

Ecosystem Services Improvement Project

a strategy for climate change mitigation
enhancement of forest cover
improvement of ecosystem services
livelihood opportunities for forest dependent communities

Fifth Support Mission, World Bank
28th October 2020
State- Madhya Pradesh
K. Raman, IFS, APCCF, Green India Mission, MP



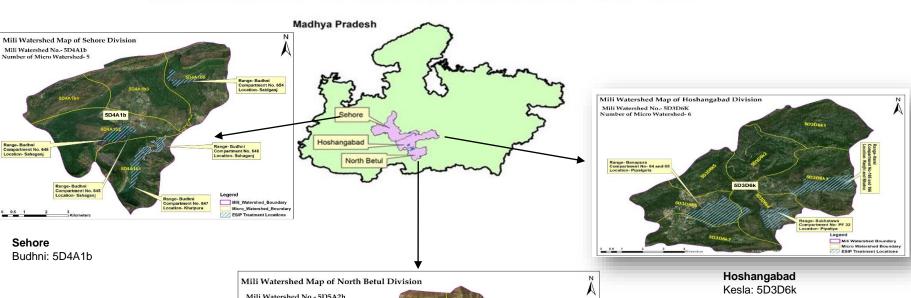








LOCATION MAP OF SELECTED LANDSCAPE UNDER ESIP



Mili Watershed No.- 5D5A2h Number of Micro Watershed- 6 Range- Bhoura Compartment No- PF 389 Location Kachar Range-Bhoura Compartment No- 391 Location- Koyalbuddhi Range- Bhoura Compartment No- PF 400 Location- Bhoura Range- Bhoura Compartment No- RF 131 Location- Kuppa Legend Mili Watreshed Boundary Micro Watershed Boundary ESIP Treatment Locations

Betul Bhaunra: 5D5A2h











demographic details of project areas

Division	villages	male	female	total	нн	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
total of project	36	10816	10002	20818	4218	925	1931	13411	9.28	64.42	51.20

S.No.	L1 Level Landscapes	L2 Level L	Landscapes Landscapes			Forest A		Non Forest	Total Area	
		Division	Mili- watershed	Micro Watershed	Dense Forest	Open Forest	Blank	Total Forest	Area (ha)	(ha)
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
	Satpura-Narmada T	otal			9,570.24	1,192.89	1,245.89	12,009.03	4,203.19	16,212.22
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
Total	2	3	3	18	10,758.08	2,636.37	1,344.08	14,738.53	5,879.94	20,618.47

Progress in Brief











Cumulative Progress (as on 30 sept 2020)

1.Expenditure (Rs Lakh)	2448.30
2.Site preparation (ha.) -	2424
3. Plantation created (ha.) -	2424
4.Exposure visit organised (nos)-	17
5. Workshop conducted (nos)-	40
6. Capacity building (No. of Forest Staff trained)-	573
7. Trainings (No. of JFMCs members trained)-	5569
8.Livelihood ensured (nos)-	2475
9.Reimbursement claimed (Rs Lakh)	2026.37
10.Reimbursement claim settled (Rs Lakh)	2021.11

Progress in Brief











Socio Economic House Hold Survey

- A SES household survey questionnaire has been developed using the result framework indicators.
- Training to 21 forest department field staff from North Betul and Sehore forest divisions were trained to administer the questionnaire in the field and collect the data from the households of ESIP milliwatershed villages.
- Sample size for data collection 5 % of the total household in the village
- Data collection from 64 hhs from N. Betul (Range- Bhaura) and 48 hhs from Sehore (Range- Budhni) landscapes has been collected.
- Online google spreadsheet has been created to enter the data as per the pre-designed questionnaire.
- N. Betul Bhaura has started entering the data

Cumulative Progress Component wise (2017-21)











S.No	Project Component	Financial Achievement				
		(Rs Lakh)				
1	Strengthening Capacity of Government Institutions in Forestry and Land Management Programs	183.24				
2	Investments for Improving Forest Quality in Selected Landscapes-	2013.92				
3	Scaling up SLEM in selected landscapes	83.03				
4	Project Management and Coordination	168.09				
5	Total	2448.28				

Brief Progress continued....











