



TERMS OF REFERENCE FOR A LOCAL CONSULTANT

17th June 2020

Title of consultancy: IC-Consultancy to undertake the economic impacts of climate change in Botswana

COUNTRY: Botswana

DESCRIPTION OF ASSIGNMENT: A consultancy to lead and undertake the study to determine the Economic Impact of Climate Change on the Agriculture Sector in Botswana.

PROJECT NAME: UNDP Climate Promise Initiative

PERIOD OF ASSIGNMENT/SERVICES:) 8 weeks in the month of July to September 2020

Proposals with reference should be submitted in a sealed envelope clearly labelled, “**IC-CONSULTANCY TO UNDERTAKE THE ECONOMIC IMPACTS OF CLIMATE CHANGE IN BOTSWANA.**”

should be submitted at the following address no later than **02nd July 2020 at 12:00Noon (Botswana Time)**, to:

Email to: procurement.bw@undp.org

Any request for clarification must be sent in writing, or by standard electronic communication to the address or e-mailed to enquiries.bw@undp.org UNDP Botswana will respond in writing or by standard electronic mail and will send written copies of the response, including an explanation of the query without identifying the source of the inquiry to all prospective facilitators.

NOTE: Consultancy firms/companies interested in applying for this assignment are free to do so provided they submit a CV of only one qualified consultant and present its bid in a manner that would allow for evaluation of the bid in accordance with the evaluation criteria specified in these solicitation documents. That is, the experience required is that of the individual whose CV would have been submitted by the company rather than that of the company. Further, if the submitted bid wins, the ensuing contract will be between the UNDP and the company/firm, not the individual.

1. BACKGROUND

Climate change presents the single biggest threat to sustainable development and is already causing widespread, unprecedented impacts that disproportionately burden the poorest, marginalized and most vulnerable. These impacts could drive 100 million people globally into extreme poverty by 2030. Climate change will reverse hard-won human development gains, worsen inequalities, and trigger forced migration and conflict. It is also a key driver of disaster risks, leading to increased frequency, magnitude and impacts of climate-induced disasters on lives, livelihoods and socio-economic development.

Under the 2015 Paris Agreement, countries unanimously agreed to work toward global goals that would limit global average temperature rise. Specifically, the Agreement seeks to limit the rise in the global average surface temperatures to “well below” 2°C above pre-industrial times this century, while “pursuing efforts” for 1.5°C. It also sets a target of eliminating global GHG emissions by the second half of the century – or at least compensating any residual emissions through, for example, forest growth and enhancement of other sinks.

Article 4, paragraph 2 of The Paris Agreement requires each Party to prepare, communicate and maintain successive nationally determined contributions (NDCs) emission reduction and adaptive capacities that it intends to achieve. NDCs represent efforts by each country to reduce national emissions and adapt to the impacts of climate change. Parties shall pursue domestic mitigation measures, with the aim of achieving the objectives of such NDC targets.

These climate actions determine whether the world achieves the long-term goals of the United Nations Framework Convention on Climate Change (UNFCCC) and its Paris Agreement to stabilize of GHGs concentrations in the atmosphere and reach global peaking of greenhouse gas (GHG) emissions and pursue subsequent rapid reductions to carbon neutrality. Each NDC reflects the country’s ambition for reducing emissions, considering its domestic circumstances and capabilities.

In October 2015 Botswana submitted her NDC to the United Nations Framework Convention on Climate Change (UNFCCC) Secretariat. Botswana’s NDC target is 15% absolute reduction of GHG emissions by 2030 taking 2010 as the base year. The main mitigation actions in the NDCs are targeting the Energy, Transport and Agricultural sectors.

In response, UNDP announced its intention to leverage its extensive climate portfolio and scale up urgently needed support for NDC enhancement in 100 countries, working in close collaboration with UN system partners. The Botswana government through the Ministry of Environment, Natural Resources and tourism benefits from this initiative through the UNDP Climate Promise Initiative administered by the Botswana UNDP Country Office. The Climate Promise is delivering support to selected countries to raise mitigation ambitions, accelerate NDC implementation and mobilize society for enhanced climate action.

In its effort to demonstrate the effects of climate change on the Botswana economy the Ministry of Environment Natural Resources Conservation and Tourism wishes to conduct a study to determine the Economic Impact of Climate Change on Botswana’s GDP. The results of the study will provide quantified impacts of climate change that will be used by the ministry to effectively advocate for

political will and societal ownership of the NDCs and other climate initiatives and actions in the country.

Therefore, the project requires the services of a consultant to lead the assessment of the impacts of Climate change on Botswana's economy as articulated in the scope of work below.

2. Scope of Work

The consultant will carry out the following actions to support the Department of Metrological Services to undertake an assessment of the impacts of Climate Change on the Botswana Economy. The assessment will include a combination of the following:

- a. Review all available literature on the economic impacts of climate change on agriculture and identify appropriate models for the economic impact analysis of climate change in Botswana.
- b. Using projected future climate change and variability scenarios, simulate climate change projections and their impacts on Botswana's Agriculture sector.
- c. Assess the expected medium and long-term impact of climate change on the GDP contribution of the agriculture sector to the economy if no adaptation measures are implemented (BAU).
- d. Estimate the expected costs of adaptation in the agriculture sector to address the medium and long-term impacts of climate change including allowing for autonomous adaptation for households and businesses in the sector.
- e. Identify relevant policies and priority actions for effectively adapting to the impacts of climate change in the agriculture sector. Consistent with Botswana's NDC, this should include (but not limited to) climate smart agriculture practices best suited to the likely future impacts of climate change in Botswana, water management/accounting practices and strategies for addressing water management challenges in agriculture, and adaptive management practices in the land and forestry sectors.

