



RESEARCH PROGRAM ON
**Climate Change,
Agriculture and
Food Security**



TERMS OF REFERENCE
FOR
END-LINE SURVEY
for the project
**‘Scaling Up Resilient Agricultural Practices,
Technologies and Services in the Vulnerable Areas
of India’**

CGIAR RESEARCH PROGRAM ON CLIMATE CHANGE, AGRICULTURE AND FOOD SECURITY (CCAFS)
INTERNATIONAL MAIZE AND WHEAT IMPROVEMENT CENTER (CIMMYT)
NEW DELHI, INDIA

BAIF DEVELOPMENT RESEARCH FOUNDATION
WARJE, PUNE, INDIA

Introduction

USAID/ India has partnered with Climate Change, Agriculture and Food Security (CCAFS), South Asia (CCAFS), for a 30 months' intervention (July 2017 – Dec 2020) to scale out weather-resilient agricultural interventions through the Climate Smart Village (CSV) approach. The focus is generally 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. CCAFS provides technical leadership and overall guidance to BAIF (an NGO) which is implementing the project on the ground. The project has 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).

The key goal of this project is to use global and regional knowledge and skills to build resilient agricultural production system in food insecure and vulnerable areas of the Ingo-Gangetic Plain (IGP) region through Climate Smart Village (CSV) approach. The focus is generally on a basket of synergistic options, rather than on single technologies. Major activities include: i) strategic design of land use options including priority crops, technologies and practices based on agro-ecological analysis and farmer typologies, ii) promoting weather resilient technologies and maximizing synergies among interventions; iii) providing value-added information services including insurance to farmers; iv) facilitating community partnership for knowledge sharing; and implementation of weather resilient technologies and scaling-out through outreach activities like farmers' fairs and videos; and vi) scaling-up through linkages with on-going government schemes and programs

Objectives of the Project

The project has four major 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 as shown in Picture 1) 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; and
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

Rationale for the End-line Study

An end line survey is needed to understand the project performance over a duration of thirty months to measure the extent of its success based on the indicators in the log-frame of the project's monitoring and evaluation plan. The finding will be utilized to assess best practices, challenges and measures to scale our interventions in other regions. It will also provide information for potential scaling of interventions through partnerships with other organizations including the government and private sector.

Objectives of the End-line Survey

The main objective of the end line survey is to analyze and assess the difference in the 'before' and 'after' scenarios and prepare an after-project/ outcome information of the target beneficiaries as per the log-frame indicators of the project.

The specific objectives of the end-line survey are as follows:

- *Farmers experience of weather smart agriculture interventions:*
Assess farmer perceptions of different weather smart interventions including technologies, practices, ICT based agro-advisory an insurance to identify best practices, success cases as well as lessons learnt
- *Resilience at household and community levels:*
Based on multiple indicators as defined in project reports including improvement in yields, income, nutrient use efficiency and reduction in emission along with other social indicators
- *Farmer experience with institutions:*
To assess farmers experience with different types of institutions including custom hiring centers and cattle development centers, to identify factors determining sustainability of these institutions
- *Impact of institutional membership on women empowerment:*
To assess empowerment levels of women farmers who are members of different types of institutions including Village Climate Management Committees and Custom Hiring Centers, vis-à-vis those women who are non-members
- *To understand scalability of interventions:*
Measure the extent of scale reached through adoption of weather resilient practices by project farmers in their own plots as well as by non-project farmers.

This will be analyzed for project and non-project farmers and information derived will be further utilized by the partner organizations for further analysis based on the project objectives and outcomes.

Suggested Approaches and Methodologies

An experienced consulting firm/ Team of experts will be hired to carry out this study. The study will be based on the data and information gathered from both primary and secondary sources. Secondary sources would comprise relevant project documents and district wise databases (data from government agencies if possible). Primary data will be collected from sampled beneficiary households in each of the project districts. The methodology and approaches adopted in the baseline survey of the project will be followed during the end-line survey. For selection and sampling of the households for the end line survey, same methodology as used in baseline may be used.

The project interventions have been designed for three types of farmer beneficiaries, Super Champion, Champion and CSA farmers in 75 project villages. The selection of project villages was done based on consultation with local stakeholders (NGO's and KVKs) and discussion with the farmers group. These villages represent different agro-ecological and socio-economic characteristics of the selected States. From each project village, 15 farmers were randomly selected from each stratum (based on landholding) for baseline survey.

A detailed methodology and field work schedule will be worked out in consultation with project partner organizations. The study will utilize a wide range of appropriate tools and methodologies to measure the outputs and outcomes of targeted communities/households (HHs).

For qualitative information, the survey team will analyze perceptions of beneficiaries, convergence experience, and lessons and challenges during the project and the same will be reported in the end line study. For this, focus group discussions (FGD) will be held with farmers' groups (Village Climate Management Committees and Custom Hiring Centers), and Key Informant Interviews (KIIs) with Cattle Development Center heads, NGO partner, local government representatives and senior project staff. Using these tools and interviewing various stakeholders, a comprehensive analysis of the resilience building process as well as the sustainability aspects can be undertaken.

