

QRs FOR MAN PORTABLE SATELLITE PHONE BGAN (STATIC)

| S N | Parameters | Specification |
|----------------------------------|--|--|
| General Character | | |
| (a) | User Interface | Interactive LCD/LED or better Display. |
| (b) | Languages | English |
| (c) | Weight (including battery) | ≤3.5Kg |
| Data Capabilities. | | |
| (d) | Standard IP | 280 Kbps or more (As per user requirement) |
| (e) | Streaming IP | 64/128 Kbps or more (As per user requirement) |
| Voice Capabilities. | | |
| (f) | Standard Voice | 4kbps |
| (g) | Services | Required essential BGAN services i.e. Voice, Fax, SMS & Data Streaming |
| Interfaces. | | |
| (h) | Ports | Any two of following ports - RJ45, RJ11 and USB |
| Environmental Conditions. | | |
| Temperature. | | |
| (i) | Operational (ambient) | -25°C to +55°C |
| (j) | Storage | -25°C to +55°C(with battery) -25°C to +60°C(Without battery) |
| (k) | Relative Humidity | 95% non-condensing at +40°C |
| (l) | Robustness | MIL-STD -810B or better |
| (m) | Water and Dust (IP-rating) | IP-54 or better |
| AC/DC power supply. | | |
| (aa) | Input | 100-240VAC, 10.5-32VDC |
| (ab) | Built-In-Battery | Rechargeable Battery |
| (ac) | Transmit time / Receive time / Stand-by-time | (1:1:12) Tx Time: 2Hrs or more Rx Time:- 2 Hrs or more Stand by time:24 Hrs |














| S N | Parameters | Specification |
|-------------------------------|---|---|
| Package | | |
| (i) | BGAN Transceiver | |
| (ii) | Build-in-Rechargeable battery | |
| (iii) | Soft bag | |
| (iv) | USB to Ethernet Convertible Cable (To be provided only for terminals with USB interface) | |
| (v) | Power Supply Adopter | |
| (vi) | English Language Quick Start guide | |
| (vii) | English language web server and embedded manual (ENG) | |
| (viii) | Car charger cable | |
| Terms & Conditions | | |
| (al) | Connectivity | During tendering the vendor will specify how they are going to provide satellite communication service. They will also specify terms and condition and vendor will have to ensure end to end connectivity. |
| (am) | license | Vendor to have Valid DPL (Dealer Possession License) |
| (an) | AMC | Vendor must provide AMC for this after warranty for 5 yr. |
| (ao) | Warranty | 3 years warranty must be produce by vendor |
| (ap) | Miscellaneous | (i) User manual shall be provided by the vendor. (ii) Regional/local service center for repair/maintenance of equipment and warranty/post warranty service center should be available in India and a list of available service center in India may also be attached by the vendor. (iii) Vendor should have minimum 3yr experiences in supplying INMARSAT Land SATCOM terminals and to be submitting proof of past supplies. (iv) The bidders are to submit a MAF (Manufacturer's Authorization form) by along with the bid. In case the OEM has a direct or indirect subsidiary in India. Bidders are to submit MAF issued by the direct or indirect OEM's Indian subsidiary. (v) Log book to be provided by vendor. |









QRs FOR MAN PORTABLE SATELLITE PHONE BGAN (VEHICLE BASED)

| SN | Parameters | Specification |
|--------------------------|---|--|
| General Character | | |
| (a) | User Interface | Interactive LCD/LED or better Display. |
| (b) | Languages | English |
| Specification. | | |
| Weight. | | |
| (c) | Transceiver | 2.5 kg \pm 10% |
| (d) | Antenna | \leq 6 Kg |
| Global services. | | |
| (e) | Voice | 4kbps |
| (f) | Standard IP | 464 Kbps or more (As per user requirement) |
| (g) | Streaming IP | 128/256 Kbps or more (As per user requirement) |
| (h) | SMS | 160 characters or more |
| (i) | Services | Required essential BGAN services i.e. Voice, Fax, SMS & Data Streaming |
| Interfaces. | | |
| (j) | 2 X Analogue RJ-11 Phone/Fax interfaces | |
| (k) | 4 X LAN interfaces | |
| (l) | Connector type | RJ-45 Power over Ethernet (PoE) |
| (m) | Data rate | 10/100 Mbps |
| (n) | Max. cable length | 100m/ 328ft (cat5 UTP) |
| (o) | Standard | ISO/IEC/EN Standards |
| (p) | 1 X ISDN interface | |
| (q) | Connector type | RJ-45 |
| (r) | BGAN SIM Card slot | |
| (aa) Power. | | |
| | (i) DC Input range | 10.5-32VDC |
| | (ii) Power (max)@10.5-32v | 150W (incl. antenna & PoE output) |