3. Deliverables

- a. Submit the Inception report outlining the methodology and workplan for undertaking the assignment.
- b. Submit a draft report with findings of ALL tasks in the Scope of works above.
- c. Submit a final report detailing the impacts of climate change and variability on the agriculture sector and its GDP contribution to the national economy of Botswana.

4. REQUIREMENT FOR EXPERIENCE AND QUALIFICATION

A. Education

- At least a master's degree in Environmental Economics/Finance or related fields for the consultant.

B. Competencies

- Strong analytical writing and communication skills.
- Ability to prepare reports and presentations.
- Ability to work with a multidisciplinary and multicultural team.
- Strong motivation and ability to work and deliver under short deadlines.
- Ability to work independently with little or no supervision.
- Focus on impact and result for the client and ability to respond positively to critical feedback.
- Good economic analysis and modelling techniques.
- Ability to work on national sensitive issues.

C. Experience

- Experience with climate change and development economics particularly within the Botswana context.
- 10 years of international and national experience in one or more of the following areas, Climate change and its economic impacts, environmental economics, environmental fiscal reforms, financial and statistical analysis more especially in relations to climate change and natural resources.
- Proven Experience in undertaking similar assignments and context
- Very good command of MS Office/excel and spreadsheets.
- Fluency in written and spoken English.
- Some level of local language communication will be an advantage.

5. Evaluation/award

- I. Stage 1: Preliminary evaluation of the proposals will be based on yes/no response as per the table below. If the response is “no” for any of the 3 criteria, the consultant will be disqualified from further evaluation.
- II. Stage 2: Technical Capability of the Consultant to deliver the required consultancy outputs evaluated on a scale of 0-100 points wherein the qualifying mark is 80%. The criteria to be used are shown below

Only candidates obtaining a minimum of 72 point (80%) would be considered for the Financial Evaluation

Cumulative analysis

When using this weighted scoring method, the award of the contract should be made to the consultant whose offer has been evaluated and determined as:

- a) Responsive/compliant/acceptable, and
- b) Having received the highest score out of a pre-determined set of weighted technical and financial criteria specific to the solicitation.

	<i>Weight</i>	<i>Max. Point</i>
<u>Technical</u>		
1. Relevant education background:	<i>Yes/No</i>	

A master's degree in Environmental Economics/Finance and related fields for a Lead consultant.		
2. Adequate work and/or professional experience: 10 years of international experience in one or more of the following areas, environmental economics, environmental fiscal reforms, financial and statistical analysis more especially in relations to climate change.	<i>Yes/No</i>	
3. Complete Consultancy package submitted (Technical and financial proposals)	<i>Yes/No</i>	
4. Context: Knowledge and experience in climate change, environment and development economics in Botswana.	20	20
5. Technical Competence/ Methodology Detailed methodology to be adopted in executing activities during the period for each deliverable. Methodology to be used in analyzing the data collected. Methodologies to improve participation of indigenous population especially the marginalized e.g. women and youth.	30	30
6. Relevant Professional /Work Experience Provide information regarding previous assignments of a similar nature (including those listed in the Qualifications), including country/locations.	20	20
7. Detailed Workplan: Propose the timelines for the main activities of the assignment, their content and duration, phasing and interrelations, milestones (including interim approvals by the Client), and delivery dates of the reports. Work plan should be consistent with the technical approach and methodology, showing understanding of the TOR and ability to translate them into a feasible working plan.	20	20

6. DOCUMENTS TO BE INCLUDED WHEN SUBMITTING THE PROPOSALS

Interested consultants/consulting firms must submit the following documents/information to demonstrate their qualifications:

a. Technical Proposal:

- Profile of the consultant and an outline of recent experience on assignments of a similar nature.
- CVs of their key personnel who meet the minimum qualification and experience to be part of the assignment.
- The consultant's interpretation and demonstrated understanding of the assignment. Including a clear description of the methodology - describing intended process for the assessment of the Developmental effects of Climate Change on the Botswana Economy.
- A work plan with indicative timelines that the consultant proposes to employ in executing the assignment, with graphical illustrations where appropriate.

b. Financial proposal:

Lump-sum consultancy fee. (The lump sum should be broken down to clearly indicate: travel, per diems, tickets and actual consultancy fees (daily fee) with an indication of whether this rate is flexible.)

7. TRAVEL

All envisaged travel costs must be included in the financial proposal. In general, UNDP should not accept travel costs exceeding those of an economy class ticket. In the case of unforeseeable travel, payment of travel costs including tickets, and others should be agreed upon, between the UNDP and the Consultant, prior to travel and may be reimbursed.

8. METHODOLOGIES

The consultant will adopt a consultative approach to develop the expected deliverables. Specifically, the consultant will;

- I. Detail the methods to be used in data collection, analysis and presentation of information. If sampling methods are used, ensure that the samples are representative.
- II. Undertake desk review of relevant documents and databases.
- III. Undertake this assignment in consultation and collaboration with relevant stakeholders including UNDP, MENT, DMS, Ministry of Agricultural Development and Food Security, Ministry of Land Management Water and Sanitation Services, FAO, Local communities, academia, NGO's as well as regional and sub regional structures.
- IV. Under the supervision of the Climate promise project staff and support from the Country Coordinator and regional hub focal point.