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Narmada Landscape Restoration Project

-Kargone & Indore,
Madhya Pradesh
INDIA



The four-year project aims to demonstrate the impact of sustainable landscape practices on water quality and quantity in selected tributaries of River Narmada. The project area is located between Omkareshwar and Maheshwar dam in Kargone district.

The project results will create a "Payment for Ecosystem Services (PES)" model where end users of water in Indore will pay to the catchment community for enhanced ecosystem services, primarily water.

NARMADA

Narmada is the lifeline for the state of Madhya Pradesh. The riverine system, however is under extreme pressure due to reducing forest cover in the catchment, increasing surface run-off, inadequate recharge of aquifers, over extraction of water for irrigation, poor water quality due to fertilizer intensive agriculture and increasing demand to supply water to urban population like in Indore.

Environmental Impacts

Livelihood Impacts

Economic Impacts

THE PROJECT OBJECTIVES

- To develop capacities and provide incentives for sustainable landscape management by local communities in the upland watershed (north and south bank)
- To create awareness of the importance of ecosystem services and sustainable landscapes management
- To develop a PES model based on sustainable landscape management practices



CURRENT SCENARIO

- Indore's demand for water from Narmada will increase by 23% in 2024.
- Increasing cost to supply adequate water for domestic and industrial use
- Increasing cost of building grey infrastructure to clean the water
- Excessive erosion in the river watersheds
- Irrigation channels running dry
- Decrease in the level of ground water by 100m
- Degradation of fertile top soil
- Indiscriminate use of Fertilizers and Agro-Chemicals
- Health impacts of fertilizers & pesticides

PROJECT HIGHLIGHTS



JFMCs & SHGs
STRENGTHENING



WOMEN
EMPOWERMENT



COMMUNITY
PARTICIPATION



MARKET LINKAGE FOR
ORGANIC PRODUCTS

MAJOR BENEFICIARIES



Farmers



Forest
Communities



Government



Urban
Population

PROJECT PROCESS

1

Baseline survey
& stakeholder
consultation

2

Develop and
Implement Watershed
Management Plan for
10000 hectare

3

Adopting
Sustainable
Landscape
Management

4

Market Linakge
for Organic
Growers through
FPO

5

Development
of Incentivization
Mechanism

6

Designing of
Incentivization
Scheme

ESTIMATED IMPACTS OF NLRP

25% reduction in run off pollution

20% increase in quantity of water

Training of 500 Beneficiaries.

Enhanced understanding about ecosystem services to 70% of the participants

Water Conservation

- Natural resource management infrastructures
- Efficient irrigation systems
- Increased ground water recharge

Livelihood

- Livelihood diversification for catchment communities
- Reduced exposure from harmful chemicals
- Improved income from PES

Forest Landscape

- Sustainable agroforestry practices
- Improvement in soil retention capacity
- Increase in forest cover
- Sustainable Non Timber Forest Produce (NTFP) collection
- Strengthened Joint Forest Management Committees (JFMC)

Restoring 10,000 hectares of mixed landscape including forest and agriculture cover

Agriculture Landscape

- Improved land structure
- Increase in soil organic carbon
- Increased use of bio fertilizers and bio pesticides
- Certified organic products

NLRP'S CONTRIBUTION TO THE SDG GOALS



Payment For Ecosystem Services (PES)

- PES refers to the variety of arrangements through which the beneficiaries of environmental services, from watershed protection and forest conservation to carbon sequestration reward those whose lands provide these services with subsidies or market payments.

