

## SPECIFIC TERMS OF REFERENCE FOR AERIAL SURVEY FOR ELEPHANTS AND OTHER LARGE HERBIVORES



*Empowered lives.  
Resilient nations.*

<b>Services Required:</b>	Consultant to carry out aerial survey for elephants and other large herbivores
<b>Duty Station:</b>	Home Based, with mission travel to Zimbabwe, Harare and the Zambezi Valley
<b>Post Title:</b>	National/International Consultant
<b>Type of Contract:</b>	Individual Consultant or Consultancy Firm
<b>Languages Required:</b>	English
<b>Starting Date:</b>	June 2020
<b>Duration of assignment:</b>	4 months up to 30 October

### 1. BACKGROUND

The Government of Zimbabwe, through the Ministry of Environment, Climate Tourism and Hospitality Industry (MECTHI), in partnership with the UNDP is implementing a 6-year GEF funded project entitled “Strengthening Biodiversity and Ecosystems Management and Climate-Smart Landscapes in the Mid to Lower Zambezi Region of Zimbabwe, known as the Zambezi Valley Biodiversity Project (ZVBP). The project is implemented under a National Implementation Modality (NIM) where MECTHI is the Implementing Partner. This is a child project being implemented under a global parent programme entitled “Global Partnership on Wildlife Conservation and Crime Prevention for Sustainable Development.” The project seeks to address multiple threats to biodiversity and sustainable community development in the Lower Zambezi which include poaching and associated wildlife trade, retaliatory killing of wildlife, deforestation and associated land degradation due to unsustainable agriculture and firewood consumption, and uncontrolled veld fires.

The Zimbabwe project is therefore a multifocal area project whose objective is to promote an integrated landscape approach to managing wildlife resources, carbon and ecosystem services in the face of climate change in the protected areas and communal lands of the Mid to Lower Zambezi Regions of Zimbabwe. The project has 4 components namely: Component 1. Strengthening capacity and governance frameworks for integrated wildlife and woodland management and wildlife/forest crime enforcement in Zimbabwe; Component 2. Strengthening Zimbabwe's PA estate and CAMPFIRE Wildlife Conservancies in areas of global BD significance; Component 3. Mainstreaming BD and ES management, and climate change mitigation, into the wider landscape; and Component 4. Knowledge Management, M&E and Gender Mainstreaming;

The project is being implemented in Muzarabani, Mbire and Hurungwe Districts as well as Mana Pools National Park, and Chewore, Sapi, Hurungwe, Dande, Charara and Doma Safari Areas.

### CURRENT SITUATION IN THE CONSERVATION OF ELEPHANTS

Zimbabwe has a proud history of successful elephant conservation. Elephant populations in most of Africa were reduced to very low numbers by the late 19th Century. In 1897

approximately 100,000 tonnes of ivory were exported from Africa. In 1900 it was feared that elephants might become extinct south of the Zambezi River. Using historical accounts of elephant numbers, backwards extrapolations based on population growth rates, and known levels of elephant kills, it is unlikely that Zimbabwe held more than about 4,000 elephants in 1900. More than one hundred years later, in 2014, this number had increased twenty-fold to nearly 83,000 elephants despite attempts to limit elephant population growth between 1960 and 1989 by culling 45,000 elephants in tsetse control areas and state protected areas. The primary rationale for limiting elephant numbers in protected areas was to reduce their impact on woodland habitats and the loss of plant and animal species as a result of elephant-induced habitat change. Elephant impacts on woodlands and associated biodiversity remains a concern today.

Between 1990 and 2006 elephant populations grew exponentially but growth has since been limited by an escalation of illegal killing. However, the overall population in the country remains at more than 80,000 elephants which is more than twice the national target population envisaged in the 1980s. Elephants are distributed in four main regional populations in Zimbabwe, namely, Northwest Matabeleland, the Sebungwe, the mid-Zambezi Valley, and the South East Lowveld. The mid-Zambezi Valley had more than 11,500 elephants, according to the 2014 survey.

