

No. 2693
H.P. Forest Department

Dated Killar, the 16-09-2022

From:- Divisional Forest Officer
Pangi Forest Division, Killar

To:- The Chief Conservator of Forests (T)
Chamba Forest Circle, Chamba

Sub: Diversion of 211.8427 hectare of forest land for the construction of Dugar Hydro Electric Project (500 MW) in favour of NHPC within jurisdiction of Pangi Forest Division, District Chamba.

Respected Sir,

With reference to MoEF&CC Letter No. 8-15/2022-FC dated 03-08-2022 regarding above cited matter, please find point wise replies to the observations as follows:

i. The MOU has been signed by the GoHP and Chairman NHPC on dated 25.09.2019 for 449 MW, however the proposal submitted is for 500 MW. In many of other documents also, the capacity of the HEP is mentioned as 449 MW. This needs clarification and the revised documents be submitted accordingly.

Reply: Needful has been done and the Matter has been replied by user agency vide letter dated 24-08-2022 (Copy enclosed).

ii. As per DSS analysis, the area of the KML file of Dugar HEP is 282.9878 ha whereas actual area sought for diversion is 211.8427 ha. Hence, there is a discrepancy of 71.1451 ha in the KML file uploaded on PARIVESH portal. Many of the components of the HEP (i.e. Submergence including river area, Dam, Approach Road, Quarry area, Barrow Area etc) have been found overlapping. The revised KML file is therefore required to be submitted.

Reply: Needful has been done and the Matter has been replied by user agency vide letter dated 24-08-2022 (Copy enclosed).

iii. The CA sites are proposed on sloped surface. The state govt may therefore ensure the suitability of the sites and their feasibility for carrying out plantation.

Reply: The CA sites have been revisited and modified as per the suitability and feasibility for carrying out plantation.

iv. Road is passing through the proposed CA sites and settlement is visible in CA site namely "Killar dhar". Further, out of 423.684 ha of proposed CA land, 16 ha is VDF, 82 ha is MDF as per DSS analysis. The proposed CA areas are therefore required to be revisited in view of the guidelines issued by this Ministry from time to time. The details of the non-suitable CA site are as below:

Reply: The CA sites have been revisited and alternative areas free from all encumbrances have been identified as per the suitability and feasibility for carrying out plantation. Forest density classes of proposed CA sites are varying from 0.10 to 0.35. The CA Scheme has been revised as per the modified CA Sites and enclosed at Page No... ^{256 to 282} and the same has been uploaded on Parivesh web portal against additional information.

v. Approved CAT Plan duly signed by the competent authority has not been submitted.

Reply: Needful has been done and the Matter has been replied by user agency vide letter dated 24-08-2022 (Copy enclosed).


vi. The State has mentioned in the CA scheme, that the Root stock is there in the proposed CA areas, however, the density is less due to grazing pressure. How the govt. Intends to mitigate the grazing pressure for proposed CA plantations is therefore required to be submitted.

Reply: Grazing pressure due to cattle, sheep and goat on proposed CA Plantation area shall be mitigated by providing RCC fencing with four strand barbed wire and monitoring which is covered in proposed CA Scheme.

vii. The Muck dumping (8.5797 ha) and the job facility area (7 ha) can be taken on non-forest land. The justification for proposing the same on Forest land may be submitted.

Reply: Needful has been done and the Matter has been replied by user agency vide letter dated 24-08-2022 (Copy enclosed). The possibility for taking up muck dumping site and job facility area on non-forest land is not possible due to non availability of suitable Private land in near by area.

Encl.: As above.


Divisional Forest Officer,
Pangi Forest Division
Kullar (HP)
Divisional Forest Officer
Pangi Forest Division
Kullar (HP)

LOCATION MAP

Location map of Degraded Forest Area / Non forest identified for Compensatory Afforestation in lieu of the proposed diversion of 211.842 ha of Forest land for implementation Hydro Electric Project in Pangi Valley of Chamba District.

Details of degraded forest land / non forest land:-

SN	Division	Name of RF/PF	Range	Village	Name of Area	Area	Survey Sheet No.
1	Pangi	UPF	Killar	Kwas	Killar Dhar1	8.041	52C/8
2	Pangi	UPF	Killar	Kwas	Killar Dhar2	17.300	52C/8
3	Pangi	UPF	Killar	Chacherwas	Rogy	5.690	52C/8
4	Pangi	RF	Killar	RF Chhatwani	Chhatwani	23.850	52C/8
5	Pangi	RF	Killar	Sidh Ka Dera	Sidh ka dera	14.361	52C/8
6	Pangi	UPF	Sach	Findpaar	Findpaar	21.100	52C/8
7	Pangi	RF	Killar	Pregran	Pregran1	16.580	52C/8
8	Pangi	RF	Killar	Pregran	Pregran2	20.290	52C/8
9	Pangi	RF	Killar	Pregran	Pregran3	11.000	52C/8
10	Pangi	RF	Killar	RF Luj	Mehrote	144.122	52C/8
11	Pangi	DPF	Killar	Luj	Bistow	11.650	52C/8
12	Pangi	DPF	Sach	Sach	Sach Chauri 1	7.750	52D5
13	Pangi	DPF	Sach	Sach	Sach Chauri 2	16.250	52D5
14	Pangi	DPF	Sach	Mindhal	Mindhal	14.270	52D5
15	Pangi	DPF	Killar	Bindrabani	Chanchalperi	20.660	52C/8
16	Pangi	DPF	Killar	Bindrabani	Murthalu	49.800	52C/8
17	Pangi	DPF	Killar	Dharwas	Dighrei	20.970	52C/8
Total						423.684	

Map attached of the area to be taken for Compensatory Afforestation

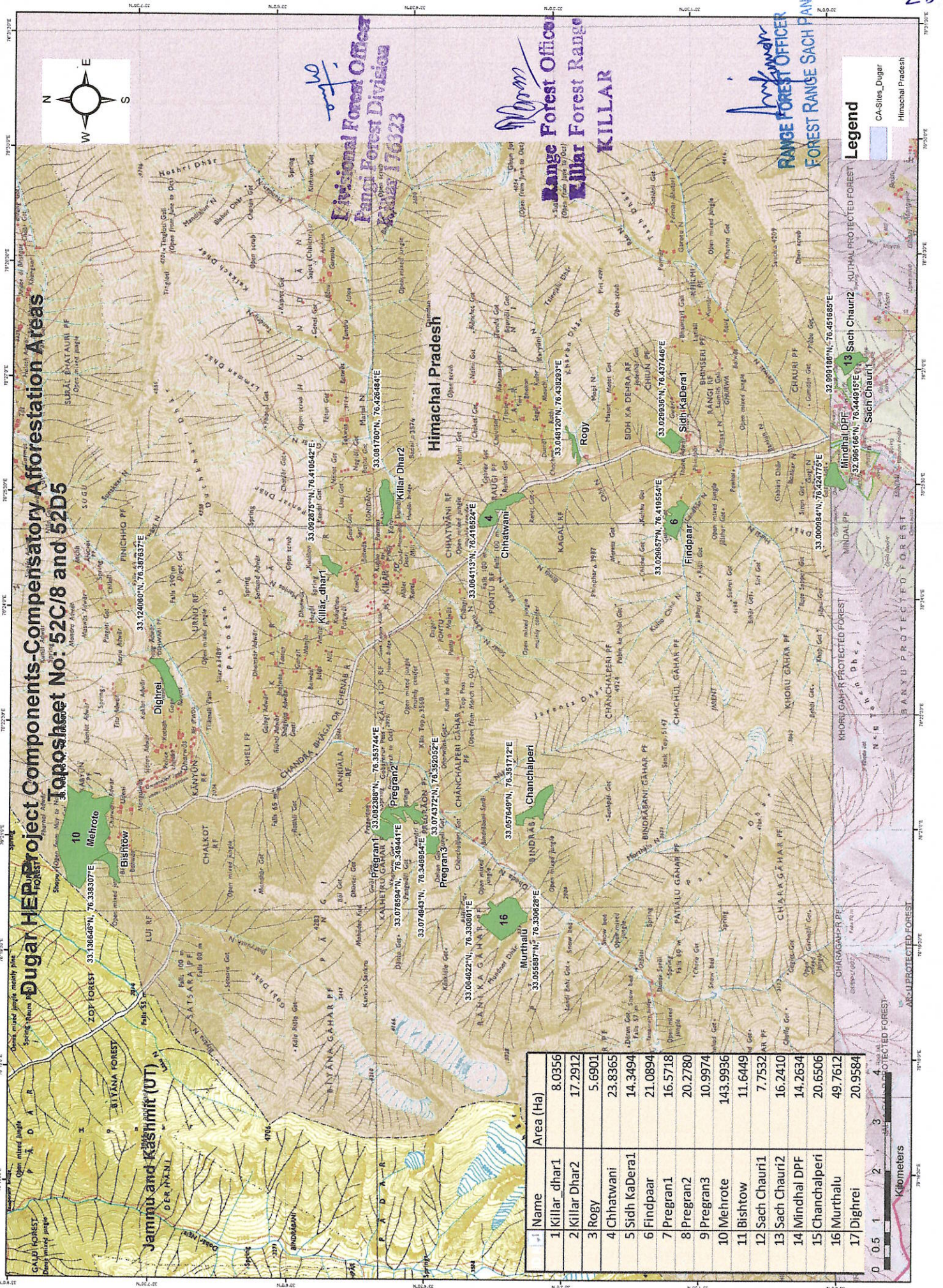
Place:

