

### Bid Document

Bid Details	
Bid End Date/Time	28-07-2020 09:00:00
Bid Opening Date/Time	28-07-2020 09:30:00
Bid Life Cycle (From Publish Date)	90 (Days)
Bid Offer Validity (From End Date)	30 (Days)
Ministry/State Name	Ministry Of Defence
Department Name	Department Of Defence
Organisation Name	Indian Air Force
Office Name	*****
Total Quantity	6
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	No
Inspection Required	No

### EMD Detail

Required	No
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### ePBG Detail

Required	No
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### Splitting

Bid splitting not applied.

### Analog Transceiver-Handheld ( 6 pieces ) ( Under PAC )

Make	motorola
Model	gp338

### Technical Specifications

[\\* As per GeM Category Specification](#)

Specification	Specification Name	Values	Bid Requirement (Allowed Values)
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PERFORMANCE FEATURES	<b>Frequency Range (MHz)</b>	136-174	136-174
	<b>Types of Bandwidth</b>	VHF Full Band	VHF Full Band
	<b>Channel Capacity</b>	17	17
	Channel Spacing	12.5	*
	Frequency Spread without degradation in Tx / Rx Specification	6	*
	Frequency Stability (± )	5	*
	Antenna Impedance	50	*
TRANSMITTER	RF Power output setting of transmitter	Programmable	*
	<b>RF Power output Range</b>	1 to 5 Watts (VHF)	1 to 5 Watts (VHF)
	Type of Emission	11K0F3	*
	Frequency deviation	± 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 characteristics 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 at 1 KHz reference measured at specified AF output)	250	*
	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	25	*
	Battery charger suitable for	Ni-Mh	*

	Charging time for standard mode	6 to 14hrs	*
	Charging time for rapid mode	1 to 3 hrs	*
	<b>Number of spare batteries with each Radio Set</b>	2	2
POWER SOURCE/BATTERY	Chemistry of Battery	NiMh	*
	Voltage rating of the Battery	7	*
	capacity of Battery (milli AH)	1400	*
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	No	*
	PTT ID Encode	Yes	*
	Busy Channel Lockout	No	*
	Channel Scanning with call quieting facility	Yes	*
	Selective Call Decode	No	*
	Capable of being Killed/Unkilled	No	*
	Emergency SOS/SIREN	No	*
	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	No	*
	Signaling	2Tone	*
GENERIC	Internal Speaker impedance	4	*
	External Speaker impedance	8	*
	Output Termination	BNC female socket	*
	Weight of Transceiver with Battery	600	*
	Other features	Enforcement	*
SAFETY	Protections	Reverse polarity protection & short circuit protection	*

SERVICE	<b>Warranty</b>	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 Number and Date for the Battery	R-81002933	*
TEST REPORT DETAILS	<b>conformity to Dry Heat for 16 hrs at a maximum temp in accordance with IS:9000/part-3/section-5/1977 latest</b>	No	No
	<b>conformity to Cold Test for 4 hrs at a minimum temp in accordance with IS:9000/part-2/section-4/1977 latest</b>	No	No
	<b>conformity to Damp Heat (Cyclic)Test for 2 Cycles of 24 h each at a temp of 40 degree C &amp; 95% RH in accordance with IS:9000/part-5/section-1/1991 latest</b>	No	No
	<b>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</b>	Yes	Yes
	<b>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</b>	Yes	Yes
	<b>Storage Test: IS 9000 Part III/SEC 5/1977 &amp; Part II/ SEC 4/1977 (reaffirmed 2004): -40 deg C for 5 hours, then raise the temperature to 70 deg C for 16 hours</b>	No	No
	<b>Bump Test: IS 9000 Part VII/SEC 2/1979 (reaffirmed 2004): 4000 bumps at peak acceleration of 400 m/s</b>	Yes	Yes

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<b>Availability of the test report from Central Govt/ NABL/ ILAC accredited lab to prove conformity to the specification</b>	No	No
If yes test report to furnished,to the buyer on demand	No	*
Test Report Number and date for the specification test	N/A	*
Name and address of the Lab for the specification test	N/A	*

\* 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	*****	*****JAMMU	6	30

#### Bid Specific Additional Terms and Conditions

- 1.IMPORTED PRODUCTS: In case of imported products, OEM or Authorized Seller of OEM should have a registered office in India to provide after sales service support in India. The certificate to this effect should be submitted.
- 2.Availability of Service Centres: Bidder/OEM must have a Functional Service Centre in the State of each Consignee's Location in case of carry-in warranty. (Not applicable in case of goods having on-site warranty). If service center is not already there at the time of bidding, successful bidder / OEM shall have to establish one within 30 days of award of contract. Payment shall be released only after submission of documentary evidence of having Functional Service Centre.
- 3.Dedicated /toll Free Telephone No. for Service Support : BIDDER/OEM must have Dedicated/toll Free Telephone No. for Service Support.
- 4.Escalation Matrix For Service Support : Bidder/OEM must provide Escalation Matrix of Telephone Numbers for Service Support.

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

**---Thank You---**