Zimbabwe Parks and Wildlife Management Authority (ZPWMA), has a national mandate to manage wildlife in the country and is the lead agency in elephant management. Current management efforts include protection, research and monitoring. ZPWMA is planning to carry out a national survey to establish the current population status of elephants and other large herbivores. These national surveys will be expected to cover an estimated total area of 66334 km<sup>2</sup> in four known major elephant range areas namely Matabeleland North West, Sebungwe, Middle Zambezi Valley and South East Lowveld.

The elephant is a key indicator species of the impact of the ZVBP. Surveys in the mid-Zambezi region will therefore be supported under the current project. This process is important as it seeks to ascertain the baseline information of flagship species in the project area (Indicator 3). UNDP is therefore seeking the services of a competent individual or firm/organisation to conduct aerial surveys in the Mid to Lower Zambezi region of Zimbabwe and establish the current status of the population of elephants and other large herbivores.

## **DESCRIPTION OF THE ASSIGNMENT**

Aerial surveys have traditionally informed wildlife management policy and strategy in Zimbabwe. Objective three of Zimbabwe's National Elephant Management Plan 2015-2017 focuses on maintaining continuity in research and monitoring necessary for effective adaptive management and conservation of elephants hence the need for the survey. In this instance the survey will also contribute to the baseline data of the project which will be used to track the impact of the investments coming through the ZVBP.

### **Goal**

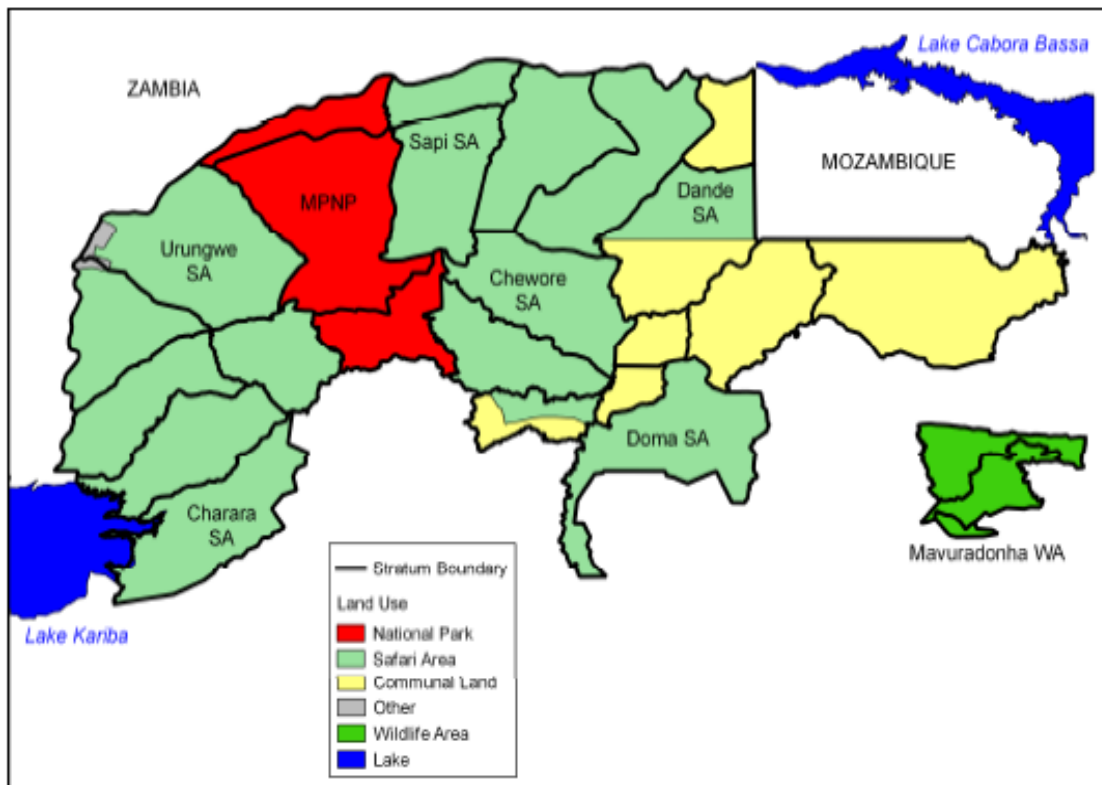
The goal of the aerial survey is to provide an estimate population numbers, structure and distribution of elephant and other large herbivores within the Zambezi Valley landscape.

