

Project title: Preparation of Detailed Project Report for Rejuvenation of Yamuna River through Forestry Interventions

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Year of Project duration : 2019-2022

Funding agency's full name : Ministry of Environment, Forest and Climate Change, GoI

Overview of project: The basin area of the Yamuna river covers 3.66 lakh km² area spread in seven states viz. Uttarakhand, Himachal Pradesh, Haryana, Delhi NCT, Uttar Pradesh, Rajasthan and Madhya Pradesh. There are major concerns in the Yamuna Basin about environmental flow, soil erosion, sediment load, riverbed mining, general degradation of the environment, and problems of sewage discharge, agro-chemicals and industrial pollution. The project aimed providing a workplan for addressing forestry-related issues in the Yamuna basin.

Significant findings / outcome: The major river water-related concerns from point of view of the forestry sector are (a) declining environmental flow and (b) high sedimentation load in riverbed. These are, in turn, related to the following issues: forest degradation and landuse change, open and barren catchments/river banks, soil erosion in forest areas and sediment load in river water, presence of invasive weeds and their expansion into adjacent areas, biodiversity concerns, and promotion of trees outside forest, livelihood issues and generation of industrial-level surplus and awareness generation. Strategies were accordingly formulated to resolve the issues while developing this DPR

Objectives :

1. To propose appropriate treatment models (technical prescriptions) for prioritised sites in the riverscape in consultation with SFDs, other stakeholders and experts
2. To enhance capacity of SFDs to undertake the prescribed project activities in natural, agricultural and urban/peri-urban landscapes
3. To propose implementation mechanism to MoEF&CC
4. To suggest measures for upscaling of activities in other suitable sites in catchment area of Yamuna and its tributaries

Conclusion: A total of 143 models/sub-models comprising 49 in natural landscape, 14 in agriculture landscape, 22 in urban/peri-urban landscape and 58 as conservation interventions have been formulated for the riverscape. The models are site-specific with elaborate details about choice of species, execution and maintenance operations.

Extension aspect / Practical utility of the findings: The DPR was approved/released by MoEF&CC on March 14, 2022 alongwith DPRs for 12 other rivers prepared by other institutes under ICFRE. The DPR is being implemented by State Forest Departments of the seven states in collaboration with other stakeholder agencies.

Detailed Project Report

RE-JUVENATION OF YAMUNA RIVER THROUGH FORESTRY INTERVENTIONS

75 आज़ादी का अमृत महोत्सव

YAMUNOTRI

Dak Pathar
Hathnikund
Yamuna Nagar
Panipat
Sonapat
Delhi
Faridabad
Ballabgarh
Palwal
Mathura
Agra
Etawah
PRAYAGRAJ
Hamirpur

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Detailed Project Report

RE-JUVENATION OF YAMUNA RIVER THROUGH FORESTRY INTERVENTIONS

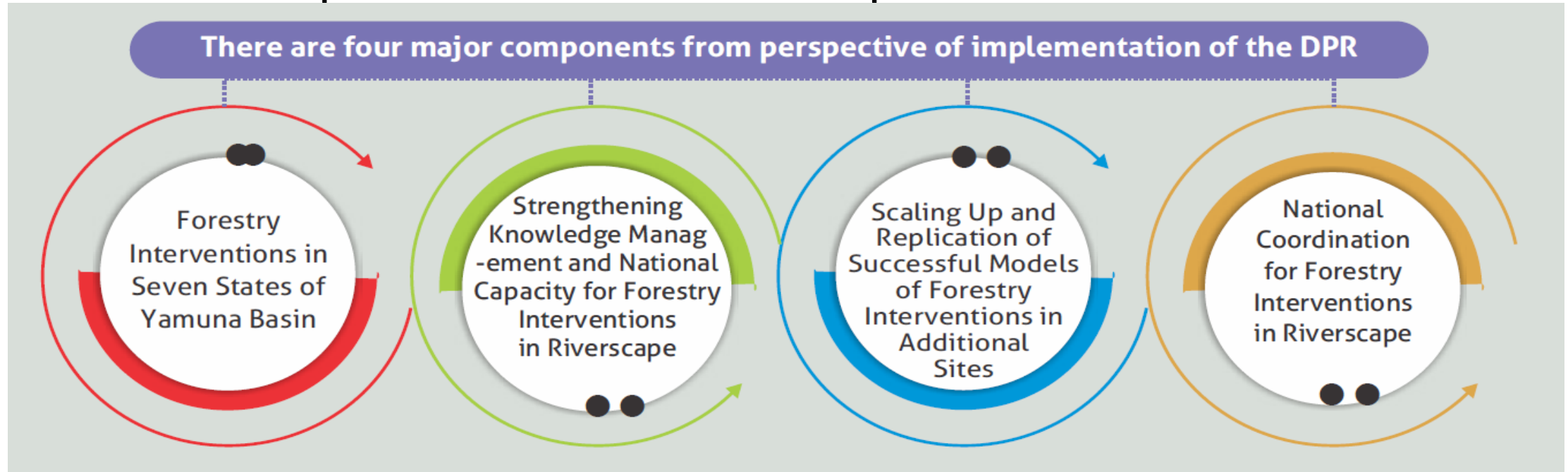
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Implementation Perspectives of DPR



Potential Benefits

Benefits	Quantity
Estimated CO ₂ capture:	a) 10 Years: 1.69 Mt yr ⁻¹ b) 20 Years: 2.12 Mt yr ⁻¹
Water recharge/ground water recharge:	452.38 MCM yr ⁻¹
Sedimentation-reduction:	1,373.98 thousand m ³ yr ⁻¹
Non-timber and other forest produce:	Rs. 6,682.98 lakh yr ⁻¹
Man-days to be generated over the project period:	74.69 million