



Ecosystem Services Improvement Project

a strategy for climate change mitigation

enhancement of forest cover

improvement of ecosystem services

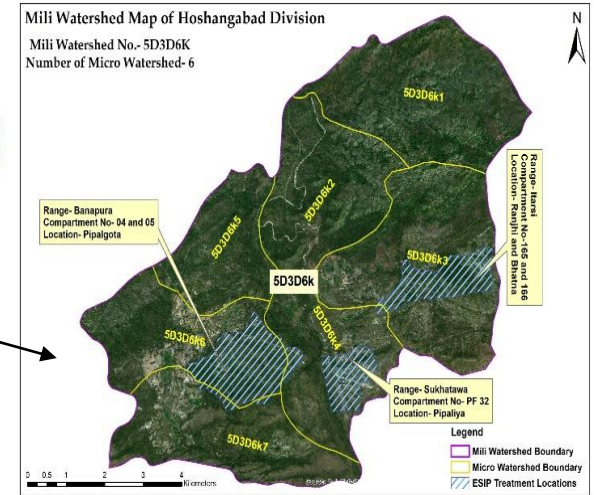
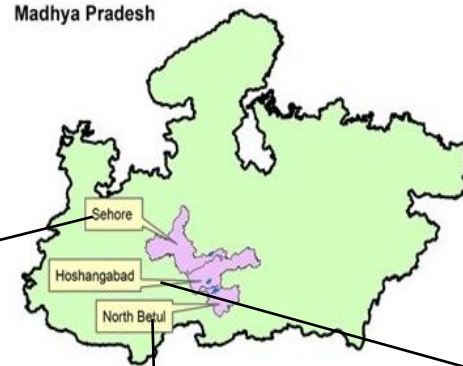
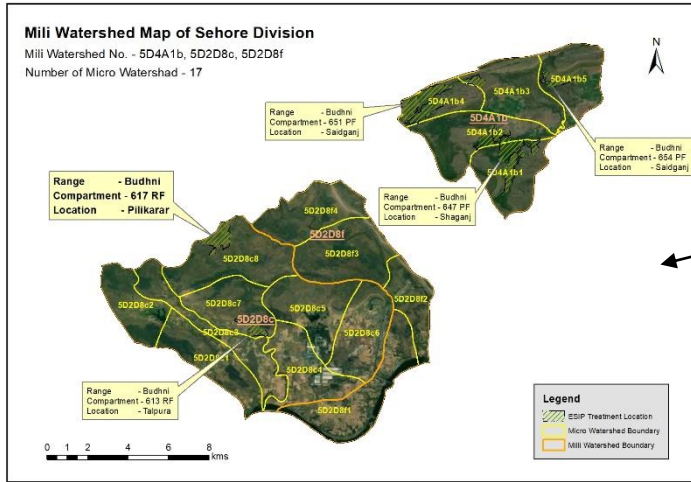
livelihood opportunities for forest dependent communities

