Project: Developing Climate Inclusive Potential Loss and Damage Assessment Methodology for Flood Hazards

Regional Workshop on Climate Inclusive Flood Impact Assessment (CLIF-IA)

Venue: Renuka City Hotel, Galle Road, Colombo, Sri Lanka
Date: 13-14 September 2016
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1. BACKGROUND OF THE PROJECT

ADPC in collaboration with Deakin University (Melbourne, Australia), Department of Meteorology (Sri Lanka) and Small Earth Nepal (Nepal) has been implementing a project on "Developing climate inclusive potential loss and damage assessment methodology for flood hazards" in Nepal, Sri Lanka and Thailand respectively. The study aims to address regional research to develop econometric methodology for estimating damage and loss due to floods in the agricultural sector, strengthening early warning system for floods and improving the methodology for flood risk assessment considering climate change. The project tends to explore science based DRR and CCA interventions to bring behavioural changes to the farming community to adapt themselves to the change in cropping calendar, crop varieties, and other climate smart technological packages. The project will go a long way in undertaking proactive measures to minimized flood disaster risks through climate smart DRR and CCA interventions. The outcomes will also help local government authorities to mainstream climate smart DRR and CCA practices for development and planning at the local government levels.

2. OBJECTIVES OF THE WORKSHOP

The aim of this Workshop is to organize an interactive discussion forum among disaster management professionals, specialists in National planning departments/ministries, sector based development planning specialists etc. from a few candidate countries which are getting frequently affected from natural disaster events such as Nepal, Sri Lanka and Thailand. This Workshop is aimed at discussing the econometric method basically differences-in-differences for estimating disaster effects and providing some basic information on the baseline collected survey data and will include the following:

- Identify main national level key stakeholders involved in conducting damage and loss estimation with regard to natural hazard for fixing the priorities at national level.
- Discussing ideas on the econometric method for estimating disaster losses.
- Identify potential issues with respect to estimation method
- Provide descriptive statistics on the baseline data
- Discussions of potential outcome variables of interest in the survey data analysis.

3. ORGANIZATIONAL SCOPE OF THE WORKSHOP

The Workshop will include discussions on econometric modelling of differences-in-differences analysis and how this will be applied to our specific case and talk about descriptive analysis of some selected variables from the baseline survey. It is expected that the Workshop will include up to 20 participants including 4 facilitators from Asian Disaster Preparedness Center (ADPC) and

Deakin University, and at least one (1) rapporteur who would be responsible for compiling all key outputs of the Regional Consultative Workshop.

4. ORGANIZATION & METHODOLOGY

The workshop will be conducted by professionals of Deakin University of Australia and Asian Disaster Preparedness Center (ADPC), Thailand.

The workshop would be structured into four sessions. In these inaugural sessions, the participants are expected to conduct a presentation. In the Plenary Session, the econometric methodology with regards to natural disaster effects would be presented in detail. In the Group Discussion Session, an interactive discussion would be facilitated to obtain overall comments and suggestions from the participants towards finalizing the method usage and addressing potential issues with respect to empirical method. Finally, the participants are expected to provide comments and suggestions that will be useful for the final round of the survey data collection. Precisely, participants would be considered as the primal resource personnel who would lead to formulate the 'Developing Climate Inclusive Potential Loss and Damage Assessment Methodology for Flood Hazards'.

- Presentation: An overview of our method of estimating loss and damage in agriculture due to climate change induced floods
- Presentation: A Hypothetical case study on how the method can estimate loss and damage
- Presentation: Method of selecting Treatment and Control areas
- Group Task 1: A discussion of the appropriateness (i.e., doing SWOT) of these selection criteria
- Presentation: Descriptive Statistics on our Baseline Survey Data
- Group Task 2: Recommendation on what we need to do during End-line survey for improving our Method
- Wrap Up

5. EXPECTED OUTCOMES

The Workshop would mainly focus on accomplishing the following key outputs:

- A Hypothetical case study on how the method can estimate loss and damage
- Discussion of the appropriateness (i.e., doing SWOT) of these selection criteria
- Descriptive Statistics on our Baseline Survey Data of the project
- Recommendation on what we need to do during End-line survey for improving our Method

6. MODE OF DELIVERY

The Workshop will be conducted in English and sessions would be carried out as much as possible in a participatory manner.

7. USE OF WORKSHOP OUTCOMES

The outcome of this Workshop would precisely provide useful inputs to finalize the most appropriate method for estimating effects of natural disasters and revise the final survey if required accordingly. Thus, the Workshop outcomes will help to revise the econometric method and survey data if needed.