Date:


 RANGE FOREST OFFICER
 FOREST RANGE SACH PANGI


 (Range Forest Officer)
 Range Forest Officer
 Killar Forest Range
 KILLAR


 (Divisional Forest Officer)
 Divisional Forest Officer
 Pangi Forest Division
 Killar 176323



Dugar HEP Project Components-Afforestation Areas
Toposheet No: 52C/8 and 52D5

No.	Name	Area (Ha)
1	Killar_dhar1	8.0356
2	Killar Dhar2	17.2912
3	Rogy	5.6901
4	Chhatwani	23.8365
5	Sidh Kadera1	14.3494
6	Findpaar	21.0894
7	Pregran1	16.5718
8	Pregran2	20.2780
9	Pregran3	10.9974
10	Mehrote	143.9936
11	Bishtow	11.6449
12	Sach Chauri1	7.7532
13	Sach Chauri2	16.2410
14	Mindhal DPF	14.2634
15	Chanchalperi	20.6506
16	Murthalu	49.7612
17	Dighrei	20.9584

Legend

CA-Sites_Dugar
 Himachal Pradesh

Kilometers
 0 0.5 1 2 3 4

Details of Compensatory Afforestation area for Dugar HE Project

1. Killar Dhar1, Area 8.041 Ha

Sl.No.	Longitude	Latitude
1	76.40581950	33.08989926
2	76.40789047	33.08915563
3	76.41050281	33.09164148
4	76.40823322	33.09243782

2. Killar Dhar2, Area 17.300 Ha

Sl.No.	Longitude	Latitude
1	76.41684318	33.08107680
2	76.41929950	33.07994987
3	76.42673148	33.08062754
4	76.42467246	33.08210951
5	76.42101906	33.08182292

3. Rogy, Area 5.690 Ha

Sl.No.	Longitude	Latitude
1	76.43244679	33.04588028
2	76.43641194	33.04700547
3	76.43819763	33.04828123
4	76.43543599	33.04764026
5	76.43165129	33.04674148
6	76.42993439	33.04598481

4. Chhatwani, Area 23.850 Ha

Sl.No.	Longitude	Latitude
1	76.41746766	33.06090057
2	76.42102294	33.05901620
3	76.42320085	33.05577377
4	76.42302531	33.05878896
5	76.42025258	33.06294502
6	76.41703666	33.06391929

5. Sidh ka Dera, Area 14.361 Ha

Sl.No.	Longitude	Latitude
1	76.43602084	33.02756531
2	76.43736702	33.02921925
3	76.43674532	33.03154244
4	76.43578243	33.03164594
5	76.43235617	33.02855343
6	76.43397332	33.02733563

6. Findpaar, Area 21.100 Ha

Sl.No.	Longitude	Latitude
1	76.41412715	33.02811109
2	76.42054266	33.02599120
3	76.42176966	33.02759963
4	76.41852046	33.02999519
5	76.41447188	33.02960672

7. Pregran1, Area 16.580 Ha

Sl.No.	Longitude	Latitude
1	76.35098731	33.07960423
2	76.35317991	33.08344320
3	76.35079232	33.08396728
4	76.34904931	33.08082838

8. Pregran2, Area 20.290 Ha

Sl.No.	Longitude	Latitude
1	76.35659916	33.07588280
2	76.35374440	33.08230826
3	76.35136613	33.07957315
4	76.35253714	33.07452725

9. Pregran3, Area 11.000 Ha

Sl.No.	Longitude	Latitude
1	76.34842901	33.07162711
2	76.34985928	33.07262961
3	76.34695360	33.07494286
4	76.34544354	33.07391435
5	76.34580022	33.07224937

10. Mehrote, Area 144.122 Ha

Sl.No.	Longitude	Latitude
1	76.33662614	33.13779119
2	76.33817669	33.13689939
3	76.34640191	33.13350732
4	76.35640957	33.13413339
5	76.35834955	33.14003982
6	76.34315404	33.14124793

Signature
 Divisional Forest Officer
 Pangri Forest Division
 Killar 176323

Page 1 of 2

Signature
 Range Forest Officer
 Killar Forest Range
 KILLAR

Signature
 RANGE FOREST OFFICER
 FOREST RANGE SACH PANGI

Details of Compensatory Afforestation area for Dugar HE Project

11. Bistow, Area 11.650 Ha

Sl.No.	Longitude	Latitude
1	76.34403831	33.13153680
2	76.34409419	33.13296728
3	76.34274681	33.13502866
4	76.33982527	33.13235769
5	76.33789802	33.13030217

12. Sach Chouri1, Area 7.750 Ha

Sl.No.	Longitude	Latitude
1	76.44577229	32.99459602
2	76.44635065	32.99430210
3	76.44851545	32.99490364
4	76.44871126	32.99577618
5	76.44699397	32.99675217

13. Sach Chouri2, Area 16.250 Ha

Sl.No.	Longitude	Latitude
1	76.44930746	32.99648969
2	76.45251143	32.99324425
3	76.45360023	32.99519862
4	76.45298118	32.99827052
5	76.45028455	32.99771985

14. Mindal DPF, Area 14.270 Ha

Sl.No.	Longitude	Latitude
1	76.42565150	32.99741698
2	76.42978304	32.99961772
3	76.42450712	32.99927040
4	76.42450188	32.99702715

15. Chanchal Peri, Area 20.660 Ha

Sl.No.	Longitude	Latitude
1	76.35170103	33.05706457
2	76.35382216	33.05285260
3	76.36003905	33.05182113
4	76.35532394	33.05494047
5	76.35171173	33.05764897

16. Murthalu, Area 49.800 Ha


Sl.No.	Longitude	Latitude
1	76.33600451	33.05929090
2	76.32891588	33.06285160
3	76.32772536	33.05900018
4	76.33239044	33.05570569

17. Dighrei, Area 20.970 Ha

Sl.No.	Longitude	Latitude
1	76.38122827	33.11866366
2	76.38820793	33.12270337
3	76.38676377	33.12299450
4	76.37845080	33.11955873

Note: Values are in Decimal degrees.