ESIP Seventh Implementation Support Mission

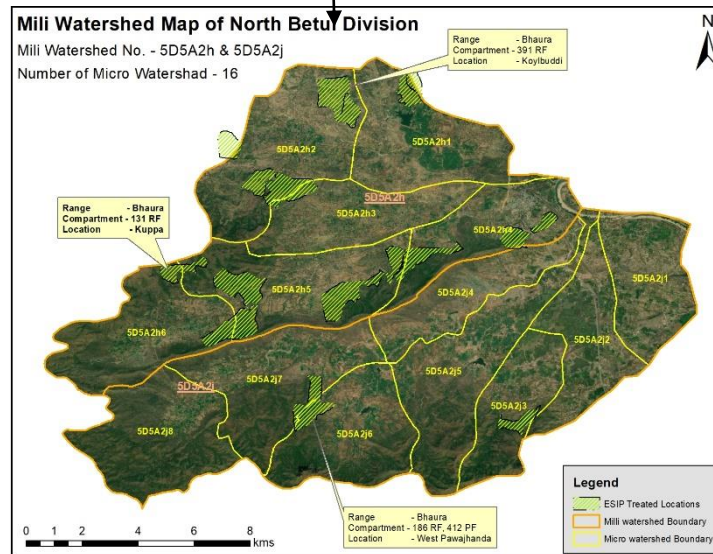
18th November, 2021

SPIU- Madhya Pradesh

LOCATION MAP OF SELECTED LANDSCAPE UNDER ESIP



Hoshangabad
 Kesla: 5D3D6k



North Betul
 Bhaunra: 5D5A2h
 Shahpur: 5D5A2j

Sehore
 Budhni: 5D4A1b, 5D2D8c & 5D2D8f



ESIP LANDSCAPES

Division	villages	Male	Female	Total	HH	Sex ratio	SC	ST	SC%	ST%	Literacy %
Hoshangabad	20	5616	5233	10849	2135	332	586	7630	5.4	70.33	47.92
Sehore	17	8186	7087	15273	3087	865	2045	6492	13.39	42.51	55.58
Betul	9	3640	3544	7184	10728	758	627	5381	5.84	50.16	50.12
Total of Project	46	17442	15864	33306	15950	652	3258	19503	9.78	58.56	51.2

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	Total Forest		
1	Satpura- Narmada	Hoshangabad	5D3D6k	7(5D3D6k1-7)	5947.25	128.93	491.61	6567.79	63.85	6631.64
2		North Betul	5D5A2h	6(5D5A2h1-6)	3622.99	1063.96	754.28	5441.23	4139.34	9580.57
			5D5A2j	8(5D5A2j3-8)	4073.53	696.50	835.67	5605.71	5735.50	11341.22
	Satpura- Narmada L1 landscape Total				13643.768	1889.39	2081.56	17614.73	9938.69	27553.43
3	Vindhya Plateau	Sehore	5D4A1b	5(5D4A1b1-5)	1187.83	1443.48	98.19	2729.5	1676.75	4406.25
			5D2D8c	8(5D2D8c1-8)	1757.58	1337.76	204.62	299.96	4308.48	7608.44
			5D2D8f	4(5D2D8f1-4)	543.11	1467.9	92.68	2103.69	1819.23	3922.92
	Vindhya Plateau L1 landscape Total				3488.52	4249.14	395.49	5133.15	7804.46	15937.61
Total	2	3	6	38	17132.288	6138.53	2477.05	22747.88	17743.15	43491.04



Transforming Forest Landscapes to Fight Climate Change

Identification	Planning	Intervention	Outcome
<ul style="list-style-type: none"> • Scientific criteria • Baseline Status • Future Projection • Factors of Vulnerability • Stakeholder Identification 	<ul style="list-style-type: none"> • Participatory Planning • Identifying key factors of vulnerability • Problems Prioritization • Stakeholder engagement • Activity Planning • Result Framework • Benchmarking 	<ul style="list-style-type: none"> • Community Mobilization • Capacity Building • Upgrading Infrastructure • Restoring Landscape • Transparent Monitoring System in place 	<ul style="list-style-type: none"> • Improved- • <i>Natural Regeneration</i> • <i>Growing Stock</i> • <i>Forest Cover</i> • <i>Carbon Sink</i> • <i>Utilization of NTFPs</i> • Increase in • <i>Surface water</i> • <i>Ground water</i> • Livelihood Opportunities • Increased Acreage in Agriculture



Transforming Forest Landscapes to Fight Climate Change

Indicators	Baseline (2017)	Current (2021)	Remark
Forest Landscape restored (Ha)	0	3024	
Status of Natural Regeneration (per ha)	833.29	1461.86	75.43% increase
Forest nurseries with state of art technology (Capacity of number of plants in lakhs per year)		47.5	5 Nurseries upgraded and 6 nurseries is ongoing
Carbon Sink assessed (t/ha)	60.31		Average for ESIP landscapes
Total carbon (ton)	1,172,639.19		from 20016.38 hac Forest Area of ESIP landscape
CO2 eq.	4,299,677.03		
Growing Stock (Volume cu.m)	245.198	266.64	71 grids in Hoshangabad and Sehore division (8.74 % Increase)
Forest Based / diversified livelihood opportunities (Nos)	0	3380	
Acerage under rabi crop	1522.1	2643.6	173.64 % increase

