BROAD AON DETAILS FOR PROCEREMENT OF DRONE JAMMERS (VEHICLE BASED)

1. **AoN Date**. 14 Jan 2023.

2. **Item Description**. The Drone Jammer (Veh Based) should provide Multi Sensor based (at least two sensors) complete and comprehensive solution with regards to UAS/Drone and SWARMS. The system should be capable of UAS/Drones/SWARMS detection, tracking, designation & neutralization of swarm/ drones/ UAS approaching simultaneously from multiple directions. It should integrate all detection sensors and identify threats to provide operator with a composite air situation pictures & facilitate selection and management of responses for countering UAS/Drone, using jammer systems. All the sub-systems including integral power solutions should be transportable. Fast switching between wideband detection and wideband jamming modes to neutralize advanced UAS/Drone types which use multiband switching systems i.e., look through mode should be supported. The fused target data from multiple sensors must be provided to operator for quick decision making. The following are expected subcomponents in the system:-

(a) RF Detector.

(b) 3D Radar (Drone Detection Radar).

(c) RF and Satellite Navigation Jammer System.

(d) Command and Control Centre (C2 Centre).

3. **Quantity**. 20 x Drone Jammers.

4. **Categorisation**. Buy (Indian) as peer provision of chapter V of DAP 2020.

5. **Broad Parameters / ORs of item**.

RF Detector		
Parameter	**Value**	**Remarks**
Freq	100MHz to 6 GHz	
Dynamic Range	60 dB to above	
Detection Rage	10 Km or more	
Sensitivity	Detectable spectral density with 10dB SNR : 11 dB MHz	
Angular Resolution	5 deg or better	
Angular Accuracy	Better than 5 deg	
Elevation Coverage	50^0 or above	
Specifications of RF & SNS Jammer		
Directional Jammer	10 Km or above	
Omni directional Jammer	2 Km or above	
GNSS Jamming	GPS, GLONASS, Bei Dou, Galileo & IRNSS	
Freq Band	70 MHz to 6 GHz	
Radar (3D Radar ability to provide range, Azimuth, height and speed of UAS / Drone)		
Freq Band	All freqs other that 100 MHz to 6 GHz	
Operational Bandwidth	Minimum of 100 MHz	

Parameter	Value	Remarks
Instantaneous Bandwidth	Minimum of 10 MHz	
Azimuth Coverage	360^0	
Detection Ranges	5 Km to 10 Km depending upon RCS	

6. **Special Instructions on Demo if any**. Demo on NCNC basis will be carried out during the TEC stage.