



**ADDENDUM SET "6"**

**14<sup>TH</sup> JUNE, 2022.**

To all Prospective bidders,

**REF: TENDER NO. KRA/HQS/NCB-072/2021-2022 – SUPPLY, DELIVERY, TESTING AND COMMISSIONING OF TWO (2) UNMANNED AIRCRAFT SYSTEMS FOR AERIAL SURVEILLANCE FOR A PERIOD OF THREE (3) YEARS**

Kenya Revenue Authority wishes to inform prospective bidders of the following clarifications:

	<b>Clarification Request/ Item Description</b>	<b>KRA Response</b>
1	<b>Frequency requirements- 2.4 GHz</b> This frequency is susceptible to a lot of interference, which will significantly impact on the quality of images and the range of the UAV. This frequency is also susceptible to Jamming using very simple and commercially available jamming devices. This frequency is also easy to intercept mid flight and therefore is a less secure frequency for the operation intended. We are seeking for clarification that for the kind of operation intended kindly confirm that the minimum requirement for frequency should be 4 or 5 GHz. Please clarify?	Bidders are advised to refer to Addendum Set 1 (item 9) dated 6 <sup>th</sup> May 2022 (item 9). This was addressed therein. The requirement was expunged.
2	<b>GPS</b> Majority of commercially and home use drones/UAVs work using GPS systems for location and positioning. For major and quality operations as per your communication in the tender document, we expect that you would want a system that can work without GPS for security reasons while under operation. We are therefore seeking clarification that; the UAV to work without GPS should therefore be a minimum requirement in the case of poor signal areas the equipment will not be lost. Further this ability to work without GPS would also reduce the ability of jamming devices and prevents loss of equipment in remote locations.	KRA requirement holds. (GPS) is a mandatory requirement for the UAS to safely navigate back home automatically in case of radio frequency signal failure.
3	<b>Day &amp; Night Sensors</b> The tender document requires day and night sensors to be provided as separate components however this means that for the sensors to be exchanged the vehicle has to be landed and the day or night sensor swapped/changed before resuming the mission. We seek clarification that; a single sensor with automatic capability for day and night flights sensor that will give the advantage of working in shaded areas/forests without the need to land the equipment to replace the sensors thus reducing loss of operation time even if its dark during the day. Kindly clarify.	<b>Day &amp; Night Sensors</b> Bidders are advised to refer to the list of essential drone requirement in the tender document. The essential drone camera requirement states that "day and night sensors (EQO/IR) Should be combined on one camera.
4	<b>Travel Distance</b> The tender requires that the distance to be travelled by the UAV's is 50km. Based on known information from manufacturers, UAV's/drones working on 2.4 GHz frequency cannot achieve these distances due to congestion of the frequencies in built up areas. We are seeking clarification for guarantee from the manufacturer be required to assure you that the device acquiring can achieve these distances without difficulty before contract signing? kindly clarify	Bidders are advised to refer to Addendum Set 1 (item 6 & 9) dated 6 <sup>th</sup> May 2022 and addendum set 2 dated 12 <sup>th</sup> May 2022 (item number 5). The query was addressed therein.

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5	<p><b>Proof of Concept / Field Test</b> We are seeking clarification if you would require a proof of concept or field test prior to contract award. This would give you assurance on the capability of the vehicle to be procured.</p>	<p>Prospective bidders are advised that KRA'S requirement is supply, delivery, testing and commissioning of two (2) Unmanned Aircraft Systems for aerial surveillance for a period of three (3) years. This requirement holds.</p>
6	<p>We are requesting for an extension of the above-mentioned tender from the day of closing date for one more weeks in order to submit a substantive response that meets your required specifications.</p>	<p>This has been extended to <b>17<sup>th</sup> June 2022 at 11:00am.</b></p>

**ADDENDUM**

	<b>Clarification Request/ Item Description</b>	<b>KRA Response</b>
1	<p><b>Encryption Standard</b> The tender document does not specify the level of data encryption required. Kindly confirm that Encryption level AES256 is required in order to reduce any kind of easy decryption using commercially available software. This will compromise the information being transmitted to and from the UAV.</p>	<p>Bidders are advised that the specifications provided under <b>addendum set 1</b> has been revised and provided below named <b>Annex 2 – Revised UAS (Drones) Specifications</b>. The same to be adopted while responding to clause by clause technical requirements on page 21.</p>

**Note:**

Bidders are advised to:

- Acknowledge receipt of this addendum published and uploaded on the KRA Website on **14<sup>th</sup> June, 2022.**
- Note this being the final addendum/clarification to be issued.
- Align their bid security to be valid upto and including **16<sup>th</sup> June 2023.**

The Addendum form part of the bidding document and is binding to the bidder. All other terms and conditions of the tender remain the same. You are therefore required to immediately acknowledge the receipt of this addendum.

Regards,



**Benson Kiruja**

**For: Deputy Commissioner - Supply Chain Management**

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**ADDENDUM SET "6".**
**Annex 2 – Revised UAS (Drones) Specifications.**

<b>A</b>	<b>Equipment Specifications</b>	<b>Bidder's Response</b>
1	Long Range Surveillance System	
2	Not less than 50 km mission control and telemetry	
3	Not less than 50 km remote manual control	
4	Not less than 50 km video link	
5	Endurance: not less than 3 hours	
6	Cruise speed: not less than 19 knots	
7	Maximum speed: Not less than 30 knots	
8	GCS with Telemetry Radio and Remote Control	
9	GCS Laptop Stand	
10	Pelican Transport Case	
11	One extra Battery with Charger	
12	Laptop Ground Control Station	
13	Tablet Ground Control Station	
14	Long Range Radio System	
15	Long Range Antennas	
16	Transponder: Mode C	
17	Payload: Not more than 7.5 Kgs	
18	Minimum Encryption level required is AES256	
<b>B</b>	<b>Warranty Specifications</b>	<b>Bidder's Response</b>
1	12 Months	


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