

FOR OFFICIAL USE ONLY

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Push 1431  
December 2024

06.06.0000.215.49.24/Re-Eval

**RE-EVALUATION OF THE SPECIFICATION OF RADIO SET HIGH FREQUENCY (HF) MANPACK (MILITARY VERSION)**

Reference:


A. Army Headquarters, General Staff Branch, Signal Directorate letter number 23.01.901.032.03. 099.01.15.12.24 dated 15 December 2024 (Not to all).

1. Please be informed that Bangladesh Army has convened a Board of Officer (BoFO) to evaluate the suitable models of Radio Set High Frequency (HF) Manpack (Military Version). To facilitate this endeavor, interested vendors/firms/local agents of the manufacturers are requested to submit their offers directly to Army Headquarters, General Staff Branch, Signal Directorate with an intimation to this office by **15 January 2025** fulfilling the requirements outlined below:

- a. Offer as per technical specification. In this regard, blank approved technical specification is enclosed herewith.
- b. Letter of authorization by Manufacturer/Principal mentioning that the said company will be the local vendor/agent for offered model.
- c. Manuals (Original Printed by Manufacture) and CD.
- d. Catalogue (Original Printed by Manufacture) and CD.
- e. Catalogue of Spare Parts (Original Printed by Manufacture) and CD.
- f. Brochure (Original Printed by Manufacture) and CD.
- g. Enlistment Certificate of DGDP and BTRC.
- h. Valid Certificate from Original Equipment Manufacturer (OEM) as authorized agent.
- j. Certification from manufacturer on permission to export the said system to Bangladesh Army.

2. All the documents are to be submitted on Manufacture's/Principal's official pad including official stamp duly signed by proper authority.

3. Forwarded for your information and necessary action please.

  
MD ZAHIDUL KABIR  
Major  
For Director General

Enclosure:

1. Technical Specification-03 (Three) Pages Only.

Distribution:

External:

Information:

Army Headquarters, General Staff Branch (Coordination)

Army Headquarters, General Staff Branch  
Weapon Equipment & Statistics Directorate

Army Headquarters, General Staff Branch  
Signal Directorate

Army Headquarters  
Master General of the Ordnance Branch  
Ordnance Directorate

Action:

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All Concerned Supplier/Firm

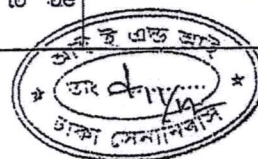
Internal:

IT Section (For uploading to website)

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**GENERAL SPECIFICATION OF RADIO SET HIGH FREQUENCY (MANPACK) (MILITARY VER)**

Ser	Fact/Description	Technical Specification	To be filled up by principal/manufacture
(a)	(b)	(c)	(d)
<b>PART - 1 : GENERAL SPECIFICATION</b>			
1.	Nomenclature	Radio Set High Frequency (Manpack) (Military Version)	
2.	Type of Radio	Military Version Software Defined Radio	
3.	Brand Name/Make	To be mentioned	
4.	Model	To be mentioned	
5.	Country of Origin	Group A and B countries	
6.	Country of Manufacture	Group A and B countries	
7.	Country of Assembly	Group A and B countries	
8.	Year of Manufacture	Not before the calendar year of the contract	
9.	Name of Manufacture with complete address (Addresses, Telephone, Fax, Email & Website)	Details to be mentioned	
10.	Name of Principal with complete address (Addresses, Telephone, Fax, Email & Website)	Details to be mentioned	
11.	Name of Local Agent with complete address (Addresses, Telephone, Fax, Email & Website)	Details to be mentioned	
12.	Port of Shipment	Must be from the country of Manufacturing/ Assembly. Trans-shipment not allowed.	
13.	Colour	MB Green	
<b>PART - 2 : TECH SPEC</b>			
14.	Frequency Range	1.6 MHz - 30 MHz. Below 1.6 MHz and above 30 MHz are allowed	
15.	Frequency Band	HF	
16.	Channel Spacing	To be mentioned	
17.	Number of Preset Memory Channel	Minimum 25. Specific memory channel is to be mentioned	
18.	Number of Total Working Channel	To be mentioned	
19.	<b>Communication Range (Manpack Tactical Communication)</b>		
		Plain Land	Urban Area
	Minimum Range	15 km	10 km
			Hilly Area
			06 km
20.	Antenna Type	All Types of Antennas to be mentioned	
21.	Antenna Tuning Unit (ATU)	To be mentioned	
22.	<b>Communication Security</b>		
a.	Encryption	AES 256 or higher mode encryption must be available. Details to be mentioned	
b.	Frequency Hopping	To be available. Details number of hops to be mentioned	
c.	Other Types of Security (Optional)	Any other types of communication security (if available) are to be mentioned	