Divisional Forest Officer
Fangi Forest Division
Killar 176023


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FOREST RANGE SACH PANGI
 Page 2 of 2
Range Forest Officer
Killar Forest Range
KILLAR



200 m

Legend

Killar_dhar1

CA Area - Killar Dhar1

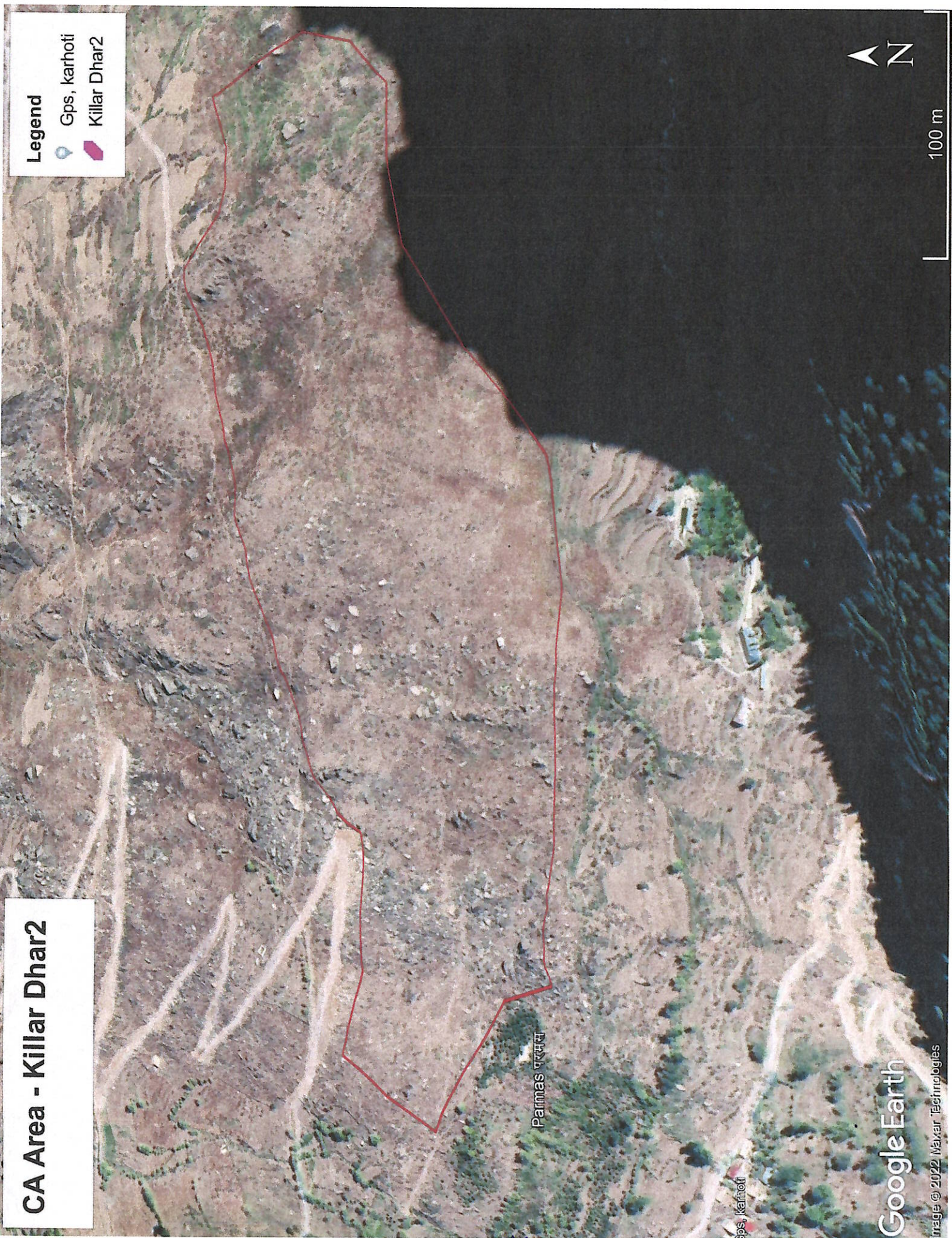


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Pangi Forest Division
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Range Forest Officer
Killar Forest Range
KILLAR



CA Area - Killar Dhar2

Legend

- Gps, karhoti
- Killar Dhar2



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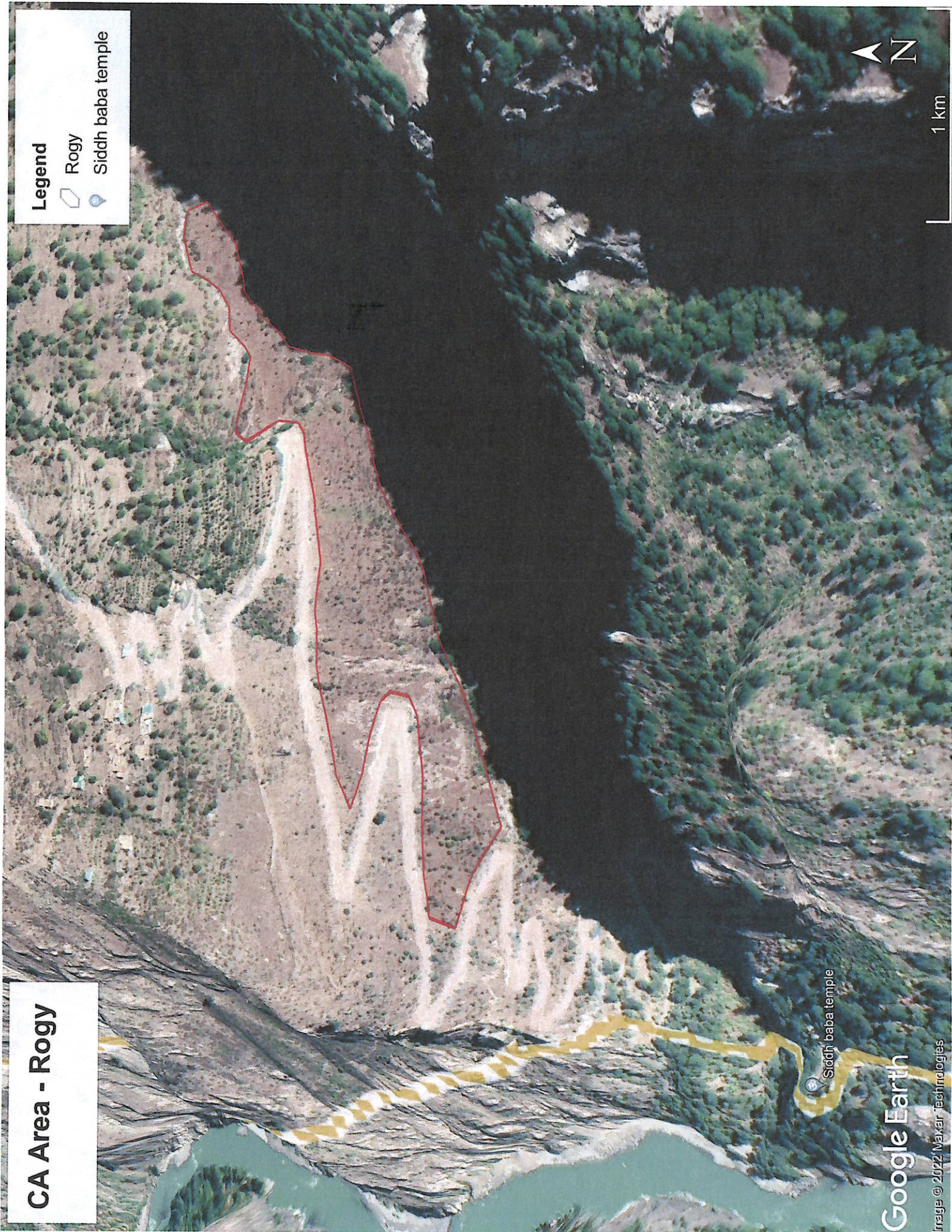
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CA Area - Rogy