### **Specific Objectives**

- Provide up-to-date information on the status of Zimbabwe's elephant population to ZPWMA, international bodies (e.g. CITES, IUCN, African Elephant Specialist Group) and the general public, in both Zimbabwe and abroad.
- Inform changes over the past 5 years, in the number and spatial distribution of elephants and other large herbivores in the Zambezi Valley.
- As part of a national survey, provide a framework for informed policy decision driving the implementation of Zimbabwe's Elephant Management Strategy.
- Inform the GEF ZVBP's indicator species baseline.

### Methodology

Middle Zambezi Valley (17,003km<sup>2</sup>) comprises the Escarpment and the Valley floor. The area includes Charara, Chewore (North and South), Dande, Doma, Hurungwe, Sapi Safari Areas, and Mana Pools National Park. The survey will cover communal areas of Muzarabani, Kanyemba, Dande and Mkwichi.



The consultant must produce a detailed methodology and provide survey designs on how they will conduct the aerial surveys.

### REQUIRED OUTPUTS

A technical report that includes methodology, survey design, animal population estimates and confidence limits and distribution maps.

### DURATION

The aerial surveys should be carried out from June 2020 and the final report should be submitted by 30 October 2020.

### **EXPERTISE REQUIRED**

The consultant should be a firm or individual with experience in aerial surveys. The lead expert should have the following attributes:

#### **Education:**

Minimum qualification of a B.Sc. degree in either Zoology, Wildlife Ecology, Wildlife Conservation or related qualification.

#### **Experience:**

- A wildlife biologist with extensive practical experience in wildlife management, research and monitoring in African Savannah ecosystems.
- Have at least 20 years' experience in conducting aerial surveys of elephants and other large herbivores in Zimbabwe and Southern Africa.
- Experience in budget preparation, organisation, planning, survey design, execution and reporting on aerial surveys
- Experience in conducting training courses for aerial surveys.

#### **Competencies**

##### **High Level of Professionalism:**

- Strong analytical, quantitative and problem-solving skills;
- Ability to provide clear messages on complex information;
- Ability to seek and synthesize information from a variety of sources and draw solid conclusion based on in depth analysis;
- Accuracy and attention to detail;
- Good communication skills, including the ability to write high quality reports, conduct studies and to articulate ideas in a clear and concise style;
- Excellent interpersonal skills, teamwork and adept at working with people of diverse cultural and social backgrounds;
- An understanding of and ability to abide by the core values of the United Nations.

##### **Strong Planning & Organizing Capacity:**

- Organizes and accurately completes multiple tasks by establishing priorities while taking into consideration special assignments, frequent interruptions, deadlines, available resources and multiple reporting relationships;
- Plans, coordinates and organizes workload while remaining aware of changing priorities and competing deadlines;
- Demonstrates ability to quickly shift from one task to another to meet multiple support needs.

##### **Demonstratable Teamwork:**

- Works collaboratively with partners to achieve organizational goals;
- Solicits input by genuinely valuing others' ideas and expertise;
- Facilitates the development of individual and multi-cultural/team competencies;
- Ability to provide substantive training and mentoring and manage teams.

## Language

All reports will be done in English.

