

TERMS OF REFERENCE – SERVICE AGREEMENTS

1.- Main Objective/Background:

The Project: The project will be implemented in Bihar state. Potato production with zero-tillage and rice straw mulch (PZTM) was originally demonstrated in China as an innovative way to intensify agricultural productivity by using the short winter fallow period between rice crops enabling rapid re-planting and using superfluous residues from the previous rice crop. This technique is potentially appropriate for any rice-growing area with cool winter seasons where straw is abundantly available after the rice harvest and due to its simplicity, easy to adopt by smallholder farmers. There are several examples of ongoing studies generating evidence of PZTM contributing to the growing number of agroecological approaches. For instance, through the World Bank-funded Assam Agribusiness and Rural Transformation Project (APART), CIP introduced PZTM through demonstration trials in Assam and has since implemented successful demonstration trials in Odisha and included PZTM in all India trials in collaboration with CPRI in 2021.

The Socio-economic component. Important aspect of the project will be the analysis of adoption of PZTM on socio-economic and environmental outcomes. A randomized controlled trial will be implemented in 3 districts in Bihar (Patna, Nalanda, Rohtas) in about 150 randomly selected villages, and 10 households each (Total N=1,500). The baseline study is expected to be implemented mid 2022. An endline survey is planned for in 2024.

2.- Technical Specification of the item:

- Conduct surveys of 1,500 households across 150 villages in 3 districts in Bihar as per the selection made and shared by CIP/WITS project team
- Tentatively, districts are: Patna, Nalanda, Rohtas
- Translate and digitize the questionnaire in a tool as determined jointly with CIP/WITS project team. The collaborator has to convert the questionnaire from MS Word into the digital alternative using tools such as SurveyCTO, Kobo Toolbox or their own (if any) with support and feedback from the CIP/WITS project team and translate in Hindi to be used for the data collection process.
- Lead the selection and mobilization of enumerators and supervisors (including females) to form data collection teams. Make sure that 2 external people chosen by CIP/WITS study team will be involved as supervisors and be part of data collection team.
- In every village, 10 households will be interviewed. Each survey is expected to last for 2 hours approximately.
- Lists of villages will be provided by CIP/WITS project team. In each village, stratified household lists will need to be established using census methods. Additional demographic and socio-economic characteristics will need to be collected.
- Provide tablets to the enumerators.
- Provide training to the enumerators, in Bihar, on the survey, methodology and also the usage of the tabs for data collection.
- Conduct the pilot testing of the questionnaire.
- Identification of households to be done by randomly selecting 10 households from census lists.
- Organize logistics of field data collection, including the timing, travel and accommodation of the enumerators.
- Supervise field data collection and ensure that data are collected efficiently, accurately and in a timely manner
- Supervise data and ensure that data are sent to the Project Collaborator (CIP/WITS) periodically
- Communicate schedules of the enumerators and the supervisors to the Project Collaborator
- Ensure that the data collected is regularly reviewed and checked for accuracy, completeness, and quality
- Ensure that all data protection guidelines are followed to ensure respondent confidentiality

- Ensure that surveys are conducted in all 150 villages and any other support needed for successful implementation of study is provided.

3.- Deliverables and dates for delivery (place):

- Provide translated version of questionnaire
- Provide census lists of farmers in selected villages
- Provide report/presentation for enumerator training
- Share collected data periodically (interval to be discussed)
- Share database for collected data for baseline (Q3-2022) and endline (Q1-2024).

4.- Contract Coordinator (PI):

Marcel Gatto

5.- Total Cost:

6.- Project:
1475-GIZ0

7.- Distribution of the contract value by cost center:

8.- Duration of the contract (start and end date):

June 2022 with data collection for baseline to tentatively start in September 2022. Endline survey to be conducted Feb/March 2024.

9.- Other comments: