



Green India Mission  
Ecosystem Services Improvement Project  
(2017-2022)

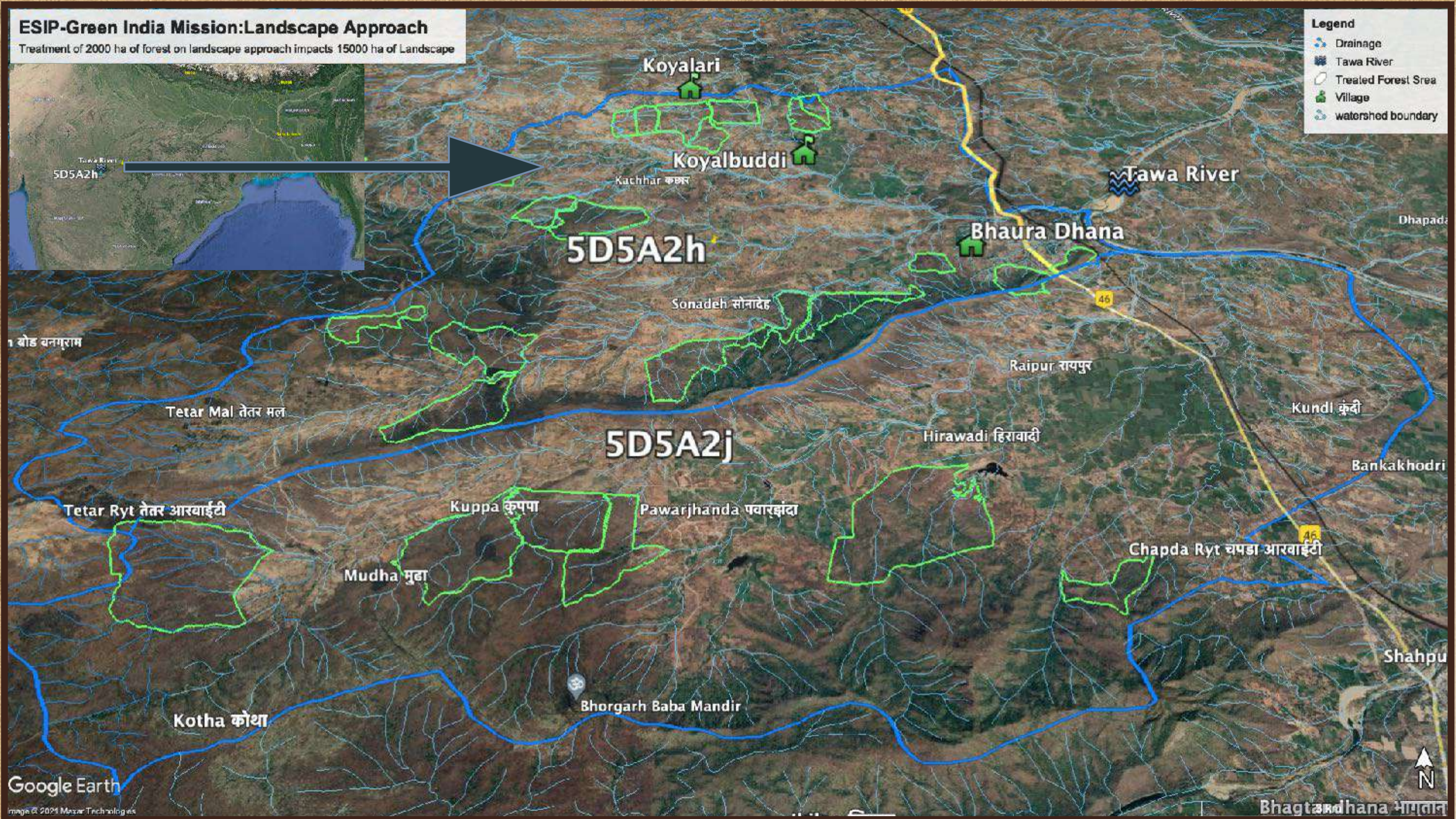
bhaura watershed transformation

North Betul

Madhya Pradesh

# ESIP LANDSCAPE: Bhaura





Bhaura Watershed, Block Shahpur, Betul drains into Tawa river, tributary to Narmada

