

TECHNICAL SPECIFICATION OF WALKIE TALKIE SET (DP-5)

Ser	Description	Technical Specification	To be filled up by the Manufacturer/ Principal
(a)	(b)	(c)	(d)
PART-1: GENERAL SPECIFICATION			
1.	Nomenclature	Walkie Talkie Set	
2.	Type of Radio	Digital	
3.	Brand	To be mentioned	
4.	Country of Origin	Group A Countries	
5.	Country of Manufacture	Group A & B Countries	
6.	Country of Assembly	Group A & B Countries	
7.	Year of Manufacture	Not before the calendar year of the contract	
8.	Name of Manufacturer with complete address (Office Address, Telephone, Fax, e-mail and website)	Details to be mentioned	
9.	Name of Principal with complete address (Office Address, Telephone, Fax, e-mail and website)	Details to be mentioned	
10.	Name of Local Agent with complete address (Office Address, Telephone, Fax, e-mail and website)	Details to be mentioned	
PART-2: TECHNICAL SPECIFICATION			
11.	Band	UHF	
12.	Frequency	To be compatible and programmable for all type of radio in any of the following specific frequency Bands: 400-470 MHz or 450-520 MHz	
13.	Modulation	Details to be mentioned	
14.	Software Performance	To be available and compatible for all type of radio system (i.e Handheld, Base, Vehicle and Repeater Station). One complete software system/ solution to be provided along with all accessories for full range of operation.	
15.	Communication Range	Minimum 3 km in open area Minimum 1 km in complete Urban area	
16.	Quantity with all accessories	As specified in the quantity list	
17.	Brand and Model	To be mentioned	
18.	Total Number of Channels	To be mentioned	
19.	Number of Preset Memory Channels	To be mentioned	
20.	Channel Spacing	To be mentioned	
21.	Power Output		
	a. Maximum power output is 4 Watt. Lower output power is acceptable of functional test.	To be mentioned	
	b. Power output at various selectable mode to be mentioned: (1) At Low Power (2) At High Power	To be mentioned	



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22.	Encryption	Advanced Encryption Standard (256 bits)	
23.	Messaging Facilities	Minimum 43 characters in one message	
24.	Integrated Bluetooth	To be available and details to be mentioned	
25.	GPS and Tracking System	To be available and have the option to monitor the whereabouts of users	
26.	Man-down applications	To be available, radios call for help when man down	
27.	Dimensions (HxWxD)	To be mentioned	
28.	Weight: Complete Weight of all accessories	To be mentioned	
29.	Battery and Charger. Details to be mentioned for following types:		
	a. Capacity (Minimum 2400 mAh Battery to be provided)	Minimum 2200 mAh battery to be provided	
	b. Model No	To be mentioned	
	c. Battery Life	Minimum 01 year must be provided.	
	d. Charger (Single charger of each radio to be provided. Charger must be able to charge the battery in rapid charging mode).	To be mentioned	
	e. Battery Quantity	Total 2 Nos. One Battery to be provided with each radio and in addition one additional battery to be provided.	
30.	Display	Large, full-color LCD, 5-line display operates in day or night mode	
31.	Antenna	Omni directional flexible and comfortable antenna. Various types of antenna and details to be mentioned	
32.	Keypad	Full keypad to be available, color of the keypad not be faded away within the warranty period	
33.	Waterproof	IP54 or better	
34.	Network Monitoring	To be available	
35.	Dispatch console	To be available	
36.	Spring Action Belt Clip	To be available	
37.	Transmitter Performance	Details to be mentioned	
38.	Receiver Performance	Details to be mentioned	
39.	Audio Performance with background noise suppression	Must have clear communication at varying signal strength and details to be mentioned	
40.	Environmental Performances		
	a. Operating Temperature	-5° C to + 55° C	
	b. Storage Temperature	-10° C to + 65° C	
	c. Splash/Rain Proof	Should sustain minimum 15 minute in the test	
	d. Shock/ Drop	Should sustain minimum 06 Drop from 122 cm on concrete	
	e. Vibration Proof	Should sustain minimum 05 minute in the test	
	f. Dust Proof	To be available	
	g. Humidity	95% and above	
41.	Radio Features	Detail list to be mentioned Optional Features (not asked in the technical specification) are also to be mentioned and price to be quoted separately as optional	
42.	List of standard items with all Accessories	Detail list to be mentioned Price to be quoted separately as per tender	



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43.	Optional Items. Price to be quoted separately		
	a. Portable Programming Kit (with full accessories)	Compatible programming kit with necessary cables and software. Price to be quoted separately	
	b. Microphone/Headset	Details to be mentioned	
	c. Surveillance Kit/ BT Headset	Details to be mentioned	
	d. Remote Speaker	Details to be mentioned	
	e. Antenna	Omni directional flexible and comfortable antenna.	
	f. Single Unit Rapid Rate Charger	Details to be mentioned	
	j. Multi-Unit Rapid Rate Charger	Details to be mentioned	
44.	Any item not listed in the specification but is needed for full range of operation, must be quoted in the list of item. Item not listed but is needed for full range of operation are to be given in free of cost unless specified.		
PART-3: TRAINING REQUIREMENT			
45.	User Training	To be provided (As per requirement of User)	
46.	Repair and Maintenance Training	To be provided (As per requirement of EME Dte)	
47.	Equipment Management Training	To be provided (As per requirement of Ordnance Dte)	
PART-4: REPAIR AND MAINTENANCE REQUIREMENT LESS LIST OF SPARES			
48.	a. Owners/ Operators Manual in English (Book Type) or in CD/DVD/Pen Drive	One Copy for each radio and additional 05 (Five) copies	
	b. Workshop/Repair Manual in English (Book Type) or in the form of CD/DVD/Pen Drive	05 (Five) copies	
	c. 100% Updated master spare parts catalogue in English (Book Type) including CD/DVD	05 (Five) copies	
PART-5: LIST OF SPARES			
49.	List of Spares	Complete List of Spares to be provided as per requirement	
PART-6: TOOL LIST FOR DIFFERENT LEVEL OF MAINTENANCE			
50.	a. Analyzer, Measuring & Testing/ Fault finding and Diagnostic Set	List to be provided	
	b. Special Service Tools (SST)	List to be provided	
	c. Special Service Materials (SSM)	List to be provided	