- 1. Four consultants working for the project.
 - (i) Procurement cum Financial Management specialist
 - (ii) Social Dev. & Community Mobilization specialist
 - (iii) Forestry, Ecosystem services & Knowledge Management specialist
 - (iv) GIS and Database Expert: resigned in March 2020. New consultant recruited, joined on 12th October

Procurement Progress: SPIU MP











Description		INR in Rs	. Lakh	Comments/remarks
Description	Total Value	Committed		
RFQ	662.48	662.48	662.31	Procurement by operational units
Direct	38.89	38.89	38.89	GIS software Payment made
cqs	125.80	125.80	0	Government approval of RFP awaited
Indv	106.08	106.08	41.85	Remunerations to SPIU consultants
Total	933.25	933.25	743.05	

Problems faced in STEP submission of new activities-

- -2020-21 APO based 33 new activities submitted to Bank vide STEP
- STEP technical issue failed to generate the proposal
- On Bank's advise recalled the fresh procurement proposal
- Bank requested for further resolving the issue
- Above activities pertains to 4 nurseries in separate landscapes thus submitted separately for concurrence from Bank

SPIU M.P. STEP Status of Activities











Activity Summary

140 Activities in 1 Projects



- Pending & Under Implementation activities post pandemic under completion
- Mostly affected due to constraints in timely supply
- Pending activities expected to be completed by Dec. 2020
- Random post review exercise of completed activities carried out in Sept. 2020 by Bank

Monitoring & Evaluation: ESIP Result Framework & Monitoring











PDO Level Results indicators	Cumulative	Achieveme	Remarks
	Target year	nt till June	
	2020	2020	
People in targeted forest and adjacent	1500	996	
communities with increase monitory or non-			
monitory benefits from forests (disaggregated			
by: Female; ethnic minority/indigenous			
people)			
Females		243	
Ethinic minority/ Indegenous people		873	
Targeted beneficiary groups engaged in	100	359	Households
participatory planning under the project			(out of 359
			HHs 54.63%
			belongs to ST
			caste group)
Direct Project beneficiaries of which female	5000	7265	
(Nos)			
Government institutions provided with	8	19	7 in North
capacity building support to improve			Betul, Sehore
management of forest resources (No. of			& 5 in
workshops)			Hoshangabad
			Divison
SLEM best practices disseminated on ICFRE	3	0	Report of ESIP
knowledge platform (Nos)			landscape of MP
			received. No
			suggested SLFM best
	People in targeted forest and adjacent communities with increase monitory or non-monitory benefits from forests (disaggregated by: Female; ethnic minority/indigenous people) Females Ethinic minority/ Indegenous people Targeted beneficiary groups engaged in participatory planning under the project Direct Project beneficiaries of which female (Nos) Government institutions provided with capacity building support to improve management of forest resources (No. of workshops) SLEM best practices disseminated on ICFRE	People in targeted forest and adjacent communities with increase monitory or non-monitory benefits from forests (disaggregated by: Female; ethnic minority/indigenous people) Females Ethinic minority/ Indegenous people Targeted beneficiary groups engaged in participatory planning under the project Direct Project beneficiaries of which female (Nos) Government institutions provided with capacity building support to improve management of forest resources (No. of workshops) SLEM best practices disseminated on ICFRE 1500	People in targeted forest and adjacent communities with increase monitory or non-monitory benefits from forests (disaggregated by: Female; ethnic minority/indigenous people) Females Ethinic minority/ Indegenous people Targeted beneficiary groups engaged in participatory planning under the project Direct Project beneficiaries of which female (Nos) Government institutions provided with capacity building support to improve management of forest resources (No. of workshops) SLEM best practices disseminated on ICFRE knowledge platform (Nos)

Monitoring & Evaluation: ESIP Result Framework & Monitoring











Intermediate Result (Component 2): Investments for improving forest quality in selected landscapes

					-				
	Unit of		Cun	nulativ	e Tarç	get Va	alue		
Intermediate Result Indicators		Baseline 2015	2017	2018	2019	2020		Frequenc y	Description/ Definition
Intermediate Results 2.2: Landscape area restored through treatment of 10,000 ha through project support	На	0	0	1079	2424				Details of plantation is uploaded on plantation monitoring system. Regeneration status of restored area is published on GIM landscape portal.











