

# Ecosystem Services Improvement Project (ESIP)



## Third Project Implementation Support Mission 14-15 October 2019

N. Betul Compt.RF131



Latitude: 22°15'20" N  
Longitude: 77°45'20" E  
Elevation: 629.04m  
Accuracy: 5.5m  
Time: 03-07-2019 12:02:41  
Note: kuppas bas poudha ro

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Hoshangabad Compt RF 04 ,



Latitude: 22°24'29" N  
Longitude: 77°39'29" E  
Elevation: 489.6m  
Accuracy: 17.0m  
Time: 15-07-2019 12:07  
Note: esio plantation b

Powered by NoteCam

Sehore Compt.PF 650,



Latitude: 22°46'32" N  
Longitude: 77°37'47" E  
Elevation: 345.44m  
Accuracy: 6.2m  
Time: 06-29-2019 08:50



**K. Raman, IFS, APCCF, Green India Mission, MP**



## Third Project Implementation Support Mission for ESIP

1. Task Team Leader -
2. Co-Task Team Leader-
3. Finance Specialist-
4. Procurement Specialist-

Dr. Andrew Mitchel

Dr. Anupam Joshi

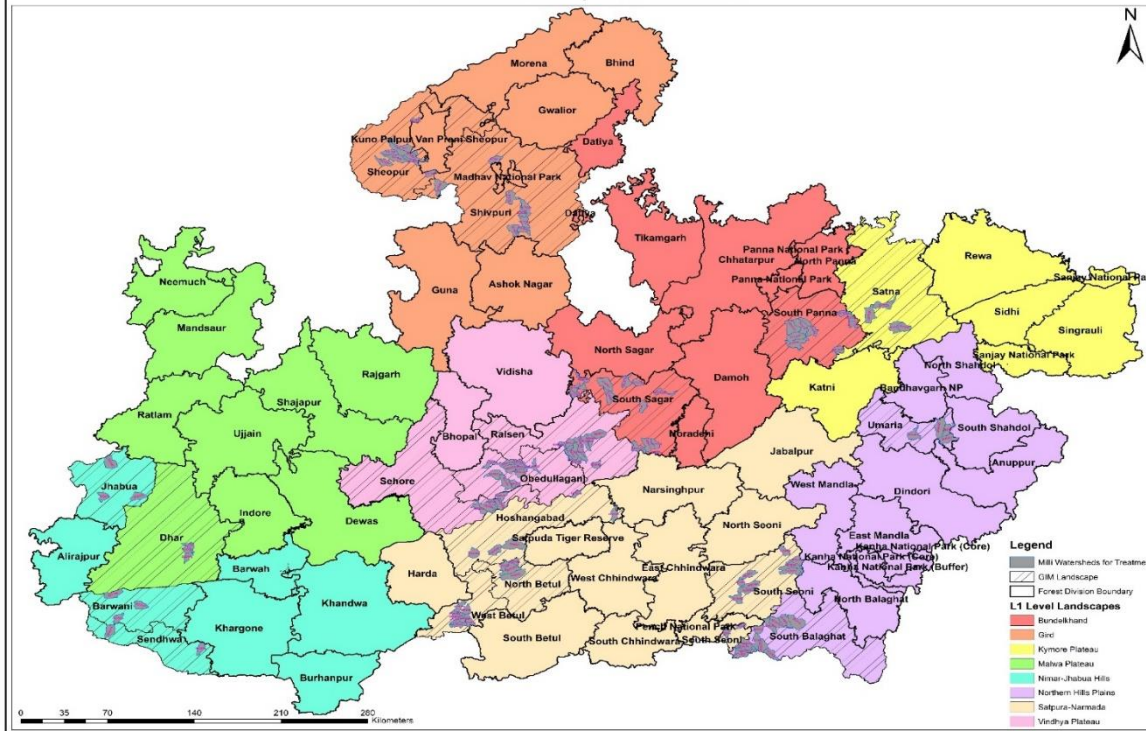
Mr. Anantha K. Karur

Ms. Preeti Jain



# Landscape for GIM Madhya Pradesh

FOREST DEPARTMENT, GOVT. OF MADHYA PRADESH  
MISSION FOR GREEN INDIA  
Selected Landscapes for Treatment



## Legend

-  GIM Landscapes
-  Forest Division Boundary

## L1 Landscapes

-  Bundelkhand
-  Gird
-  Kymore Plateau
-  Malwa Plateau
-  Nimar-Jhabua Hills
-  Northern Hills Plains
-  Satpura-Narmada
-  Vindhya Plateau

1. L1 landscapes : 8 (based on 11 agro-climatic zones)
2. L2 landscapes : 122 milli-w/s (18 forest divisions, 15 districts)
3. L3 landscapes : 735 micro-w/s
4. Treatment area
  - a) landscape area: 7,35,480 ha
  - b) Forest area: 3,40,000 ha



# Ecosystem Services Improvement Project- MoEF&CC and GEF,World Bank supported

- Global Environment Facility Trust Fund : Grant of US \$ 24.64 million
- A pilot project in the state of MP and CG to showcase the ESIP
- Results of the project to be up scaled.
- Project duration 16-08-2017 to 31-07-2022
- Project outlay for MP : 9 million US \$ : approx 49 crores
- To act as additionality over GIM project
- As per advice of the World bank, new budget head 10-2406-01101-0801-0664 for ESIP
- It is a reimbursement based project. The Interim Unaudited Financial report (IUFR) has to be submitted to the world bank and the CAAA.