Legend

Rogy

Siddh baba temple

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CA Area - Chhatwani

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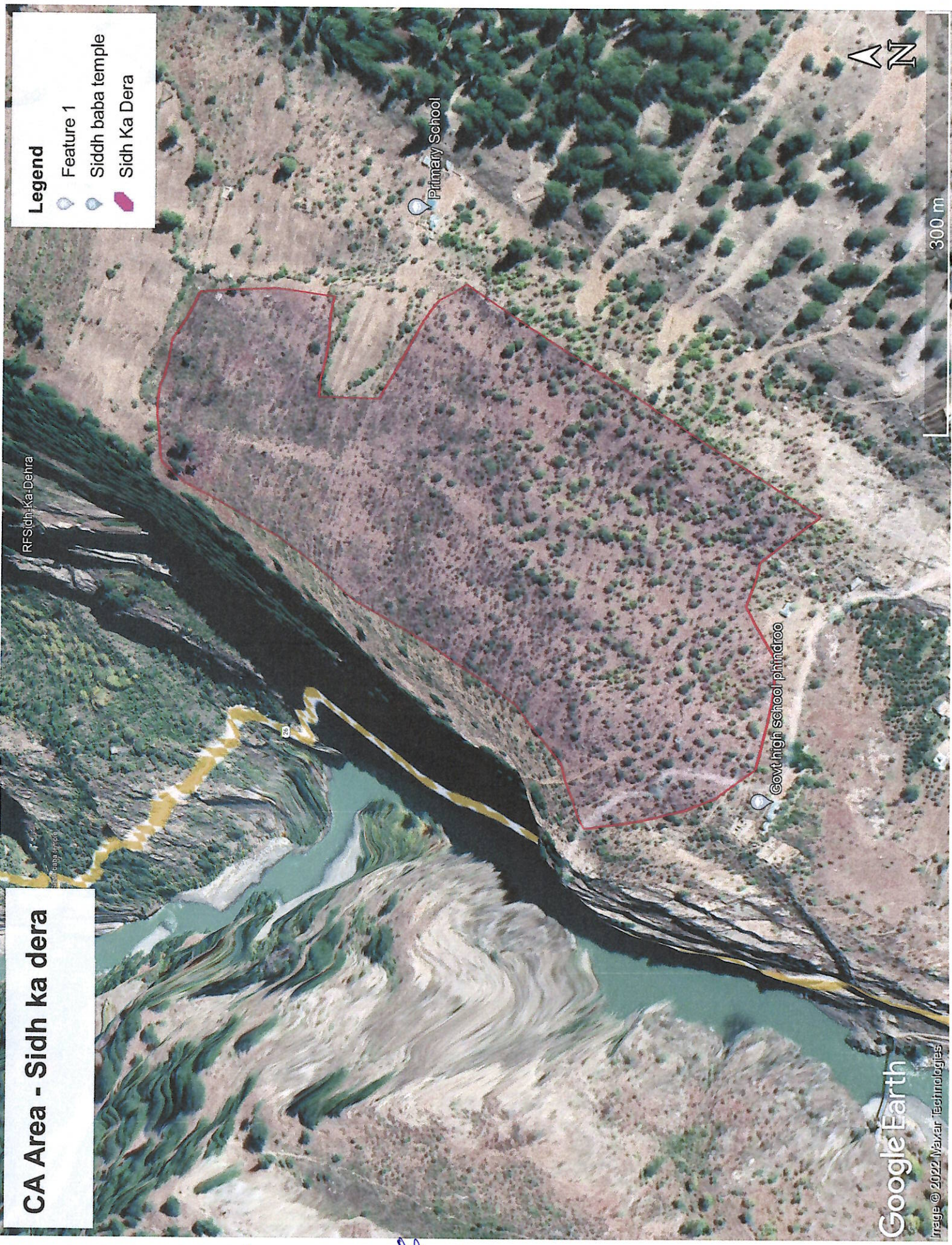
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- Chhatwani forest

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 Kullar Forest Division
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CA Area - Sidh ka dera

RF Sidh ka Dehra

Legend

- Feature 1
- Sidh baba temple
- Sidh Ka Dera

Primary School

Govt high school phindroo

Google Earth

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300 m



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 K.D. No. 176323

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CA Area - Findpaar

Legend

- Findpaar
- Siddh baba temple



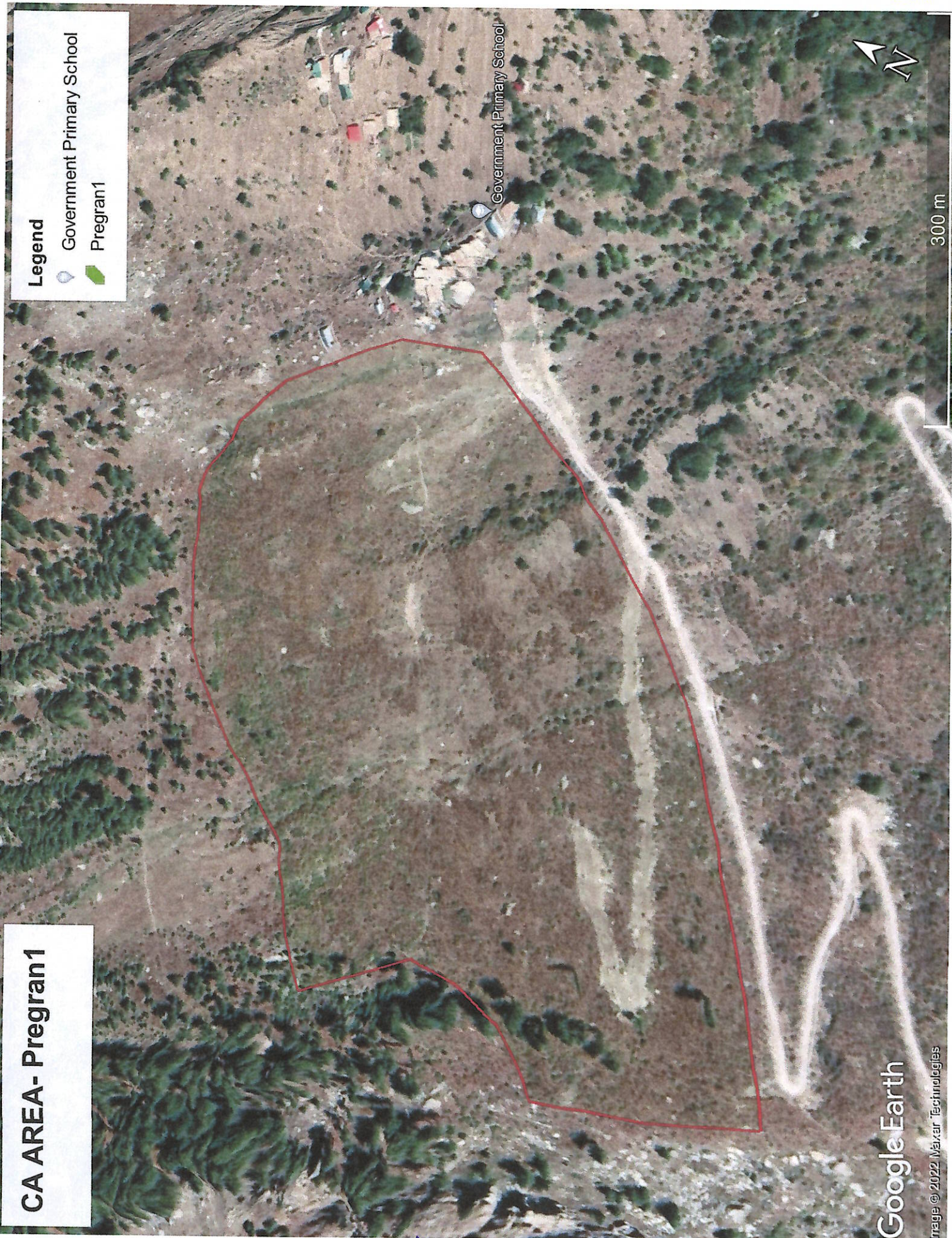
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 Pangri Forest Division
 F.No. 176323

