1111 @ 6.00	10156	0	10156
Total		13673	0	13673
(a) Natural fertilizer (neem cake/castor cake)	1111 @ 5.00	0	10444	10444
3. SMC Works				
(a).Check wall/ retaining wall / checkdem (all pucca only)	L.S.	12495	25005	37500
(b) Counter trech 2M x 45 Cm x 30Cm as per Rs.17.00/rmt (300 trench)	600 rmt	9510	0	9510
Total		22005	25005	47010

4. Protection				
(a) Barbed wire fencing	205 L.S.	24600	57400	82000
(b) seed sowing and planting of cuttings of Ipomea / Glaricidia along the fence		1160	503	1663
Total		25760	57903	83663
Sub Total of 0 Year		68339	96193	164532
1st year				
(a) Maintenance of nursery (April to June)	1222	3591	361	3952
(b) Transport of seedling for plantation	1111	19439	410	19849
© Planting with Khamna of Min 1 m dia	1111	6054	0	6054
(d) Transport of seedling for casually replacement	111	210	46	256
(e) 3 weeding cum soil working	1111	24654	0	24654
(f) Suppoort watering 5 times @ 3.25		15085	21822	36907
(g) Protection / tending operation		4860	0	4860
(h) Tending to natural vegetation		1220	0	1220
(i) Contingency		0	1230	1230
Total for 1st year		75113	23869	98982
2nd year				
(a) 2 weeding & soil working		13244	0	13244
(b) 20 % Casually rplecement, transport and planting	111+111	221	1106	1327
© Natural fertilizer (neem cake / caster cake) etc	Rs.5/ Plant	0	12342	12342
(d) Support watering 3 times @ 3.25		9803	14185	23988
(e) protection / tendingsn operation		5290	0	5290
Total for 2nd Year		28558	27633	56191
3rd year				
(a) 2 weeding & soil working		13979	0	13979
(b) 10 % Casually replacement, transport and planting	111	118	597	715
© Natural fertilizer , neem cake etc.	Rs.5/ plant	0	13530	13530
(d) Support watering 3 times @ 3.25		3520	5091	8611
(e) Protection & maintenance of fencing / tending operation	L.S.	9140	0	9140
Total for 3rd year		26757	19218	45975
4th Year				
(a) 1 weeding & soil working		7719	0	7719
(b) Protection & maintenance of fencing / Tending operation	L.S.	7630	0	7630
Total for 4th year		15349	0	15349

5th Year				
Protection & maintenance of fencing/Tending operation	L.S.	8139	0	8139
Total for 5th year		8139	0	8139
6th Year				
Protection & maintenance of fencing/Tending operation	L.S.	8647	0	8647
Total for 6th year		8647	0	8647
7th Year				
Protection & maintenance of fencing/Tending operation	L.S.	9156	0	9156
Total for 7th year		9156	0	9156
8th Year				
Protection & maintenance of fencing/Tending operation	L.S.	9663	0	9663
Total for 8th year		9663	0	9663
9th Year				
Protection & maintenance of fencing/Tending operation	L.S.	10172	0	10172
Total for 9th year		10172	0	10172
10th Year				
Protection & maintenance of fencing/Tending operation	L.S.	10681	0	10681
Total for 10th year		10681	0	10681
G. Total		270574	166913	437487
The Cost of Supervision/subsequential silvicultureal Operations	20%	54115	33383	87498
GRAND TOTAL				524985

Total Cost Say Rs. :5,25,000/- Per ha.

The Compensatory Afforestation scheme at the cost of $25 \times 525000 = 17850000/-$ is technically and administrative approved by the undersigned.


(Anandkumar S.)
Dy. Conservator of Forest
Vyara

T.S. CERTIFICATE OF C.A. SCHEME

(Diversion of 33.40 ha. R.F. Land for Tapi-karjan Link under ground pipeline (Surat Divi. 11.40 & Vyara 22.00 ha. by Ver-II Project Divi. Vyara)

This is to Certify that the Compensatory Afforestation Scheme of 34.00 ha. Non Forest Land prepared by Dy. Conservator of Forest, Vyara Division of Reserved Forest land for to be Diverted for laying Underground Irrigation water pipeline.

The Scheme in question has been checked and found correct as per the prevailing wage rate structure and approved model non forest area plantation for FCA.