# Components of ESIP

Project Components	Project Cost US\$ M
Component 1: Strengthen capacity of government institutions in forestry and land management programs in Madhya Pradesh and Chhattisgarh	4.0
Component 2: Investments for improving forest quality in selected landscapes	14.5
Component 3: Scaling-up sustainable land and ecosystem management in selected landscapes	3.74
Component 4: Project Management	2.4
<b>Total Baseline Costs</b>	<b>24.64</b>
<b>Total Financing Required</b>	<b>24.64</b>



## Additionality of ESIP over GIM

	GIM Activities	ESIP GEF Additionality
Planning	<ul style="list-style-type: none"> <li>• Selection of landscapes</li> <li>• Development of plantation packages</li> </ul>	<ul style="list-style-type: none"> <li>• Additional filter of connectivity and livelihood dependance of area selection within GIM landscapes</li> <li>• Community involvement in planning and works</li> <li>• Use of Geographic Information System (GIS) technology for plantation plans</li> <li>• Introduction of Ecosystem services concept/measurement</li> </ul>
Funding	<ul style="list-style-type: none"> <li>• Financial resources for plantation works in GIM landscapes</li> </ul>	<ul style="list-style-type: none"> <li>• Additional grant funding to link plantation with livelihoods, ecosystem services and forest quality</li> </ul>
Interventions	<ul style="list-style-type: none"> <li>• Plantation support</li> </ul>	<ul style="list-style-type: none"> <li>• Capacity building of forest staff</li> <li>• Demonstrative investments showcasing full cycle (from planning to plantation and monitoring)</li> <li>• New approaches for Non-Timber Forest (NTFP) value addition and marketing</li> </ul>
Outcomes	<ul style="list-style-type: none"> <li>• Increased forest cover</li> <li>• Improved forest quality</li> </ul>	<ul style="list-style-type: none"> <li>• Enhanced carbon sequestration</li> <li>• Carbon monitoring system installed</li> <li>• Livelihood co-benefits</li> <li>• National system for monitoring land degradation and desertification</li> </ul>