Submission/comments timing

<b>Installment of Payment/ Period</b>	<b>Deliverables or Documents to be Delivered</b>	<b>Approval should be obtained</b>	<b>Percentage of Payment</b>
1 <sup>st</sup> Installment	Presentation and approval of an Inception Report with detailed Methodology	UNDP Resident Representative or Designate	10%
2 <sup>nd</sup> Installment	Preparatory phase including training, mobilisation of equipment and support teams. Payment will be done upon receipt of training report and inspection of equipment by ZPWMA in collaboration with UNDP	UNDP Resident Representative or Designate	50%
3 <sup>th</sup> Installment	*Draft report with in-depth quantitative and qualitative analysis of the data collected, no later than four weeks following the conclusion of the aerial survey. Comments on the draft will be provided within three weeks of submission of the draft report.	UNDP Resident Representative or Designate	20%
4 <sup>th</sup> Installment	*Final report with in-depth quantitative and qualitative analysis of the data collected, no later than one week after the receipt of comments. All copies of raw data are to be submitted to ZPWMA	UNDP Resident Representative or Designate	20%

\*All reports must be submitted in electronic form (MS Word and PDF) to the Project Manager of the GEF 6 Project and to the Chief Ecologist Terrestrial, ZPWMA. The Project Manager in consultation with Chief Ecologist Terrestrial, ZPWMA, is responsible for recommending approval of reports. Following acceptance of the final report by UNDP and ZPWMA, the Consultant will submit five (5) hard copies of the final reports referred to above to the UNDP Resident Representative or Designate.

## HOW TO APPLY

Submission must be online following the instruction given on the website

Please submit the following to demonstrate your interest and qualifications. Please note that all the documents below must be submitted as one PDF file.

- P11 (required) of the lead consultant, indicating all past experience from similar projects, as well as the contact details (email and telephone number) of the candidate and at least three (3) professional references;

- Personal CV (optional) of lead consultant or key personal
- In the case of a Consultancy Firm, a detailed company profile is required
- Duly accomplished Letter of Confirmation of Interest and Availability using the template provided [see link further down];
- Technical Proposal demonstrating full understanding of the TORs, approach and methodology to the task and workplan;
- Financial proposal (All-inclusive daily fee): Interested individuals are kindly requested to submit an all-inclusive daily consultancy fee;
- Travel: All envisaged international travel costs must be included in the financial proposal in a separate line, though not the cost of in-land travel, which will be handled directly by the UNDP Country Office.

### **Application Evaluation Process:**

Proposals will be evaluated based on the Cumulative Analysis methodology [weighted scoring method], where the award of the contract will be made to the individual consultant/Firm whose offer has been evaluated and determined as:

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

Technical Criteria weight; [70%].

Financial Criteria weight; [30%].

Only Proposals obtaining a minimum of 70% of the obtainable 100 points in technical evaluation would be considered for the Financial Evaluation.

### **Technical Evaluation Criteria:**

- Adequacy of Profile and Technical Proposal (Max 100 points)

General Conditions of Contract for the ICs:

<http://www.undp.org/content/dam/undp/documents/procurement/documents/IC%20-%20General%20Conditions.pdf>

UNDP Personal History form (P11) required of all applicants:

[http://www.undp.org/content/dam/undp/library/corporate/Careers/P11\\_Personal\\_history\\_form.doc](http://www.undp.org/content/dam/undp/library/corporate/Careers/P11_Personal_history_form.doc)

Letter of Confirmation of Interest and Availability

[https://www.dropbox.com/s/789q1hvdrgwqqc/PPG\\_Cons\\_Letter%20of%20Interest%20and%20Availability.docx?dl=0](https://www.dropbox.com/s/789q1hvdrgwqqc/PPG_Cons_Letter%20of%20Interest%20and%20Availability.docx?dl=0)

Signature/**Date**

Compiled by: Chipangura Chirara, Project Manager .....

Reviewed by: Anne Madzara, Head of Unit, PRECC .....

Approved by Madelena Monoja, Deputy Resident Representative .....