Landscape: Mili w/s 5D5A2h (9,580ha), 5D5A2j (6,119 ha)  
 forest area under treatment 2012 ha

## Scheme wise Area (ha)

Scheme	area treated (ha)
ESIP	1075
GIM	827
MFP	60
CAMPA	50
Total	2012

## Mili w/s wise Area (ha)

Mili w/s	area treated (ha)
5D5A2h	1186
5D5A2j	826
Total	2012

# Yearwise Treatment details

year	compartments	area treated (ha)
2019	131, 389, 390, 391, 400	594
2020	181, 130.166, 128, 159, 163, 390, 391, 192	1166
2021	413, 186, 412	252
2022 (underway)	184, 185, 186	410
Total		2012

# Landscape area Impacted

S.No	Miliwatershed	Microwatershed	area treated (ha)
1	5D5A2h	5D5A2h1-h6	9,580
2	5D5A2j	5D5A2j3, j5, j6, j7	6,119
Total			15,699



Koyalari Ryt कौयलारी आरवाहदी

22 19 2 77 48 16

Koyal Buddi कौयल बुददी

APRIL 2016



Koyalari Ryt कौयलारी आरवाहदी

22 19 2 77 48 16

Koyal Buddi कोयल बुददी

Google Earth

FEB 2019





Koyalari Ryt कौयलारी आरवाडी

22 19 277 48 16

Koyal Buddi कोयल बुददी

MARCH 2020



Koyalari Ryt कौयलारी आरवाहटी

22 19 277 48 16

Koyal Buddi कोयल बुददी

FEB 2021

# Change inside the Treated forest Area

Google Earth



21 Feb 2021

Compartment 391

05 Feb 2017

2° N 77°48'17.46" E elev

# Change inside the Treated forest Area

Oct 2021 drone



Latitude: 22°19'2"N  
Longitude: 77°48'16"E  
Elevation: 424.8 m  
Accuracy: 3.8 m  
Time: 10-21-2021 09:55  
Note: rf39/1dron