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 FOREST RANGE SACHIN

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600 m



CA AREA- Pregran1

Legend

-  Government Primary School
-  Pregran1

Government Primary School

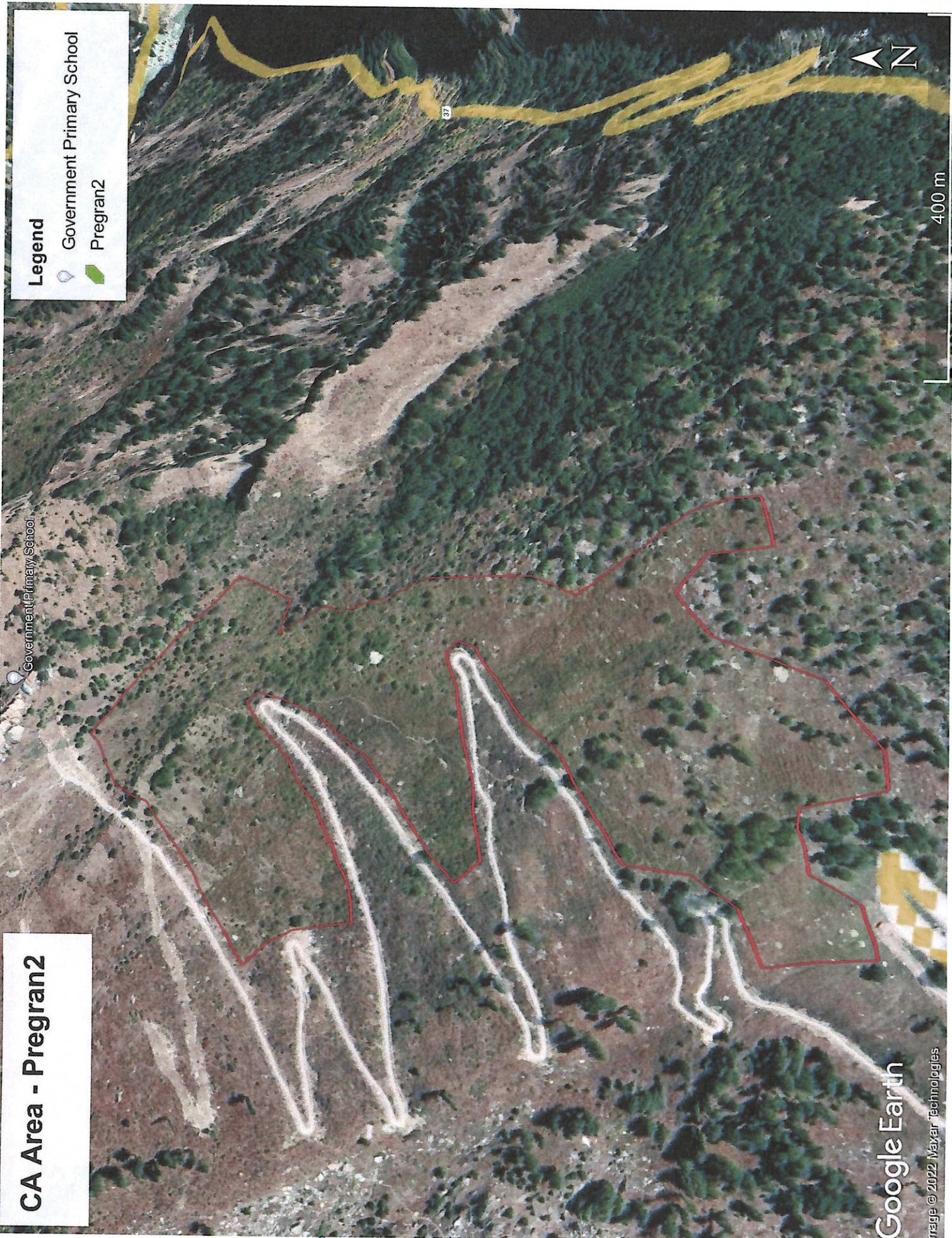
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 Divisional Forest Officer
 Pangri Forest Division
 Killar 176323

Maran
 Range Forest Officer
 Killar Forest Range
 KILLAR



Legend

-  Government Primary School
-  Pregran2

CA Area - Pregran2

Google Earth

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Angelo
 Divisional Forest Officer
 Fungi Forest Division
 Killar 176323

Monem
 Range Forest Officer
 Killar Forest Park
 KILLAR



CA Area - Pregran3

Legend

- Pregran3

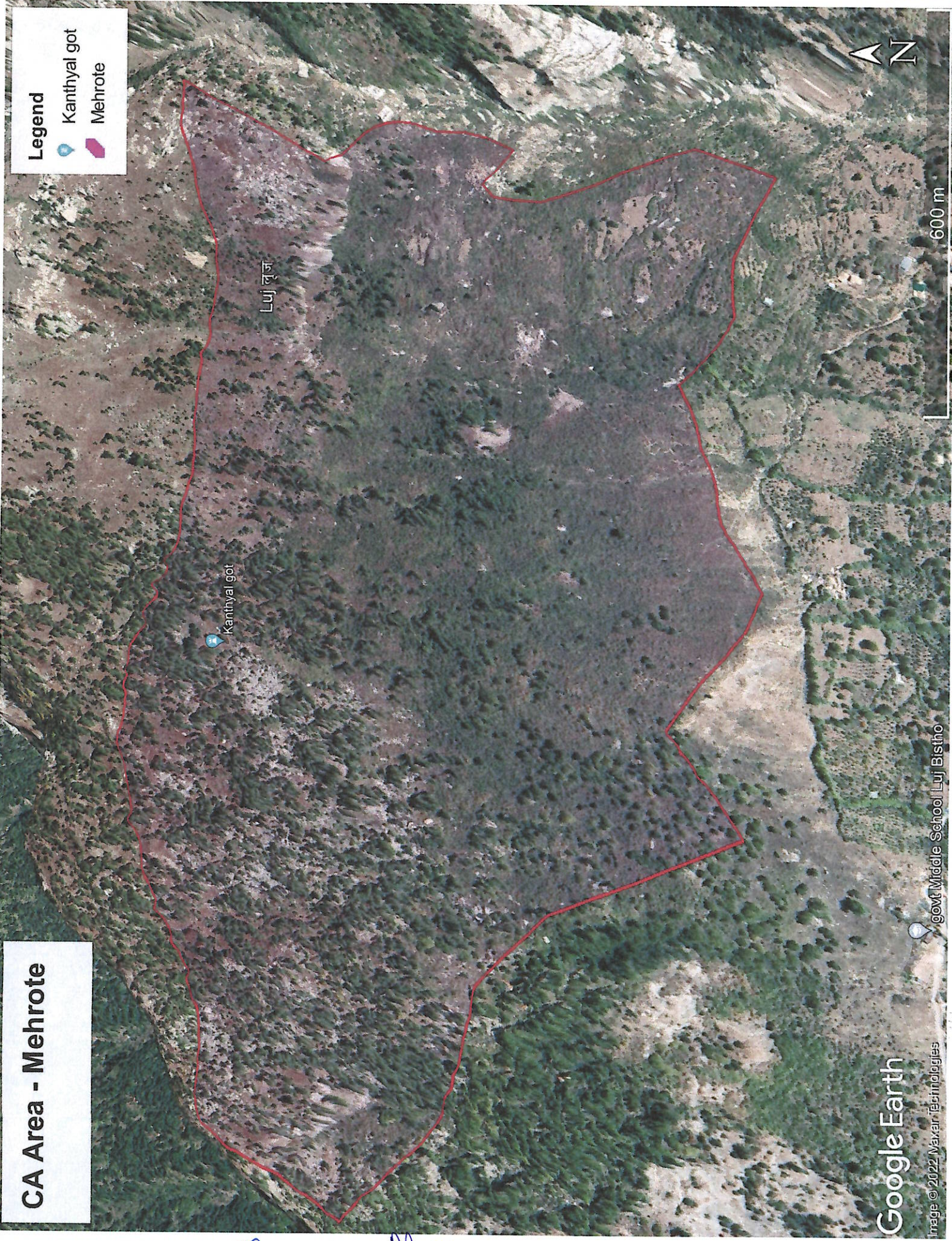
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 Pangri Forest Division
 Killar 176323

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 Range Forest Officer
 Killar Forest Range
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CA Area - Mehrote

