



Haor Infrastructure and Livelihood Improvement Project (HILIP)

Terms of Reference (ToR)

to

Develop Pro-Poor Adaptation Pathways Framework for the Haor Region in Bangladesh

1. Introduction

Bangladesh is one of the most vulnerable countries to the impacts of climate change mainly related to saltwater intrusion from sea-level rise in low-lying plains, floods and drought particularly on the northwest and in southwest coastal and flash flood north-east areas. The *Haor* Basin, located in the north-eastern region of Bangladesh, is formed by a tectonic depression covering an area of 860,000 hectares with a population of about 20 million. The majority of the population in the Haor region is poor and a significant percentage is categorized as ultra-poor. The *Haor* region produces about 16.5% of Bangladesh's total rice production. Fishing in the *Haors* is an important income source for the local population. During the rainy season, the whole area turns into one single water-body with no demarcation of paddy lands, rivers, canals and ponds and becomes a huge treasure of fish. A recent study¹ indicates that climate change impacts in the *Haor* region will disproportionately affect subsistent farmers particularly women. Maintaining reasonably safe livelihoods in *Haor* areas under climate change scenario are becoming a major challenge for the affected groups whose lives and livelihoods depend mainly on agriculture and fishery. Climate change is becoming a great threat to national food security.

The International Fund for Agricultural Development (IFAD) is working together with the Government of Bangladesh through the Local Government Engineering Department (LGED) in addressing the impacts of climate change through the Climate Adaptation Livelihoods Protection Project (CALIP), a supplementary Project of Haor Infrastructure and Livelihood Improvement Project (HILIP). The objective of the project is to enhance the climate resilience of local communities to the impact of climate change in the target areas. The focus is on building the capacity of communities to adapt to climate change in ways that allow them to reduce the potential damage, take advantage of new opportunities and to cope with the consequences of climate variability. The *Haor* region is subject to flash floods, seasonal inundation, and high-intensity waves that trigger erosion. Other climate change impacts reported include increasing temperature and changes in rainfall patterns although rigorous scientific data are needed to validate these anecdotal observations.

Disaster Risk Reduction and Management was the first approach to address disasters and focus on development, relief and response before climate change on public view. Climate Risk Management came next and focused on reducing vulnerability and then came the convergence of disaster risk and Climate Change approaches, such as Climate Change Vulnerability Resilience. All these approaches focus primarily on the perspective of vulnerability. The Northeast Haor region of Bangladesh concentrates a large portion of the risks from the effects of climate change.

Pro-poor adaptation pathways framework with a detailed guideline is for local institutions implementing development programmes. The developing tools/guidelines that would subsequently be used by government institutions in designing the best alternative strategies to protect assets of the *Haor* people as well as to rebuild them from damages due to climate change-related disasters.

2. Objective of the Assignment



The objective of the overall assignment is to develop a **Framework for pro-poor adaptation pathways** with a detail guideline to aid decision making and designing development programs for implementing pro-poor adaptation strategies in the Haor Basin”.

3. Scope of Services:

The Consultant shall carry out the following tasks and incorporate the output in the draft report and final report comprising the division of output as mentioned in the deliverables section.

- Task I. Identify poor/low-income socio-economic groups in Haor region and understand their poverty and socio-economic vulnerabilities to climate change .
- Task II. While understanding vulnerabilities, identify the drivers of vulnerabilities to environmental stressors, anthropogenic stressors, climate change in the Haor region.
- Task III. Identify and assess the risks and impacts arising from climate change that affect low-income households and communities living in the Haor region (particularly groups identified under Task I) and develop climate adaptation/mitigation options that will address the identified risks and impacts.
- Task IV. Develop a framework of pro-poor adaptation pathways for *Haor* area and select suitable criteria/parameters/indicator to measure the success/viability of each identified pathway.
- Task V. Identify specific tools that can be used to support pro-poor climate adaptation strategies in Haor areas.
- Task VI. Evaluate the pro-poor climate adaptation pathways framework and conduct consultation meetings/workshops with national and local level stakeholders and relevant experts.
- Task VII. Develop an arrangement or framework for monitoring implementation of adaptation pathways to evaluate development programs for pro-poor adaptation and there by to aid adaptation decision making.
- Task VIII. Organise a policy dialogue with policy makers to present the framework and seek their feedback on what is feasible within the context of the Haor region.
- Task IX. Set out a guideline of using the Pro-Poor Adaptation Framework to design a development program targeting pro-poor adaptation strategies.

4. Professional Staff-input

It is anticipated that national professionals as stated below would be capable to accomplish the tasks as stipulated in the scopes.

SL No	Position	Number of people	Tentative Person-months	Qualification and Experience
1	Team Leader/ Senior Climate Expert	1	4	The team leader must have a total of 20 years of experience, out of which at least 5 years' experience in the relevant study in the field of policy research/guideline development, climate change and adaptation pathway framework development with national or international development agency; working with local communities of Haor area and government officials as well as designing studies and research. S/he must have at least a Masters' degree in Climate change, or Environmental Science, or Social science, or Water Resources Development/Management/Engineering, or development studies, or disaster management, or Engineering, or



