

Bid Document

Bid Details	
Bid End Date/Time	21-07-2020 10:00:00
Bid Opening Date/Time	21-07-2020 10:30:00
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	Border Road Organisation
Office Name	*****
Total Quantity	30
Item Category	Digital Transreceiver-Handheld
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
Estimated Bid Value	460500

EMD Detail

Required	No
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ePBG Detail

Required	No
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Splitting

Bid splitting not applied.

Digital Transreceiver-Handheld (30 pieces)

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
	Display	Yes	*
	Channel Capacity	260	260
	Channel Spacing	12.5	*
	Frequency Stability (±)	0.5	*
	Technology	Digital TDMA (2-slot)	*
	Air Interface Standard	Open Standard DMR Tier-II	*
	Antenna Impedance	50	*
TRANSMITTER	RF Power output	programmable	*
	RF Power output Range	1 to 5 Watts (VHF)	1 to 5 Watts (VHF)
	FM Emission	11K0F3E,7K60FXE,7K60FXD,7K60FXW,7K60F1W	*
	Digital Modulation	4FSK	*
	Transmitter FM Hum/Noise (dB)	-40	*
	Transmitter Modulation Limiting	+/- 2.5 KHz @12.5KHz	*
	Transmitter Adjacent Channel Power (dBc)	-60	*
	Audio Response	+1,-3 dB	*
	Audio Distortion	3	*
RECEIVERS	Digital Vocoder	AMBE+2	*
	Analog Receivers Sensitivity for 12dB SINAD	0.2	*
	Digital Receiver Sensitivity at 5% BER	0.14	*
	Receiver Adjacent Channel Selectivity (dB)	60	*
	Inter Modulation (dB)	70	*
	Receiver Audio Output	1000	*
	Receiver Rated Audio	3	*

	Distortion		
ACCESSORIES	Antenna for Handheld Transreceiver	Rugged flexible Helical	*
	Programming kit	yes	*
	User Manual with each radio sets provided free of cost in soft as well as hard copy	yes	*
	Technical repairing & maintenance manual with complete block diagram, circuit layout etc in soft as well as hard copy	yes	*
	Battery Charger	Yes	*
	Input voltage	230 V \pm 10%,50 Hz	*
	Output voltage	-	*
	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 charging pockets	1	*
	Number of spare batteries with each Radio Set	1	*
	Indicator	For all modes of charging status	*
	One good quality leather case with belt clip & shoulder strip	No	*
VARIOUS FEATURES	Simple Press to talk	YES	*
	Low Battery Alert	yes	*
	CTCSS or DCS	yes	*
	Mixed Mode Operation (analog & digital)	yes	*
	Signaling	2Tone,5Tone,DTMF,Digital	*
	Busy Channel Lockout	Yes	*
	Selective Call Decode	Yes	*
	Capable of VOX for hands-free operation	Yes	*
	If yes,handfree kit	Yes	*

	provided with radio set		
	handfree kit variants	Ear plug	*
	PTT ID Encode	Yes	*
	Channel Scanning with call quieting facility	Yes	*
	Emergency SOS/SIREN	Yes	*
	Talk-around	Yes	*
	Automatic Number Identification (ANI)	Yes	*
	Text message and predefined message	Yes	*
	Keypad	Yes	*
	Availability of Inbuilt GPS system	Yes	*
	If yes, Horizontal accuracy	5	*
	Time to first fix(TTFF) cold start	1	*
	Time to First Fix(TTFF) Hot start	10	*
	Capable of being Killed/Unkilled	Yes	*
	communication security	Inbuilt encryption	*
	Protocols supported in case of third party encryption	-	*
GENERIC	Weight of hand held Transreceiver with Battery	340	*
	Other features	-	*
POWER SOURCE/BATTERY	Chemistry of Battery	Lithium-ion	*
	Voltage rating of the Battery	7.4	*
	capacity of Battery (mAH)	2000	*
	Average Battery duty cycle '5/5/90 for digital Transmission	14	*
	Average Battery duty cycle '5/5/90 for analog Transmission	11	*
CERTIFICATION	BIS registartion under CRS of Meity for the battery	Yes	*

	BIS registration number and date for the battery	-	*
	EMI/EMC	ETSI EN301 489-1 & ETSI EN301 489-5	*
	Tested by DCPW	No	*
SAFETY	Protections	Reverse polarity protection & short circuit protection	*
SERVICE	Warranty	2	2.0
OPERATING CONDITION	Minimum Operating temperature	-30	*
	Maximum Operating temperature	55	*
	Minimum Storage temperature	-40	*
	Maximum Storage temperature	70	*
	Operating Humidity @40 degree C	95	*
TEST REPORT DETAILS	Dust test as per	MIL-STD-810 G	*
	Vibration test as per	MIL-STD-810 G	*
	Shock test as per	MIL-STD-810 G	*
	Water Intrusion test as per	MIL-STD-810 G	*
	Salt test as per	MIL-STD-810 G	*
	Rain test as per	MIL-STD-810 G	*
	Altitude test as per	MIL-STD-810 G	*
	Availability of Test Reports from Central Govt/ NABL/ILAC accredited lab to prove conformity to the Specifications	Yes	*
	Test Report Number and Date	-	*
	Name and Address of the Lab	-	*

* 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	*****	*****SONITPUR	30	30

Bid Specific Additional Terms and Conditions

1. SLBR52
2. 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.
3. Scope of supply (Bid price to include all cost components) : Supply Installation Testing and Commissioning of Goods
4. 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.
5. Dedicated /toll Free Telephone No. for Service Support : BIDDER/OEM must have Dedicated/toll Free Telephone No. for Service Support.

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

---Thank You---