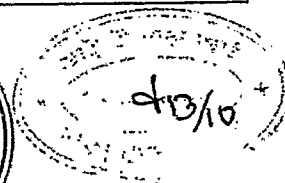


TECHNICAL SPECIFICATION OF REPEATER STATION FOR WALKIE TALKIE (DP-5)

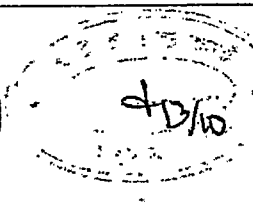
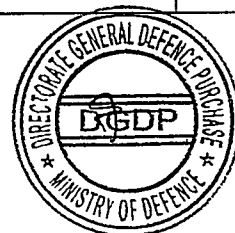
Ser	Description	Technical Specifications	To be filled by the Principal/Manufacturer
(a)	(b)	(c)	(d)
<u>PART-1: GENERAL SPECIFICATION</u>			
1.	Nomenclature	Repeater Station for Walkie Talkie with all accessories	
2.	Brand	To be mentioned	
3.	Model	To be mentioned	
4.	Type of Radio	Digital Mobile radio (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	To be mentioned	
7.	Country of Assemble	To be mentioned	
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	
<u>PART-2: TECHNICAL SPECIFICATION</u>			
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.	Display	a. Must be able to operate in bright Daylight and Night mode. b. Basic info (Rx/Tx, fault finding alarm) to be shown	
18.	Audio Performance with background noise suppression	To be available. Must have clear communication at varying signal strength. Details to be mentioned	
19.	Radios Features	a. Should be able to transmit and receive all encrypted (AES 128 or higher) data b. Other Radio Features to be mentioned.	
20.	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.	



Ser	Description	Technical Specifications	To be filled by the Principal/Manufacturer
(a)	(b)	(c)	(d)
21.	Software Performance	To be performed and compatible with all types of system (i.e. Handheld, Base Station, Vehicle Version and Repeater Station)	
22.	Communication Range	a. Open Area - 10 Km Radius. b. Urban Area (i) 10 Km Radius. (ii) Up to 05 km radius (if LOS is not clear) c. Hilly Area (i) 10 Km Radius. (ii) Up to 05 km radius (if LOS is not clear)	
23.	<u>Power Output (RF)</u>		
	a. Minimum 40 Watt or above is preferable	Specific Watt to be mentioned	
	<u>b. Power output at various selectable mode:</u>		
	(1) At Low Power	To be mentioned	
	(2) At High Power	To be mentioned	
24.	Receiver Sensitivity	To be mentioned	
25.	Transmitter Performance	To be available. Details to be mentioned.	
26.	Receiver Performance	To be available. Details to be mentioned.	
27.	Antenna System	High Gain Omni directional flexible antenna complete to be available	
28.	Antenna Gain	Minimum 8 dBm	
29.	Antenna Lightning Protection	LPI standard lightning protection system to be available and installed for the system	
30.	Lightening Arrester	Standard Lightening Arrester to be available	
31.	Feeder Cable	Cable length minimum 120 feet. Details to be mentioned	
32.	Clamps	To be available	
33.	<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 1 hour	
34.	<u>Power Supply/ Charging System/</u>		
	Following Charging system/ facility available		
	a. Brand, Model, Country of Manufacture and Year of production	To be mentioned.	



Ser	Description	Technical Specifications	To be filled by the Principal/Manufacturer
(a)	(b)	(c)	(d)
	b. Input voltage and current	To be mentioned	
	c. Charging facilities/Cable	Necessary cable for Charging the battery system to be provided	
35.	Automatic Voltage Stabilizer	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	
36.	Uninterrupted Power Supply (UPS)	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 1 Hour	
37.	Duplexer Separation	To be mentioned	
38.	Integration Interfaces	Details to to be mentioned	
39.	Equipment Rack	Minimum 6U Rack	
	System Types Support and Network compatibility		
40.	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.	Physical Specification		
	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.	Environmental Standard /Issues		
	a. Shock/ Vibration Proof	05 (Five) minutes @250 RPM (Revolution Per Minute)	
	b. Dust Proof	To be available and Standard to be specified	
45.	Operating/ Storage Condition		
	a. Operating Temperature range	-5°C to +55°C	
	b. Storage Temperature range	-10°C to +60°C	
	c. Humidity	95% and above	
46.	IP Standard	To be mentioned	



Ser	Description	Technical Specifications	To be filled by the Principal/Manufacturer
(a)	(b)	(c)	(d)
47.	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	
48.	Warranty	02 (Two) years	
49.	Model Validity	Minimum 05 (Five) years	
50.	After Sales Service Support	03 (Three) years from the end of Warrantee period	
PART III: TRAINING REQUIREMENT			
51.	User Training	As per requirement	
52.	Operational, Repair and Maintenance Training		
53.	Equipment Management Training		
PART-IV: REPAIR AND MAINTENANCE REQUIREMENT LESS LIST OF SPARES			
54.	Books and Publications		
	a. Owners/ Operators Manual in English (Book Type) or in CD/DVD/Pen Drive	As per user requirement of Sigs Dte and EME Dte	
	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	
PART- V: LIST OF SPARES			
55.	List of Spares	Complete list of spares to be provided as per requirement	
PART- VI: TOOL LIST FOR DIFFERENT LEVEL OF MAINTENANCE			
56.	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)	