Activities Livelihand				Total			
Activities Livelihood	Male	Female	Total	ST	SC	ОВС	GEN
Mahua Collection and net distribution	698	225	923	767	74	56	26
Bee Keeping	28	0					
Donapattal making	0	10	10	10	0	C	0
Sericulture	27	8	35	32	3	C	0
Vermicompost	259	2	261	203	20	33	5
Poultry	110	260	370	272	54	5	39
Dairy Farming	258	22	280	142	37	77	24
Mushroom cultivation	54	54	108	98	0	C	10
Fish farming	69	60	129	124	0	C	5
Light motor driving	5	0	5	3	2	C	0
Tailoring	0	231	231	148	38	34	11
Secirity guard	21	0	21	6	1	14	0
Computer training	32	30	62	39	23	C	0
Sanatry Unit	0	12	12	12	0	C	0
Grand Total	1561	914	2475	1884	252	219	120





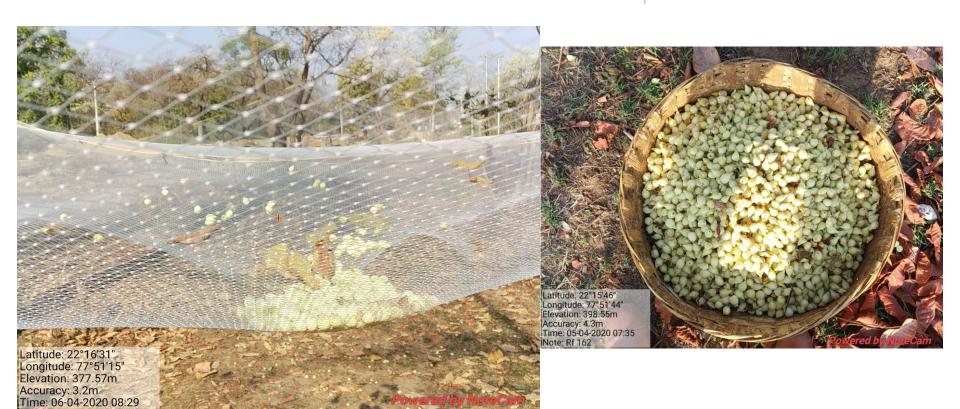






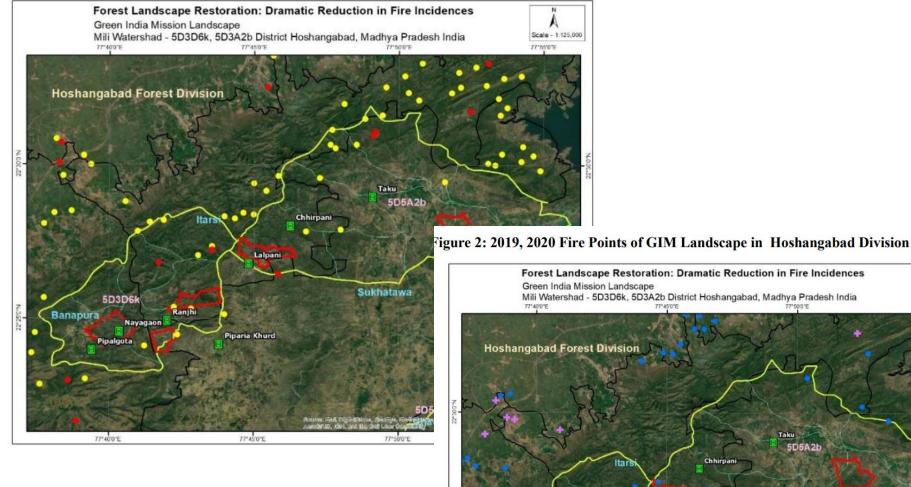
Mahua Net Distribution and Mahua Collection in ESIP Landscapes Hoshangabad & N. Betul