ESIP Landscape indicators



3,024 of 22,747 ha of forest in the landscape (43,491 ha) restored



833.29 to 1461.86 per ha
(75.43% increase)
Natural Regeneration



9,45,463
Plants planted



245.19 to 261.64 cmt/ha
(8.74% increase in Growing Stock recorded in 71 grids



5 (6 ongoing)
Upgradation of Forest Nurseries



60.31 t/ha.
Baseline for Carbon Stock as estimated by ICFRE



STARMAP
GIS Based Monitoring Platform

ESIP in Numbers



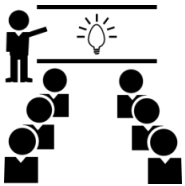
83

**Awareness Workshops
Conducted**



3380

Livelihood Ensured to HHs



52

**Capacity Building
Organized**



03

**Sustainable Harvesting
Protocols Developed for 25
NTFP species**



23

**Exposure Visits
Conducted**



39

**FD Staff trainings organized in
use of GIS System**



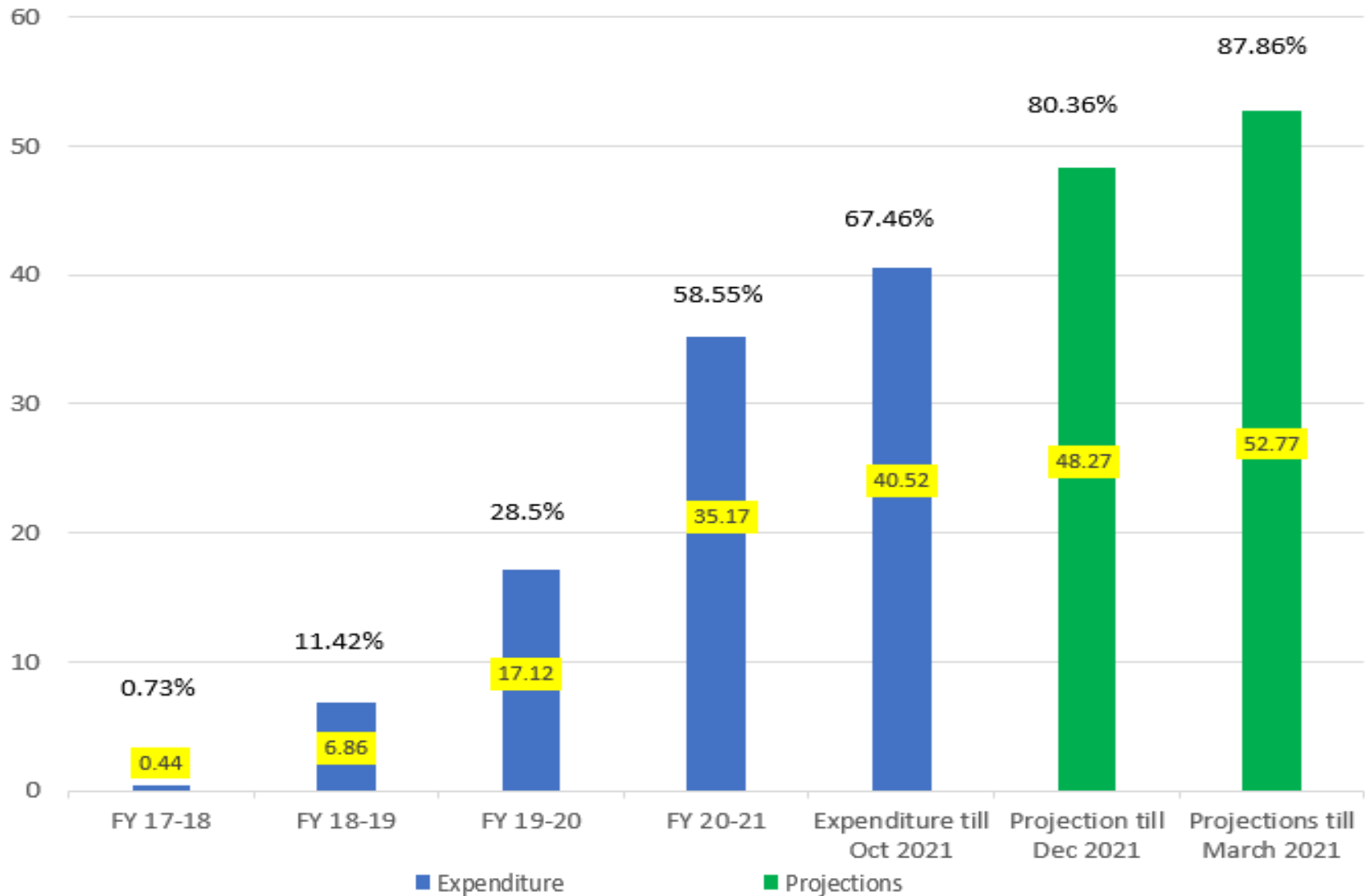
Statement of Expenditure and reimbursement Details

