

## **SPECIFICATIONS**

### **ANIMAL ELETRONIC IDENTIFICATION TAGS, APPLICATOR AND READER FOR THE ARC BIOTECHNOLOGY PLATFORM**

#### **INTRODUCTION**

The Biotechnology Platform (BTP) would like to obtain offers for Electronic Identification HDX Devices for animal recording and monitoring for the Goat Mortality Project.

**PLEASE NOTE:** Suppliers are required to complete **all items in Table 1** - Table of Compliance and Details to offer. Information should be provided in every column for all lines items detailing compliance and details on offer. Any columns left empty will constitute an incomplete and non-compliant quotation.

**PLEASE NOTE:** Suppliers are required to supply product information brochures **as evidence** for the specifications on offer.

#### **Table 1. Table of Compliance and Details to Offer: Mandatory specifications**

	Feature/Specification	Comply (Y/N)	Details on Offer
<b>Compulsory requirements</b>			
1.	Provide detailed Images & Specification for the RFID Multipin Ear tags: Leader/Equivalent, ear tag applicator and identification system		
2.	ICAR Certification		
3.	Min 12 Month Warranty Specified		
4.	One Reference Letter for similar work done. <b>NB: Award Letters and Purchase Orders will not be considered</b>		
<b>Items to provide</b>			
<b>Item 1: 3000 Electronic Identification Device</b>			
	Electronic Identification Device (EID ear tags, colour: yellow) that adhere to the following requirements:		
	Evidence that the EID Visual tag is designed with the key elements of high retention of not less than 95% in the first year		
	Two-piece EID tag combined with a visual tag, to give visual and electronic identification		
	Electronic ear tags <b>yellow</b> must be imprinted with official logo (ZA) surrounded by a line forming an oval shape on outside surfaces of both the male and female components. ZA embossed for security purpose on the back of both male and female ear tags.		
	The tag number series as per Leader sequence already in place		
	Data on both tags must be matching and must be printed indelibly on the outside surfaces of both the "male" and "female" parts of the tag		
	Tag set is packaged in containers or trays to keep both tag pieces together as a pair before being applied.		
	The laser marked characters on the tag should be indelible, clear and legible at a minimum read distance of 3 meters with the human eye.		
	Tags must be supplied in a box		
	The ear tags should be laser marked. The font type and size should enhance the readability of the ear tag under field conditions		
	Must be tamper proof and not re-usable (tamper evident). Must comply with Full ICAR specification. Proof should be attached		
<b>Item 2: 2 Ear Tag Applicator</b>			
	Metal		
	Automatic spring loaded, quick release upper jaw with flip pin		
	Elegant metallic finish		
	Long lasting paint (q10 years guarantee)		
	Additional back-up pin (2)		
<b>Item 3: 2 Stick Reader for Radio Frequency Identification Device (RFID) Tags</b>			
	Ruggedized portable smart RFID reader for tags complying with ISO11784 / 11785 standard and able to read with FDX-B and HDX technology on tags under South African field conditions		
	Large memory able to store information for a minimum of 10,000 animals in the internal memory with each record containing a time stamp plus a Visual ID		
	Able to transmit data via several interfaces directly after reading, such as USB and Bluetooth. GPS capability and other data exchange interfaces such as Wi-Fi interface optional		
	An operating system that will allow for an integrated application to operate on the device to capture information and read tags as specified in this bid		
	Free PC communication software		
	English language interface		

	Standard I/O USB port will suffice		
<b>Item 4</b>	Delivery to Biotechnology Platform, 100 Old Soutpan Road (M35), Onderstepoort, 0182		

Please note:

1. Systems that do not meet the above specifications will not be considered.
2. ARC BTP reserves the right to make purchases to fit the budget.



Figure 1: Ear tag image



Figure 2: Applicator



Figure 3: Reader image