To capture gender impact of interventions a separate questionnaire will be developed and conducted with women members of different institutions (Village Climate Management Committees and Custom Hiring Centers). Women farmers who are not institutional members and from non-project households may also be included for a comparative analysis.

Scope of Work

The study will be headed by a Team Leader (TL) accompanied by a socio-economic expert. The TL will be primarily responsible to coordinate the overall study and liaise with BAIF/CCAFS team and will work closely with the M&E Unit and the study team. The end line survey will have the following scope of work to assess the resilience and adaptability of farmers as a result of a three-year intervention in target districts:

- Plan and implement the end line survey based on the indicators defined by the project's monitoring and evaluation plan.
- Assess farmer perceptions and usage of different weather smart interventions including improved seeds, Integrated Nutrient Management, Integrated Pest Management, water use optimization, reduction in emission, ICT based weather and agro-advisories, insurance facilitation, etc.
- Changes in yields and income
- Assess farmers perception and usage of livestock development interventions through the Cattle Development Centre including breed improvement through AI services, uptake of feed supplements, etc. Seek suggestions to promote CDC from farmers and stakeholders.
- Assess farmers perception and usage of Custom Hiring Centers to promote farm mechanization, the overall pricing or machinery of rental equipment, and management of the CHC. Seek suggestions to promote CHC from farmers and stakeholders.
- Assess the capacity building/training provided to beneficiary farmers– duration of trainings, relevance of topics, feedback on demo fields and farmer field days/ exchange visits.
- Feedback on capacity building of local organizations (community based organizations and NGOs), private sector organizations, local government involved in adaptation to weather change in implementing CSV approach
- Focus on achievement of project's purpose and goal at the households and community level and highlight lessons learned throughout the project.
- Assess gender inclusive interventions: empowerment levels of women farmers who are members of different types of institutions including Village Climate Management Committees, Custom Hiring Centers and Village Climate Committees, vis-à-vis those women who are non-members; women farmers engaged in the project for cropping, livestock and micro-enterprise related activities
- Assess micro-enterprises promoted by the project- CHC, IPM, INM, etc.
- Assess the component on convergence of project activities with government programs, both from the perspective of end-beneficiaries and government officials involved in the process.
- Assess the component on South- South cooperation
- Scalability and sustainability of project interventions – the likelihood of beneficiary farmers continuing with climate resilient technologies and practices, and support by local institutions to take it forward.
- Process-orientated and explanatory in nature.

- Focus on goals and earnings, testing assumptions about how the project worked and what did not work, and suggest activities that might be replicated, in what contexts and why
- Develop qualitative case studies to capture the overall outcome of project interventions

Consulting Institution Eligibility Criteria

The consulting institution should have experience on qualitative and quantitative research; clear understanding on research methodology and experiences on using different social research tools and techniques. Work experiences in rural areas of the country will be an added advantage. TL should have prior knowledge in agriculture or rural development or social sciences with experiences of having conducted at least 3-5 numbers of project surveys of agricultural development projects

Study Areas

The study will be carried out across 75 villages (25 in each district) in all the three project intervention districts. These include Mathura district in Uttar Pradesh, Nalanda district in Bihar and Betul district in Madhya Pradesh.

Study Timeframe

The study procedure will commence from end of December 2019 and would be completed By April 2020. The agency will be expected to complete the assignment within 2-3 months of being awarded the contract.

Submission of Project Proposal

Complete proposal must include detail Technical and Financial components.

Submission Deadline: 25th Jan, 2020

Submit proposal to:

Dr. Rajeshree Joshi,

BAIF Development Research Foundation,

Dr. Manibhai Desai Nagar, Warje, Pune - 411058

An electronic version of the technical and financial proposal can be submitted via email to:
eo@baif.org.in

Sl. No.	Project Name	Project Period	Contract Identification and Title	Name, address, email, phone, fax and web address of Employer	Total Contract Amount in (INR)	Brief Description of the consulting services Executed by the Consulting firm / member(s) of Consulting firm	Role of Consulting firm /member(s) of Consulting firm (Lead/Non-lead)	Country of Project Implementation (in reference to country of constitution of the consultancy firm)

Work Experience in Similar conditions*

List down the name of project /contract where your firm has worked in similar conditions (i.e Similar scope)

Sl. No.	Name of Project	Contract identification & Title	Short scope of the assignment/ TOR	Type of Employer/ Client (Govt./ semi Govt.)	Country of implementation of service

*Please enter as many rows as applicable

Available professionals

The consulting firm should provide the list of suitably qualified professionals to meet the requirements specified in EOI.

1. Please attach CV with photograph and educational certificates (Bachelor and higher degrees) of each key professional (As Annexure)
2. Please attach experience certificates or letters from previous and current employers as evidence of professional experience [As Annexure].