

CORRIGENDUM

The specification of **Radio Communication Equipments** floated vide this office N.I.T. No. F&ES/PS/2003/103/Pt-III/2332-40 dated 23.06.2015 will be read as follows:

1) **Walkie Talkies Set:-**

1	GENERAL: The portable radios should be Analog /digital for Dual capacity in direct mode (DMR), improved coverage and conservation of battery for long life. The following features are common to all radios i.e.2 programmable side buttons The radios should be capable of interoperation with existing Analog Radios in Analog mode. The following additional features should also be available in the radios.	
A	Time-Out-Timer -- Disallows inadvertent keying of the transmitter for extended periods of time, to prevent locking up one of the communication channels unnecessarily. The time can be programmed to best suit the application.	
B	Low Battery Alert -- This alerts the user to recharge or replace the radio's battery before the excessive drain ceases operation.	
C	The radios should be supplied with single unit rapid charger capable of charging Li-Ion batteries supplied.	
D	The Radios should conform to MIL standards 810 C,D,E &F for durability & reliability and preferably meet IP 54 standards.	
Digital handheld Portable Radio.		
Sl. No.	Technical Specifications	Description
1	Number of Channels	16 or higher
2	Channel Spacing	12.5KHz or better
3	Frequency Band	136 - 174 MHz in same radio
4	Type of Emission	CTCSS/DCSS 4 FSK Modulation complying to Open Standard Digital Protocol as defined by ETSI and TDMA based.
5	Type of Operation	Simplex Press to talk
6	Type of Antenna	Rugged flexible aerial antenna
7	Weight	Less than 375 gms without battery.
8	Power source	2200 maH, Li-ion rechargeable battery to meet the operating time of 8 Hours with 5:5:90 duty cycle
TRANSMITTER		
1	RF Power Output	Programmable / switchable up to 5 watt or higher (136 - 174 Mhz)
2	Modulation limiting	'+/- 2.5 KHz @12.5 Khz and +/- 5.0 KHz at 25 KHz

3	FM Modulation	11 KOF 3 E for 12.5 KHz and 16 KOF3E for 25 KHz
4	Digital Modulation	4 FSK Modulation 7K 60FXE, TDMA based
5	Frequency stability	+ 0.5 ppm or better
6	Conducted/ Radiated Emission	Better than -36 dBm below 1 GHz
7	Audio Distortion	Less than 3% @ 1KHz
8	FM Hum/ Noise	(i) 25 KHz : 45 dB or better (ii) 12.5 KHz : 40 dB or better
RECEIVER		
1	Sensitivity	(i) Analog : Less than 0.35 μ V for 12 dB SINAD or better (ii) Digital : 0.30 μ V at 5%BER or better
2	Selectivity (Adjacent Channel)	60 dB @ 12.5 KHz or better 70 dB @25 KHz or better
3	Inter modulation	65 dB as per ETSI stds.
4	Audio Response (6 dB / Octave pre-emphasis from 300-3000Hz)	.+1, -3 dB
5	Audio Output	500mW or higher
6	Conducted Spurious Emission	'-57 dBm or better
7	Environmental	(a) Operating Temperature: -30 °C to + 60°C (b) Storage Temperature : -40 °C to + 80°C (c) Humidity -90% at 50°C (per Mil standard 810 E)
8	Battery Charger	Single Unit Charger to suit the chemistry of the battery offered
9	Programming	Through USB cable
10	LITERATURE	(i) User manual with each radio set
	OTHER CONDITIONS	(i) Warranty for 24 months (ii) The firm should enclose DPL licence for Supplying radio eqpt in India (iii) Bidder must have local after sales & warranty support

2) **Base Stations 25 Watts**:- Same as per earlier specification.

3) **HF Sets**:- The item of Sl. No.3 i.e. **HF Sets** is hereby cancelled.

Sd/-
Director,
Fire & Emergency Services,
Assam, Guwahati.