

Bid Document

Bid Details	
Bid End Date/Time	23-07-2020 09:00:00
Bid Opening Date/Time	23-07-2020 09:30:00
Bid Life Cycle (From Publish Date)	90 (Days)
Bid Offer Validity (From End Date)	65 (Days)
Ministry/State Name	Ministry Of Defence
Department Name	Department Of Defence
Organisation Name	Indian Army
Office Name	*****
Total Quantity	5
Item Category	Analog Transceiver-Handheld (PAC Only)
MSE Exemption for Years of Experience and Turnover	No
Startup Exemption for Years of Experience and Turnover	No
Bid to RA enabled	Yes
Inspection Required	No

EMD Detail

Required	No
----------	----

ePBG Detail

Required	No
----------	----

Splitting

Bid splitting not applied.

Analog Transceiver-Handheld (5 pieces) (Under PAC)

Make	icom
Model	ic-f1000t

Technical Specifications

[* As per GeM Category Specification](#)

Specification	Specification Name	Values	Bid Requirement (Allowed Values)
PERFORMANCE FEATURES	Frequency Range (MHz)	136-174	136-174
	Types of Bandwidth	VHF Full Band	VHF Full Band
	Channel Capacity	17	17
	Channel Spacing	12.5	*
	Frequency Spread without degradation in Tx / Rx Specification	6	*
	Frequency Stability (\pm)	5	*
	Antenna Impedance	50	*
TRANSMITTER	RF Power output setting of transmitter	Programmable	*
	RF Power output Range	1 to 5 Watts (VHF)	1 to 5 Watts (VHF)
	Type of Emission	11K0F3	*
	Frequency deviation	\pm 2.5Khz max. for 100% at 1KHz	*
	Modulation Sensitivity	1 to 10mV at 1 KHz at mic. Input for +/- 1.5 KHz standard deviation	*
	Modulation Distortion	4	*
	Modulation Fidelity	+1, -3 dB of 6dB/ octave pre-emphasis charactrestics from 350 Hz to 2700 Hz with 1KHz as reference	*
	Spurious & Harmonics Suppression (dB)	55	*
RECEIVERS	VSWR	1	*
	Sensitivity at 12 dB SINAD	0.3	*
	Squelch Sensitivity of receiver	0.25	*
	Adjacent Channel Selectivity (dB)	65	*
	Image Rejection (dB)	70	*
	Audio Output, (with less than 5 % distortion	250	*

	at 1 KHz reference measured at specified AF output)		
	Audio Response	+1, -3 dB of 6dB/octave de-emphasis characteristics from 350 Hz to 2700 Hz with 1KHz as reference	*
ACCESSORIES	Antenna	Helical Antenna	*
	Programming kit	No	*
	Technical repairing & maintenance manual with complete block diagram, circuit layout etc in soft as well as hard copy	Yes	*
	Battery charger	Yes	*
	Output voltage of the charger	7.4 V	*
	Battery charger suitable for	Lithium-ion	*
	Charging time for standard mode	6 to 14hrs	*
	Charging time for rapid mode	1 to 3 hrs	*
	Number of spare batteries with each Radio Set	2	2
POWER SOURCE/BATTERY	Chemistry of Battery	Li-ion	*
	Voltage rating of the Battery	7.4	*
	capacity of Battery (milli AH)	2000	*
VARIOUS FEATURES	Simple Press to talk	yes	*
	Protection against high VSWR	yes	*
	Low Battery Alert	yes	*
	CTCSS or DCS	yes	*
	Capable of VOX for hands-free operation	Yes	*
	PTT ID Encode	Yes	*
	Busy Channel Lockout	No	*
	Channel Scanning with call quieting facility	Yes	*
	Selective Call Decode	Yes	*

	Capable of being Killed/Unkilled	Yes	*
	Emergency SOS/SIREN	Yes	*
	LCD Display (Min 4 characters)	Yes	*
	Automatic Number Identification (ANI)	Yes	*
	Talk-around	Yes	*
	DTMF Keypad	Yes	*
	DTMF Microphone	Yes	*
	Keypad Lock	Yes	*
	Built-in GPS	No	*
	Battery Strength Bar Indicator or Digital Voltage read out	Yes	*
	Signaling	2Tone	*
GENERIC	Internal Speaker impedance	4	*
	External Speaker impedance	8	*
	Output Termination	BNC female socket	*
	Weight of Transceiver with Battery	380	*
	Other features	DL REQUIRED FROM WPC	*
SAFETY	Protections	Reverse polarity protection & short circuit protection	*
SERVICE	Warranty	2	2.0
OPERATING CONDITION	Minimum Operating temperature	-10	*
	Maximum Operating temperature	55	*
	Minimum Storage temperature	-40	*
	Maximum Storage temperature	70	*
	Humidity non-condensing (at +40 oC)	95	*
CERTIFICATION	BIS registration under CRS of Meity for the battery	Yes	*
	BIS registration	R-93002046,28-4-2017	*

	Number and Date for the Battery		
TEST REPORT DETAILS	conformity to Dry Heat for 16 hrs at a maximum temp in accordance with IS:9000/part-3/section-5/1977 latest	No	No
	conformity to Cold Test for 4 hrs at a minimum temp in accordance with IS:9000/part-2/section-4/1977 latest	No	No
	conformity to Damp Heat (Cyclic)Test for 2 Cycles of 24 h each at a temp of 40 degree C & 95% RH in accordance with I S:9000/part-5/section-1/ 1991 latest	No	No
	Drop Test (in packed condition): IS 9000 Part VII/SEC,3/1979 (reaffirmed 2004): Six drops one on each face, Height of fall 1000 mm incase of handheld items and 500 mm in case of other items	Yes	Yes
	Vibration Test: IS 9000 Part VIII/1981 (reaffirmed 2006): 12 hours, 4 hours along with each axis, at 15-150 Hz and with amplitude of 0-15 mm/2g	Yes	Yes
	Storage Test: IS 9000 Part III/SEC 5/1977 & Part II/ SEC 4/1977 (reaffirmed 2004): -40 deg C for 5 hours, then raise the temperature to 70 deg C for 16 hours	No	No
	Bump Test: IS 9000 Part VII/SEC 2/1979 (reaffirmed 2004): 4000 bumps at peak acceleration of 400	Yes	Yes

	m/s sq		
	Availability of the test report from Central Govt/ NABL/ ILAC accredited lab to prove conformity to the specification	No	No
	If yes test report to furnished,to the buyer on demand	No	*
	Test Report Number and date for the specification test	NA	*
	Name and address of the Lab for the specification test	NA	*

* Specifications highlighted in bold are the Golden Parameters.

* Bidders may note that In respect of non-golden Parameters, the specifications 'Values' chosen by Buyer will generally be preferred over 'Bid requirement (allowed Values) by the Buyer.

Additional Specification Documents

Consignees/Reporting Officer and Quantity

S.No.	Consignee/Reporting Officer	Address	Quantity	Delivery Days
1	*****	*****BANGALORE	5	30

Bid Specific Additional Terms and Conditions

1. Scope of supply (Bid price to include all cost components) : Supply Installation Testing and Commissioning of Goods

[This Bid is also governed by the General Terms and Conditions](#)

---Thank You---