

Request for Proposal (RFP): Drone Jammer System

Introduction:

Kerala Police invites qualified and experienced start-ups to submit proposals for the supply and installation of a Drone Jammer System with the following specifications:

Scope of Work:

- 1. Drone Jammer System:** The system should have the capacity to effectively jam unauthorized drones within a 500 square meter area.
- 2. Alert Facility:** The system should include an alert facility with a range of 5 kilometres to detect and signal the presence of drones in the vicinity.
- 3. Installation and Training:** The start-up is responsible for the installation of the system and providing necessary training to our staff for its operation and maintenance.
- 4. Warranty and Support:** The start-up should provide a comprehensive warranty and support plan for the system. Including:
 - a) **Warranty Period:** Specify the duration of the warranty period.
 - b) **Support Services:** Describe the level of support services included, including response times for technical support inquiries.
 - c) **Maintenance:** Detail the maintenance services provided during and after the warranty period.
 - d) **Replacement Parts:** Explain how replacement parts will be provided, if necessary.
- 5. Requirement/Specifications :**The Drone Jammer System must meet the following technical specifications:
 - a) **Frequencies to be Jammed:** The system should be capable of jamming the following frequencies:
 - ✓ 2400-2500 MHz
 - ✓ 1560-1620 MHz
 - ✓ 1170-1280 MHz
 - ✓ 5.7-5.9 GHz
 - ✓ 433MHz
 - ✓ 860-920 MHz
 - ✓ 4G & 5G
 - b) **Range:** The system's effective jamming range should be at least 500 metre.
 - c) **Operating Temperature:** The system should operate within a temperature range of -20°C to +55°C (-4°F to 131°F).

- d) **Water Resistance:** The system should have an IP66 rating to withstand water and environmental conditions.
- e) **Multiple Bands:** Capability to jam drones operating on various frequency bands to counter different drone models.
- f) **Adjustable Power Levels:** The ability to adjust the jamming power to target drones at different distances.
- g) **Directional Antennas:** Some drone jammers are equipped with directional antennas to focus jamming on specific areas or drones.
- h) **Portable or Fixed Installation:** Drone jammers may be designed for portable use or installed in a fixed location, depending on the intended application.
- i) **Alert and Detection System:** Some jammers come with drone detection capabilities, alerting the operator to the presence of drones in the surrounding area.
- j) **Frequency Scanning:** The ability to scan and identify drone frequencies automatically for precise jamming.
- k) **Interference Type:** Some jammers use continuous wave interference, while others use frequency-hopping techniques to counter drone control signals.
- l) **Battery or Power Source:** Power source options, including batteries, generators, or direct electrical connections.
- m) **User Interface:** It should have a user-friendly interface for control and monitoring of the jammer's operation.
- n) **Customizable Jamming Profiles:** It should have the ability to create and save customized jamming profiles for different drone threats.
- o) **Safety Features:** It should have safety mechanisms to prevent interference with unauthorized communications and devices.
- p) **Legal Compliance:** It should be in compliance with legal regulations and laws regarding the use of jamming devices.
- q) **Mobility:** Portability and ease of transportation for rapid deployment when needed.
- r) **Remote Operation:** It can be operated remotely, allowing operators to remain at a safe distance from the jamming area.
- s) **Integration:** It should have an optional facility to integrate the jamming system with other security and surveillance systems.
- t) **Spectrum Analysis:** The advanced jammers may offer spectrum analysis capabilities to identify and counter new and evolving drone frequencies. This Feature may be a favourable in selection criterion.
- u) **Recording and Reporting:** It should have record jamming events and provide reports for post-incident analysis and documentation.

6. Proposal Submission: Interested vendors are invited to submit their proposals by 12/10/2023. Proposals should be sent to start-up Mission. Late submissions will not be considered.

7. Evaluation Criteria :Proposals will be evaluated based on the following criteria:

- a) Compliance with the Scope of Work, Technical Specifications and capabilities of the proposed Drone Jammer System.
- b) Cost-effectiveness.
- c) Start-up's experience and reputation in providing similar systems.
- d) Warranty and support offerings.

8. Proposal Requirements: Please submit a detailed proposal that includes the following:

- a) **Company Information:** Provide a brief overview of your company, including its history, experience in providing similar systems, and relevant certifications.
- b) **Technical Specifications:** Describe the technical specifications of the proposed drone jammer system, including its jamming capacity, alert mechanism, and any additional features.
- c) **Cost Proposal:** Provide a detailed cost breakdown for the supply and installation of the system, including any on-going maintenance costs.
- d) **References:** Include references from previous clients who have used your drone jammer system.
- e) **Timeline:** Provide a project timeline outlining key milestones for the supply and installation of the system.

9. Important Dates:

- a) RFP Issuance Date: 29/09/2023
- b) Proposal Submission Deadline: 12/10/2023.
- c) Evaluation and Selection: 12/10/2023 to 18/10/2023
- d) Project Commencement: 25/10/2023

Contact Information:

For any inquiries or clarifications regarding this RFP, please contact to Mr. Prakash, Inspector of Police, Drone Forensic (8289847684) or Email: "spcyberops.pol@kerala.gov.in".
