

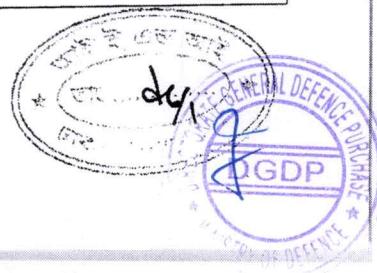
TECHNICAL SPECIFICATION OF REPEATER STATION FOR WALKIE TALKIE SET

Ser	Description	Technical Specifications	To be filled by the Principal/Manufacturer
(a)	(b)	(c)	(d)
<b>PART-1: GENERAL SPECIFICATION</b>			
1.	Nomenclature	Repeater Station for Walkie Talkie with all accessories	
2.	Brand	To be mentioned	
3.	Model	To be mentioned	
4.	Type of Radio	Digital Mobile Radio (DMR) capable of functioning in analog/digital mode (Compatible with existing analog Repeater Station of BD Army)	
5.	Country of Origin	Group A Countries	
6.	Country of Manufacture	Group A,B and C	
7.	Country of Assemble	Group A,B and C	
8.	Name of Manufacturer with complete address (Office Address, Telephone, Fax, e-mail and website)	To be mentioned	
9.	Name of Principal with complete address (Office Address, Telephone, Fax, e-mail and website)	To be mentioned	
10.	Name of Local Agent with complete address (Office Address, Telephone, Fax, e-mail and website)	To be mentioned	
<b>PART-2: TECHNICAL SPECIFICATION</b>			
11.	Frequency Band	UHF	
12.	Frequency Range	400 - 470 MHz	
13.	Total number of Channels	To be mentioned	
14.	Number of Preset Memory Channels	To be mentioned	
15.	Channel Spacing	To be mentioned	
16.	Modulation	Details to be mentioned	
17.	Multiple Access	TDMA	
18.	Display	a. Must be able to operate in bright Daylight and Night mode. b. Basic info (Rx/Tx, fault finding alarm) to be shown	
19.	Audio Performance with background noise suppression	To be available. Must have clear communication at varying signal strength. Details to be mentioned	
20.	Radios Features	a. Should be able to transmit and receive all encrypted (AES 128 or higher) data b. Other Radio Features to be mentioned.	
21.	Programming Kit and Software complete	To be available. One complete software system/ solution to be provided along with all accessories for full range of operation.	



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(a)	(b)	(c)	(d)
22.	Software Performance	To be performed and compatible with all types of system (i.e. Handheld, Base Station, Vehicle Version and Repeater Station)	
23.	Communication Range (At Antenna height of 100 ft)	a. Open Area - 15 Km Radius. b. Urban Area (i) 05 Km Radius if LOS is not clear. c. Hilly Area (i) 10 Km Radius	
24.	<u>Power Output (RF)</u>		
	a. Minimum 40 Watt or above is preferable	Specific Watt to be mentioned	
	b. <u>Power output at various selectable mode:</u>		
	(1) At Low Power	To be mentioned	
	(2) At High Power	To be mentioned	
25.	Receiver Sensitivity	To be mentioned	
26.	Transmitter Performance	To be available. Details to be mentioned.	
27.	Receiver Performance	To be available. Details to be mentioned.	
28.	Antenna System	High Gain Omni directional flexible antenna complete to be available	
29.	Antenna Gain	Minimum 8 dBm	
30.	Antenna Lightening Protection	LPI standard lightening protection system to be available and installed for the system	
31.	Lightening Arrester	Standard Lightening Arrester to be available	
32.	Feeder Cable	Cable length minimum 120 feet. Details to be mentioned	
33.	Clamps	To be available	
34.	<u>Battery System:</u>		
	a. Brand, Model, Country of Manufacture and Year of production (May be supplied from local sources).	To be mentioned	
	b. Type	Sealed maintenance free battery	
	c. Ampere (AH)	Min120 AH	
	d. Number of Battery	01No	
	e. Battery backup time	Min 30 mint	
35.	<u>Power Supply/ Charging System/</u>	Following Charging system/ facility available	
	a. Brand, Model, Country of Manufacture and Year of production	To be mentioned.	
	b. Input voltage and current	To be mentioned	
	c. Charging facilities/Cable	Necessary cable for Charging the battery system to be provided	