Legend

- Kanthyal got
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 Divisional Forest Officer
 Fangi Forest Division
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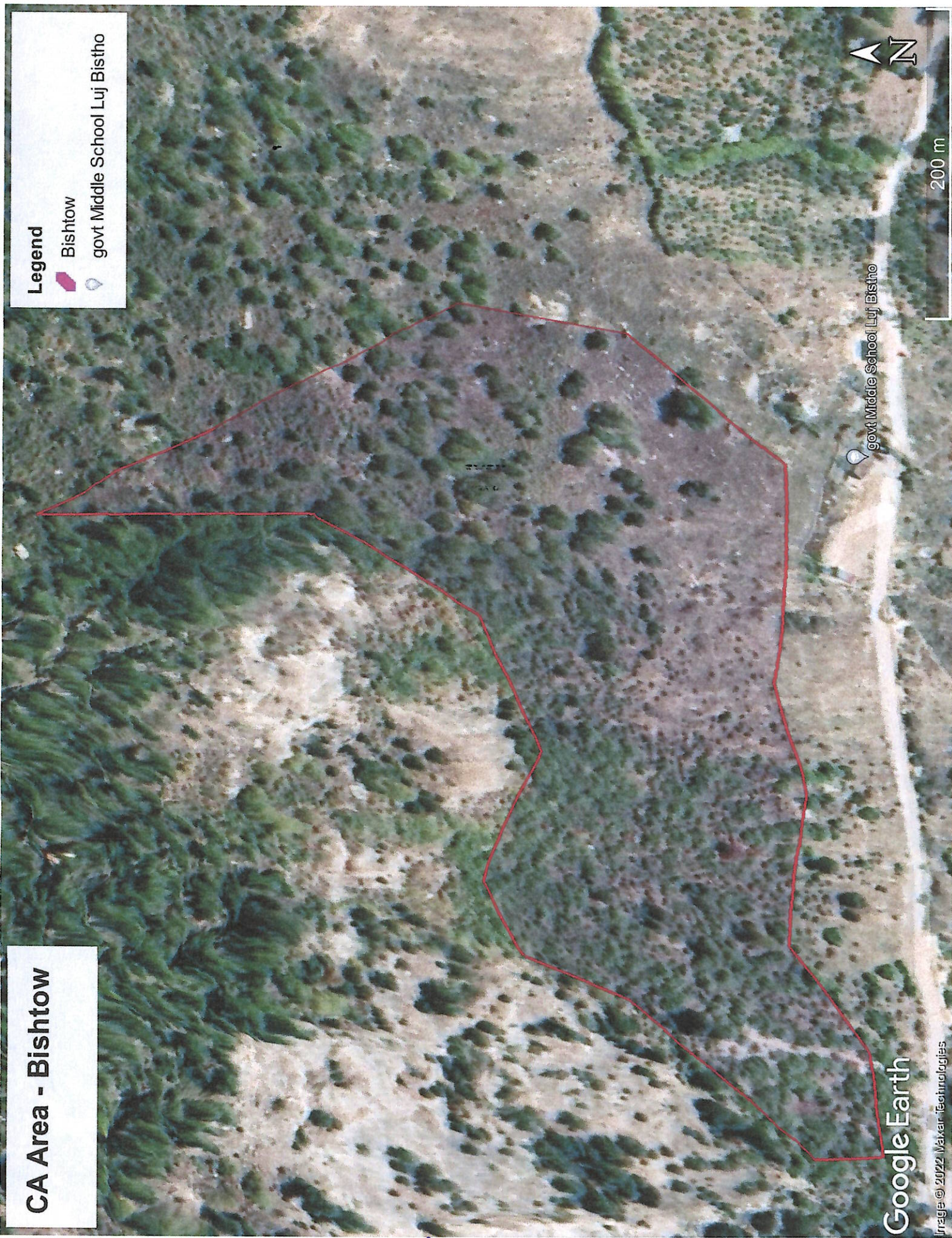
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govt Middle School Luj Bistho

600 m



CA Area - Bishtow

Legend

- ▬ Bishtow
- 📍 govt Middle School Luj Bistho



200 m

govt Middle School Luj Bistho

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 Divisional Forest Officer
 Pangri Forest Division
 Killar 176323

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 Range Forest Officer
 Killar Forest Range
 KILLAR



100 m

Legend
Sach Chauri



Sach मत्त

CA Area -Sach Chauri

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Handwritten signature

Divisional Forest Officer
Pangi Forest Division
Khar 176323

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RANGE FOREST OFFICE
FOREST RANGE SACH



CA Area - Sach Chauri2

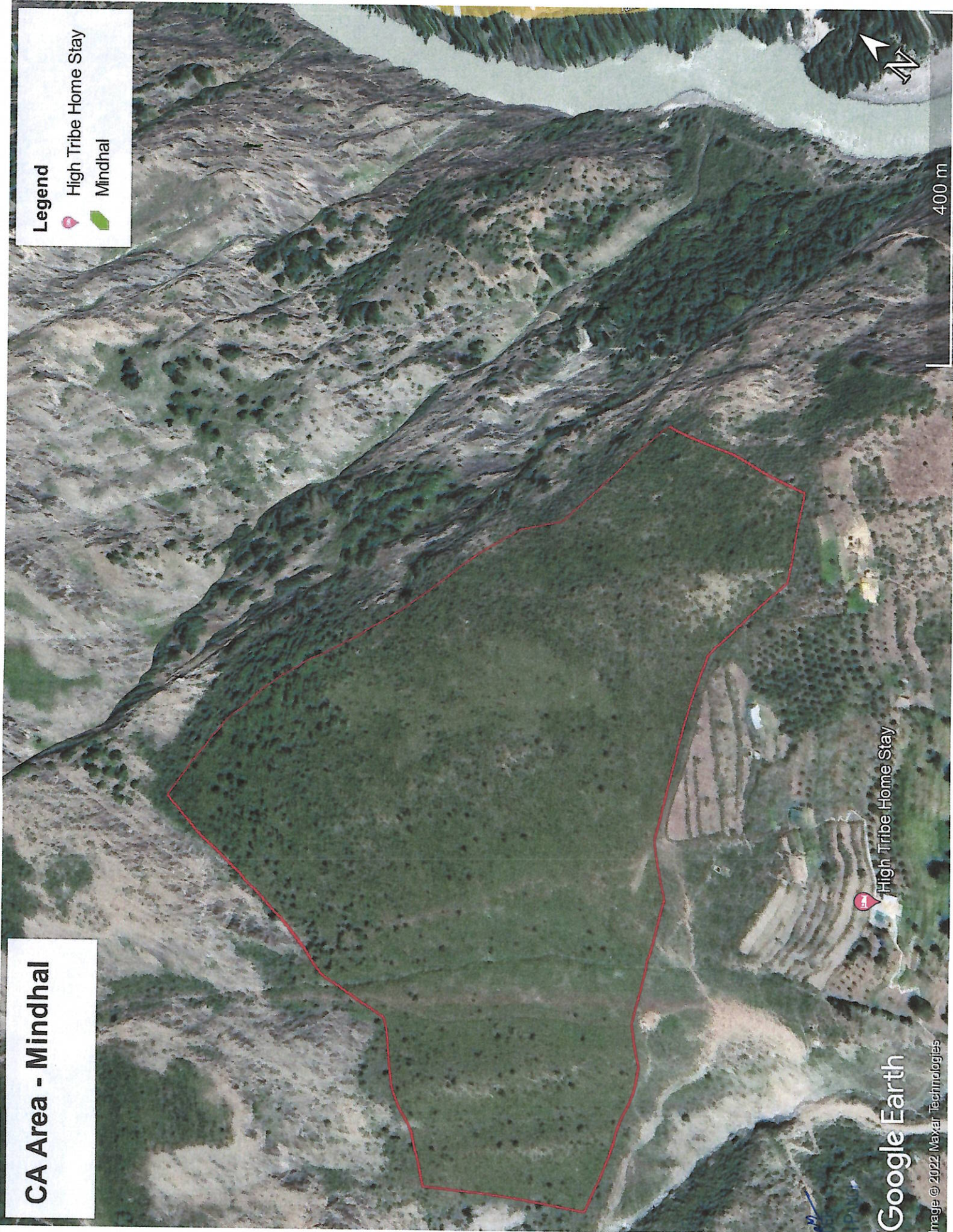
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-  Mahi Ramzan
-  Sach Chauri2

Mahi Ramzan Mahi Ramzan

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 Divisional Forest Officer
 Pangi Forest Division
 Killa 176323