S.NO	Project Component	Cost in US\$ mn	Cost Rs 67 per USD (INR crore)	Expenditure till 31 st March 2021	Expenditure 1 st April-31 st Oct 2021	Cumulative Expenditure till 31 st Oct 2021
1	Strengthening Capacity of Government Institutions in Forestry and Land Management Programs	1.19	7.97	2.63	0.30	2.93
2	Investments for Improving Forest Quality in Selected Landscapes-	7.25	48.58	29.94	4.49	34.43
3	Scaling up SLEM in selected landscapes	0.06	0.43	0.38	00	0.38
4	Project Management and Coordination	0.46	3.08	2.23	0.55	2.78
	Total Outlay	8.96	60.06	35.18	5.34	40.52

Reimbursement till date:- US \$ 5.42 mn



Expenditure & Projections Under ESIP (INR in Cr.)





Extension & Reappropriation Request (INR in Cr.)

S.No	Components	Agency	SPIU MP Share as per Cost Table	Proposed Reappropriation of Budget Allocation
1	Strengthening Capacity of Government Institutions in Forestry and Land Management Programs	SPIU-MP	7.97	7.26
2	Investments for Improving Forest Quality in Selected Landscapes-	SPIU-MP	48.58	47.64
3	Scaling up SLEM in selected landscapes	SPIU-MP	0.43	0.39
4	Project Management and Coordination	SPIU-MP	3.08	4.77
	Total Outlay		60.06	60.06

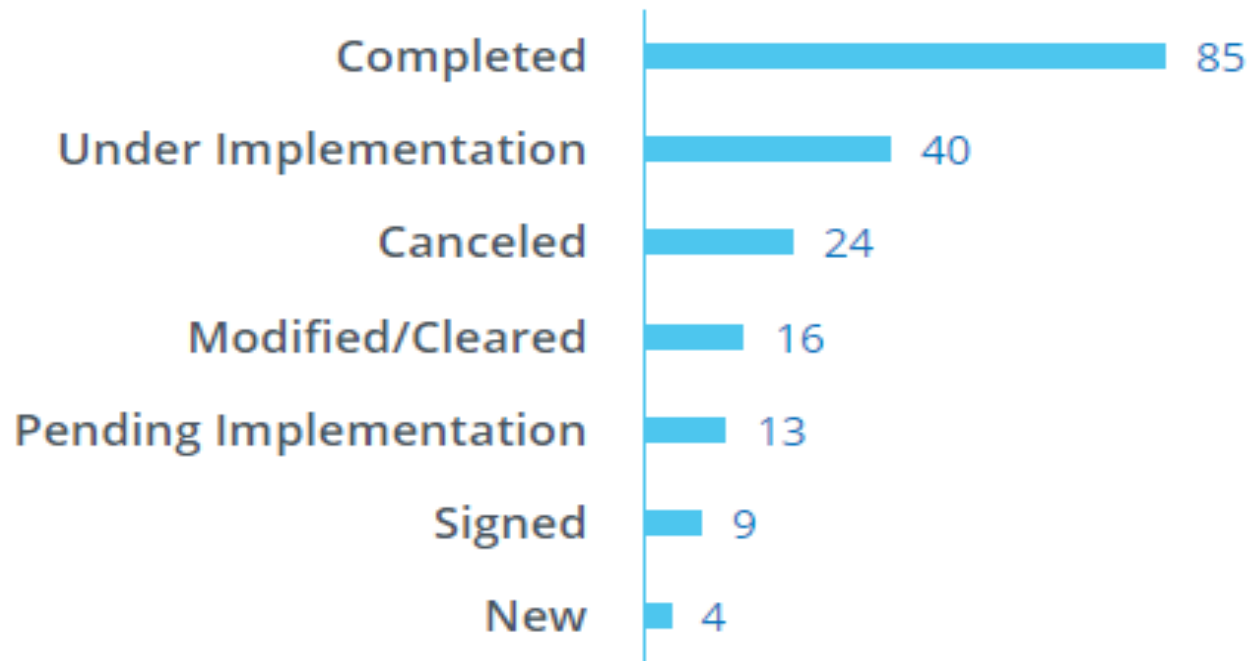
Note: As per request submitted on 3.9.2021 excess amount left unutilized (due to the pandemic) in component 1, 2 and 3 i.e. Rs. 0.71 cr, Rs. 0.94 cr and Rs. 0.04 cr is proposed to be reappropriated in component 4. Total amount proposed in component 4 is Rs. 4.77 cr to meet Project Management and Coordination expenses.