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36.	<u>Automatic Voltage Stabilizer</u>	To be available	
	(a) Brand, Model, Country of Manufacture and Year of production	To be mentioned.	
	(b) Capacity (VA), Input and Output voltage range	To be mentioned	
37.	<u>Uninterrupted Power Supply (UPS)</u>	Off line UPS to be available	
	(a) Capacity	To be mentioned	
	(b) Input and Output Voltage range	To be provided	
	(c) Battery of UPS	(1) Type, Brand, Model, country of Manufacture, and Year of production - To be mentioned.  (2) Voltage and Ampere to be mentioned	
	(d) Back up time	Minimum 30 min	
38.	Duplexer Separation	To be mentioned	
39.	Integration Interfaces	Details to be mentioned	
40.	<u>System Types Support and Network compatibility</u>		
	a. Analog Conventional with Digital System		
	b. The System must be compatible for the total UHF network		
41.	List of Standard Accessories	List to be submitted for full range of operation	
42.	List of Optional Accessories	List to be submitted	
43.	<u>Physical Specification</u>		
	a. Dimension (H x W x D)	To be mentioned	
	b. Weight at functional condition	Detail to be mentioned	
	d. Color	Manufacturer standard (To be specified by Bidder)	
44.	<u>Environmental Standard /Issues</u>		
	a. Vibration Proof	05 (Five) minutes @250 RPM (Revolution Per Minute)	
	b. Dust Proof	To be available and Standard to be specified	
45.	<u>Operating/ Storage Condition</u>		
	a. Operating Temperature range	-5°C to +55°C	
	b. Storage Temperature range	-10°C to +60°C	
	c. Humidity	95% and above	
46.	Any items/accessories not mentioned above but required for full range of operation, of the offered Repeater Station with all accessories are to be mentioned and must be supplied free of cost	To be confirmed	
47.	Warranty	02 (Two) years	
48.	Model Validity	Minimum 05 (Five) years	



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49.	After Sales Service Support	03 (Three) years from the end of Warrantee period	

**PART III: TRAINING REQUIREMENT**

50.	User Training	As per requirement
51.	Operational, Repair and Maintenance Training	To be provided (As per reqr of EME Dte)
52.	Equipment Management Training	Not Reqr

**PART- IV: REPAIR AND MAINTENANCE REQUIREMENT LESS LIST OF SPARES**

53.	<b>Books and Publications</b>	
	a. Owners/ Operators Manual in English (Book Type) or in CD/DVD/Pen Drive	As per user requirement
	b. Workshop /Repair Manual in English (Book Type) including CD/DVD	As per user requirement of Sigs Dte and EME Dte
	c. 100% Updated Master Spare Parts Catalogue/ List in English (Book Type) including CD/DVD	As per user requirement of Sigs Dte and EME Dte
	d. Complete and updated master spare parts price catalogue in English (Book Type) including CD/DVD	As per user requirement of Sigs Dte and EME Dte

**PART- V: LIST OF SPARES**

54.	List of Spares	Complete list of spares to be provided as per requirement
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**PART- VI: TOOL LIST FOR DIFFERENT LEVEL OF MAINTENANCE**

55.	a. Analyzer, Measuring &Testing/ Fault finding and Diagnostic Set (If required)	List to be provided (As per requirement of Sigs Dte and EME Dte)
	b. Special Service Tools (If required)	List to be provided (As per user requirement of Sigs Dte and EME Dte)
	c. Special Service Materials (If required)	List to be provided (As per user requirement of Sigs Dte and EME Dte)