The compensatory afforestation has to be carried out in Non Forest Land Village. – Doswada, Ta.Songadh, Dist.Tapi. Survey No.171pt, Village. Patharda, Ta.Songadh, Dist.Tapi, Survey No.24pt, Village. Siletvel, Ta.Songadh, Dist.Tapi Survey No.13pt, 20pt, 2pt, 10pt, 11pt, 14pt, 15/Apt, 19pt, 8/1pt, 8/2pt, 8/3pt, 95pt, 101/1pt, 103pt, 1034pt, 102/1pt, 102/2pt, 56pt, 75pt, 76pt, 77pt, 78pt, 79pt, 86pt, Village. Singalkhach, Ta.Songadh, Dist.Tapi, Survey No.37pt, 39pt. Village.Ukai, Ta.Songadh, Dist.Tapi Survey No.103pt, 104pt, 105pt, 106pt, 107pt, 108pt (Copy of award) & Village.– Anandpur, Ta.Uchahhal, Dist.Tapi. Survey No.43pt of Dy. Conservator of Forests Vyara Division at the cost of Rs.1,78,50,000/- (In words One Crore Seventy-eight lakh Fifty Thousand only)

Therefore compensatory afforesatation Scheme in question here by technically and approved by the Under signed.

Place : Vyara
Date : 21/07/2020


(Anandkumar S.)
Dy. Conservator of Forests
Vyara

Anandpur Geo reference Map

C. A.Land Area - 2.50 Ha. **S.no-43 pt**

Legend

 Geo reference Point

Anandpur  $21^{\circ}10'03.35''\text{N } 73^{\circ}38'22.12''\text{E}$

$21^{\circ}10'01.36''\text{N } 73^{\circ}38'25.81''\text{E}$

 $21^{\circ}10'00.68''\text{N } 73^{\circ}38'22.25''\text{E}$

 $21^{\circ}09'59.93''\text{N } 73^{\circ}38'26.49''\text{E}$

$21^{\circ}10'01.04''\text{N } 73^{\circ}38'30.20''\text{E}$

 $21^{\circ}10'00.84''\text{N } 73^{\circ}38'28.41''\text{E}$

$21^{\circ}10'01.59''\text{N } 73^{\circ}38'38.56''\text{E}$

$21^{\circ}10'01.1''\text{N } 73^{\circ}38'33.29''\text{E}$

 $21^{\circ}10'00.80''\text{N } 73^{\circ}38'33.29''\text{E}$

 $21^{\circ}09'58.78''\text{N } 73^{\circ}38'30.32''\text{E}$

 $21^{\circ}09'57.99''\text{N } 73^{\circ}38'29.66''\text{E}$

 $21^{\circ}09'57.46''\text{N } 73^{\circ}38'26.20''\text{E}$

Google Earth

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500 ft




(Anandtumar S.)
Dy. Conservator of Forest
Wara.

Dosvada Geo reference Map

C. A.Land Area - 8.48 Ha. (6.66 + 1.82)S.No-171 Pt

Legend

 Geo reference Point



(Anandkumar S.)
Dy. Conservator of Forest
Vyara.

Patharda Geo reference Map

C.A. Land Area - 2.44 Ha. Sur.No. 24 Pt.