# Project Development Objective (PDO) & PDO Level Results

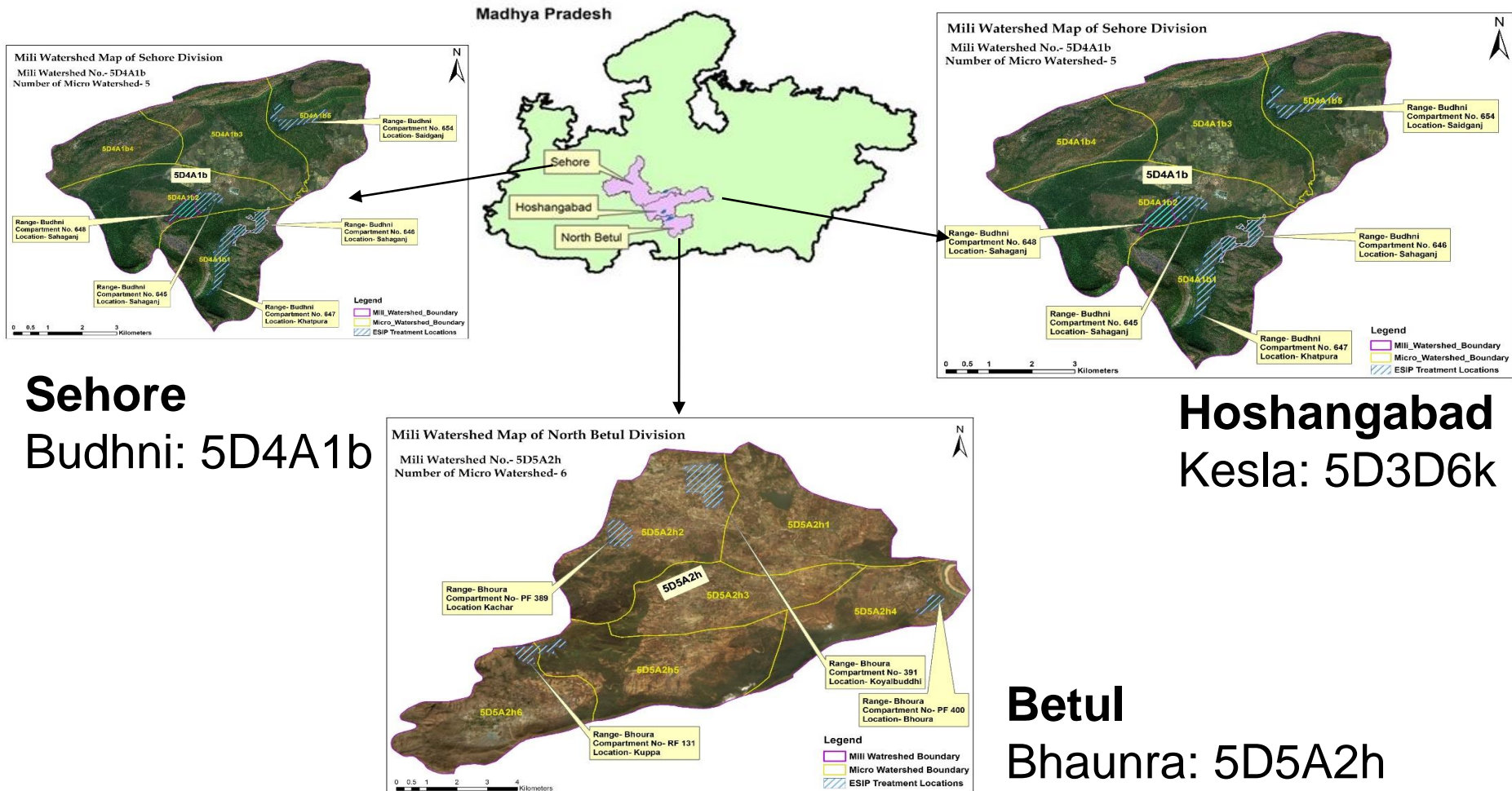
## Indicators

- The project development objective (PDO)
  - to improve forest quality,
  - land management and
  - non- timber forest produce (NTFP) benefits for forest dependent communities
- PDO to be measured through key results framework (RF) indicators,
  - People in targeted forest and adjacent communities with increased monetary or non- monetary benefits from forests (disaggregated by: female; ethnic minority/indigenous people)
  - Average cumulative carbon sequestered per hectare in areas supported by the project
  - Direct project beneficiaries, of which female



# Ecosystem Services Improvement Project

## LOCATION MAP OF SELECTED LANDSCAPE UNDER ESIP





## demographic details of project areas

Division	villages	male	female	total	HH	Sex ratio	sc	st	sc %	ST %	literacy %
Hoshangabad	20	5616	5233	10849	2135	932	586	7630	5.40	70.33	47.92
Sehore	8	2381	2059	4440	921	865	921	1540	20.74	34.68	55.58
Betul	8	2819	2710	5529	1162	961	424	4241	7.67	76.70	50.12
<b>total of project</b>	<b>36</b>	<b>10816</b>	<b>10002</b>	<b>20818</b>	<b>4218</b>	<b>925</b>	<b>1931</b>	<b>13411</b>	<b>9.28</b>	<b>64.42</b>	<b>51.20</b>

S.No.	L1 Level Landscapes	L2 Level Landscapes		L3 Level Landscapes	Forest Area (ha)				Non Forest Area (ha)	Total Area (ha)
		Division	Milli-watershed		Micro Watershed	Dense Forest	Open Forest	Blank		
1	Satpura-Narmada	Hoshangabad	5D3D6k	7(5D3D6k1-7)	5,947.25	128.93	491.61	6,567.80	63.85	6,631.64
2		North Betul	5D5A2h	6(5D5A2h1-6)	3,622.99	1,063.96	754.28	5,441.23	4,139.34	9,580.58
	<b>Satpura-Narmada Total</b>				<b>9,570.24</b>	<b>1,192.89</b>	<b>1,245.89</b>	<b>12,009.03</b>	<b>4,203.19</b>	<b>16,212.22</b>
3	Vindhya Plateau	Sehore	5D4A1b	5(5D4A1b1-5)	1,187.83	1,443.48	98.19	2,729.50	1,676.75	4,406.25
<b>Total</b>	<b>2</b>	<b>3</b>	<b>3</b>	<b>18</b>	<b>10,758.08</b>	<b>2,636.37</b>	<b>1,344.08</b>	<b>14,738.53</b>	<b>5,879.94</b>	<b>20,618.47</b>

# Brief Progress



## FY 2018-19

- |   |                  |
|---|------------------|
| 1. APO :  | Rs 1270.67 lakh  |
| i. Site preparation<br>(degraded/ moderately dense forest<br>showing degradation )    | 1,079 ha.        |
| ii. Plantation treated in 2018-19   | 1079 ha.         |
| iii. expenditure till 30 <sup>th</sup> Sept. 2019                                     | Rs. 1188.66 lakh |
| 2. Fund delivery achieved :   | <b>93.54%</b>    |
| 3. Reimbursement claim settled<br>by the World Bank till 30 <sup>th</sup> Sept. 2019. | Rs. 970.28 lakh  |
| 2. Claim settlement :   | <b>79 %</b>      |
| 3. Reimbursement claim (July-Sept. 2019) submitted :                                  | Rs. 257.27 lakh  |