Activity Status on STEP

Activity Summary

175 Activities in 1 Projects





Progress of IEC consulting agencies

Sl. No.	Project Title	Agency Name	Status
1.	Developing IEC strategy and implementation of IEC Plan for ESIP	Concept Orange, Bhopal	<ul style="list-style-type: none">• Inception Report Submitted.• Banner and posters developed for the trainings of NTFP sustainable harvesting protocol.• ESIP IEC communication Strategy developed and submitted.• IEC communication material like Panels, Flyers, Posters on success stories under ESIP project.

Panels Developed as ESIP IEC Communication Material



SUCCESS STORY



Ecosystem Services Improvement Project (ESIP)


Demand driven Skill development trainings were organized regularly for village youth from ESIP landscapes to introduce them to diversified avenues of livelihoods. These diversified livelihood activities were mostly demand driven and women-oriented activities were given utmost preference.

Percentage of female beneficiaries **54 %**
Percentage of ST beneficiaries **68 %**
Percentage of other vulnerable communities (SC/OBCs) **25 %**




Green India Mission
Madhya Pradesh Forest Department

Additional PCCF, Green India Mission
Satpura Bhawan, Bhopal, Madhya Pradesh
Tel.: 0755 2674268, 9424790089
Email : apccfgim@mp.gov.in
<https://www.mpforest.gov.in>



SUCCESS STORY




Ecosystem Services Improvement Project (ESIP)

During the year 2018-19 to 2020-21 a total of 3024 ha. (Betul-1074 ha., Hoshangabad-1400 ha., Sehore-550 ha.) of moderately dense forest showing degradation were taken for restoration works in the selected landscapes.


The treated area was covered with **1,81,914** RMT fencing and the total area under protection and maintenance was **3024** ha.
Number of plants planted **9,45,463**

No. of SMC work carried out **4155**
No. of male labour **4377**
No. of female labour **2675**
Number of man-days generated **7,05,200**





Green India Mission
Madhya Pradesh Forest Department

Additional PCCF, Green India Mission
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Posters Developed for the trainings of NTFP Sustainable Harvesting under IEC



लघुवनोपज / औषधीय पौधों का टिकाऊ एवं सतत् विदोहन, प्रसंस्करण और मूल्य संवर्धन
इकोसिस्टम सर्विसेस इम्पूवमेन्ट प्रोजेक्ट

दिनांक:
स्थान:



लघुवनोपज / औषधीय पौधों का टिकाऊ एवं सतत् विदोहन, प्रसंस्करण और मूल्य संवर्धन
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प्रशिक्षकों का प्रशिक्षण (ToTs)

दिनांक:
स्थान:





Progress of consulting agencies for NTFP Project

Sl. No.	Project Title	Agency Name	Status
2.	Sustainable Harvesting Protocols , Value Addition & Value Chain development for Non Timber Forest Products in selected district of MP.	MP Vigyan Sabha, Bhopal	<ul style="list-style-type: none">• 3 range and 1 divisional level inception workshop completed.• Inception Report Submitted.• Training on Sustainable harvesting techniques for NTFPs completed at Sehore forest division.• Sustainable harvesting protocols submitted<ol style="list-style-type: none">1. For 15 species (Hindi)2. For 25 species (Hindi)3. English (25 species)• Sustainable harvesting Training manual submitted.

