

# FACTSHEET

# CLIMATE SMART VILLAGES

*Scaling Up Resilient Agricultural Practices, Technologies and Services in the Vulnerable Areas of India*

USAID/ India has partnered with The CGIAR Research Program on Climate Change, Agriculture and Food Security (CCAFS), South Asia, for a four-year intervention (October 2016 – September 2020) to scale out weather-resilient agricultural interventions through the Climate Smart Village (CSV) approach. The focus was on a basket of synergistic options, rather than on single technology to improve cropping and livestock development in targeted areas as a means of enhancing resilience to climate variability. Scaling through local institutions and convergence with government programmes has been a key strategy to promote resilience building at a larger scale. CCAFS provided technical leadership and overall guidance to BAIF (an NGO) which was implementing the project on the ground. The project demonstrated a portfolio of weather resilient technologies, practices and services in 75 villages of Uttar Pradesh (Mathura district), Bihar (Nalanda district) and Madhya Pradesh (Betul district).

## PROJECT OBJECTIVES

- 1 To scale out weather resilient agricultural technologies, practices and services 75 clusters of villages in eastern India; Bihar, Uttar Pradesh, and Madhya Pradesh to build additional evidence for scaling out weather-smart agriculture
- 2 To develop new business and institutional models on the CSV approach involving local organizations, agriculture departments and the private sector (input suppliers, insurance and ICT companies, and agri-business entrepreneurs) to reach scale
- 3 To reach scale by strengthening the capacity of farmers-producers' groups (FPOs), local organizations (community-based organizations and NGOs), agencies dealing with CSR Funds, national and international weather adaptation funds, local government involved in adaptation to weather change in implementing CSV approach
- 4 To promote South-South cooperation to enable other developing countries (especially Nepal and Bangladesh) to adopt and learn from lessons in India for reaching scale in their own countries on weather-smart agriculture

## PARTICIPATION IN THE PROJECT

### Betul

Tribal district, gender hotspot, prone to drought (monsoon), heat wave and increased hailstorm frequency (winter)

### Mathura

Livestock focused, prone to excess rains (monsoon) and increased hailstorm frequency (winter)

### Nalanda

Prone to pre-monsoon drought (monsoon) and increased average temperatures (winter)



Project Location

# PROJECT FOOTPRINTS

## SCALING CLIMATE SMART VILLAGES



- More than 11,250 farmers benefitted from a suite of 16 climate resilient agricultural technologies and best practices in 75 villages through three portfolios of Super Champion, Champion and CSA.
- Established 4,200 number of demonstration plots covering 627 Ha of agricultural land through 75 farmer-led Climate-Smart Village Committees.
- Overall average yield improvements of 69% with 96% improvements in gross incomes (\$819 per hectare) four seasons and key crops (Rice, Wheat, Bajra and Gram) in demo plots.
- Improved average nutrient use efficiency by 140% and 55% reduction in overall CO2 emission per ton of crop production across four seasons and key crops (Rice, Wheat, Bajra and Gram) in demo plots.

## BUILDING INSTITUTIONAL MODELS



- Established 13 Custom Hiring Center (CHC) involving 136 women farmers through a business-oriented technology transfer model.
- More than 800 farmers used agricultural machinery over 387 hectares of cropped area.
- Established 3 Cattle Development Center (CDC) to scale out agricultural machinery and livestock focused interventions at community level benefitting more than 6,200 farmers.
- Converged an amount of approximately INR 393.04 lakhs (approx. \$537,478) through multiple government schemes benefitting 12,786 farmers.
- 11,250 farmers got access to ICT based agro-advisory and weather information.

## STRENGTHENING STAKEHOLDER CAPACITY



- The project held 444 trainings and 84 farmer field schools (FFS), farmer fair & exposure visits activities.
- Total 3,314 farmers registered to insure key crops under The Pradhan Mantri Fasal Bima Yojana (Prime Minister's Crop Insurance Scheme) as a result of awareness campaigns.
- Trained 18 Community Resource Persons (CRP) who will continue to be a common link among stakeholders beyond project life.

## PROMOTING SOUTH-SOUTH COOPERATION



- Conducted two events with 75 stakeholder including representatives from the scientific community, government, NGOs and donor agencies from four major South Asian economies, including India, Nepal, Bangladesh and Bhutan.
- Presented project related results in three global and regional conferences and featured in four high impact publications.

## GENDER INTEGRATION



- The project has involved more than 4,500 women farmers across different activities.
- A total of 318 women farmers are engaged in entrepreneurial activities through 182 enterprises as a result of capacity building and institutional development interventions.
- Women participation in training and capacity building activities improved from 17% to 40% during the project period.
- Key outcomes include improvement in agency, leadership and community participation, increased incomes and reduced drudgery.

## SUSTAINABILITY



- Community ownership through 13 CHCs, 3 CDCs, 182 enterprises, farmers contributions (up to 25% of technology cost) will continue to benefit at least 11,250 beneficiaries beyond project life.
- Horizontal and vertical linkages including implementation of convergence plans have the potential to reach up to 0.5 million farmers across three districts.

### Acknowledgment and Disclaimer:

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