The Progress includes

- (i) site preparations- 1079 ha.
- (ii) preparation of saplings- 5.55 lakh
- (iii) soil and water conservation measures
- (iv) various livelihood oriented activities

progress report submitted to MoEF&CC is available online at

[https://www.mpforest.gov.in/img/files/GIM\\_Progress\\_Report.pdf](https://www.mpforest.gov.in/img/files/GIM_Progress_Report.pdf)

# Brief Progress continued . . . .



## Workshops organized-

- National level reach out workshop- 1
- Division level workshops- 4
- Range level workshops- 7
- village level workshops- 24
  - To sensitize the stakeholders about the ESIP Project.
  - Total no. of JFMCs members- 5569,
  - Government functionaries- 553 participated
- exposure visits organized- 17
- JFMCs members participated- 910  
to understand best practices

# Brief Progress continued...



- Livelihood initiatives:
  - beneficiaries identified- 1192
  - facilitated employment opportunities- 603
  - beneficiaries trained on-
    - improved mahua collection, bee keeping, honey collection,
    - mushroom cultivation, vermi-compost units, sanitary napkin units,
    - computer skilling, tailoring support.
- Nursery upgradation: Bansapur, Sehore
  - C.C beds-200
  - poly house-720 sq.m,
  - green house 722 sq.m,
  - vermi-compost units-10m\*6m 4 tanks,
  - root trainers- 1.00 lakh units
  - solar pump-7.5 KVA,
  - Seed treatment platform- 300sq.m,
  - Sprinkler set-for 200 beds, 4 per bed
- GIS training: by I.T. wing
  - 72 Advanced GNSS handsets procured & issued to divisions.
  - Training calendar finalized for all 18 divisions.
  - I.T. Wing completed training in July/Aug. 2019.

# Issues in procurement



1. APO 2018-19 had provision for engaging Bio Diversity Board, SFRI, State planning commission for carrying out various capacity building exercises.
2. During the procurement process, the bank refused engagement of state agencies due to procurement guidelines of the bank.
3. World Bank advised that proposals be invited through REoIs for
  - i. Development of sustainable use framework for NTFP and train local frontline staff, JFMCs etc in applying NTFP framework
  - ii. community level baseline assessment of dependency of livelihood on NTFPs
  - iii. Training and protocol dev. for biodiversity measurements in select location for preparing biodiversity management plans, especially in corridors
  - iv. Support for strengthening BMCs/ JFMCs on Biodiversity Management as per NBA

# Issues in procurement



4. SPIU prepared fresh ToRs for hiring consulting agencies in Biodiversity Assessment, NTFP based livelihoods & IEC Strategy.
5. World Bank clearance for the above consultancies in May 2019.
  - i. NTFP & Biodiversity consultancies estimated cost of US Dollar 75,000.00 each
  - ii. IEC consultancy estimated cost of US Dollar 35,000.00 .
6. The consultancies cleared under ‘CQS’- Consultant Qualification Selection Method of selection by World Bank.
7. SPIU awaiting approval from GoMP for the RFPs for the above 03 consultancies to go ahead with selection of an agency through an advertisement in the open market.

# Central theme of the project: Need to identify

Issue raised on 10th July 2018 during first support mission

Ecosystem services,  
Carbon sequestration,  
Landscape approach,  
Watersheds: water conservation,  
Livelihood opportunities,  
Plantation showcase,  
Plantation pilot,  
Nursery upgradation,  
Participatory planning,  
GIS and MIS,  
SLEM upscaling  
NTFP framework ,  
Biodiversity  
Van Vigyan Kendra  
Convergence of efforts  
Corridors,  
Soil working techniques,  
Community reserve



# Advance Works 2018-19



North Betul



North Betul



Latitude: 22°47'47"  
Longitude: 77°45'2"  
Elevation: 360.96m  
Accuracy: 5.3m  
Time: 02-12-2019 15:28  
Note: gim 658 joshipur simankan karya

Sehore

Powered by NoteCam



Sehore



Latitude: 22.413332  
Longitude: 77.66088  
Elevation: 448.97m  
Accuracy: 3.2m  
Time: 01-31-2019 17:08  
Note: Banapura R14

Hoshangabad

Powered by NoteCam

# Pond : Koyalbuddi, North Betul



कार्यालय कलेक्टर भू-अभिलेख बैतूल  
दैनिक वर्षा की जानकारी मि. मीटर में निम्नानुसार है दिनांक 17/09/2018

जिले में स्थापित वर्षागणने केन्द्रों के नाम	चालू वर्ष (2018-19)		गत वर्ष (2017-18) में	
	दैनिक	प्रणामी	दैनिक	प्रणामी
1	2	3	4	5
बैतूल	0	402.6	0	614.6
घोड़ाडोंगरी	0	683.8	0	661.2
चिचोली	0	696.2	16.3	856.6
शाहपुर	0	434.2	0	683.6
मुलताई	0	469.6	0	475.3
प्रभात पट्टन	0	328.4	0	550.6
आमला	0	454.0	0	559.0
बैसदेही	0	631.2	0	733.5
आठनेर	0	495.8	0	535.8
भीमपुर	0	676.8	5.0	694.6
जिले की औसत वर्षा	0	515.5	2.1	636.4

टीप- जिले की औसत सामान्य वर्षा 1083.9 मि.मी.