<u>T</u>	
Mahua Net Distributed	763
Number of beneficiaries	610
Mahua Quantity Collected in quintals	272.44
Average earning per household	2000/-



T 'V □ A' Read aloud | V Draw

Figure 1:2017,2018-18 Fire Points of GIM Landscape in Hoshangabad



Impact of community participation: Dramatic reduction in Fire in two GIM landscapes

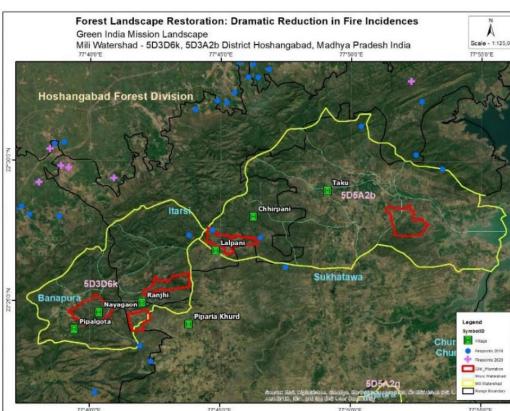
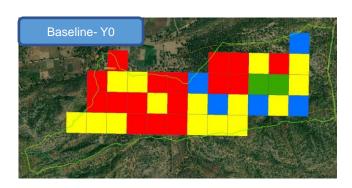
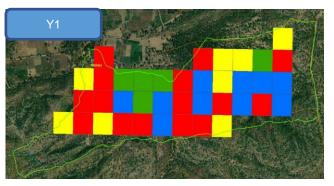


	Table 4a: Mahua flower collected across forest ranges of Hoshangabad Division							Division			
S.No.	Range		Mahua Collection in quintals (n=348)								
		20	018	2	2019	20	020	Total			
		With net	Without net	With	Without	With	Without	With	Without		
				net	net	net	net	net	net		
1	Sukhtawa	No Net distributed	110	25	30	40.41	209.59	65.41	349.59		
2	Itarsi	No Net distributed	572	200	390	540	300	740	1262		
3	Banapura	No Net distributed	173	14	50	110	401	124	624		
Gra	nd Total	0	855	239	470	690.41	910.59	929.41	2235.59		

Livelihood of Forest dependent Communities Case: Hoshangabad

Use of GIS in establishing Monitoring system Percent of area regenerating naturally





Division	Range	Comp No	No of Grids	Natura	Natural regeneration status a baseline Y0				Natural regeneration status year 1 of treatment Y1				
			Grids	Negligible	Inadequate	Adequate	Profuse	Negligible	Inadequate	Adequate	Profuse		
		RF 165	21	5	9	2	5	8	5	1	7		
Hoshangabad	Itarsi	RF 166	17	11	6	0	0	7	3	4	3		
Total	Total 38 16 15 2 5					5	15	8	5	10			
Percent o	ent of area regenerating naturally 18.42				39.47				21.1				