2°N  
48'16"E  
1 m  
21 15:52  
°0

## Compartment 391

# Change inside the Treated forest Area



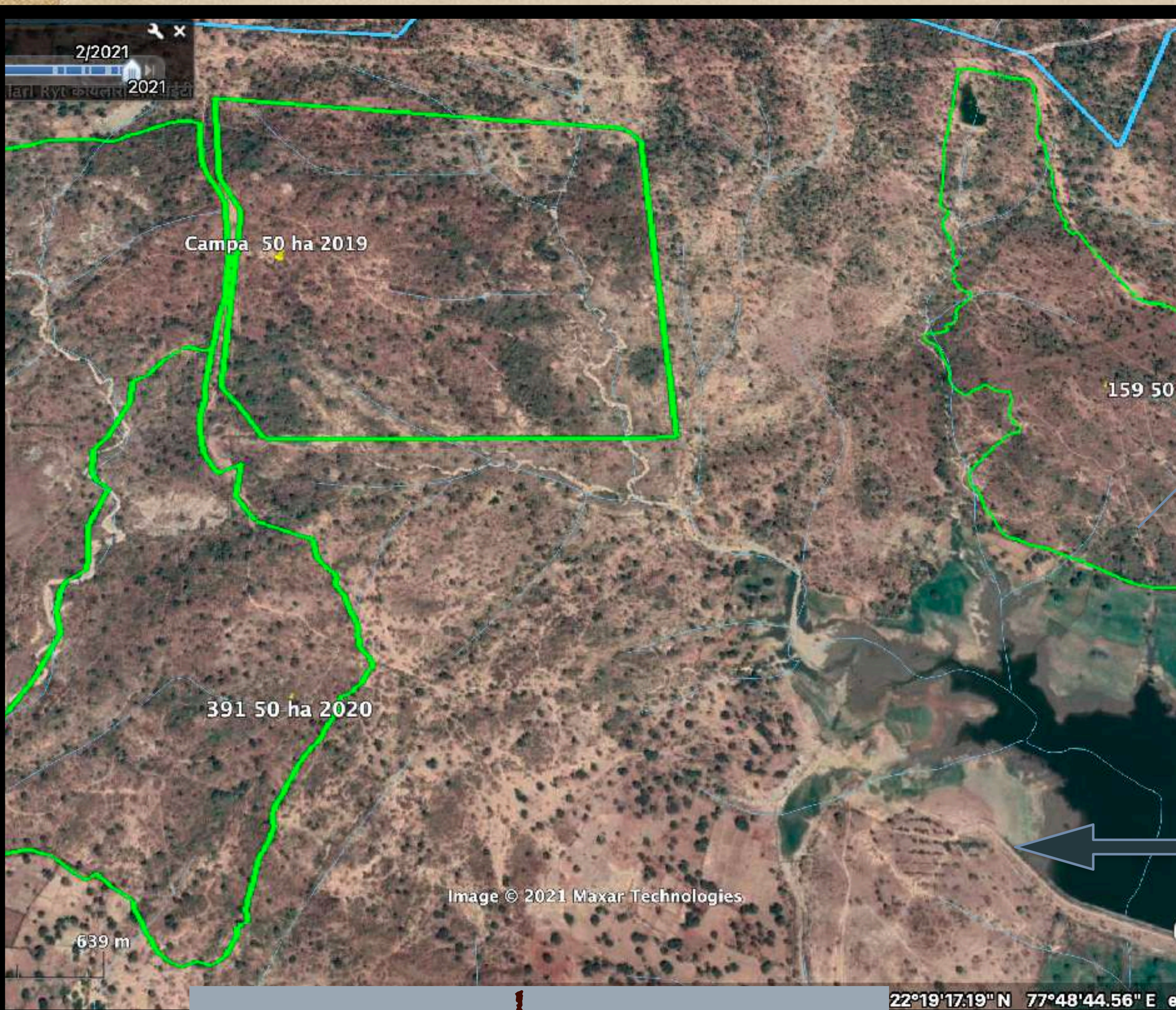
Oct 2021 drone photo



Compartment 159

Oct 2021 ground photo

# Change at the landscape level outside forest Area

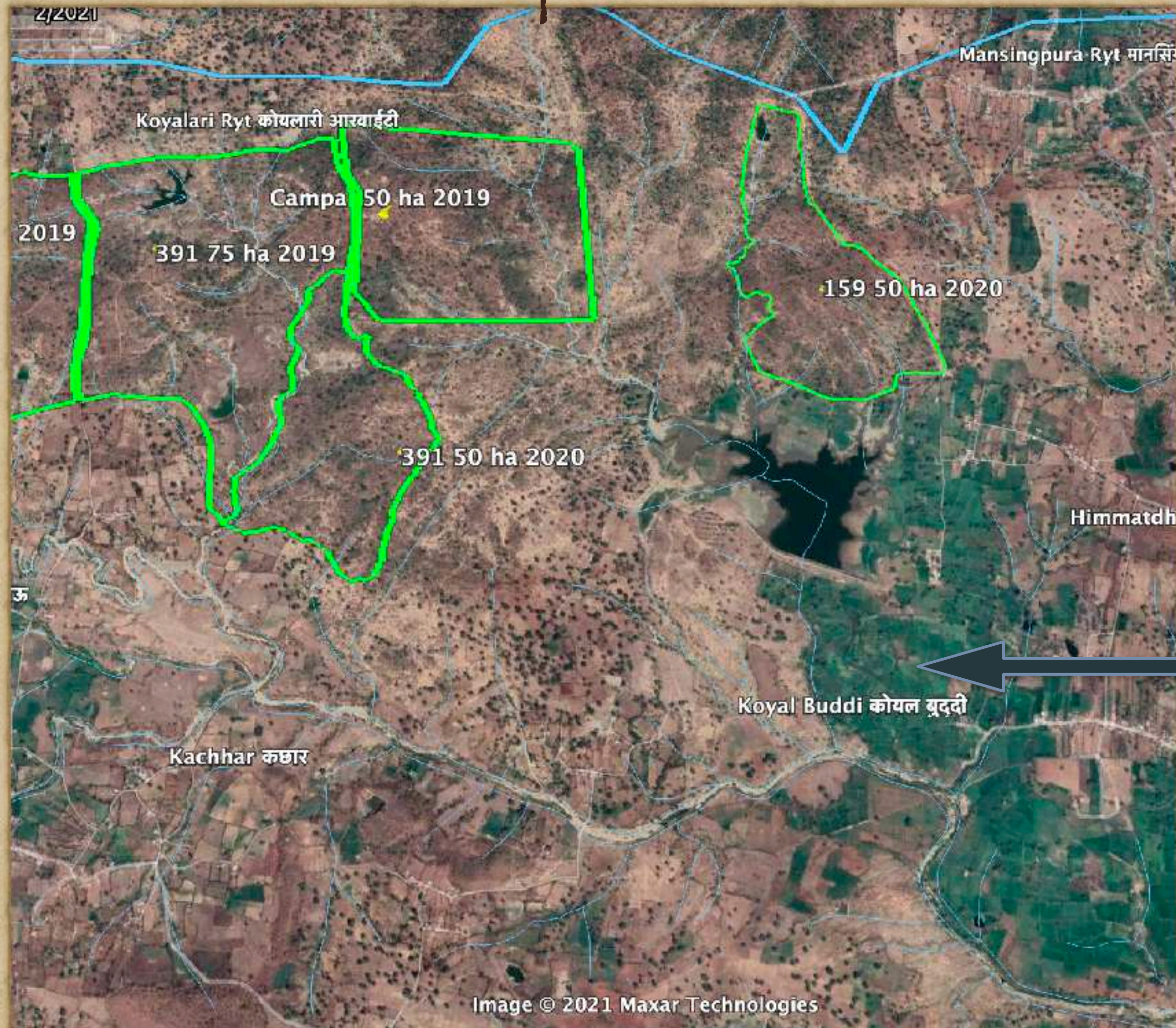