BENEFICIARIES



Urban Communities like Indore



Industries



Municipal Cooperation

- Surplus price for the organic products produced by the Agriculture & Forest Communities

- Payments to Forest and Agriculture Community in the river catchment for adoption of Sustainable practices that ensure ecosystem services like water

PES

PAYMENT FOR ECOSYSTEM SERVICES

ECOSYSTEM SERVICES

- Clean and adequate water for Indore Municipal
- Reduced cost of treating water for municipal supply
- Water security against increasing demand for water in the long run



Forest community

MAHESHWAR DAM



OMAKRESHWAR DAM

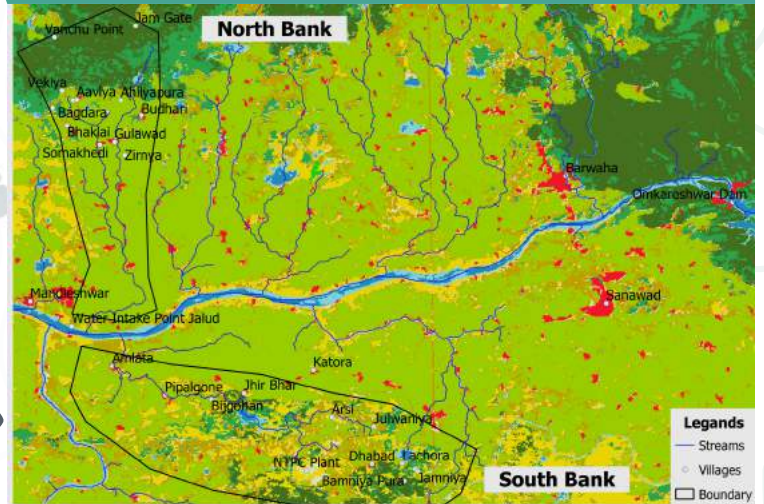


RIVER NARMADA

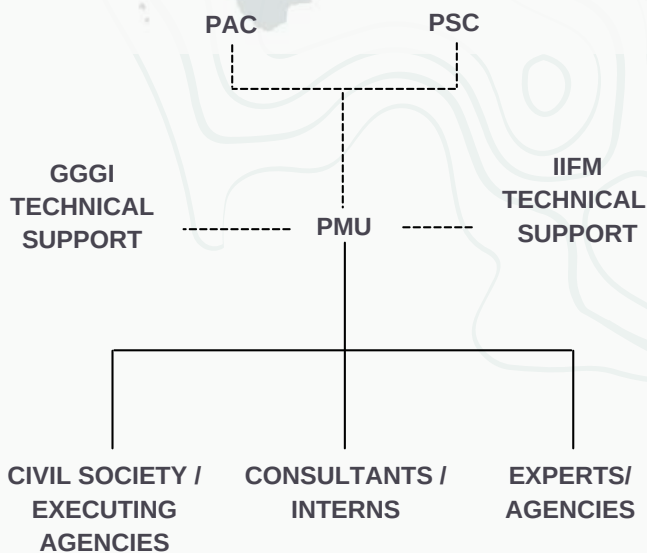


Agricultural communities

PROJECT AREA



PROJECT MANAGEMENT STRUCTURE



Project Appraisal Committee (PAC) will assess the progress of the project and guide future steps. Members include:

- Divisional Commissioner, Indore (Chairperson)
- District Magistrate, Khargone
- Divisional Forest Officer, Barwaha Division
- Commissioner, Indore Municipal Corporation
- Designated Representative of GGGI, USAID, NTPC Ltd & IIFM
- Representative ICFRE as special invitee
- Representative MoEF&CC as special invitee
- Chief of Party- Convener

Project Steering Committee (PSC) is entrusted with providing strategic support to the Project Monitoring Unit (PMU). Members include Designated Representative of

- USAID
- NTPC Ltd
- GGGI
- IIFM

FUNDING PARTNERS



United States Agency for International Development (USAID) is the world's premier international development agency and a catalytic actor driving development results. **USAID is supporting NLRP under India Partnership Program.**



NTPC Limited is India's largest energy conglomerate with plans to become a 130 GW company by 2032. **NTPC is supporting NLRP under its CSR policy.**

IMPLEMENTING PARTNERS



Global Green Growth Institute is an intergovernmental, international organization that promotes economic development with environmental sustainability and social inclusion, **GGGI has set up a PMU to implement the NLRP.**



Indian Institute of Forest Management, Bhopal is an autonomous body initiated by Ministry of Environment, Forest and Climate Change, Government of India. **IIFM is the implementation partner in NLRP.**

NLRP, Chief of Party

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