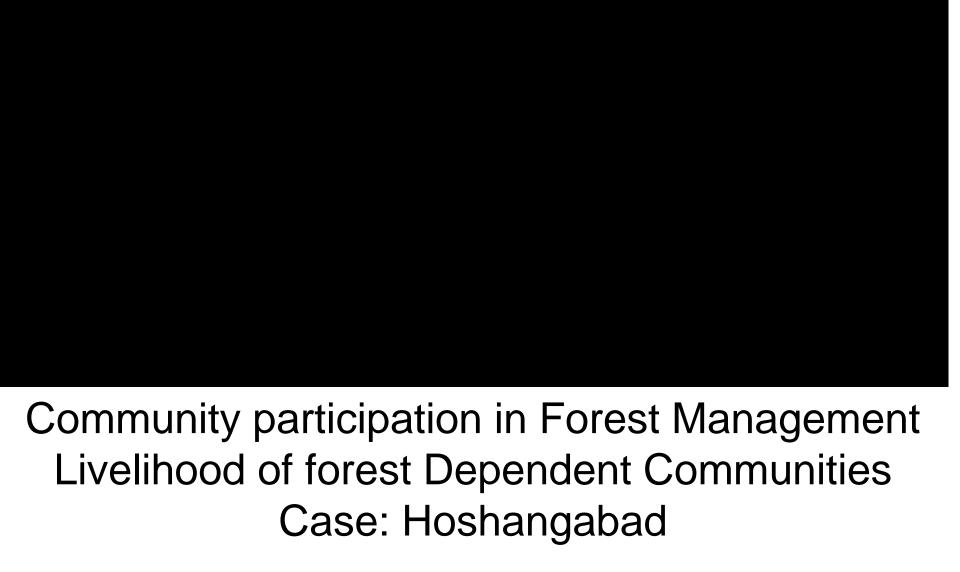
Above 2501-Profuse

1501 to 2500-Adequate

501 to 1500-Inadequate

Less then 500-Negligible

Division- Hoshangabad Range- Itarsi Compartment No- RF 165 and 166 Y0= Baseline Year (2018) Y1= Year 1 (2019)





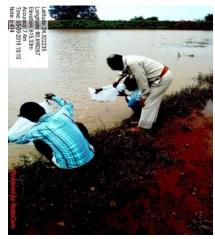








Fish farming (Pisciculture) in ESIP landscape N.Betul and Sehore							
No. of Persons Trained	129						
Seeds (baby fish)	2,25000						
No. of persons started earning	59						
No. of fish sold	697						
Profit earned in INR	87,300/-						

















Mask Making Livelihood Activity by Women SHGs in ESIP Landscapes Hoshangabad, N. Betul and Sehore

<u>F</u>	
Number of SHGs involved in Mask making	13
Total Women involved	123
Total Mask Manufactured	More than 1.5 lakh
Total mask distributed to Health workers	13,450
Average income earned by one SHG member	3489/-























Rakhi Making by "Arayana" SHG members in ESIP Landscapes N. Betul

<u> </u>	
Number of members trained	12
Raw material cost	2,500/-
Total Rakhi Made	400
Rakhi Sold	325
Profit earned in INR	2,200/-



















Poultry Farming livelihood activity in ESIP landscape	s N. <u>Betul</u> and <u>Sehore</u>
Number of beneficiaries	370
Chicks distributed	18,500
Number of beneficiaries started earning	145
Average earning per household (INR)	4000/-







GIS Training

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Capacity Building-Training on Carbon Measurement

Techniques

30th January to 1st 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)

17th June to 18th 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

Brief Progress continued...











TALLY Accounting Training & support -

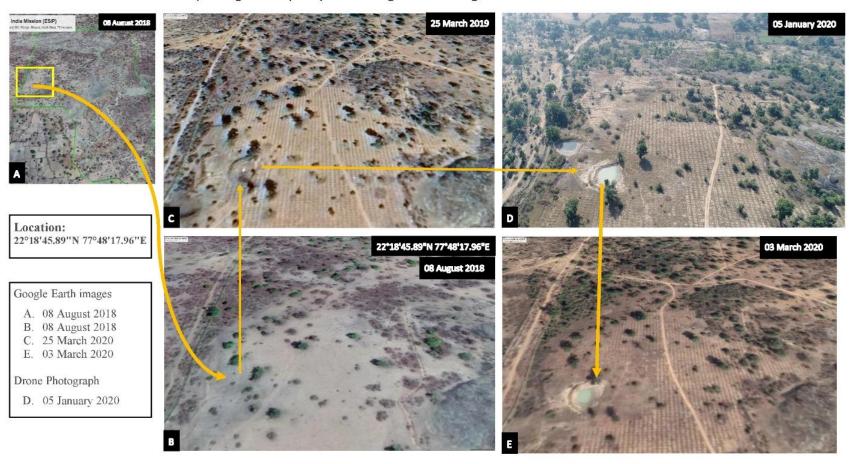
- SPIU MP to establish TALLY based financial management & accounting for GIM & ESIP
- Training carried out 1st Phase: Hoshangabad (28-29 May), N. Betul (1–4 June) & Sehore (11-14 June).
- 04 day training (2nd Phase) for division level participants in progress. H.O., H'bad, Betul, O'gunj, Sehore, Raisen, Balaghat, S. Seoni, Umaria, Satna, Dhar, Jhabua completed.
- Accountants/Comp. Operators, from 18 Divisions of GIM attending training.
- Installation of TALLY software in 11 Divisions and renewal of licenses in rest 07 Div.
- The SPIU & 18 Divisions online synchronization of TALLY for financial monitoring.

