

# Climate Change Adaptation in Rural Areas - India

## Objective

To strengthen capacities of stakeholders for integrating climate change adaptation into national and state development planning.

## Approach & Output

### 1. Technical Support at National Level

Supporting MOEF&CC in various climate change programmes and policies such as revising SAPCCs as per India's Nationally Determined Contribution (NDC) & Sustainable Development Goals targets; policy support on Climate Risk Management (CRM) issue and Monitoring and Evaluation of CCA measures.

#### Climate Risk Management (CRM)

- Developed a framework for CRM with National Institute of Disaster Management (NIDM) with focus on assessing and addressing loss and damage due to climate change. This was piloted in Himachal Pradesh and Tamil Nadu focusing on integrated vulnerability & risk assessment of key sectors including rural infrastructure, agriculture, NRM-based livelihood and adaptation actions.
- Supported MoEF&CC in organising a national workshop on Loss & Damage on April 16, 2019 under the chairmanship of Add. Sec. to the Prime Minister at Vigyaan Bhawan.

#### State Action Plans on Climate Change (SPACC) review

- Supported partner states in revising their SPACCs. The revision process focused on mainstreaming of climate concerns into sectoral schemes, plans and programmes, aligned with Nationally Determined Contributions (NDCs), Sustainable Development Goals (SDGs) and latest climate science projections.

#### Monitoring and Evaluation (M&E)

- Developed a framework for M&E of CCA projects in India that allowed aggregating the outcomes of CCA interventions at local, state and national levels.
- The M&E framework generated learnings from CCA-RAI demonstration projects.

Commissioned by	Federal Ministry for Economic Cooperation and Development (BMZ)
Project Region	Himachal Pradesh, Punjab, Tamil Nadu, Telangana
Lead Executing Agencies	Ministry of Environment, Forest and Climate Change
Duration	10/2015 – 12/19

### 2. Demonstrating Approaches on Adaptation

Supported the following approaches to integrate climate change into local development planning and build resilience of vulnerable communities :

- Implementing of nine demonstration projects based on the SAPCC's priorities in partnership with climate change nodal agencies.
- Strengthening the climate resilience of rain-fed agriculture dependent communities in drought prone area of village Kandraur, Distt Bilaspur, HP.
- Enhancing the water use efficiency in rice cultivation and promoting farmers' collective for climate resilient agriculture in Patiala & Monga, Punjab.
- Improving the livelihood of farmers in rainfed areas by enhancing climate resilience in red gram and groundnut value chain; Telangana.
- A Demonstration project on an eco-village scheme in Himachal Pradesh.
- Aided in Eco-system based climate proofing watershed in Jawadhu hills, Thiruvannamalai, Tamil Nadu.
- Provided Agro-advisory services to farmers in identified districts in Telangana and Tamil Nadu using Network for Information on Climate (Ex) Change (NICE) platform.
- Support to Punjab NAFCC project on index based insurance component, Punjab.
- Enabling farmers' collective action for managing climate risks through climate resilient agriculture and NRM in Krishna River Basin, Telangana.



### 3. Accessing Climate Finance

Provided technical support to selected States and Union Territories for accessing fund from various international /national climate finance namely National Adaptation Fund for Climate Change (NAFCC), Green Climate Fund (GCF) etc.

- Supported 7 projects (6 states and 1 regional projects) which accessed 2.42 Billion INR (30 Million Euro) from National Adaptation Fund on Climate Change benefiting approx. 1,36,648 small and marginal farmers.
- Developed a guidebook for preparation of adaptation projects with alternate funding options through private sector ; a report on innovative financing instruments for mobilising finances for CCA actions ; and innovative concepts for accessing climate finance especially focusing on NAFCC.

### 4. Capacity Development at State Level and Knowledge Management

Supported capacity development of relevant stakeholders (political decision makers, private sector, academia and civil society) at the state level on planning and implementing evidence-based CCA; accessing climate finance for operationalising climate change interventions; monitoring and evaluating CCA measures.

#### Capacity building programmes on CCA

- Supported state climate change nodal agencies/ departments in organising 54 multi-level capacity development programmes focusing on evidence-based planning, financing and implementation of priority climate adaptation measures at state level.
- Established Climate Studio-state of the art climate high computing research and training facility at Centre for Climate Change and Disaster Management, Anna University, Chennai to address climate information needs for diverse stakeholders.
- Organised 9 consultations on climate change reporting and sustainable development for media at national and state levels ; and 20 knowledge campaigns (#we4climate) for enabling climate action in form of lecture series on climate change and sustainable development for policy makers, civil society and youth.
- Developed a trainer's guidebook on integrating climate change in development planning to support State

climate change nodal agencies/departments in the partner states in carrying out capacity building programmes.

#### Climate Vulnerability and Impact

- Developed a web-based climate change information portal ([www.climatevulnerability.in](http://www.climatevulnerability.in)) for accessing climate information from across India and vulnerability data for partner states.
- Conducted study on 'Addressing Climate Change in the Water Sector in India' on assessing vulnerability of water resources to climate change at state level for devising evidence-based adaptation strategies.
- Assessed adaptation technologies needs and practices in the water sector to address the challenges of climate change.

### Achievements & Key Outcomes

- Foster greater awareness and understanding of the importance of loss and damage as part of broader climate risk management (CRM) framework.



- Enhanced capacities of different stakeholders including policy makers, youth, media and civil society through scientific tools and frameworks which helped in better access to scientific data on climate change and also in evidence-based adaptation planning.
- SAPCCs of partner States revised in line with the targets and goals as mentioned in the NDCs and SDGs.
- Facilitated better M&E processes at national, state and local levels to monitor and evaluate climate actions.
- Empowerment of state agencies and line departments to access finance from various funding sources/ instruments.
- Promoted multi-stakeholder engagement and learning.

**Published by** Deutsche Gesellschaft für  
Internationale Zusammenarbeit (GIZ) GmbH

**Registered offices Bonn and Eschborn, Germany**

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**Design Layout** Satyam Graphix, New Delhi

**Photo Credits** GIZ/CCA-RAI

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**As at** November 2019

GIZ is responsible for the content of this publication.

**On behalf of** Federal Ministry for Economic  
Cooperation and Development (BMZ)

**In cooperation with**

