

Project under Green Climate Fund (GCF)



Environmental Planning and Coordination Organization, Department of Environment,
GoMP Paryavaran Parisar, E-5, Arera Colony, Bhopal

LANDSCAPE APPROACH BASED PILOT PROJECT ON DEVELOPMENT OF CLIMATE-SMART FARM & FOREST COMMUNITIES IN
SELECTED VILLAGES OF BETUL DISTRICT IN MADHYA PRADESH.

Project Name/Title: Landscape approach based pilot project on Development of Climate-Smart Farm & Forest communities in selected villages of Betul District in Madhya Pradesh.

Name of the Implementing Institution	<p>Additional Information on the contact details:</p> <p>Madhya Pradesh State Knowledge Management Centre on Climate Change (MP SKMCCC), EPCO, Department of Environment, GoMP Paryavaran Parisar, E-5, Arera Colony Bhopal-462016, (MP) India Telephone : +91 7552466859 Email: epcoccc@gmail.com</p> <p>Project in-charge Mr. Lokendra Thakkar Coordinator, MP SKMCCC Mobile: +91-9826377429 Email: lokendrathakkar@gmail.com</p> <p>Project duration: 6 years from the date of fund received</p> <p>Website: http://www.climatechangeportal.mp.gov.in</p>
Name of the Executing Institution	<p>Additional Information on the contact details:</p> <p>Project in-charge Chief Executive Officer, Zila Panchayat, Distt.- Betul , MP Telephone: +91 7141 - 230035</p>
Details of Project	<p>Project Cost- INR 31.00Crores</p> <p>The proposed pilot will be designed and implemented using a landscape approach (also referred to as an ecosystem approach) covering all types of land uses including agriculture, forestry, grass lands and waste lands in selected bloc/s and villages and help them adopt climate change mitigation and adaptation framework using the following ten principles: (Extracted from Article by Jeffrey Sayer et. al., at http://www.pnas.org) 1. Continual Learning and Adaptive Management, 2. Common concern entry point, 3. Multiple scales, 4. Multi-functionality, 5. Multiple Stakeholders, 6. Negotiated and transparent logic 7. Clarification of Rights and Responsibilities, 8.</p>

	<p>Participatory and User-friendly monitoring, 9. Resilience and 10. Strengthened stakeholder capacity.</p> <p>Project objectives-</p> <p>The main objective of the proposed pilot is to implement the landscape (or ecosystem) approach to reconciling agriculture, forestry, conservation of other competing land uses in selected villages and, based on the experience gained, develop replicable concepts and tools for dealing with climate change adaptation and mitigation challenges at the levels of agricultural and forest communities across various agro-climatic zones of Madhya Pradesh</p> <p>Project expected outputs/deliverables-</p> <p>Increased resilience of-</p> <p>Most vulnerable people and communities (E.g. mitigation of operational risk associated with climate change – diversification of supply sources and supply chain management, relocation of manufacturing facilities and warehouses, etc.)</p> <p>Health and well-being, and food and water security (E.g. climate-resilient crops, efficient irrigation systems, etc.)</p> <p>Ecosystems Conservation and Ecosystem services (E.g. ecosystem conservation and management, conservation, sustainable management of forest)</p>
<p>Project Relevance</p>	<p>A landscapes approach entails viewing and managing multiple land uses in an integrated manner, considering both the natural environment and the human systems that depend on it using the ten principles. The pilot will focus on enabling agricultural, forestry and landless communities to use, conserve and manage natural resources including agricultural land, soil health, water, grasslands, waste lands, and forests – more efficiently and sustainably.</p>
<p>Project Summary / Abstract</p>	<p>The pilot project will be implemented by district administration of Betul with participation of higher level state government departments, and state and national level agencies (missions). The project will have significant participation of private sector entities including farm and forestry communities, individual households and their organizations, and cooperatives.</p>
<p>Project methodology, work plan</p>	<p>The key sectoral intervention/ strategies for adapting to climate change are the focus of the project. Major Project Activities include processes like;</p> <p>Selection of project sites: Project site was selected on the basis of the climate change vulnerability analysis report. As per the Madhya Pradesh Vulnerability Assessment Report, the composite vulnerability index based rank of the district in the baseline scenario is 23 (high vulnerability), which, in the mid-century, is projected to increase to 28 (high vulnerability) and 29 (high vulnerability) in the end-century.</p> <p>Institutional Support: The project concept has been approved by the State Steering Committee headed by Chief Secretary, GoMP.</p>

	<p>Series of consultation workshops was organized to ensure the involvement at state, district and village level.</p> <p>Target groups: Small and Marginal farmers, fishermen, and forest based community.</p> <p>Project Interventions:</p> <p>The project envisages a landscape based approach in which each cluster comprising 5 villages includes one forest village. This will enable an integrated approach to address the vulnerabilities of the population and ecosystem.</p> <p>The project seeks to address agricultural concerns through climate-smart agricultural interventions. These include the following:</p> <p>(a) Nutrients Smart: Soil and nutrient management including zero or minimal tillage, laser land levelling or terracing; leaf colour chart, integrated nutrient management to improve soil quality and health.</p> <p>(b) Water Smart: Water shed treatments, water management (rainwater harvesting, groundwater conservation through construction of lined farm pond, Broad bed Furrow, drip irrigation).</p> <p>(c) Seed and Crop Management: Drought resistant seeds of cereals, legume and forage crop with horticulture; Agro-forestry and pasture.</p> <p>(d) Carbon Smart: Crop residue management, direct seeding rice, cover crops.</p> <p>(e) Grassland management</p> <p>The proposed pilot will work on following broad themes which also the contemporary management issues are pertaining to the forest, environment and development sectors.</p> <ul style="list-style-type: none"> • Community, Livelihood and Socio-economic Sustenance; • REDD+: conservation, sustainable management of forests and enhancement of forest carbon stocks in forest village. • Ecology, Biodiversity, Sustainable Natural Resource Management (NRM); • Balanced extraction of Non-Timber Forest Products (NTFPs) • Afforestation and Plantation Management; • Forest-Food Linkages, Value addition, Entrepreneurship, Marketing and Financial Inclusion;
<p>Project Implementation results</p>	<ul style="list-style-type: none"> - Reduce pressure on natural resources hence maintain biodiversity for ecosystem services. - Social development - Enhancing resilience of community and ecosystems
<p>Project benefits</p>	<p>The project does focus on building long term Climate Resilience with the adaptation led sectoral interventions to take the rural development through a low carbon development pathway as well as the Training and Capacity building of the rural communities to bring environmental awareness with reference to climate change that will play an essential role in long term benefits for the communities.</p>
<p>Project long term climate benefits</p>	<p>The long term benefits of developing climate smart villages will be in terms of having developed adaptation capacities in key sectors of Rural Development ; Water, Agriculture and Energy.</p>
<p>Project Sustainability</p>	<p>The project on LANDSCAPE APPROACH will provide a valuable solution for combating global climate change. And allowing forests to continue sequestering carbon and re growing at current rates can provide all mitigation actions.</p>