Use of GIS in establishing Monitoring system Percent of area regenerating naturally

SI no	Division	Range	Comp No	No of Grids	Υ0		o Y1 und			Y1			
					Negligible	Inadequate	Adequate	Profuse	Negligible	Inadequate	Adequate	Profuse	
1		Itarsi	RF 165	21	5	9	2	5	8	5	1	7	
		Itarsi	RF 166	17	11	6	0	0	7	3	4	3	
2	Hoshangabad	Itarsi	RF 156	53	35	7	8	3	33	12	6	2	
3			PF 32	25	25	0	0	0	8	13	2	2	
4		Sukhatawa	72 PF	31	31	0	0	0	14	13	1	3	
-			75 PF	40	40	0	0	0	7	24	8	1	
5		Banapura	RF 4&5	70	35	21	10	4	19	35	8	8	
otal				257	182	43	20	12	96	105	30	26	
ercent	of area natu	rally regene	erating		12.45	5			21.8				9.3
6			PF 391	34	28	6	0	0	5	22	7	0	
7	North Betul	Bhoura South	P 400	4	4	0	0	0	2	2	0	0	
8	North Betur	Biloura Soutii	RF 131	11	5	6	0	0	4	6	1	0	
9			PF 389	9	2	7	0	0	0	9	0	0	
otal			,	58	39	19	0	0	11	39	8	0	
ercent	of area natu	rally regene	erating		0.00				13.8				13.8
			PF 1487,88	41	26	13	0	2	29	13	3	2	
			RF 1268	14	14	0	0	0	22	1	0	0	
10	West Betul (T)	Mohda	RF 1269	36	3	33	0	0	37	3			
			RF 1264, 67	37	24	12	1	0	23	13	1		
otal				128	67	58	1	2	111	30	4	2	
												_	
ercent	of area natu	rally regene	erating		2.34				4.69				2.3
			RF 483	13	7	3	3	0	2	0	11	0	
		Waraseoni	RF 480	17	10	3	4	0	9	3	5	0	
11	Courth halagh-+		RF 481	31	19	8	4	0	11	10	10	0	
11	South balaghat Katangi		RF 567, 794, 570	27	10	9	8	0	3	12	12	0	Above 2501-
		Katangi	RF 567	17	2	5	10	0	0	2	17	0	ADOVE 2301-
								0	4	1			4
			RF 756	9	4	3	2	U	4	1	3	0	1501 to 2500

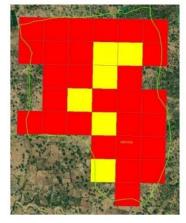
Case 1: Division- North Betul (Ecosystem Services Improvement Project)

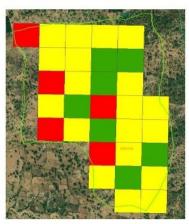
Submission: 2.1.3 Improving forest quality: Enhancing and restoring carbon stocks in forestlands



Landscape	Satpura Narmada	
Division	North Betul	
Mili-watershed	5D5A2h	
Range	Bhaura	
compartment	PF 391	
Beat	Koyalari	
JFMC	Koyalbuddi	
Scheme	ESIP	
Project Duration	2018-2022	
Submission	2.1.3 Investments in restoration works on degraded forestlands	
project cost	192.58 lakhs	
Area	75 ha	
Planting Year	2019	
soil organic carbon Yo		
Plants Planted	75000	
species	Teak, Karanj, Aonla, Shisoo, Bans, Baheda, Neem, Khamer	
Survival %	97.12% (as on May 2020)	

