

**TECHNICAL SPECIFICATION FOR CAT-1: PORTABLE COUNTER UNMANNED AERIAL VEHICLE (C-UAV)
SYSTEM (HANDHELD/ BACKPACK JAMMER) (DP-5)**

Ser	Facts	Specification	To be filled up by Supplier/ Manufacturer
Part-1: General Specification			
1.	Name of the System/Equipment	Portable Counter Unmanned Aerial Vehicle (C-UAV) System (Handheld/ Backpack Jammer)	
2.	Make & Model	To be mentioned	
3.	Country of Origin	Group A	
4.	Country of Manufacturer/Assembly	Group A	
5.	Name and Address of the Manufacturer	To be mentioned	
6.	Name and Address of the Principal	To be mentioned	
7.	Port of Shipment	From country of origin or manufacture	
8.	Year of Production	Not earlier than the year of contract	
9.	Capability	a. Be able to operate under extreme weather conditions eg. Heat, rain, fog, sand, snow etc. b. Man portable. c. Able to engage both commercial and military variant drones. d. Capable of neutralizing/ dropping/ deterring/ destroying drone from minimum 2 km distance. e. Capable of proactive and reactive jamming as per requirement while encountering threat. f. Only Handheld Jammer to be purchased.	
Part-2: Technical Specification			
10.	a. Type of Jamming	Details to be mentioned	
	b. Jamming Bands	To be mentioned (All frequency bands used by different commercial and military UAV's to be included)	
	c. Jamming Range		
	(1) Directional coverage range	To be mentioned	
	(2) Angle of coverage	(a) For vertical and horizontal to be mentioned in degree. (b) Minimum jamming coverage should be 10° on either sides from the direction of jamming.	
	d. Jamming Frequency Range	Jamming frequency range of all the frequency bands (ISM and GNSS) are to be mentioned	
	e. Jammer Mode of Operation	Frequency Selective/ Window/ Programmable	
	f. Ability to defeat drone swarm attack	To be mentioned (No of drones can be engaged at a time)	
	g. Jamming outcome	Drone jammed should proceed to anyone of the following: (1) Controlled landing in its current position. (2) Drone falls uncontrolled on ground. (3) Drone flies off in a random direction. (4) Drone returns to user set home location.	
	h. Jamming Power Output	(1) Minimum power output of 160 watt or above is preferable. (2) The power output for each band to be mentioned separately.	
	i. Antenna		
	(1) Antenna type	High Gain Directional Antenna	
	(2) Number of Antenna	To be mentioned	
	(3) Antenna Gain	To be mentioned	
	(4) Antenna Beam Width	Directional: To be mentioned	
	k. Battery type and capacity	(1) Rechargeable battery to be mentioned. (2) Voltage and AH should be enough to run the system for minimum 01 hour. (3) Battery charging time ≤ 04 hours.	



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	l. Continuous Operation/Endurance time	Minimum 01 hour	
	m. Power input	220V / 50 Hz	
	n. Aiming sight: (1) Sight type (2) Magnification	To be mentioned	
	p. Built-in display	To be mentioned	
	q. Dimension/Product size	LxWxH to be mentioned	
	r. Weight	Drone Gun include battery to be mentioned	
	s. Colour	Black/MB Green	
11.	<u>Environmental Standards</u>		
	a. Operational Temperature	-05°C to + 55°C	
	b. Humidity	95% Humidity or above	
12.	List of Standard Accessories (For full range operation)	Details to be mentioned	
13.	Product Availability	Minimum 10 years	
14.	Warranty Period	Minimum 12 Months	
15.	Model validity	Minimum 10 years	

Part-3 : Training Requirement

16.	a. Operations and maintenance training	To be provided (As per requirement of AD Dte)	
	b. Care, maintenance and preservation training	To be provided (As per requirement of Ord Dte)	
	c. Maintenance and repair training	To be provided (As per requirement of EME Dte)	

Part-4 : Repair and Maintenance Requirement less list of spares

17.	a. Provision for SST, Special Testing Equipment, Performance Test, fault finding and rectification gauges	To be provided as per requirement of EME Directorate	
	b. List of Special Service Materials (SSM)	To be provided as per requirement of EME Directorate	
	c. <u>Publication</u>		
	(1) Owners/Operations Manual in English (Book Type) including CD/DVD)	To be provided as per requirement of EME Directorate	
	(2) Workshop/Repair Manual in English (Book Type) including CD/DVD)	To be provided as per requirement of EME Directorate	
	(3) 100% updated master spare parts catalogue in English (Book Type) including CD/DVD)	To be provided as per requirement of EME Directorate	
	(4) Complete and updated master spare parts price catalogue/ List in English (Book Type) including CD/DVD)	To be provided as per requirement of EME Directorate	

Part-5 : List of Spares

18.	a. Operational/ first line spares, tools, accessories and kits (SPTA)	To be provided as per requirement of EME Directorate	
	b. Fast- and slow-moving spare parts	To be provided as per requirement of EME Directorate	

Part-6 : Tools List for Different Level of Maintenance

19.	Tools box	All essential and integral tools and accessories to be available and fitted and supplied in the tools box. (To be confirmed with submitted list)	
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Part-7: Financial Specification

20.	Financial aspects (Financial Terms and Conditions)	To be provided	
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