21 Feb 2021



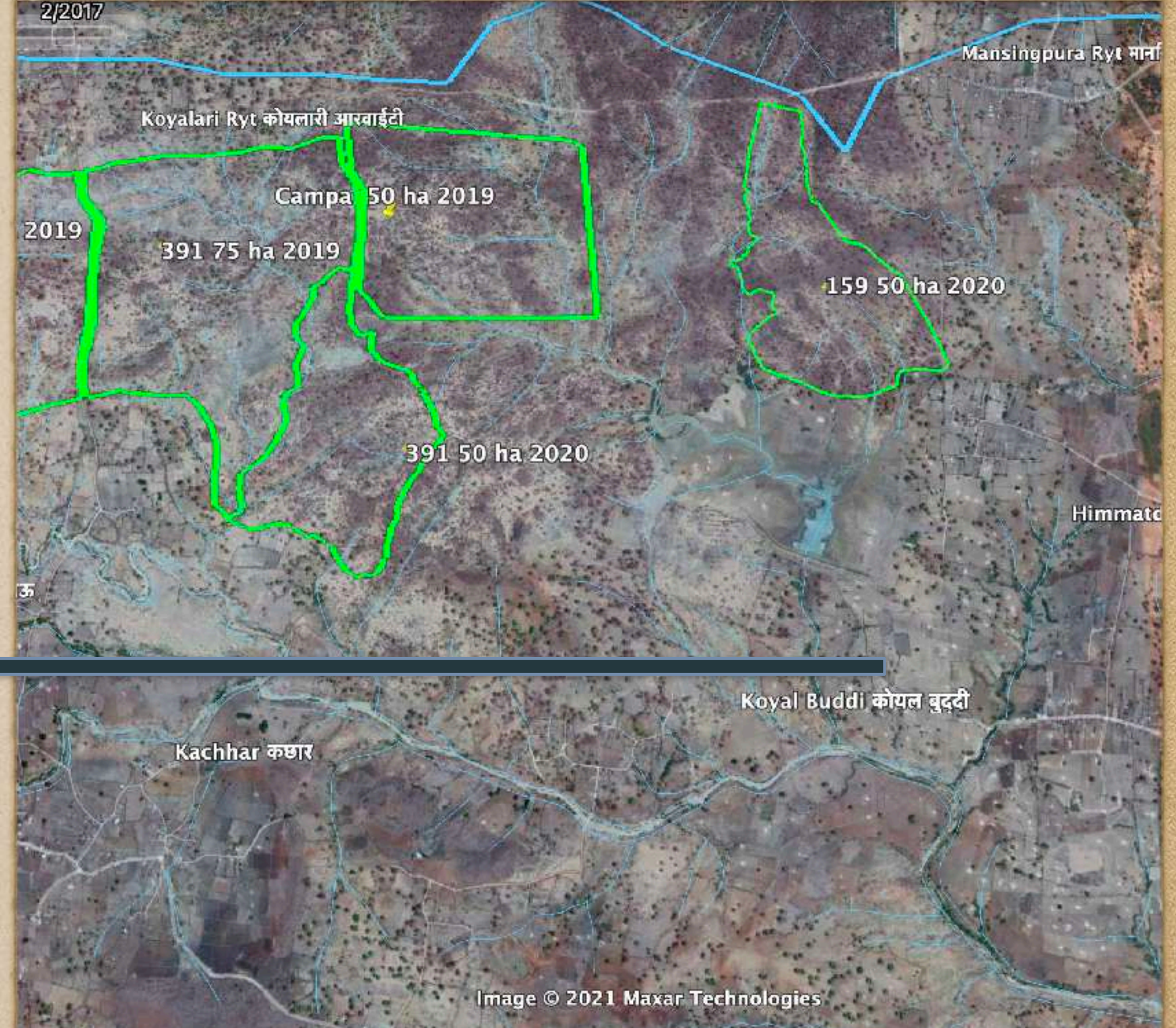
05 Feb 2017

# Impact of watershed treatment in Bhaura



Result of Project : 21 Feb 2021

021 22°18'16.68" N 77



Before Project : 05 Feb 2017

2/5/2017 22°18'16.68" N 77

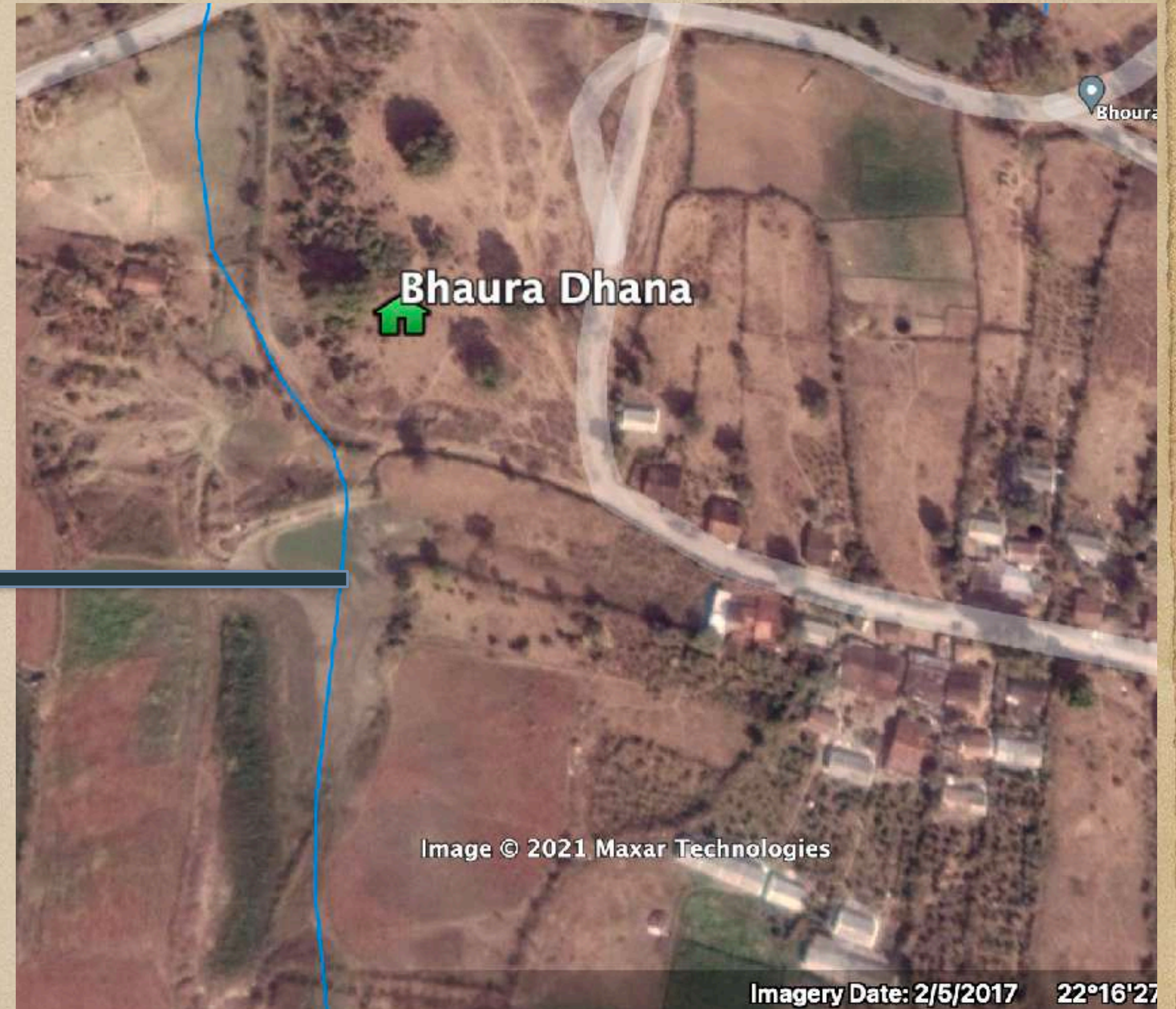