Inception Workshops of NTFP Sustainable Harvesting Protocols and Valuechain Consultancy



First NTFP Capacity Building Division Workshop- Sehore Forest division

**NTFP resource assessment
Capacity Building at Bhoura Range,
North Betul Forest division**



NTPF Sustainable harvesting protocols submitted by the Consulting Agency



विश्व बैंक समर्थित ग्रीन इन्डिया मिशन के अंतर्गत मध्यप्रदेश वन विभाग द्वारा क्रियान्वयन



मध्यप्रदेश में पाए जाने वाले कुछ प्रमुख औषधीय/लघु-वनोपज पौधों के विनाश-विहीन विदोहन की विधियाँ

संग्राहकों, स्व-सहायता समूह एवं संयुक्त वन प्रबंध समिति के सदस्यों के प्रशिक्षण हेतु सामग्री



सोसायटी फॉर रिसॉर्स प्लानिंग डेवेलपमेंट एण्ड रिसर्च, भोपाल
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1



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वन अधिकारियों के लिये



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वेबसाईट: www.srpdr.wordpress.com

Assisted By



Prepared By



Implemented By



Under

Ecosystem Services Improvement Project

Being Implemented by Green India Mission
Madhya Pradesh Forest Department

**“Sustainable Harvesting Protocols for
NTFPs & Medicinal Plants”**

(Prepared for the State of Madhya Pradesh)



Prepared by
Dr Ram Prasad and Team at

Society for Resource Planning, Development and
Research, Bhopal (M.P)

20 SEPTEMBER 2021



Monitoring & Evaluation : ESIP Result Framework

Indicators	PDO Level Results indicators	Cumulative Target Year 2021	Achievement till Oct' 2021	Remarks
Indicator One	People in targeted forest and adjacent communities with increase monetary or non-monetary benefits from forests (disaggregated by: Female; ethnic minority/indigenous people)	1250	2049	
	Females		1076	Increase monetary benefits from forests
	Ethnic minority/ Indigenous people		2025	Increase monetary benefits from forests
Indicator Four	Targeted beneficiary groups engaged in participatory planning under the project	200	359	Communities participatory planning
Indicator Five	Direct Project beneficiaries of which female (Nos)	5000	7546	
Intermediate results 1.3	Government institutions provided with capacity building support to improve management of forest resources.	8	19	North Betul -7 Sehore -7 Hoshangabad -5