Status of Natural Regeneration				
	Baseline Year Y0	First Year Y1		
No of Grids	34	34		
Survey period	May 2019	October 2019		
Regeneration per ha	231.61	1080.88		
Area under Natural Regeneration (%)	0	20.59		





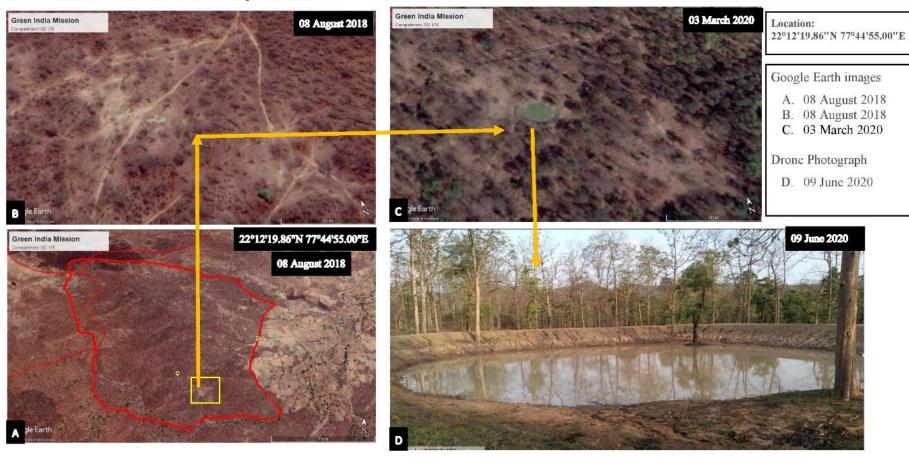
The Ground Reality





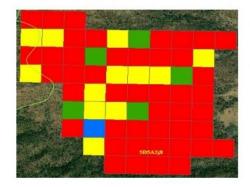
Case 2: Division- North Betul (Ecosystem Services Improvement Project)

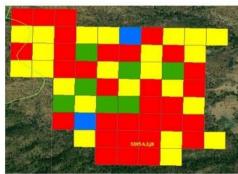
2.1.3 Investments in restoration works on degraded forestlands



Landscape	Satpura Narmada
Division	North Betul
Mili- watershed	5D5A2j
Range	Shahpur
compartment	RF 183 & 176
Beat	West Mudha
JFMC	Muda & Kotha
Scheme	GIM
Project Duration	2018-2022
Submission	Sub Mission 1 (a) Moderately dense forest cover, but showing degradation
project cost	48.64 lakhs
Area	335
Planting Year	2019
Plants Planted	67000
species	Teak
Survival %	95.4 (as on October 2019)

Status of Natural Regeneration				
	First Year Y1			
No of Grids	63	63		
Survey period	June 2019	October 2019		
Regeneration per ha	442.46	736.00		
Area under Natural Regeneration (%)	9.52	14.29		





The Ground Reality





APO FY 2020-21 issues











Request for Post Facto Approval-

- i) Approval of 72 GNSS handsets procured for Rs. 33.05 lakh
 - APO FY 2018-19 had provisions of 62 handsets
 - In 2019-20 revised to 72 with approval from Bank
 - Handsets equally distributed to 18 GIM Forest Divisions
- ii) Approval of expenditure of Rs. 14,73, 880=00 in 2020-21 under Component 3: Scaling up SLEM in selected landscapes.

The expenditure is reported in April-June 2020 IUFR

Shortfalls & Challenges











- ✓ Problems in STEP: Difficulty in uploading documents, lack of clarity in uploading documents to complete STEP procedures, need intensive training to understand the STEP procedures.
- ✓ Specialized agencies for focused M&E need to be clarified
- ✓ State wise project fund allocation details not provided in PAD, PIP or the cost table for the components 1 and 2 of the project
- ✓ Total project cost mentioned in PAD in USD where as State Share is in INR (1 USD=55INR) The USD rate to be considered now?
- ✓ Van Vigyan Kendra is proposed in Bansapur nursery. ICFRE has assigned TFRI, Jabalpur to prepare and provide detail plan for the Van Vigyan Kendra.



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