



Sustainable Management of Forest Ecosystem Services





“India recognises that conserving, expanding and improving the quality of our forests is a major national priority as it is not only a cost effective and efficient way to mitigate the effect of climate change but also improve water availability and provide livelihood to millions of people.”

- Mr. Bhupinder Yadav
Hon'ble Minister for Environment, Forest & Climate Change
(MoEF&CC)



मधु वाता ऋतायते मधु क्षरन्ति सिन्धवः ।
माध्वीर्नः सन्तोषधीः ॥

Environment provides bliss to people leading their life perfectly. Rivers bliss us with sacred water and provide us health, night, morning, vegetation. Sun bliss us with peaceful life.

“Forests play a key role in sustainable management of water resources as quantity, quality and availability of water are strongly influenced by forests. Both forest and water are strongly linked with nature, rivers and people and have symbiotic relationship among them.”

- Mr. Chandra Prakash Goyal
Director General of Forest and Special Secretary, MoEF&CC



“Water is a key factor for sustainability and stability of forest ecosystems. In return, forests play an essential role in water related ecosystem services.

Focusing on the symbiotic relationship between forest and water, GIZ is implementing the Sustainable Management of Forest Ecosystem Services Project with a focus on water availability. The project will help in strengthening forest and agroforest management through integration of the Forest Ecosystem Services based approach.”

- Dr. Suneesh Buxy
Inspector General of Forests, (Externally Aided Projects),
MoEF&CC



Project Working Definitions

The Forest Ecosystem Services (FES) Approach

The FES approach states that *'The Forest Management focuses on the sustainable provision of a set of prioritised ecosystem services based on stakeholder choices'*.

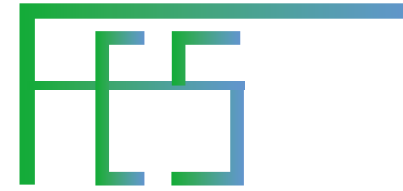
Incentive Based Mechanisms (IBMs)

'IBMs are performance-based stimuli (cash or kind) in exchange for managing actions for the sustainable management of ecosystem services, to ensure their continued provision for all stakeholders'.





‘The project supports the increased orientation of forest and agroforest management towards FES, with focus on water availability.’



Sustainable
Management of Forest Ecosystem Services



about *the project*

The ‘**Sustainable Management of Forest Ecosystem Services**’ project is being implemented by Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) GmbH in India, on behalf of the German Federal Ministry for Economic Cooperation and Development (BMZ) in partnership with the Indian Ministry of Environment, Forest and Climate Change (MoEF&CC) at the national level and the forest departments of Himachal Pradesh (HPFD) Uttarakhand (UKFD), Uttar Pradesh (UPFD) and Madhya Pradesh (MPFD) at state level.

The **goal** of the project is to strengthen forest and agroforest management to integrate the FES approach, with emphasis on water availability.

**Project title:
Sustainable
Management of
Forest Ecosystem
Services**

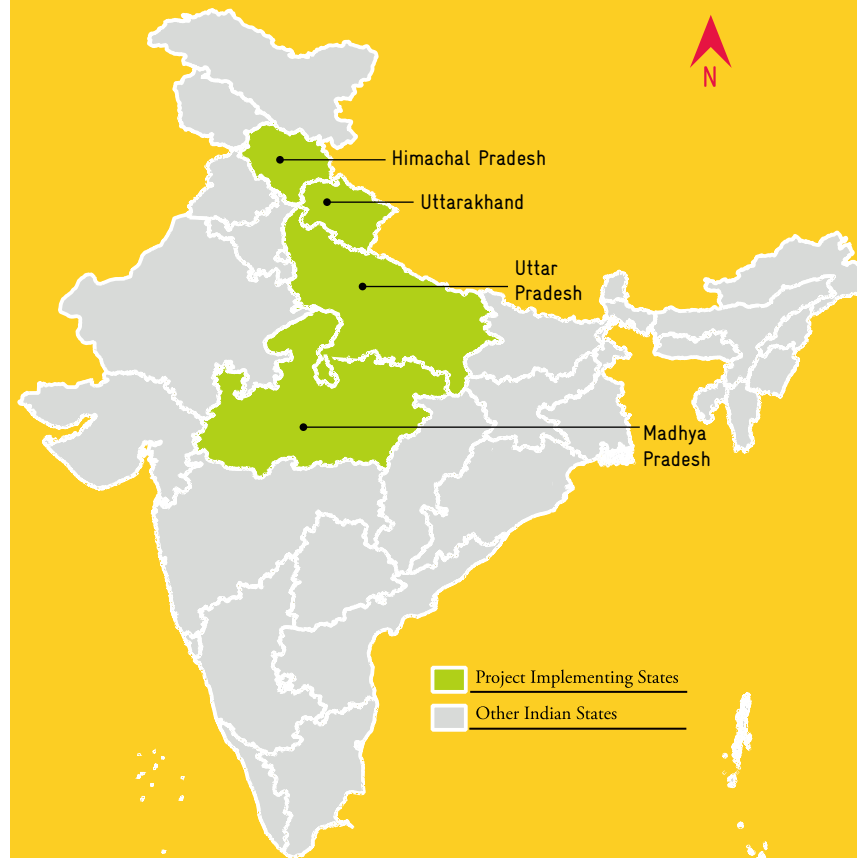
Implementing agency: GIZ in cooperation with MoEF&CC, HPFD, UKFD, UPFD and MPFD

Commissioned by: German Federal Ministry for Economic Cooperation and Development

Project duration: 2021-2024 (4 years)