अधीक्षक  
भू-अभिलेख, बैतूल

कार्यालय कलेक्टर भू-अभिलेख बैतूल  
दैनिक वर्षा की जानकारी मि. मीटर में निम्नानुसार है दिनांक 22/07/2019

जिले में स्थापित वर्षागणने केन्द्रों के नाम	चालू वर्ष (2019-20)		गत वर्ष (2018-19) में	
	दैनिक	प्रणामी	दैनिक	प्रणामी
1	2	3	4	5
बैतूल	0.0	139.0	1.8	236.6
घोड़ाडोंगरी	0.0	186.3	3.0	481.5
चिचोली	0.0	295.9	1.2	320.3
शाहपुर	0.0	200.7	0.0	271.2
मुलताई	0.0	169.0	1.3	340.2
प्रभात पट्टन	0.0	106.6	7.2	249.3
आमला	0.0	118.0	0.0	294.0
बैसदेही	0.0	267.9	0.0	333.2
आठनेर	2.0	155.4	1.5	322.3
भीमपुर	0.0	152.0	0.0	261.5
जिले की औसत वर्षा	0.2	180.9	1.6	311.9

टीप- जिले की औसत सामान्य वर्षा 1083.9 मि.मी.  
गत वर्ष की औसत वर्षा 616.0 मि.मी.

अधीक्षक  
भू-अभिलेख, बैतूल



[डेश बोर्ड](#)[विज्ञानाज्ञा](#)[रिपोर्टें](#)[डाउनलोड](#)[सहायता पुस्तिका](#)[पी.डी.ए. आवंटन](#)[वृक्षारोपण विलोपित करें](#)[पुनर्उत्पादन सर्वेक्षण जी.आई.एम.](#)

## वृक्षारोपण की रिपोर्ट

[Back](#)

# Plantation details FY 2019-20

## वृक्षारोपण सूची

क्रमांक	पंजीकरण क्रमांक	वृत्त	वनमंडल	परिक्षेत्र	बीट / पंचायत	श्रेणी का चयन करें	क्षेत्र प्रकार	वर्ष	श्रेणी	श्रेणी	क्षेत्र (हेक्टेयर)	पौधों की संख्या	स्वीकृत स्थिति	प्रजाति	पंजीकरण तिथि	विवरण
1	105004	Betul	North Betul	Bhaura	Koyalbuddi	391 PF	Forest	2019	Misc	ESIP	75	75000	Draft	Mixed , Teak	17 Jan 2019	<a href="#">i</a>
2	105307	Betul	North Betul	Bhaura	Kuppa	131 RF	Forest	2019	Bamboo	ESIP	50	20000	Draft	Bamboo	31 May 2019	<a href="#">i</a>
3	105308	Betul	North Betul	Bhaura	Kachar	389 PF	Forest	2019	Misc	ESIP	25	25000	Draft	Mixed	31 May 2019	<a href="#">i</a>
4	105309	Betul	North Betul	Bhaura	Bhoura	400 PF	Forest	2019	Misc	ESIP	29	5800	Draft	Mixed	31 May 2019	<a href="#">i</a>
5	106350	Hoshangabad	Hoshangabad	Banapura	Pipalgota	4 RF	Forest	2019	Misc	ESIP	300	90000	Draft	Aaonla , Bahera , Bamboo , Mahua , Others , Teak	19 Jul 2019	<a href="#">i</a>
6	106390	Hoshangabad	Hoshangabad	Itarsi	South Bhatna	165 RF	Forest	2019	Misc	ESIP	200	15293	Draft	Aaonla , Bamboo , Karanj/Kanji , Khamher/ Seevan , Neem , Others , Shisham/Sissu , Teak	20 Jul 2019	<a href="#">i</a>
7	106395	Hoshangabad	Hoshangabad	Sukhatawa	Pipariya	32 PF	Forest	2019	Misc	ESIP	100	25000	Draft	Aaonla , Bahera , Bamboo , Jamun , Karanj/Kanji , Mahua , Others , Shisham/Sissu , Teak	20 Jul 2019	<a href="#">i</a>

कुल 779 256093

योग: 779 256093

कुल

योग:

[Plantation Monitoring System](#)[एक्सेल में निर्यात करें](#)[पीडीएफ में निर्यात करें](#)