Legend

Geo reference Point



Google Earth

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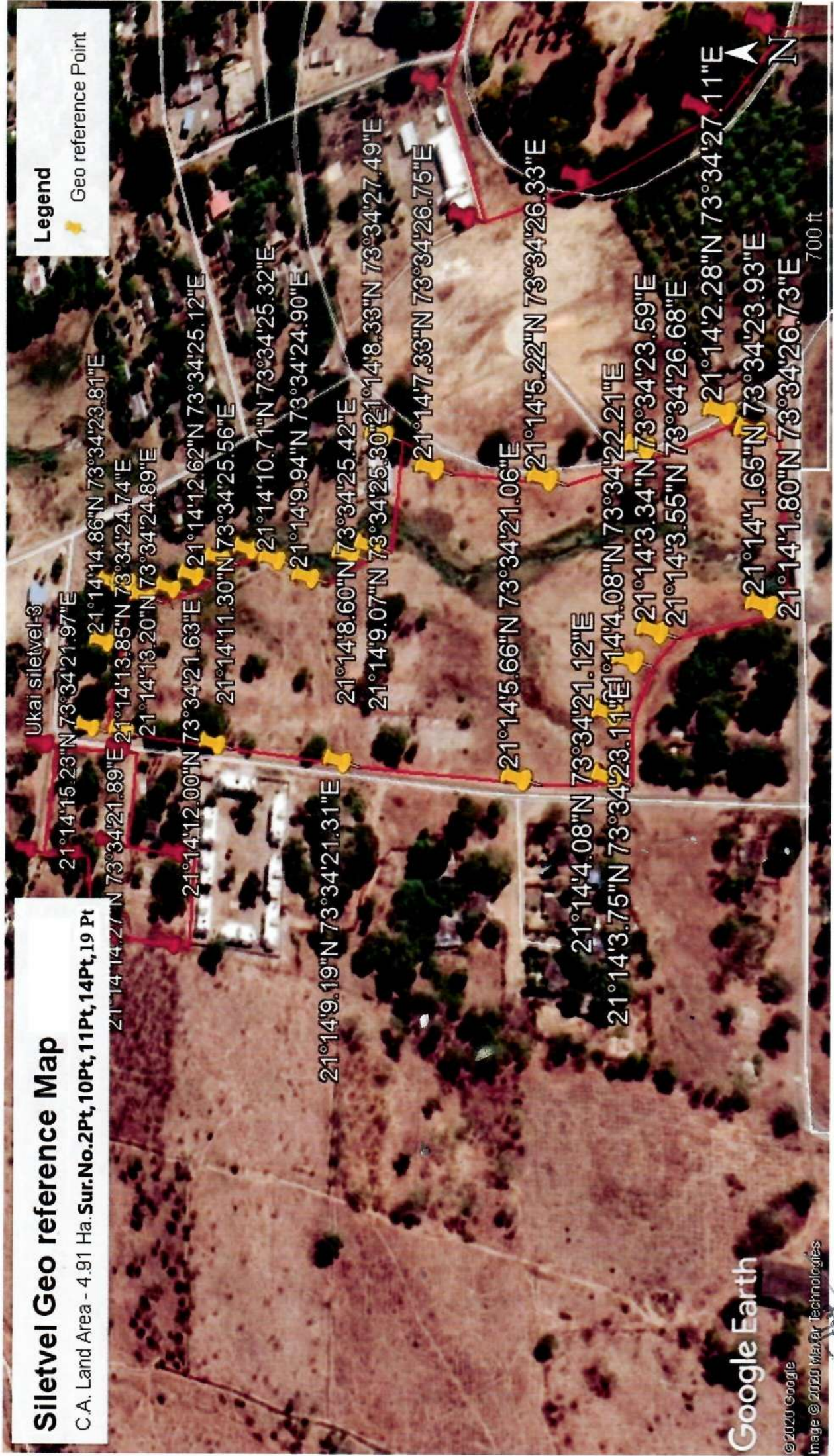
Siletvel Geo reference Map

C.A. Land Area - 4.91 Ha. **Sur.No.2Pt, 10Pt, 11Pt, 14Pt, 19 Pt**

Ukai siletvel-3

Legend

 Geo reference Point



(Anandkumar S.)