Target group: Marginalised rural residents in the selected states who are custodians, users and beneficiaries of FES

Project Implementing Areas



Pilot Sites

Himachal Pradesh

- Suliali, Nurpur Forest Division (District Kangra),
- Pathrevi, Karsog Forest Division (District Mandi)
- Priyungal, Dalhousie Forest Division (District Chamba)

Uttarakhand

- Okhli Shrot, Civil Soyam Forest Division (District Almora),
- Syat, Ramnagar Forest Division (District Nainital)
- Bhilaru, Mussoorie Forest Division (District Dehradun)

Uttar Pradesh

- Jhansi
- Mahoba
- Lalitpur
- Gorakhpur

Madhya Pradesh

- Chhatarpur
- Newari
- Chhindwara: for best practices documentation
- Sehore: supported by Madhya Pradesh Council of Science and Technology (MAPCOST), Bhopal



Project Core Areas

1. Institutionalisation and integration of the FES approach in forest management
2. Providing support to demonstrate the feasibility of cross-sectoral and innovative approaches for FES management
3. Knowledge management to improve access to available knowledge and knowhow on sustainable FES management
4. Improving the operational conditions for ecologically and economically sustainable value creation from agroforestry systems in U.P. and M.P.

Working Aids

Development of working aids, such as toolkits, work templates, guidelines *etc.* for the MoEF&CC, HPFD and UKFD for decision making and orienting project planning to sustainable FES management



Best Practices

Documentation and dissemination of best practices for improving water availability, which have been appreciated in various national and international regions, that are relevant to enhance FES flow in the H.P. and U.K.



Organisation

Strengthening the organisation of state forest authorities to provide effective FES management advice to districts and other implementing actors.



Institutionalisation and integration of the FES approach in forest management


1. Institutionalisation






Providing support to demonstrate the feasibility of cross-sectoral and innovative approaches for FES management, focusing on water availability

01  Preparation and implementation of FES management plans at pilot sites

02  Establishing cross sectoral linkages with various line departments

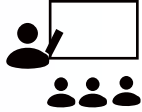
03  Implementing Incentive Based Mechanisms at pilot sites

2. Implementation

Knowledge management, to improve access to available knowledge and knowhow on sustainable FES management

01

Trainings and other capacity development initiatives for project partners and communities residing at pilot sites



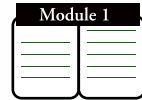
02

Development of digital formats for knowledge exchange on sustainable FES management, for practical use in decision making processes of the MoEF&CC, HPFD, UKFD and public institutions



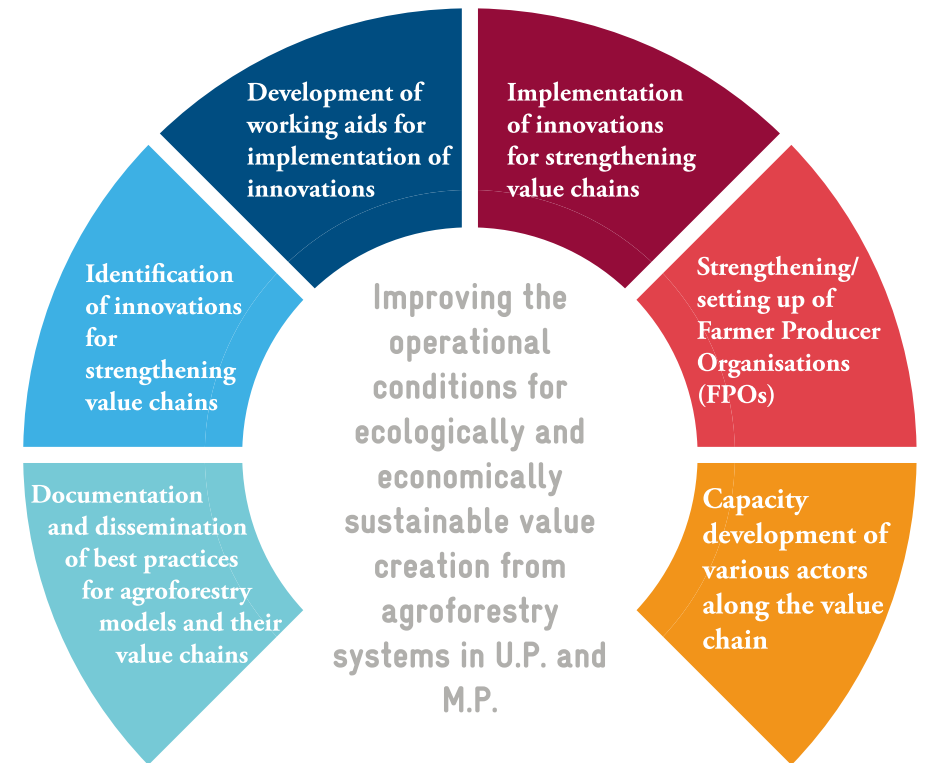
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Upgradation of existing training curricula of national and state forest training institutes to integrate courses focusing on sustainable management of FES



3. Knowledge management





4. Agroforest management



The FES project directly contributes to the already formulated national indicators for:



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Programme/project description:

Indo-German Biodiversity Programme
Conservation and Sustainable Use of Biodiversity in India – Sustainable
Management of Forest Ecosystem Services Project (FES)

The project aims to strengthen forest and agroforest management to
integrate the FES approach with emphasis on water availability

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FES

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Maps

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On behalf of

German Federal Ministry for Economic Cooperation and Development
(BMZ)

For further information

Ministry of Environment Forest and Climate Change
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Government of India

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