# Approved APO for FY 2019-20



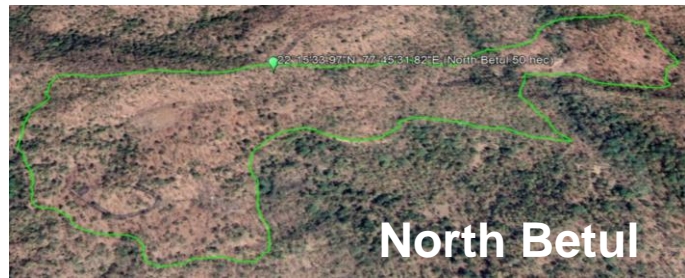
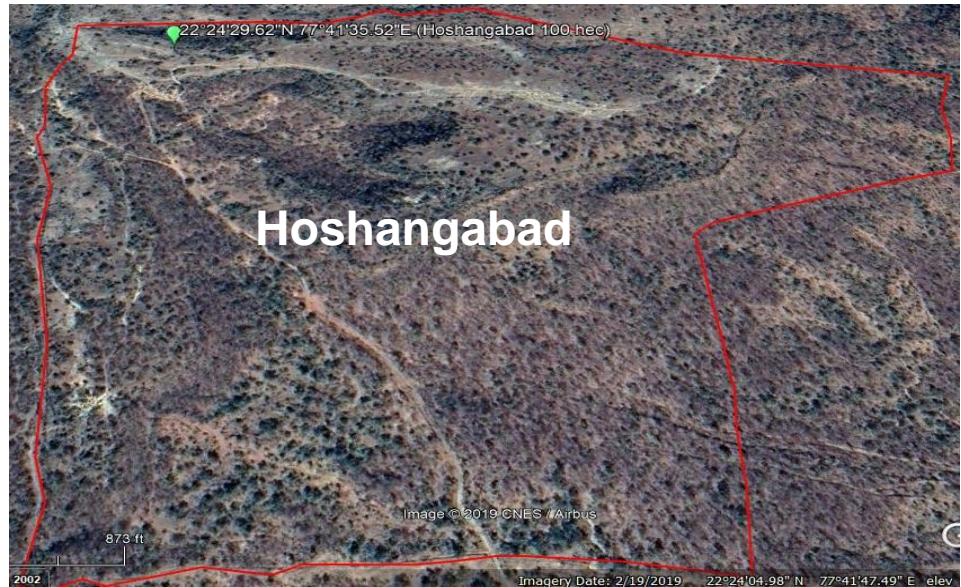
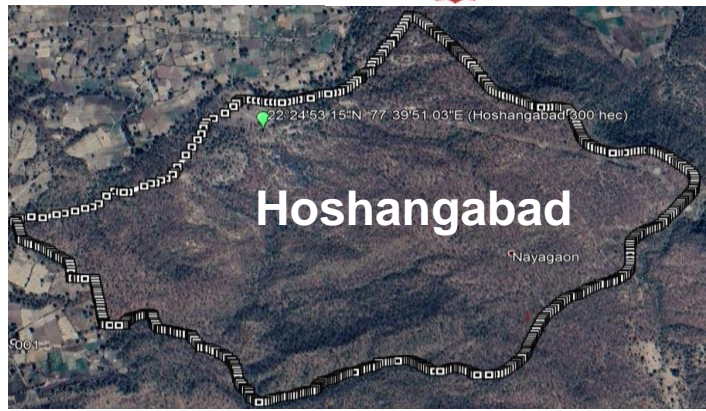
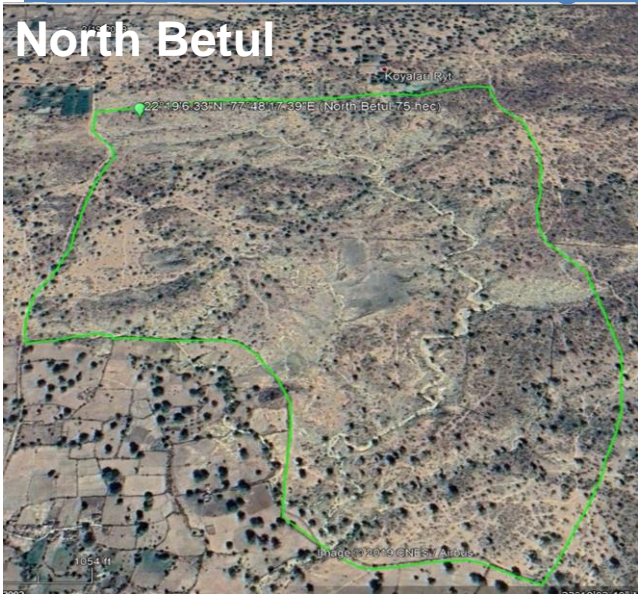
## Site preparation (advance works) details FY 2019-20

Divisions	Total area of site preparation (in ha.)	Total area for innovative plantation pilots (in ha.)	Total (in Ha.)
Sehore	50	5	55
North Betul	350	5	355
Hoshangabad	600	5	605
Total	1000	15	1015

## Plantation details FY 2019-20

Divisions	Total area of plantation (in ha.)	Species selected for plantation	Number of saplings planted (in nos.)
Sehore	300	Teak, Bamboo, khamer, Mahua, Awala,	2,25,000
North Betul	179	Teak, Bamboo, Khamer, Karanj, Neem, Sirus, Pentafarm, Awala, Baheda, Sisu, Chirol	1,38,960
Hoshangabad	600	Teak, Bamboo, Karanj, Mahua, Awala, Baheda, Jamun, Chirol, Sisam	1,91,050
Total	1079		5,55,010

