

### Bid Document

Bid Details	
Bid End Date/Time	27-07-2020 14:00:00
Bid Opening Date/Time	27-07-2020 14:30:00
Bid Life Cycle (From Publish Date)	90 (Days)
Bid Offer Validity (From End Date)	60 (Days)
Ministry/State Name	Ministry Of Railways
Department Name	Na
Organisation Name	N/a
Office Name	North East Frontier Railway
Total Quantity	40
Item Category	Analog Transceiver-Handheld
MSE Exemption for Years of Experience and Turnover	No
Startup Exemption for Years of Experience and Turnover	No
Document required from seller	OEM Authorization Certificate *In case any bidder is seeking exemption from Experience / Turnover Criteria, the supporting documents to prove his eligibility for exemption must be uploaded for evaluation by the buyer
Bid to RA enabled	Yes
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 ( 40 pieces )

#### Technical Specifications

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

Specification	Specification Name	Values	Bid Requirement (Allowed Values)
PERFORMANCE FEATURES	<b>Frequency Range (MHz)</b>	806-890	806-890
	<b>Types of Bandwidth</b>	UHF Split Band	UHF Split Band
	<b>Channel Capacity</b>	16	16
	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	*
	<b>RF Power output Range</b>	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 AF output)	250,500	*
	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	*
	<b>Number of spare batteries with each Radio Set</b>	NA	NA
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	Yes	*
	Channel Scanning with call quieting facility	Yes	*
	Selective Call Decode	No	*
	Capable of being Killed/Unkilled	No	*
	Emergency SOS/SIREN	Yes	*
	LCD Display (Min 4 characters)	No	*
	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	DTMF	*
GENERIC	Internal Speaker impedance	8	*
	External Speaker impedance	8	*
	Output Termination	Others	*
	Weight of Transceiver with Battery	300	*
	Other features	-	*
SAFETY	Protections	Reverse polarity protection	*

		& short circuit protection	
SERVICE	<b>Warranty</b>	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	<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>	No	No
	<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>	No	No
	<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</b>	No	No

<b>bumps at peak acceleration of 400 m/s sq</b>		
<b>Availability of the test report from Central Govt/ NABL/ ILAC accredited lab to prove conformity to the specification</b>	Yes	Yes
If yes test report to furnished,to the buyer on demand	Yes	*
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	Katikineni Srinivasa Rao	854105,DMM/KIR , Office of Divisonal Railway Manager , Katihar Division,	40	15

#### Bid Specific Additional Terms and Conditions

- 1.Scope of supply (Bid price to include all cost components) : Only supply of Goods
- 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.Dedicated /toll Free Telephone No. for Service Support : BIDDER/OEM must have Dedicated/toll Free Telephone No. for Service Support.
- 4.Warranty period of the supplied products shall be 1 years from the date of final acceptance of goods or after completion of installation, commissioning & testing of goods (if included in the scope of supply), at consignee location. OEM Warranty certificates must be submitted by Successful Bidder at the time of delivery of Goods. The seller should guarantee the rectification of goods in case of any break down during the guarantee period. Seller should have well established Installation, Commissioning, Training, Troubleshooting and Maintenance Service group in INDIA for attending the after sales service. Details of Service Centres near consignee destinations are to be uploaded along with the bid
- 5.ISO 9001: The bidder must have ISO 9001 certification.

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

---Thank You---