Climate Change Adaptation
GIZ Experiences

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01/05/2015
Climate Change Adaptation – North Eastern Region (CCA-NER)
Partner States in the North Eastern Region

- Sikkim
- Meghalaya
- Nagaland
Highlights

Springshed development and Village Water Security Plans (VWSP)
Hydro-geological map of the Tendong Hill Region

Identification of recharge zones
Soil Water Conservation in target recharge zones

Monitoring of base flows
Village Water Security Plan of Kitam Village, South Sikkim
Vulnerability Assessment at Gram Panchayat level
Capacity Building, Knowledge Sharing and Leverage

Capacity building
1. Hydro-geological Assessments
2. Participatory processes for VWSPs
3. Monitoring of base flows

Handbook on Dhara Vikas – a step by step manual for springshed development

Share learnings with other states and countries
Arunachal Pradesh, Himachal Pradesh, Meghalaya, Nagaland, Bhutan, WWF-Nepal

Softcopy can be downloaded from www.sikkimsprings.org
Highlights

Springshed development and Village Water Security Plans (VWSP)

- Hydrogeological assessment for targeting recharge zones.
- Convergence with national flagship programmes like MGNREGA and National Rural Drinking Water Programme (NRWDP).
- VWSP for 5 Gram Panchayats including Kitam village.
- Need based capacity building for hydro-geological assessments.
- Training of Panchayats, BDOs of all districts on Dhara Vikas organized by RM&DD, funded by UNDP with technical support from GIZ.
- Exposure Visits: Govt. officials from Bhutan, Meghalaya and Nagaland
- 10 VWSPs carried out through UNDP funds and GIZ technical assistance
- RM&DD, NRDWP is under process of developing 50 more VWSPs in drought prone areas of Sikkim
- RM&DD in consultation to implement recommendations of Kitam VWSP through Saansad Adarsh Gram Yojana
- VWSP guidelines being prepared
Highlights

Oak forest regeneration, preservation and management

- Mapping of oak forests,
- Collation of information on oak envelopes
- Modeling for oak species distribution in a changing climate regime (with regionally downscaled climate models)
- Development of oak regeneration, preservation and management draft handbook
- Multi stakeholder consultations on oak conservation
- Officials of the Sikkim Forest Department trained on oak mapping using satellite remote sensing and GIS techniques
Highlights

Eri-silk value chain

- Experimentation with process in production of Eri silk (spinning & weaving) and diversification of color shades using natural dyeing
- Improvement in the pre-loom process leading to softer finished product
- Design parameters documented
- Standardization and documentation of best practices
- Training manuals developed and weavers trained
- Integration into State Sericulture Mission
- Showcasing of improved process and finish products during International Terra Madre 2015
- Replication of model by weavers to other districts
- Credit linkage with financial institutions
- Establishment of market linkages
Highlights

Integrated State Water Policy

- Technical support, stakeholder and consultations organised and supported by GIZ
- Formulation of Integrated State Water Policy complete
- Policy endorsed in principle by Government of Meghalaya
- Policy shared at various fora at state and national level
- Replication of process for Nagaland and Sikkim based on requests from the respective states
Highlights

Indigenous rice value chain in Nagaland and Meghalaya

- Improved understanding on preservation of local rice diversity as a mechanism to adapt to climate change thereby ensuring cereal security
- Mapping of state and national rice research institutions

In Nagaland:
- 64 varieties of rice seeds collected, shared and tested

In Meghalaya:
- Sensitization of extension workers
- Joint pilot trails, joint field monitoring
- Extension workers trained
- Trails conducted in three villages, voluntary participation of farmers for trails

Next steps:
- Introduction into farmer based participatory breeding
- Improved marketing
- Upscaling of learning to other districts in partnership with Agriculture Department
State Action Plans on Climate Change in Meghalaya, Nagaland, Sikkim

- Technical support, stakeholder and consultations organized and supported by GIZ
- SAPCCs endorsed by MOEFCC
- Easy readers developed for wider understanding and dissemination
- Sikkim: Request for review of SAPCC to include sectors that were not adequately addressed in the endorsed SAPCC (One of the very first states to issue such a request)
- Regional proposal formulation seminar on SAPCC priority areas to be funded by North Eastern Council
Human Capacity Development in Meghalaya, Nagaland and Sikkim

Objective

Training of trainers (training cascade)
- State, District and Community level trainers (community awareness raising by community level trainers)
- Need based
  - State based, Demand driven
- Tailor-made
  - TNA
  - Joint trainings
  - Exposure visits
  - Hand-picked institutions

Knowledge center
- Data collection, knowledge sharing, dissemination
- Vision, mission, roles and admin. set-up
- Joint workshops

Target group
- Communities
- Government officials
- Government institutions
- Governments, training / research institutes, NGOs
3. Overview

Madhya Pradesh

- Climate proofing a rural development programme for fish farming in Dhar district (implementation partner TAAL)

- Eco-restoration through institution strengthening, sustainable forest management and agriculture management in Mandla district (implementation partner FES)

Rajasthan

- Integrated Group Pasture Management for livestock rearing, in Udaipur district (implementation partner AFPRO)

- Sequential Stabilization of Sand dunes, in Jaisalmer district (implementation partner Rajasthan forest department)
3. Overview

Tamil Nadu

Integrated Mangrove Fishery Farming System in Cuddalore district (implementation partner: MSSRF)

Tank Silt Application and Rainwater Harvesting, in Madurai district (implementation partner: DHAN Foundation)

Rehabilitation of coastal habitats in Tuticorin district (implementation partner: SDMRI)

West Bengal

Livelihood diversification through Integrated Production Systems, in Malda & Murshidabad districts (implementation partner: DRCSC)

Introducing salt-tolerant species and preparing for disasters, Mousini island Sundarbans (implementation partner: WBUAFS and WWF)
Thank you for your kind attention!