# Registered KML of Project Sites in Plantation Monitoring System



# **ARIAL VIEW OF INFRASTRUCTURE BANSAPUR NURSERY**

**Green House**

**Poly-House**

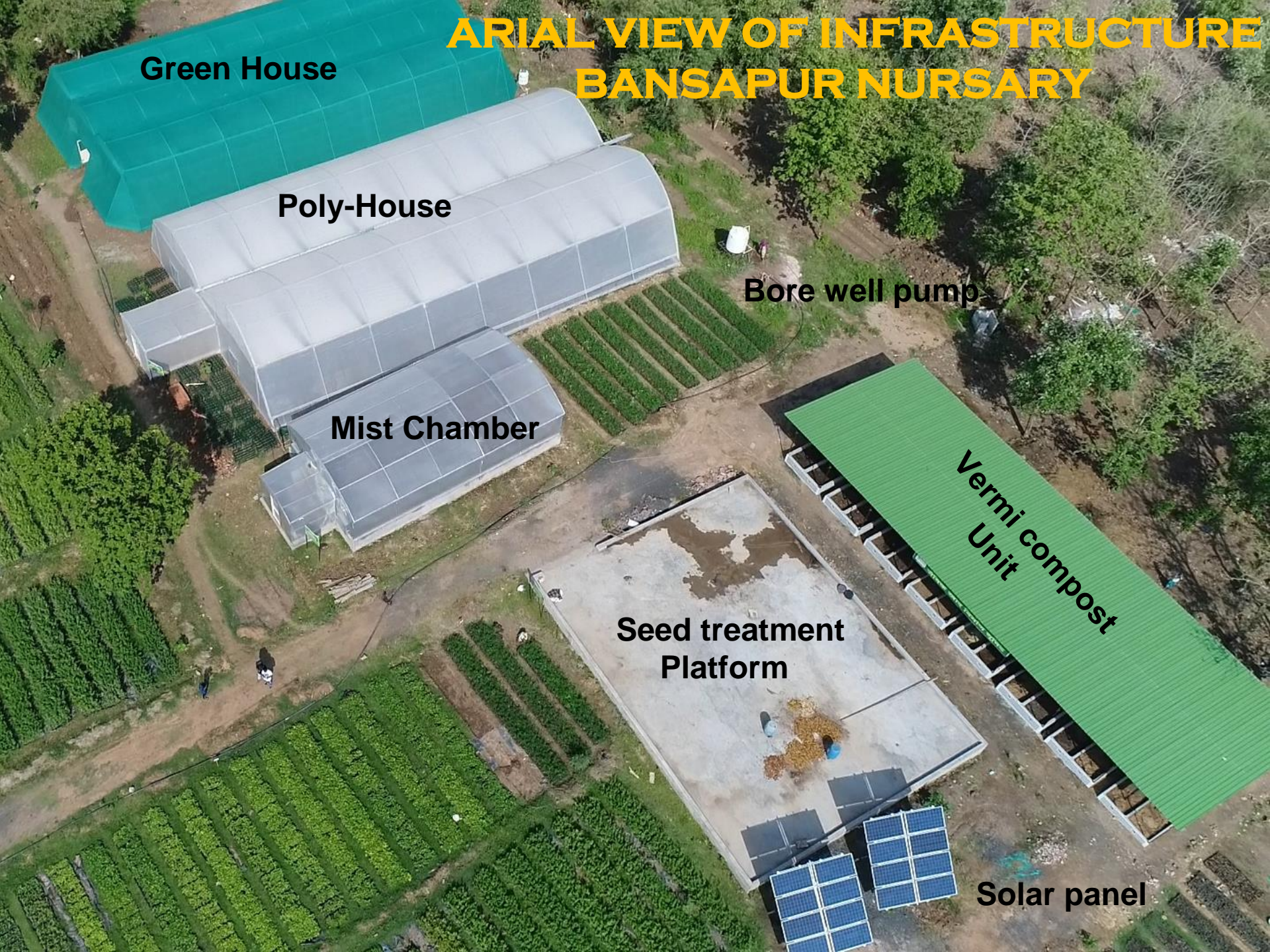
**Mist Chamber**

**Bore well pump**

**Vermi compost  
Unit**

**Seed treatment  
Platform**

**Solar panel**



# Plantation 2019-20



## Sehore plantation



## North Betul plantation



## Hoshangabad Plantation





## Project Components

1. Strengthening Capacity of Government Institutions in Forestry and Land Management Programs Rs. 443.10 Lakh
2. Investments for Improving Forest Quality in Selected Landscapes- Rs. 1469.14 Lakh
3. Project Management and Coordination Rs. 188.90 Lakh
4. Total Proposed APO Rs. 2101.14 Lakh

**The APO approved by MoEF&CC, GoI National Project Steering Committee 2nd Meeting held on 23rd July 2019 vide O.M. dated 2nd Aug. 2019.**



