

# Terms of References

## Preparation of Sri Lanka's Third National Communication on Climate Change

### National Expert on Vulnerability and Adaptation measures – One Post

#### 1. Project background information

Sri Lanka has ratified the United Nations Framework Convention on Climate Change (UNFCCC) in 1993 and Kyoto Protocol in 2002. Consequently, the Ministry of Mahaweli Development and Environment (MMDE) is the National Focal Point to the UNFCCC. Parties to the UNFCCC should prepare and submit their National Communications on climate change to the Secretariat of UNFCCC, fulfilling the requirement of the Convention under the Article 12 in respect of National Communications. Accordingly, Sri Lanka has submitted its Initial and Second National Communications in 2000 and 2012 respectively. Presently, Climate Change Secretariat (CCS) of the MMDE) is in the process of preparing its Third National Communication (TNC) on Climate Change.

The project for preparation of the Third National Communication on climate change is a logical continual step towards further implementation of the UNFCCC at national level. Its main objective is to prepare a comprehensive report on the climate change related issues. The analysis conducted within the Second National Communication will be updated and upgraded/extended, which will result in preparation of a comprehensive national report. Furthermore, it will work towards ensuring that climate change issues are not considered as separate to national and local environmental concerns by integrating objectives into national and local strategic planning processes.

The TNC comprises of mainly 5 components as follows;

01. National Circumstances
02. GHG Inventory
03. Vulnerability and Adaptation Measures
04. Mitigation Options
05. Other relevant information (capacity building, education and public awareness, technology transfer and gap related to financial, technical and capacity needs)

In order to prepare vulnerability and Adaptation chapter, a national expert will be hired for 18 months.

#### II. Scope of Work

A Team for Vulnerability & Adaptation (V&A) Chapter will be established for the implementation of specific activities for vulnerability and adaptation measures that are currently or planned to adopt to climate change adaptation impacts. In this regard, it is required to use and report on appropriate methodologies and guidelines that are best available to adequately assess its vulnerability to climate change and identify strategies/actions to adaptation. The activities undertaken by national institutions will also assess the climate vulnerability especially in agriculture, water resources, health, biodiversity & ecosystems, coastal, human settlement and infrastructure to enhance understanding of climate scenarios and impacts in nationally and regionally affected and appropriate action plans for addressing climate vulnerability.

In this purpose, MMDE is planning to appoint a National Expert to take lead in preparation of vulnerability and adaptation measures for Sri Lanka's Third National Communication (TNC) on Climate Change in collaboration with all the relevant stakeholders in accordance with the national communication guideline developed by the UNFCCC. A team of experts for food security and water, coastal and marine, Health, Human settlement and infrastructure, Tourism and recreation, Industry, Energy & Transport, Biodiversity & Ecosystems under this consultancy will be hired in order to assist the national expert in preparation of vulnerability and adaptation chapter.

All tasks related for preparation of Vulnerability and Adaptation measures chapter to be carried out in close communication and collaboration with the Climate Change Secretariat in coherent and transparent manner.

### **III. Duties and Responsibilities**

Particular duties for a national expert on vulnerability and adaptation measures are as follows:

1. Conduct an inception meeting and prepare a work plan for the assignment with the team of experts for climate change vulnerability and adaptation measures to adopt them and determine and clarify roles and responsibilities of the team.
2. Identify preliminary background information related to the assignment, including procedure and arrangements to be made in the collection and compilation of data and information, detail a schedule of meetings, training workshops and consultations;
3. Determine methodologies to be used for the V&A Assessment;
4. Finalize an inception report and work plan and timetable. The work plan and inception meeting report will be prepared by the national expert and submitted to the Climate Change secretariat for approval. This work plan and meeting report will guide this assignment to facilitate timely completion of all tasks and satisfactory end result;
5. Guiding the expert team to collect/gather all the existing and necessary information on climate change are required to prepare vulnerability and adaptation measures
6. Providing technical inputs as per the developed guidelines by the UNFCCC and IPCC on reporting guidelines to the expert team in order to collect data and calculation;
7. Identify the data needs, availability and suitability, and establish datasets baselines of the assessment;
8. Technical assistant to analyze the climate changes on temperature, precipitation, wind, cloudiness and sunshine hours for the period of 2000-2016 by month and years,
9. Based on the output of the vulnerability assessment, provide technical guidance to evaluate the feasibility of available adaptation measures to meet their specific needs and concerns arising from the adverse effects from the climate change;
10. Provide leadership for identification of adaptation measures and technology transfer for Rice, Tea, Rubber, Coconut, Sugarcane and other field crops in close coordination with the National Adaptation Plan (NAP) process and identification of possible barriers and risks;
11. Describe procedures and arrangements undertaken to collect and archive data for the preparation of vulnerability and adaptation measures, as well as efforts to make this as a continuous process, including information on the role of the institutions involved;
12. Provide leadership to assessment of current socio economic condition and vulnerability, future risks analysis;
13. Assist to organize workshops to discuss the findings with relevant stakeholders and a team of expert on V&A;

14. Develop executive summary for policy and decision making on climate change vulnerability and adaptation

#### **IV. Qualifications, experience and skills**

The national expert for undertaking project activities should meet the following minimum qualifications, experience and skills;

- I. A degree from a recognized university and a Master degree in the field of Science, Environment and Natural Resource Management, Agriculture, Economics, Geography or equivalent qualifications in any other field related to the climate change adaptation.
- II. Minimum of 8 years-experience of working on climate change or a related field
- III. Sound and broadly-recognized scientific expertise on various adaptation and vulnerability measures on climate change;
- IV. Understanding the relation of environment / development issues and climate change;
- V. Familiarity with the methodologies for technology needs assessment for adaptation and the UNFCCC guidelines for national communications.
- VI. Good communication skills and competence in handling expert teams and identify vulnerability and adaptation measures.
- VII. Advance computing skills on data collection, gathering, filtering, analysis and modeling.
- VIII. Knowledge on analytical capacity for determining the vulnerability and adaptation measures for decision-making.
- IX. Knowledge on Quality Control and Quality Assurance.

#### **V. General:**

- I. All selected experts shall have excellent communication and reporting skills in English and satisfactory knowledge on essential computer applications.
- II. All Experts should be able to plan, execute and monitor programs and meet the targets with no/minimum additional support.
- III. All experts shall have sufficient physical fitness to work under busy and pressurized environment.
- IV. Initially all contract will be for durations given in each consultancy and would be extended as decided by the project management.
- V. All consultants should have correspondence with the Project Director through Technical Coordinator of the Project Management Unit.

#### **VI. Consultancy Fee:**

**SLR 1,700,000 – 1,725,000**

The duration of the assignment covered by this ToR is 18 months from the date of contract signature.

## **VII. Expected output**

Completed chapter on vulnerability and adaptation for the following sectors: Food security (Agriculture, Livestock, Fisheries), Water resources, Biodiversity & Ecosystems, Coastal, Human Settlement & Infrastructure and Health, Tourism and recreation, Industry, Energy & Transport etc...