

Bid Document

Bid Details	
Bid End Date/Time	22-07-2020 13:00:00
Bid Opening Date/Time	2020-07-22 13:30:00
Bid Life Cycle (From Publish Date)	90 (Days)
Bid Offer Validity (From End Date)	65 (Days)
Ministry/State Name	Pmo
Department Name	Department Of Atomic Energy
Organisation Name	Nuclear Power Corporation Of India Limited
Office Name	Rajasthan
Total Quantity	2
Item Category	Analog Transceiver-Handheld
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 (2 pieces)

Technical Specifications

[* As per GeM Category Specification](#)

Specification	Specification Name	Values	Bid Requirement (Allowed Values)
PERFORMANCE FEATURES	Frequency Range (MHz)	380-512	380-512
	Types of Bandwidth	UHF Full Band	UHF Full Band
	Channel Capacity	128	128
	Channel Spacing	12.5	*
	Frequency Spread without degradation in Tx / Rx Specification	5	*
	Frequency Stability (±)	5	*
	Antenna Impedance	50	*
TRANSMITTER	RF Power output setting of transmitter	Programmable	*
	RF Power output Range	1 to 4 Watts (UHF)	1 to 4 Watts (UHF)
	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	5	*
	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)	60	*
	VSWR	1.5	*
RECEIVERS	Sensitivity at 12 dB SINAD	0.3	*
	Squelch Sensitivity of receiver	0.25	*
	Adjacent Channel Selectivity (dB)	60	*
	Image Rejection (dB)	65	*
	Audio Output, (with less than 5 % distortion at 1 KHz reference measured at specified	250	*

	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	No	*
	Battery charger	Yes	*
	Output voltage of the charger	-	*
	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	1	1
POWER SOURCE/BATTERY	Chemistry of Battery	Li-ion	*
	Voltage rating of the Battery	7.4	*
	capacity of Battery (milli AH)	2500	*
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	Yes	*
	Channel Scanning with call quieting facility	No	*
	Selective Call Decode	No	*
	Capable of being Killed/ Unkilled	No	*

	Emergency SOS/SIREN	Yes	*
	LCD Display (Min 4 characters)	Yes	*
	Automatic Number Identification (ANI)	No	*
	Talk-around	No	*
	DTMF Keypad	No	*
	DTMF Microphone	No	*
	Keypad Lock	No	*
	Built-in GPS	No	*
	Battery Strength Bar Indicator or Digital Voltage read out	No	*
	Signaling	2Tone	*
GENERIC	Internal Speaker impedance	6	*
	External Speaker impedance	4	*
	Output Termination	Others	*
	Weight of Transceiver with Battery	240	*
	Other features	-	*
SAFETY	Protections	Reverse polarity protection & short circuit protection	*
SERVICE	Warranty	1	1.0
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	-	*
	BIS registration Number and Date for the Battery	-	*
TEST REPORT DETAILS	conformity to Dry	No	Yes, No

Heat for 16 hrs at a maximum temp in accordance with IS:9000/part-3/section-5/1977 latest		
conformity to Cold Test for 4 hrs at a minimum temp in accordance with IS:9000/part-2/section-4/1977 latest	No	Yes, 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	Yes, 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	No	Yes, No
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	No	Yes, No
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	Yes, No
Bump Test: IS 9000 Part VII/SEC 2/1979 (reaffirmed 2004): 4000 bumps at peak acceleration of 400 m/s sq	No	Yes, No
Availability of the test report from	No	Yes, No

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

* 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	Gyan Mal Khatik	323303,Contracts & Material Management, Rawatbhata Rajasthan Site, Anushakti Via-Kota (Rajasthan) Phone No. 01475-242002, 242048 Which is about 60 Kms. away from Kota.	2	30

Bid Specific Additional Terms and Conditions

1. Scope of supply (Bid price to include all cost components) : Only supply of Goods
2. Purchase preference to Micro and Small Enterprises (MSEs): Purchase preference will be given to MSEs as defined in Public Procurement Policy for Micro and Small Enterprises (MSEs) Order, 2012 dated 23.03.2012 issued by Ministry of Micro, Small and Medium Enterprises and its subsequent Orders/Notifications issued by concerned Ministry. If the bidder wants to avail the Purchase preference, the bidder must be the manufacturer of the offered product in case of bid for supply of goods. Traders are excluded from the purview of Public Procurement Policy for Micro and Small Enterprises. In respect of bid for Services, the bidder must be the Service provider of the offered Service. Relevant documentary evidence in this regard shall be uploaded along with the bid in respect of the offered product or service. If L-1 is not an MSE and MSE Seller (s) has/have quoted price within L-1+ 15% of margin of purchase preference /price band defined in relevant policy, such Seller shall be given opportunity to match L-1 price and contract will be awarded for percentage of 25% of total value.

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

---Thank You---