SL No	Position	Number of people	Tentative Person-months	Qualification and Experience
				Agriculture, or any relevant discipline in the field of climate change adaptation. The team leader should be strong in computer and communication skills (oral, writing and presentation). The team leader should have process skills in developing tools for various studies.
2	Socio-economist	1	3	The expert should have at least a Masters' degree in social sciences or Economics or Anthropology or Development Studies/Economics or Environmental Science or any relevant subject in the field of climate change vulnerability and adaptation. The incumbent must have at least 15 years of experience out of which 5 years of relevant experience in the field of livelihood system, poverty, vulnerability, disaster management, and climate change in the context of Bangladesh. He must have experience of working in Haor region.
3	Agriculture Expert	1	2	The expert should have at least Masters' degree in the Agricultural discipline and have minimum 15 years of total experience, out of which at least 5 years of working experience in climate change in the agriculture sector.
4	Disaster and Climate Change Expert	1	2	The expert should have at least Masters' degree in Civil/Water resources engineering or agricultural engineering or water resources development/management or relevant discipline, and have a minimum of 12 years of experience, out of which at least 05 years of working experience in disaster management, water and hydraulic management policies in the Bangladesh context. Having experience in climate change forecasting in the context of Haor system as well.
5	Fisheries Expert	1	2	The expert should have at least a Masters' degree in Fisheries and have a minimum of 15 years of experience, out of which at least 5 years of experience in natural resources management policies, Haor water bodies (Beel) management, pond fisheries & open water fisheries and fish bio-diversities etc.
6	Ecological Expert	1	2	The expert should have at least a Masters' degree in environmental science/ climate change, Ecology or bio-engineering or relevant discipline. The incumbent should have at least 5 years of working experience in ecology and biodiversity of the total experience of 12 years.



SL No	Position	Number of people	Tentative Person-months	Qualification and Experience
7	Infrastructure Expert	1	2	The expert should have at least Masters' degree in Civil engineering and have a minimum of 15 years of experience, out of which at least 5 years of working experience in rural development, Haor infrastructure development, village/road protection work and disaster management policies.

*The CV of non-key expert should be provided in tabular form covering all required information and be provided in staffing schedule section.

5. Location:

District	Number of Upazilas	Name of Upazilas
Sunamganj	11	SunamganjSadar, Tahirpur , South Sunamganj, Bishwambarpur, Jamalganj, Derai, Sulla, Chhatak Dowarabazar, Dharmapasha, &Jagannathpur
Habiganj	3	Azmiriganj, Lakhali, Baniachong
Netrokona	4	Khaliajuri, Kolmakanda, Modon, Mohanganj
Kishorganj	4	Itna, Mithamoin, Astagram, Nikli
Bramanbaria	6	Nisirnagar, Nobinagar, Sarail, Ashuganj,BrahmanbariaSadar, Bancharampur
Total	28	

6. Expected Output, Deliverables, Key Milestones and Time frame:

The framework will highlight the broad comparative desirability of different adaptation pathways under different environmental (including climate change) and socioeconomic scenarios for different poor/low-income groups. The adaptation in the following areas should be represented in each pathway: i) DRR (Disaster Risk Reduction) ii) Agriculture iii) Migration iv) Vulnerability reduction v) Gender vi) Economic development vii) Water and hydraulic management viii) Ecosystem management. The adaptation pathway will be both visionary and realistic for future government. Broadly describing each pathway has a different strategies in terms of how to addressing adaptation.

During the entire study period, the following reports should be submitted to the Project Director, HILIP as specified bellow:

Key Tasks	Time Period	Location
Submission of inception report, including work plan, methodology and tools (5 Copies) and present to LGED officials	Within 3(three) weeks after signing of the contract.	PMU, HILIP
Submission of Interim Reports	Within 4months of the contract	PMU, HILIP
Submission of Draft final Report (10 Copies) covering all tasks in the scope of services and Presentation in	After completing 6months of the contract	PMU, HILIP



a workshop		
Final Report and pathway framework (10 Copies) along with soft copy in MS Word (in a DVD).	Within the contract period after having feedback from the PMU	PMU, HILIP

Reports should be written in English. The Consultant will arrange for proof reading, (if required) to maintain the readability of the report. The final reports should have two technical parts and a policy synthesis report. It should be supported with relevant data, photos and maps as well as state how these have been sourced. All field notes and the data set should be submitted as annexure with the final report.

Follow up meetings will be held time-to-time as per requirement of HILIP, LGED. During the implementation, any other information that is important may be added/ deleted during discussion periods, which may become an integral part of the TOR. The Consultant will coordinate with the Project Director, HILIP, LGED or his assigned project official about the progress of the study or any other issues related to the study.

7. Client's Support

The Consultant will work independently with his/her team in the Haor area throughout the period of the assignment, to finalize methodologies and approaches, and undertake fieldwork. HILIP, LGED will not facilitate any transport, office space, accommodation and food for the consultants in the field. The project will provide to the Consultant available key program documents & reports. The Consultant may be assisted with providing timely feedback of the Client on all reports, questionnaires, samplings, and other information as and when required.

8. Mode of Payment

Payments shall be made in line with agreed-on outputs according to the following schedule:

- **Inception Report:** Fifteen(15%) lump-sum contract price shall be paid upon submission of the Inception Report duly accepted by the Client;
- **Interim Reports:** Twenty Five (25%) lump-sum contract price shall be paid after submission of the • Interim progress reports duly accepted by the Client
- **Draft Final Report:** Thirty(30%) lump-sum contract price shall be paid after submission and presentation of the draft final report duly accepted by the Client; and
- **Final Report:** Thirty (30%) lump-sum Contract Price shall be paid after submission the final report duly accepted by the Client.

9. Assignment Period

The assignment period is considered 7months. However, the assignment must be completed within 2021.