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23.	Dimension (W x D x H) (Without Antenna)	To be mentioned. Picture and schematic diagram is to be provided	
24.	Weight of the Radio set (At Functional Condition)	Maximum 8 kg with all accessories in operational condition. Details to be mentioned	
25.	Power Supply System	a. Must be operated from DC rechargeable and replaceable battery. Detail of brand, model, country of manufacture and battery rating are to be mentioned	
		b. The battery charger should have charging facility from AC power 220 VAC $\pm$ 20% at 50 Hz. Charging from solar charger at ambient light (optional)	
		c. 01 Set additional rechargeable battery to be provided	
26.	Battery-life/Operating Hours	$\geq$ 8 hours of continuous operation (at high power and full duplex voice, RX: TX 9:1)	
27.	<b>Transceiver</b>		
	a. RF Power Output	Minimum 15 watt	
	b. Power Modes	Scalable Power Output modes are to be available. Details to be mentioned	
	c. Modulation Type	All modulation types are to be specified with required technical data	
	d. RF Input Impedance	To be mentioned	
	e. Receiver Sensitivity	To be mentioned	
	f. AF Output	Details to be mentioned	
	g. Squelch Type	Details to be mentioned	
h. Types of Waveforms	Details to be mentioned		
28.	<b>Programming Software (Tools Kit, Laptop etc)</b>		
	a. Program Software	To be available	
	b. Tool Kit/Fill Gun	To be available (if available)	
	c. Requirement of Laptop, PDA, Android Devices etc. (Optional)	To be mentioned (if required)	
29.	<b>Mandatory Features</b>		
	a. Automatic Link Establishment (ALE)	Available (3G ALE or above)	
	b. Data Communication	To be available and rate to be mentioned	
	c. Built in Test (BITE)	To be available	
	d. Instant Messaging Facility	To be mentioned	
e. GPS Facility	To be available		
30.	<b>Optional Features</b>		
	Battle Management System	Support BMS (Battlefield Management System) or similar standards	
31.	<b>Operating/Storage Condition</b>		
	a. Operating Temperature	-10° C to +55° C	
	b. Storage Temperature	-20° C to +60° C.	
	c. Humidity Permissible Condition for Operation	Maximum 95%	
	d. Operation during Fog, Rain and Snow	To be possible	
32.	<b>Environmental Standards</b>		
	a. Shock/Drop Proof	Military Standard 810 F or higher	
	b. Water/Immersion Proof		
	c. Dust Proof		
	d. Vibration Proof	As per operating and storage	
e. Temperature Proof			



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Handwritten signature and official stamp of another authorized official.

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(a)	(b)	(c)	(d)
		temperature	
33.	List of Standard Accessories	Details to be mentioned	
34.	List of Optional Accessories	Details to be mentioned	
35.	Warranty	2 (Two) Years	
36.	After Sales Service	5 (Five) Years	
37.	Model Validity	Minimum 8 (Eight) years from signing of contract	
38.	Any other	If any item not specifically mentioned above but required technically for full range of operation, the bidder should specify and quote such item(s) in their offer. In case of failure to specify and quote, the bidder must provide such items free of cost	
<b>PART - 3: TRAINING REQUIREMENT</b>			
39.	User Training	To be provided (As per requirement of Signals & EME Directorate)	
40.	Operations, Repair and Maintenance Training	To be provided (As per requirement of Signals & EME Directorate)	
41.	Inventory Management Training	To be provided (As per requirement of Ordnance Directorate)	
42.	Publication on Training	To be provided	
<b>PART - 4: REPAIR AND MAINTENANCE REQUIREMENT LESS LIST OF SPARES</b>			
43.	<b>Books &amp; Publication</b>		
	a. Owners/Operations manual in English (Book Type) including CD/DVD)	To be provided (As per requirement of Signals & EME Directorate)	
	b. Workshop/Repair manual in English (Book Type) including CD/DVD	To be provided (As per requirement of Signals & EME Directorate)	
	c. 100% Updated master spare parts catalogue in English (Book Type) including CD/DVD)	To be provided (As per requirement of Signals & EME Directorate)	
	d. Complete and updated master spare parts price catalogue / list in English (Book Type) including CD/DVD)	To be provided (As per requirement of Signals & EME Directorate)	
<b>PART - 5: LIST OF SPARES</b>			
44.	List of standard spare parts, tools and accessories	To be provided (As per requirement of Signals & EME Directorate)	
<b>PART - 6: TOOL LIST FOR DIFFERENT LEVEL OF MAINTENANCE</b>			
45.	a. Analyser, Measuring Testing/ Fault finding and Diagnostic set	To be provided (As per requirement of Signals & EME Directorate)	
	b. Special Service Tools (SST)	To be provided (As per requirement of Signals & EME Directorate)	
	c. Special Service Materials (SSM)	To be provided (As per requirement of Signals & EME Directorate)	
<b>PART - 7: FINANCIAL SPECIFICATION</b>			
46.	Financial implication /Specification	To be mentioned	