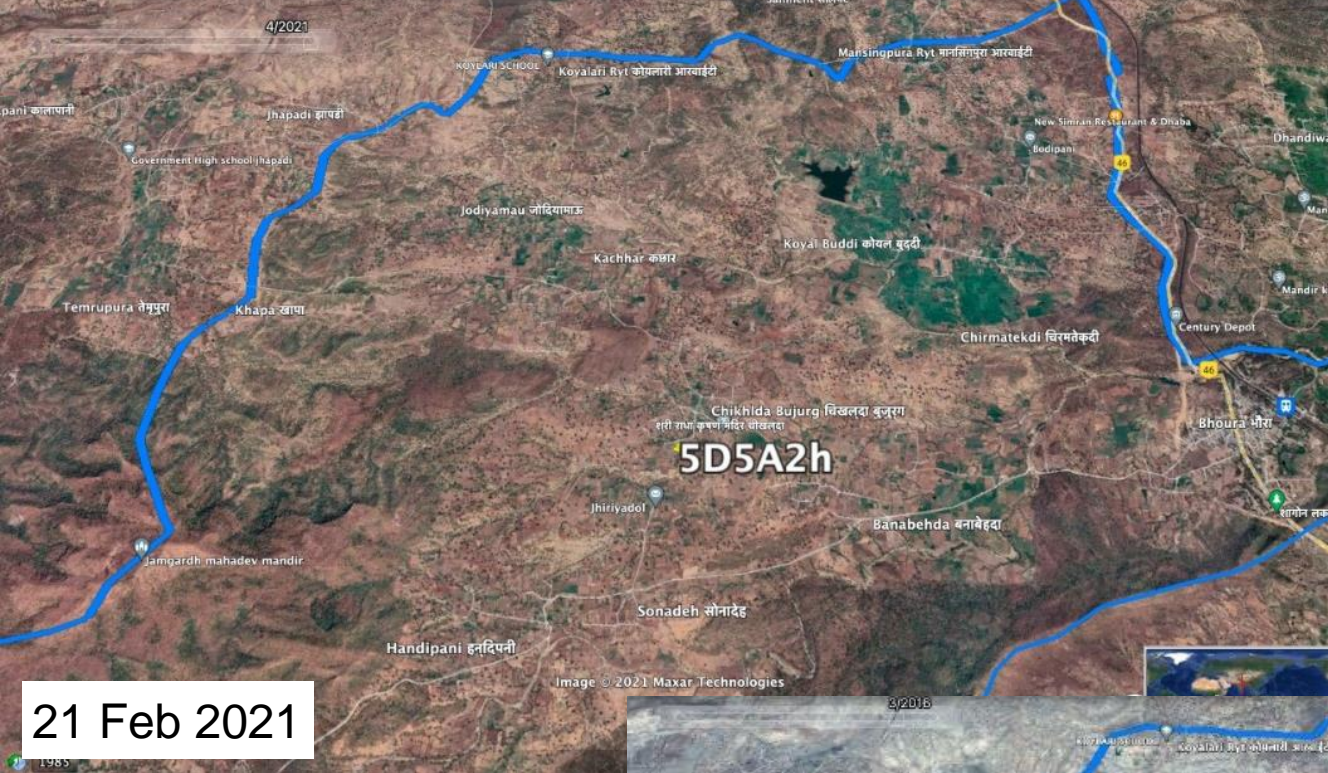


Monitoring & Evaluation : ESIP Result Framework

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

Intermediate Result Indicators	Unit of Measure	Baseline 2015	Target	Cumulative Achievement					Frequency	Description/ Definition
				2017	2018	2019	2020	Oct 2021		
Intermediate Results 2.2: Landscape area restored through treatment of 10,000 ha through project support	Ha	0	5000	0	1079	2424	3024	3624	Annual	Details of plantation is uploaded on plantation monitoring system. Regeneration status of restored area is published on GIM landscape portal.

<https://geo.mpforest.gov.in/geoportal/apps/webappviewer/index.html?id=42fccb4bf21f47aebadac5cbd474>



21 Feb 2021

Landscape after treatment
under ESIP
Bhaura 5D5A2h
(2016 to 2021)

As seen in Google Earth
For comparable period

Landscape transformed N. Betul



21 March 2016

Landscape after treatment
under ESIP N. Betul
Bhaura 5D5A2h
(2016 to 2021)

Compartment No. 391 & 159RF

As seen in Drone Photograph
21 October 2021



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



Latitude: 22°19'12"N
Longitude: 77°49'49"E
Elevation: 412.65 m
Accuracy: 3.8 m
Time: 10-21-2021 10:18
Note: rf159/1dron

Rabi Crop in the Landscape after treatment under ESIP/GIM
Bhaura 5D5A2h 5D5A2j
(2017 to 2021)