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 RANGE FOREST OFFICER
 FOREST RANGE SACH CHAURI



CA Area - Mindhal

Legend

- High Tribe Home Stay
- Mindhal

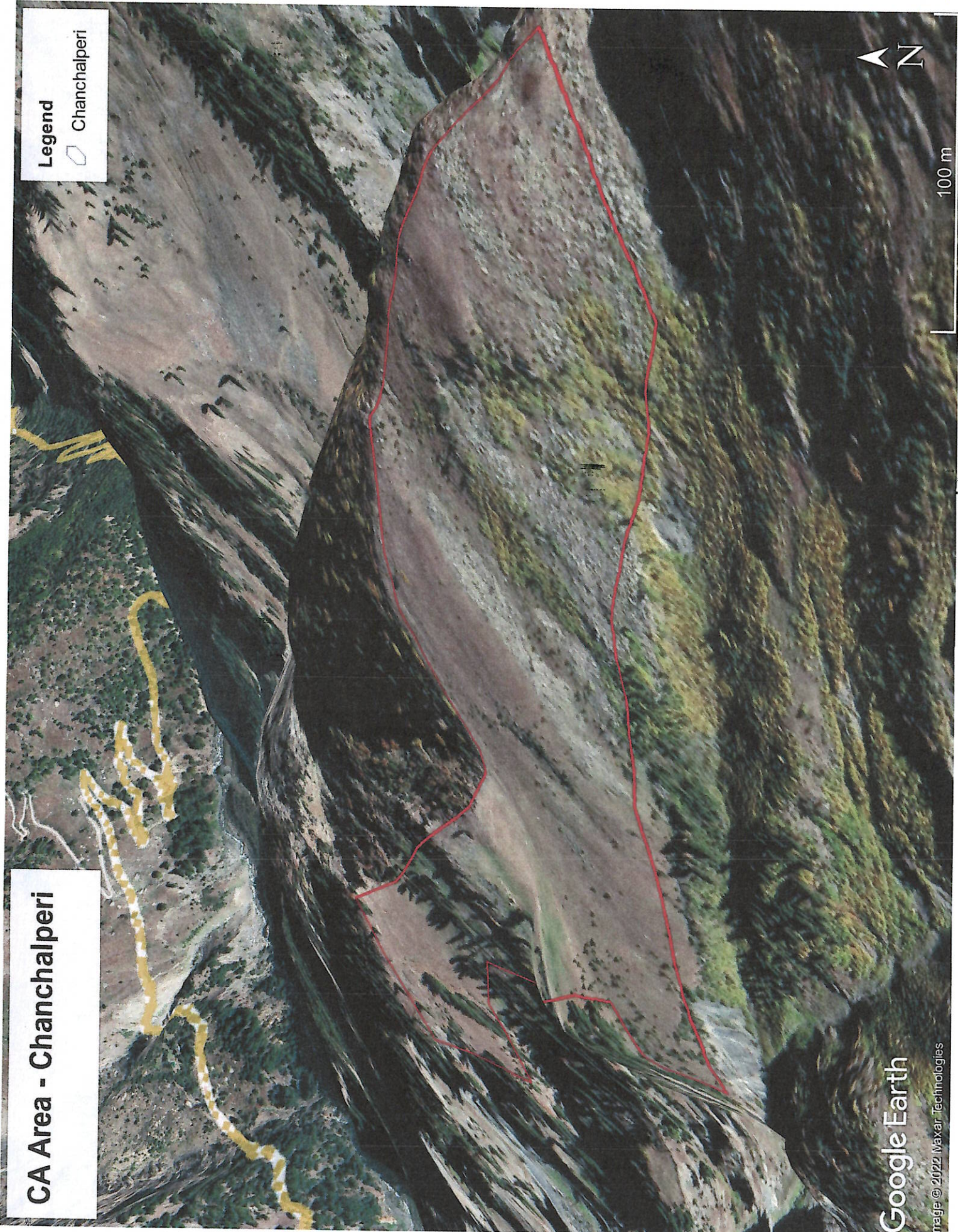
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 FOREST RANGE SAC



CA Area - Chanchalperi

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[Signature]
 Divisional Forest Officer
 Pangri Forest Division
 Killar 176323

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 Range Forest Officer
 Killar Forest Range
 Killar



400 m

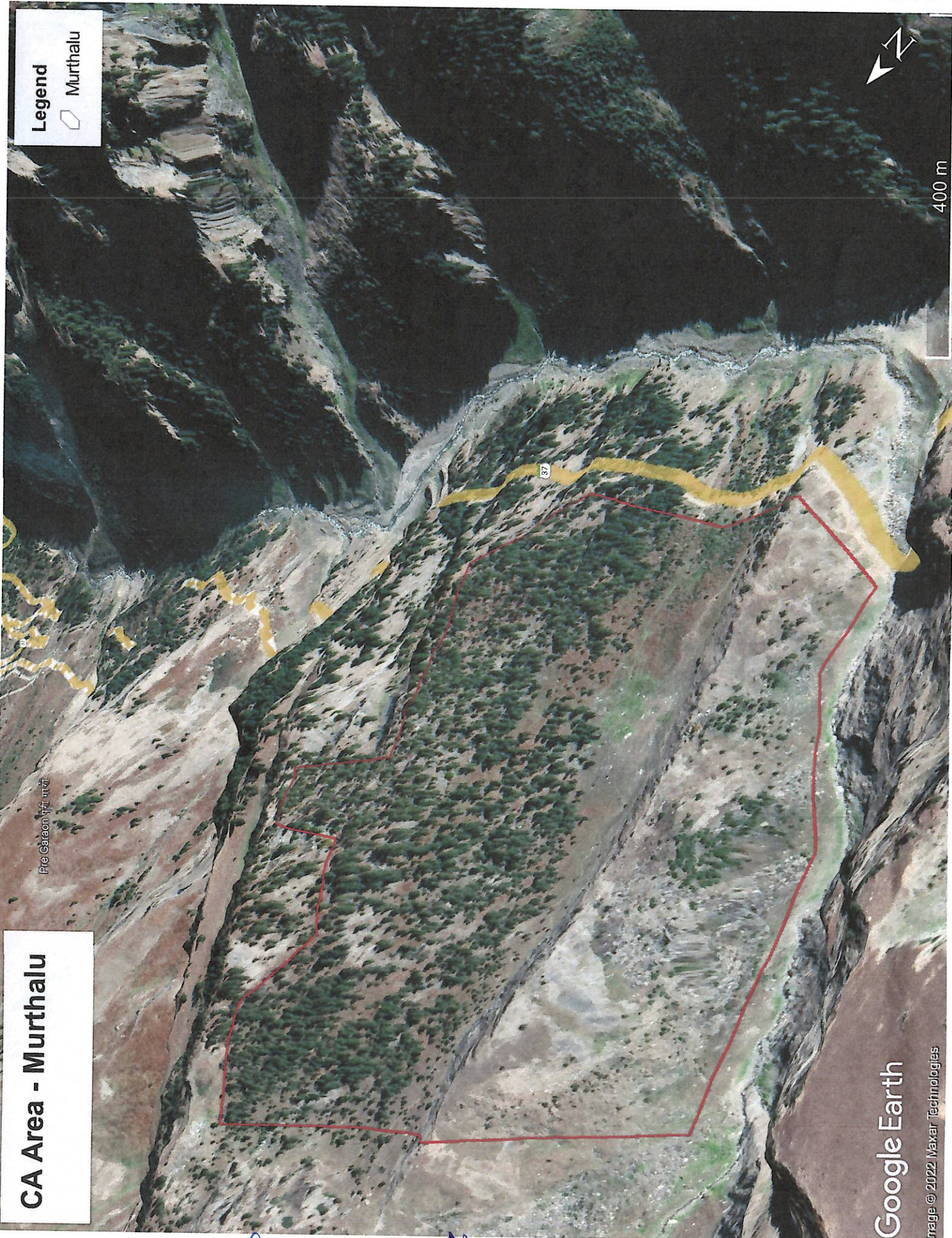
Legend

Murthalu



CA Area - Murthalu

Pre-Carson 1/11/11



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[Signature]
Divisional Forest Officer
Fangi Forest Division
Killar 176323

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Range Forest Officer
Killar Forest Range
KILLAR



90 m

Legend

 Dighrei



CA Area - Dighrei

Google Earth

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[Signature]
 Divisional Forest Officer
 Pangri Forest Division
 Killar 176323

[Signature]
 Range Forest Officer
 Killar Forest Range

Full Title of the Project:- Dugar Hydro Electric Project

File No.:-

Date of Proposal:-

LAND SUITABILITY CERTIFICATE BY THE DFO

This is to certify that 423.684 ha land bearing the following details identified for Compensatory Afforestation in Pangi Valley of Chamba District is suitable for undertaking plantation from the management point of view and is free from all sorts of encumbrances and encroachments.