Dy. Conservator of Forest

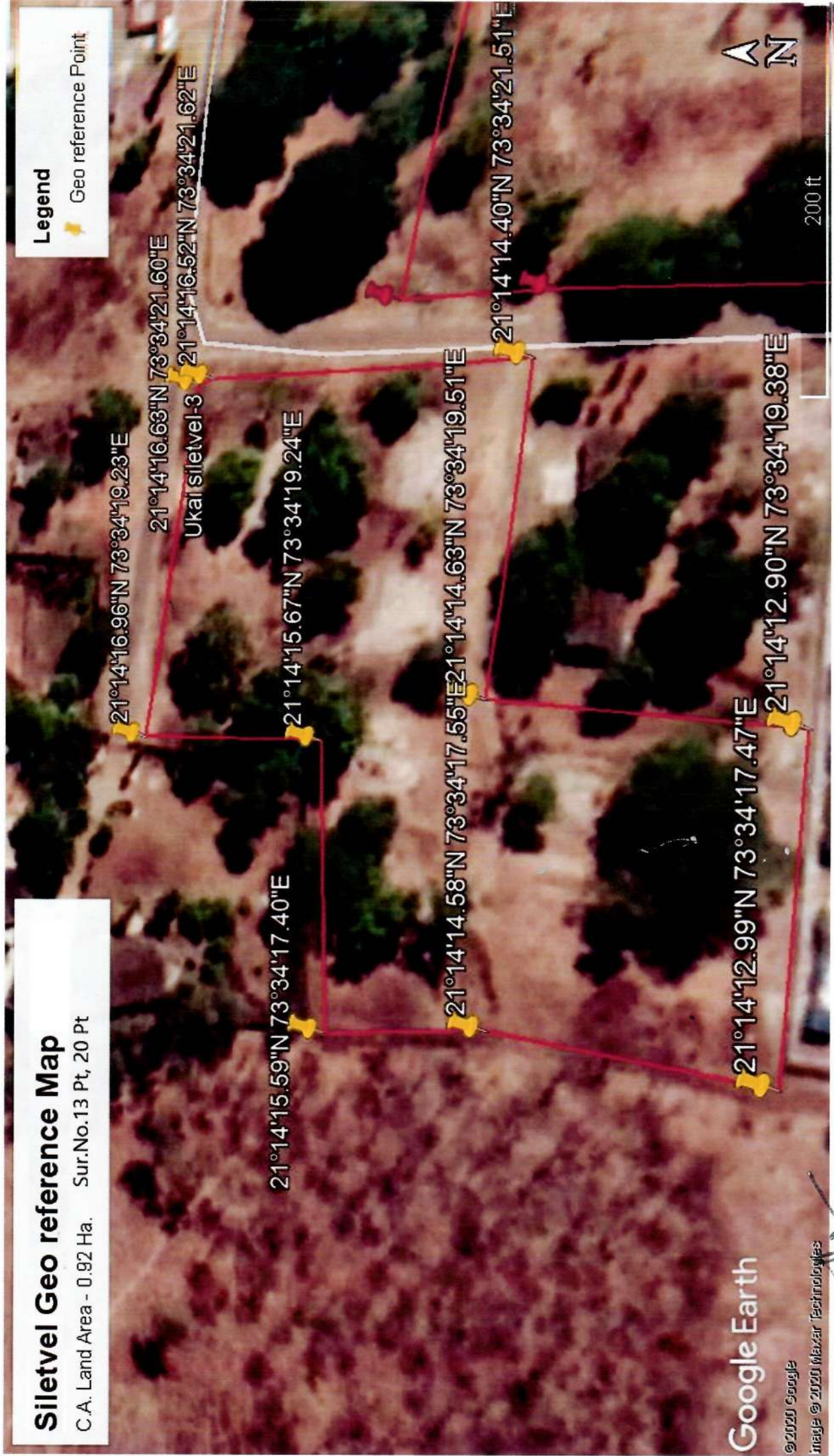
Vyara.

