

Bid Document

| Bid Details | |
|--|--------------------------------|
| Bid End Date/Time | 25-07-2020 20:00:00 |
| Bid Opening Date/Time | 25-07-2020 20:30:00 |
| 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 | 6 |
| 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 | No |
| Inspection Required | No |

EMD Detail

| | |
|----------|----|
| Required | No |
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ePBG Detail

| | |
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| Required | No |
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Splitting

Bid splitting not applied.

Digital Transreceiver-Handheld (6 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 | No | * |
| | Channel Capacity | 16 | 16 |
| | 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 | * |
| | Digital Vocoder | AMBE+2 | * |
| RECEIVERS | Analog Receivers Sensitivity for 12dB SINAD | 0.3 | * |
| | Digital Receiver Sensitivity at 5% BER | 0.3 | * |
| | Receiver Adjacent Channel Selectivity (dB) | 70 | * |
| | Inter Modulation (dB) | 70 | * |
| | Receiver Audio Output | 500 | * |
| | Receiver Rated Audio Distortion | 3 | * |

| | | | |
|------------------|---|----------------------------------|---|
| 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 | NA | * |
| | 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 provided with radio set | No | * |

| | | | |
|----------------------|---|--|---|
| | 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) | No | * |
| | Text message and predefined message | No | * |
| | Keypad | No | * |
| | Availability of Inbuilt GPS system | No | * |
| | If yes, Horizontal accuracy | 0 | * |
| | Time to first fix(TTFF) cold start | 0 | * |
| | Time to First Fix(TTFF) Hot start | 0 | * |
| | Capable of being Killed/Unkilled | No | * |
| | communication security | Inbuilt encryption,3rd party encryption,NA | * |
| | Protocols supported in case of third party encryption | - | * |
| GENERIC | Weight of hand held Transceiver with Battery | 346 | * |
| | Other features | - | * |
| POWER SOURCE/BATTERY | Chemistry of Battery | Lithium-ion | * |
| | Voltage rating of the Battery | 7.5 | * |
| | capacity of Battery (mAH) | 2250 | * |
| | Average Battery duty cycle '5/5/90 for digital Transmission | 18.5 | * |
| | Average Battery duty cycle '5/5/90 for analog Transmission | 14.5 | * |
| CERTIFICATION | BIS registartion under CRS of Meity for the battery | Yes | * |
| | BIS registration number | - | * |

| | | | |
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| | and date for the battery | | |
| | EMI/EMC | ETSI EN301 489-1 & ETSI EN301 489-5 | * |
| | Tested by DCPW | Yes | * |
| 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 F | * |
| | Vibration test as per | MIL-STD-810 G | * |
| | Shock test as per | MIL-STD-810 G | * |
| | Water Intrusion test as per | MIL-STD-810 F | * |
| | 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 | ***** | *****DIMAPUR | 6 | 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
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. **Nominated Inspection Agency:** On behalf of the Buyer organization, any one of the following Inspection Agency would be conducting inspection of stores before acceptance: Pre-dispatch Inspection at Seller Premises (applicable only if pre-dispatch inspection clause has been selected in ATC): NO
Post Receipt Inspection at consignee site before acceptance of stores: YES
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.
6. Timely Servicing / rectification of defects during warranty period: After having been notified of the defects / service requirement during warranty period, Seller has to complete the required Service / Rectification within 7 days time limit. If the Seller fails to complete service / rectification with defined time limit, a penalty of 0.5% of Unit Price of the product shall be charged as penalty for each week of delay from the seller. Seller can deposit the penalty with the Buyer directly else the Buyer shall have a right to recover all such penalty amount from the Performance Security (PBG). Cumulative Penalty cannot exceed more than 10% of the total contract value after which the Buyer shall have the right to get the service / rectification done from alternate sources at the risk and cost of the Seller besides forfeiture of PBG. Seller shall be liable to re-imburse the cost of such service / rectification to the Buyer.

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

---Thank You---