miliwatershed	Halka __village	2017-18	2018-19	2019-20	2020-21
5D5A2j	Halka_ झापडीVill_ कालापानी	32.3	14.4	71.7	78.7
	Halka_ पहावाडी Vill_ चापड़ा माल	42.8	35.4	86.8	84.1
	Halka_ झापडीVill_ झापडी	68.0	44.9	122.6	129.4
	Halka_ पावरझंडाVill_ जामनगरी	83.6	81.0	94.8	99.7
	Halka_ रायपूरVill_ हीरावाडी	86.2	31.9	180.4	169.8
	Halka_ पावरझंडाVill_ पावरझंडा	167.6	171.3	237.6	241.2
	Halka_ पहावाडीVill_ पहावाडी	207.7	162.4	445.5	448.4
	Halka_ पावरझंडाVill_ सेमरपुरा	232.1	187.8	289.7	319.5
5D5A2h	Halka_ कछारVill_ कोयलबुडी	27.2	19.0	62.8	68.9
	Halka_ कछारVill_ कोयलारी	35.7	29.7	79.8	86.3
	Halka_ मूढाVill_ टेटर माल	56.4	31.2	52.9	52.4
	Halka_ सालीमेटVill_ मानसिंगपुर	86.8	67.3	121.9	117.9
	Halka_ खापाVill_ खापा	99.6	39.6	137.3	192.2
	Halka_ कछारVill_ कछार	116.9	39.3	218.9	208.0
	Halka_ बानाबेहडाVill_ बानाबेहडा	179.1	86.0	285.5	347.1
all village total		1,522.1	1,041.2	2,488.1	2,643.6



Progress APO (2021-22)

S.no.	Items	Cumulative	
		Target (Phy)	Achieved (Phy)
Component – 1 Strengthening Capacity of Government Institutions in Forestry and Land Management Programs			
1	Exposure visit (nos.)	09	02
2	Workshop (nos.)	80	11
3	Capacity building Workshop GIM Divisions (nos.)	15	0
Component-2.2 & 1.6.6: Developing community-based models for sustainable utilization of NTFP & Skill Development and Employment generation activities			
4	Livelihood ensured (Beneficiary nos.)	1200	90



Progress (APO 2021-22)

S.No.	Items	(October, 2021)	
		Target (Phy)	Achievement (phy)
Component -2 Investments for Improving Forest Quality in Selected Landscapes			
1	Site preparation (ha.)	600	00
2	Plantation created (ha.)	600	00
3	Area under Maintenance (ha.)	2424	2424
4	Plants Planted (nos.)	-	2,25,250
5	Upgrading/modernization of select forest nurseries	6	In progress



Progress APO (2021-22) Exposure Visits



Natural Nutri Bakery Unit, Tamia, District- Chhindwara



Progress APO (2021-22) Workshops



Range Level Workshop-Banapura,
Division- Hoshangabad



Village Level Workshop-Pipalgota
Range- Banapura, Hoshangabad



Progress APO (2021-22)

Divisional level Stakeholder Workshop Hoshangabad





1.6.6 Skill Development Activities for youth- Diversified Livelihood Activities

Progress APO (2021-22)

<i>Activities</i>	<i>Beneficiaries</i>						
	<i>Male</i>	<i>Female</i>	<i>Total</i>	<i>ST</i>	<i>SC</i>	<i>OBC</i>	<i>GEN</i>
<i>Electrician & Motor Winding</i>	60	3	63	33	07	23	0
<i>Automobile Technician(Two wheeler repair assistant)</i>	27	0	27	0	15	12	0
<i>Grand Total</i>	87	3	90	33	22	35	0
<i>Percentage of female beneficiaries</i>							3%
<i>Percentage of ST beneficiaries</i>							37%
<i>Percentage of other communities (SC/OBCs)</i>							63%



1.6.6 Skill Development Activities for youth (2021-22)

Electrician & Motor Winding Training



National Skills Qualifications Framework (NSQF Course)	Helper/ Assistant Electrician CON/ Q601
Persons trained	63
Project Cost	Rs. 6,30,000/-
Person Employed	33
Employment type	Self Employment and Jobs
Average Income	Salary Rs. 8000-10000 /- pm , own business Rs. 2500-3000 /- pm



1.6.6 Skill Development Activities for youth (2021-22)

Automotive Service Technician (Two Wheelers)



National Skills Qualifications Framework (NSQF Course)	Helper/ Assistant Two Wheeler Repair ASC/Q1411
Persons trained	27
Project Cost	Rs. 2,97,000/-
Person Employed	Training ongoing
Employment type	Self Employment and Jobs

Thank You