Siletvel Geo reference Map

C.A. Land Area - 0.92 Ha. Sur.No.13 Pt, 20 Pt

Legend

 Geo reference Point



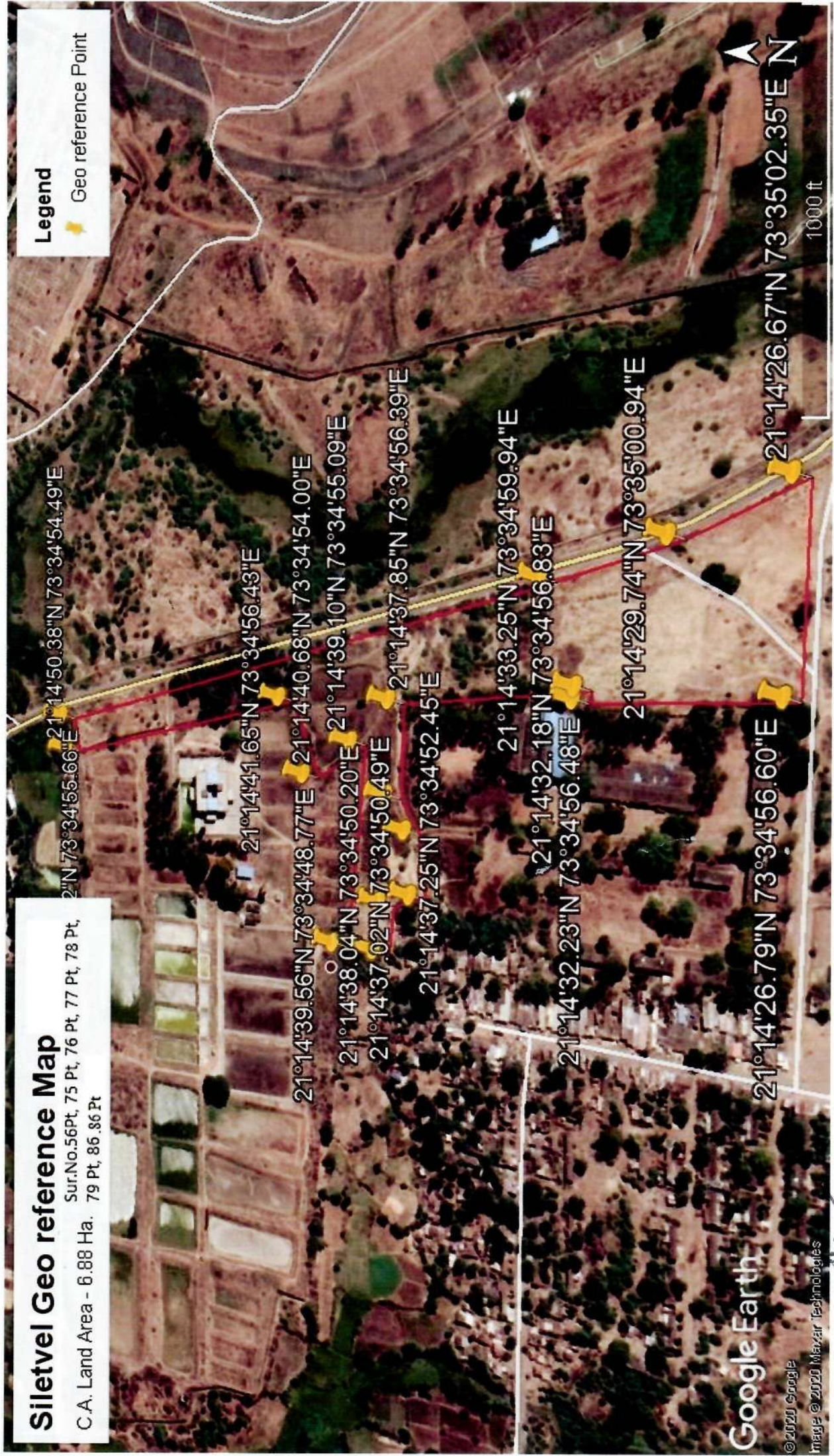
(AECN-2019-08-80)
Dy. Commissioner of Forest
Dy. Comm.

Siletvel Geo reference Map

Sur.No.56Pt, 75 Pt, 76 Pt, 77 Pt, 78 Pt,
C.A. Land Area - 6.88 Ha. 79 Pt, 86.86 Pt

