

# Terms of References

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

### Expert Team for Vulnerability and Adaptation measures – One Firm/ Institute

#### I. 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 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 measures, a team of experts for food security & water, coastal & marine, Health, Human settlement & infrastructure, Tourism & recreation, Industry, Energy & Transport, Bio diversity & ecosystems will be hired for 18 months.

## **II. Scope of Work**

The Team Vulnerability & Adaptation (V&A) will be established for the implementation of specific activities outlined below, as well as coordination of the outputs of other consultants engaged with the stakeholders. The activities undertaken by the national institutions will also be assessed for climate vulnerability in agriculture, water resources, health, biodiversity & eco systems, coastal, human settlement and infrastructure to enhance understanding of climate scenarios and impacts nationally and regionally and appropriate actions plans for addressing climate vulnerability.

## **III. Duties and Responsibilities**

Particular duties for the team of experts on vulnerability and adaptation are as follows:

1. Prepare a work plan for the assignment in consultation with the national expert for climate change vulnerability and measures
2. Identify preliminary background information related to the assignment, including procedure and arrangements to be adopted in collection and compilation of data and information, detail a schedule of meetings, training workshops and consultations etc.;
3. Determine and present the methodologies to be used for the V&A Assessment;
4. Review and update the vulnerability assessment maps of following sectors: Food security (Agriculture, Livestock, Fisheries), Health, Water resources, Biodiversity and ecosystems, Coastal, Human Settlement and Infrastructure including identification of vulnerable areas that are most critical;
5. Identify the data needs, availability and suitability, and establish datasets baselines of the assessment;
6. Analyze the climate changes on temperature, precipitation, wind, cloudiness and sunshine hours for the period of 2000-2016 by month and years,
7. Based on the output of the vulnerability assessment, evaluate the feasibility of available adaptation measures to meet their specific needs and concerns arising from the adverse effects of climate change;
8. Identification of adaptation measures and technology transfer for cash crops such as Rice, Tea, Rubber, Coconut, Sugarcane and other crops with reference to the National Adaptation Plan (NAP) process and identification of possible barriers and risks;
9. Coordinate and consult with the Team on Technology Knowledge Management for issues relating to the technology needs assessment and climatic conditions of Sri Lanka;
10. Carry out a peer review of the draft studies produced, including stakeholder consultations;
11. Organize workshops in cooperation with the PMU to present the results from V&A;

#### **IV. Qualifications and Skills**

The experts for undertaking the above project activities should meet the following minimum qualifications and skills:

- I. A degree from a recognized university and a M.Sc. or equivalent in the field of Science, Environment and environmental management, economic or other field related to the project.
- II. Minimum of 5 years-experience of working on climate change or related field.
- III. Sound and broadly-recognized scientific expertise on food security& water, coastal& marine, Health, Human settlement& infrastructure, Tourism & recreation, Industry, Energy & Transport, Biodiversity & Ecosystems and climate change research in Sri Lanka;
- IV. Good communication skills and competence in preparation of vulnerable assessments and adaptation measures;
- VI. Prior experience in vulnerability assessment and adaptation process, through involvement in the First and Second National Communications;
- V. Outstanding experience in working in the fields of climate observation and vulnerability analysis in the specific sectors;
- VI. Familiarity with the UNFCCC, IPCC technical guidelines and Paris Agreement;

#### **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 contracts will be for durations given in the each consultancy and would be extended as decided by the project management.
- V. All experts should have correspondence with the Project Director/ Project Manager, Project Coordinator and Technical Coordinator of the Project Management Unit;

#### **VI. Consultancy Fee and Duration:**

SLR 5,000,000 – 5,800,000

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

The Expert team of preparation V&A measures for above sectors will work under the overall guidance and direct supervision of the PMU at CCS of the MMDE and the National Expert on V&A measures. The Expert team will submit the deliverables to the National Expert on V&A measures, according to the project work plan.

**VII. Expected output:**

Completed final 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 &recreation, Industry, Energy & Transport.