SN	Division	Name of RF/ DPF	Range	Village	Name of Area	Area	Density	Survey Sheet No.
1	Pangi	UPF	Killar	Kwas	Killar Dhar1	8.041	0.10	52C/8
2	Pangi	UPF	Killar	Kwas	Killar Dhar2	17.300	0.10	52C/8
3	Pangi	UPF	Killar	Chacherwas	Rogy	5.690	0.20	52C/8
4	Pangi	RF	Killar	RF Chhatwani	Chhatwani	23.850	0.20	52C/8
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Total						423.684		

Place:

Date:


RANGE FOREST OFFICER
FOREST RANGE SACH PANGI


(Range Forest Officer)
Killar Forest Range
KILLAR


(Divisional Forest Officer)
Divisional Forest Officer
Pangi Forest Division
Killar 176323

Full Title of the Project:- Dugar Hydro Electric Project

File No.:-

Date of Proposal:-

SCHEME FOR COMPENSATORY AFFORESTATION

Detailed scheme for Compensatory Afforestation to be carried out in lieu of 211.842 ha of Forest land to be diverted for Dugar Hydro Electric Project in Pangli Valley of Chamba District.

1. Details of degraded forest land / non forest land:-

SN	Division	Name of RF/PF	Range	Village	Name of Area	Area	Survey Sheet No.
1	Pangli	UPF	Killar	Kwas	Killar Dhar1	8.041	52C/8
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Total						423.684	


 RANGE FOREST OFFICER
 FOREST RANGE SACH PANGI


 (Range Forest Officer)
 Range Forest Officer
 Killar Forest Range
 KILLAR


 (Divisional Forest Officer)
 Divisional Forest Officer
 Pangli Forest Division
 Killar 176323

2. Description of the Area

Whether the site selected for Compensatory Afforestation is a land bank or not	No
If the CA site is other than the land bank, reason to be given	The proposed sites are degraded forest land having less density. Hence, it is selected for Compensatory Afforestation.
In case of non-forest area identified for CA, then what is the distance of CA site from the adjoining forest boundary	Non Forest land is not available for raising Compensatory Afforestation.
Soil type	Sandy - Loam
Topography <ul style="list-style-type: none"> • Hilly /Undulating /Plain • Slope: Steep/Medium/Gentle 	Hilly Steep
Whether the area is bearing any root stock of vegetation	Yes, but the density is very less due to grazing pressure

3. Plantation Model:-

Considering the 2022-2023 Plantation rate for Tribal 1, the total outlay of **Rs. 6,92,25,202/- (Six crore Ninety Two lac Twenty Five thousand Two hundred Two only)** would be utilized for the plantation of species in the designated Compensatory Afforestation area (Details enclosed as **Annex-I**).

4. Schedule of Plantation Programme

Considering the 2022-2023 Plantation and Maintenance rate for Tribal 1, the total outlay of **Rs. 13,26,98,660/- (Thirteen Crore Twenty Six lac Ninety Eight thousand Six hundred Sixty only)** would be utilized for the plantation and maintenance of species in the designated Compensatory Afforestation area (Details enclosed as **Annex-II**).


(Range Forest Officer)
Killar Forest Range
KILLAR


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5. Technical Details

Technical details of compensatory afforestation scheme are as follows:

General Details	Details of all the RF, DPF and dhar is to be mentioned
Spacement	1100 plant per ha
Species	Conifer & Broad leave
Plantation method	Pits are to be dug 02-03 months in advance of planting to allow for weathering of soil and to improve its physical & chemical properties and planting is done in 45 cum or 30 cum pits.
Soil & Moisture Conservation works	For soil and water conservation works, MRI works i.e. trenches, gully plugging, vegetation measures will be carried out. The water harvesting moisture conservation trenches shall be of size 3 meters x 1 meters x 2.3 meters. The dug up earth shall be used to develop mound on the downhill side. The depth will vary from 0.2 meters on upper side to 0.3 meter on the downhill side.
Protection (Fencing, Watchman, People's Participation)	Barbed wire fencing in fourth strands 05 th year maintenance, participatory mode of work etc.
Proposed Monitoring Mechanism	As per guidelines, time to time work will be monitored by executing agency & by forest department officers while on tour.
Any Other Information	Due to erratic & feeble monsoon in Pangri valley, the planting in monsoon is not feasible. Therefore, planting in Pangri valley is to be carried out in late November & early December taking advantage of little rainfall which precedes the snow in valley.

The Compensatory Afforestation will be carried out by the Forest department of Himachal Pradesh at the cost of funds to be provided by the User Agency. The work will be carried out immediately after the Government of India conveyed its approval.


 RANGE FOREST OFFICER
 FOREST RANGE SACH PANGI


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Patch wise Breakup of cost of CA scheme Plantation Model											Annex-I	
S.No	Patch No.	Name of Area	Area (ha)	Range	Rate (per ha.) for Tribal 1 for Plantation (Rs.)	Nursery cost (per ha.)	Total rate (per ha.)	Total Amount (Rs.)	Soil & Moisture Conservation works @ 25% of planting Cost	Total Amount (Rs.)	Total Amount (Rs.)	
1	1	Killar Dhar1	8.041	Killar	106500	24211	130711	1051047.00	262762.00	1313809.00	1313809.00	
2	2	Killar Dhar2	17.300	Killar	106500	24211	130711	2261300.00	565325.00	2826625.00	2826625.00	
3	3	Rogy	5.690	Killar	106500	24211	130711	743746.00	185937.00	929683.00	929683.00	
4	4	Chhatwani	23.850	Killar	106500	24211	130711	3117457.00	779364.00	3896821.00	3896821.00	
5	5	Sidh ka dera	14.361	Killar	106500	24211	130711	1877141.00	469285.00	2346426.00	2346426.00	
6	6	Findpaar	21.100	Saach	106500	24211	130711	2758002.00	689501.00	3447503.00	3447503.00	
7	7	Pregran1	16.580	Killar	106500	24211	130711	2167188.00	541797.00	2708985.00	2708985.00	
8	8	Pregran2	20.290	Killar	106500	24211	130711	2652126.00	663032.00	3315158.00	3315158.00	
9	9	Pregran3	11.000	Killar	106500	24211	130711	1437821.00	359455.00	1797276.00	1797276.00	
10	10	Mehrote	144.122	Killar	106500	24211	130711	18838331.00	4709583.00	23547914.00	23547914.00	
11	11	Bistow	11.650	Killar	106500	24211	130711	1522783.00	380696.00	1903479.00	1903479.00	
12	12	Sach Chauri 1	7.750	Saach	106500	24211	130711	1013010.00	253253.00	1266263.00	1266263.00	
13	13	Sach Chauri 2	16.250	Saach	106500	24211	130711	2124054.00	531014.00	2655068.00	2655068.00	
14	14	Mindhal	14.270	Saach	106500	24211	130711	1865246.00	466312.00	2331558.00	2331558.00	
15	15	Chanchalperi	20.660	Killar	106500	24211	130711	2700489.00	675122.00	3375611.00	3375611.00	
16	16	Murthalu	49.800	Killar	106500	24211	130711	6509408.00	1627352.00	8136760.00	8136760.00	
17	17	Dighrei	20.970	Killar	106500	24211	130711	2741010.00	685253.00	3426263.00	3426263.00	
Total Area:			423.684						Total Cost (A)	69225202.00	69225202.00	

Signature
 Divisional Forest Officer
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 Killar Forest Range
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