# Status of claims submitted to World Bank (till Sept. 2019)

Period	Claim Date	IUFR No.	RF/WF No.	Expenses Reported	Claim Request	Claims Reimbursed	Balance Amount
April'17 to Mar'18	8/29/18	201800138/1	TF0A3990	44.16	44.16	44.12	0.04
Apr' 18 to Sep' 18	11/12/18	2018002708/1		11.89	11.89	11.75	0.14
Oct'18 to Dec'18	2/11/19	2018003847		16.27	16.27	16.27	0.00
Jan'19 to Mar'19	5/24/19	2019000600/1		614.76	614.76	609.68	5.08
Apr'19 to Jun'19	7/15/19	2019001386/1		288.46	288.46	288.46	0.00
Jul'19 to Sept'19	10/9/19	2019002324/1		257.27	257.27	0.00	NA
<b>Total</b>					<b>1232.81</b>	<b>1232.81</b>	<b>970.28</b>



Thanks

71 KALA BAI\कलाबाई F 61 SC  
मोहन लाल\मल्लो 4 D1,--,D3,--,D5,D6,-- 3  
Khatpura, Budhni, Sehore with Mahua Laddoo in  
Palash Dona Pattal,

D1: Households with one or less room, kuccha walls and kuccha roof

D3: Female headed household with no adult male member between 16 and 59

D5: SC/ST Households

D6: Landless households deriving a major part of their income from manual labour



**Ecosystem Services Improvement Project**  
**Green India Mission**  
 Reach-out Workshop  
 22-24 August 2018  
 Pachmarhi, Madhya Pradesh



# Betul Workshop



# Hoshangabad Workshop





## Hoshangabad :Range level, JFMC level workshops



Latitude: 22.435362  
 Longitude: 77.710655  
 Elevation: 444.1m  
 Accuracy: 3.8m  
 Time: 02-27-2018 11:06  
 Note: Green India bhatna

# Livelihood Initiatives



ESIP  
Mushroom Production  
Vill-Pipalgota



N. Betul Stitching Training,



N. Betul Skill Dev. Training,



Green India Mission  
Beekeeping  
Village-Lalpani

# R&E Bhopal Circle: Bansapur Nursery Development





### Root Trainers with stands :-

- Size 250 cc- 50000 cell
- Size 150 cc- 50000 cell
- Cost- 20 Lacs



### Bore well pump:-

- Cost- 3.98 Lacs





## Solar Pump set:-

- Nos- 01
- Capacity – 7.5 KW
- Cost- 8.97 Lacs



## Cement Concrete Bed:-

- Nos -200
- Size 10mx 1 m
- Cost-26.97 Lacs



# Livelihoods analysis



Sr. No.	Types of livelihoods	Ranking
1	Labour work	5
2	Agriculture	1
3	Migration	3
4	NTFP collection	2
5	Goat rearing	6
6	Dairy	4



# Capacity Building- Training on Carbon Measurement Techniques



## FSI, Dehradun

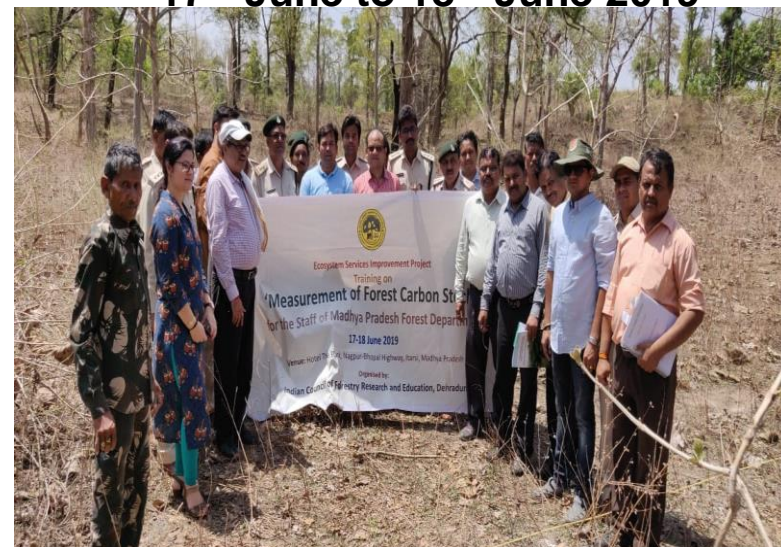
30<sup>th</sup> January to 1<sup>st</sup> February 2019



Sr. No.	Designation	Number of participants
1.	Addl. PCCF	3
2.	CCF	3
3.	DFO's	2
4.	SDO's	7
5.	RO's	14
	Total	29

## Itarasi, Hoshangabad (MP)

17<sup>th</sup> June to 18<sup>th</sup> June 2019



Sr. No.	Designation	Number of participants
1.	Addl. PCCF	1
2.	CCF	1
3.	DFO's	6
4.	SDO's	17
5.	RO's	19
	Total	44