Legend

 Geo reference Point



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Vyasa

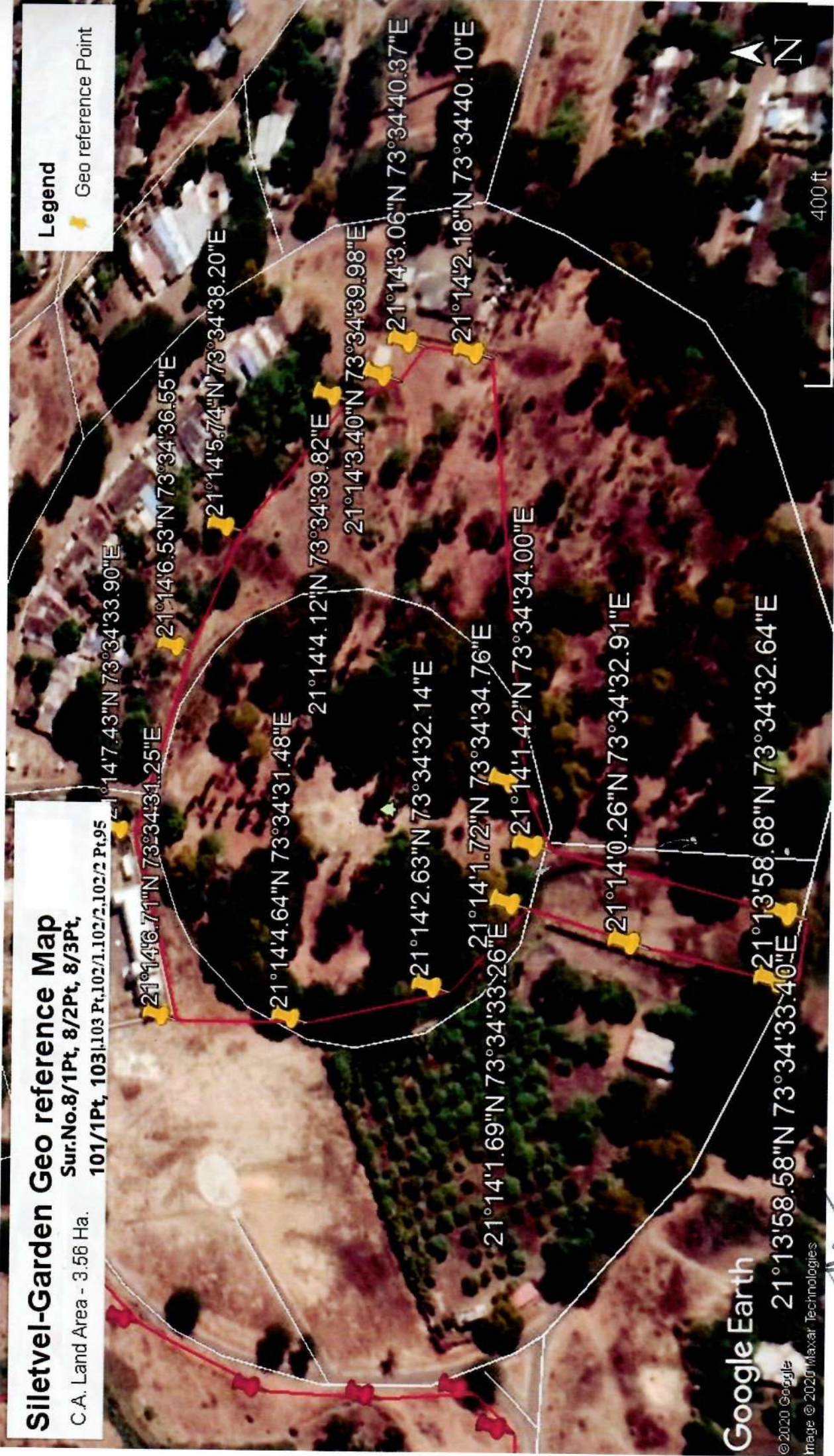
Siletvel-Garden Geo reference Map

C.A. Land Area - 3.56 Ha.

Sur.No.8/1Pt, 8/2Pt, 8/3Pt,
101/1Pt, 103/103 Pt,102/1,102/2 Pt,95

Legend

Geo reference Point



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Dy. Conservator of Forest
Vyara.

Singalkhanch/Ukai TRC Geo reference Map

C.A. Land Area - 4.87 Ha. S.No.-37 Pt, 39 Pt, 103 Pt, 104 Pt, 105 Pt, 106 Pt, 107 Pt, 108 Pt

Legend

 Geo reference Point

21°15'2.32"N 73°34'53.39"E

Ukai TRC

21°15'0.59"N 73°34'56.34"E

21°14'59.85"N 73°35'2.77"E 21°15'0.20"N 73°35'5.39"E

21°14'58.50"N 73°34'51.13"E

21°14'58.39"N 73°35'2.47"E

21°14'58.42"N 73°34'59.01"E

21°14'58.78"N 73°35'2.90"E

21°14'57.21"N 73°34'52.85"E

21°14'57.18"N 73°35'5.77"E

21°14'55.80"N 73°34'54.16"E

21°14'55.68"N 73°34'59.88"E

21°14'54.80"N 73°34'54.95"E 21°14'54.61"N 73°34'55.96"E

Google Earth

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600 ft



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