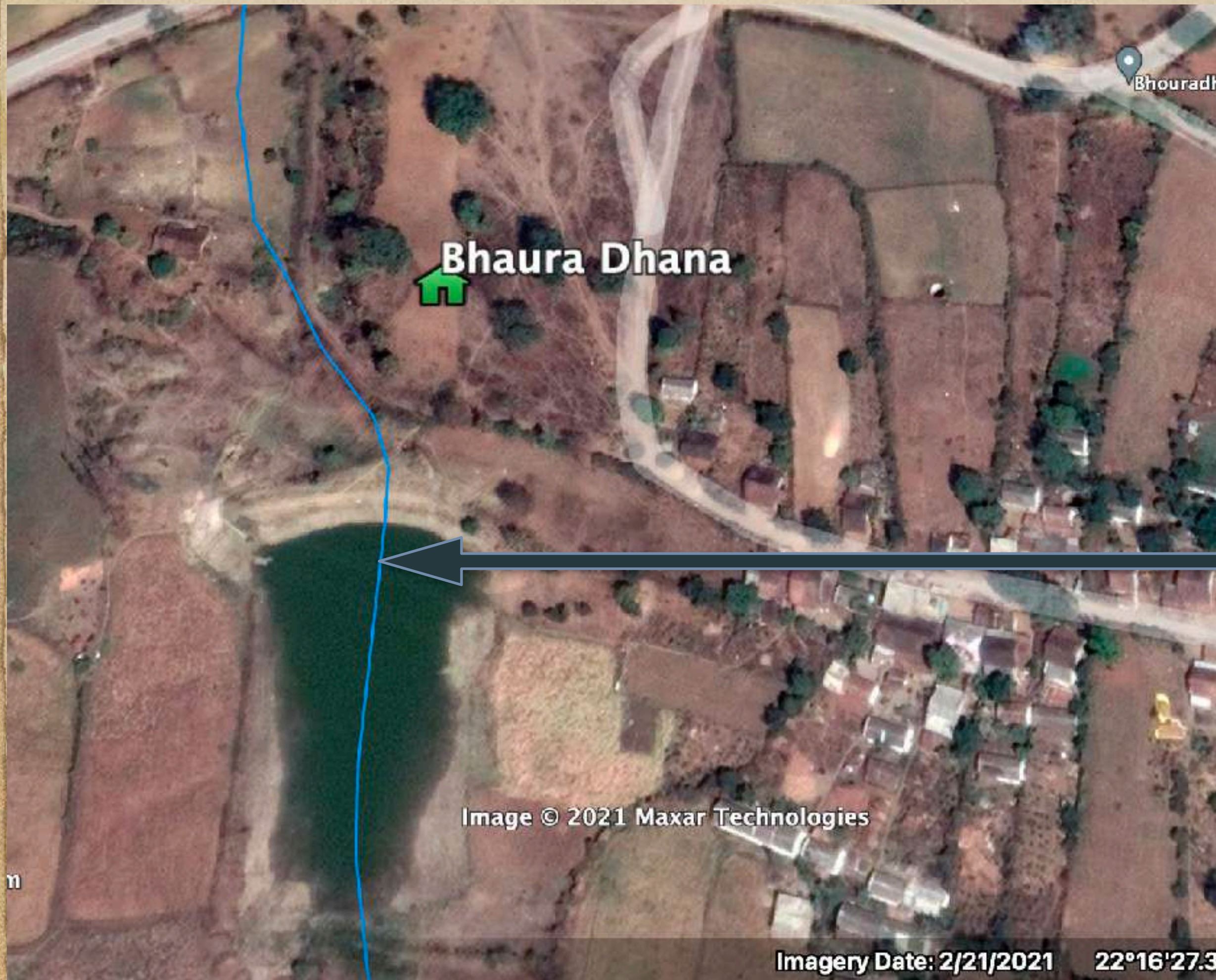
Second crop in area downstream of treated forests

# Impact of watershed level intervention in Bhauradhana Betul, MP, India

village	number of ponds	No. of beneficiaries	land under crop before 2017 (Acres)	crops	land under cropping 2021 (Acres)	crops	Land use change (in %)
Bhauradhan	2	10	5.00	Maize Black gram	18.50	Mustard, Paddy, Wheat, Maize, Black gram	270.00%
Koylari	2	5	14.14		28.29		100.07%
Koyalbuddi		8	5.83		11.66		100.00%
<b>Total</b>	<b>4</b>	<b>23</b>	<b>24.97</b>		<b>58.45</b>		<b>134.08%</b>



# Change in the Landscape



21 Feb 2021

Bhauradhana Pond

05 Feb 2017

# Bhaura Dhana Tank



paddy and maize harvest



: 22.273402  
le: 77.859188  
n: 398.28±105 m  
y: 7.0 m  
5-10-2021 12:32  
oura Bhouradhana ESIP pond

Powered by NoteCam

Thank You