| SN | Parameters | Specification |
|----------------------------------|-----------------------------------|--|
| Environmental Conditions. | | |
| (ab) | Temperature | |
| | Operational | -25 to +55°C |
| | Survival | -40 to +80°C |
| | Storage | -25°C to +55°C(with battery) -25°C to +60°C(Without battery) |
| (ac) | Relative Humidity | 95% non-condensing at +40°C |
| (ad) | Water and Dust (IP-rating) | |
| | Transceiver | IP30 or better |
| | Antenna | IP56 |
| Other Features. | | |
| (ae) | Telephone Functionality | Phone book, message indication, restricted dialing and traffic logging |
| PACKAGE. | | |
| | (i) | Vehicular BGAN transceiver |
| | (ii) | Vehicular BGAN tracking antenna |
| | (iii) | Antenna cable |
| | (iv) | Standard Ethernet cable |
| | (v) | 24V DC input cable with required connectors |
| | (vi) | Antenna mounting kit (fixed/ rail) |
| | (vii) | Getting Started kit Quick start guide, CD with manual |
| Terms & Conditions | | |
| (ag) | Connectivity | During tendering the vendor will specify how they are going to provide satellite communication service. They will also specify terms and condition and vendor will have to ensure end to end connectivity. |
| (ah) | license | Vendor to have Valid DPL (Dealer Possession License). |
| (ai) | AMC | Vendor must provide AMC for this after warranty for 5 yr. |
| (aj) | Warranty | 3 years warranty must be produce by vendor |

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| (ak) | Miscellaneous | <p>(i) User manual shall be provided by the vendor.</p> <p>(ii) Regional/local service center for repair/maintenance of equipment and warranty/post warranty service center should be available in India and a list of available service center in India may also be attached by the vendor.</p> <p>(iii) Vendor should minimum have 3 yr experience in supplying Inmarsat Land SATCOM terminals and to be submitting proof of past supplies.</p> <p>(iv) The bidders are to submit a MAF (Manufacturer's Authorization form) by along with the bid. In case the OEM has a direct or indirect subsidiary in India. Bidders are to submit MAF issued by the direct or indirect OEM's Indian subsidiary.</p> <p>(v) Log book to be provided by vendor.</p> |

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NSG

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Capt. V.G. Iyer
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D.S. Rawat, DIG(Comn)
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Raju Bhargava, IPS, IGP(Comn &IT)
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Md. Jawed Akhtar, IPS,
ADG (Work & Comn),CRPF

Approved/Not Approved

Rajeev Rai Bhatnagar, IPS
DG, CRPF

**TRIAL DIRECTIVE FOR MAN PORTABLE SATELLITE PHONE BGAN
(STATIC)**

| S N | Parameters | Specification | Trial Procedure |
|----------------------------------|----------------------------|--|-----------------------------------|
| General Character | | | |
| (a) | User Interface | Interactive LCD/LED or better Display. | Board will check practically. |
| (b) | Languages | English | |
| (c) | Weight (including battery) | ≤3.5Kg | Board will check practically. |
| Data Capabilities. | | | |
| (d) | Standard IP | 280 Kbps or more (As per user requirement) | Board will check practically. |
| (e) | Streaming IP | 64/128 Kbps or more (As per user requirement) | |
| Voice Capabilities. | | | |
| (f) | Standard Voice | 4kbps | Firm will submit OEM Certificate. |
| (g) | Services | Required essential BGAN services i.e. Voice, Fax, SMS & Data Streaming | |
| Interfaces: | | | |
| (h) | Ports | Any two of following ports:- RJ45, RJ11 and USB | Board will check practically. |
| Environmental Conditions. | | | |
| Temperature. | | | |
| (i) | Operational (ambient) | -25°C to +55°C | Firm will submit OEM certificate |
| (j) | Storage | -25°C to +55°C (with battery) -25°C to +60°C (Without battery) | |

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| S N | Parameters | Specification | Trial Procedure |
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| (k) | Relative Humidity | 95% non-condensing at +40°C | Firm will submit OEM certificate |
| (l) | Robustness | MIL-STD-810B or better | |
| (m) | Water and Dust (IP-rating) | IP-54 or better | |
| AC/DC power supply. | | | |
| (aa) | Input | 100-240V AC, 10.5-32V DC | Firm will submit OEM certificate. |
| (ab) | Build-In-Battery | Lithium ion (rechargeable) | |
| (ac) | Transmit time/Receive time/Stand-by-time | (1:1:12), Tx time: 2Hrs or more Rx Time:- 2 Hrs or more Stand by time:24 Hrs | |
| Package | | | |
| (i) | BGAN Transceiver | | Board will check practically. |
| (ii) | Built-in-Rechargeable battery | | |
| (iii) | Soft bag | | |
| (iv) | USB to Ethernet Convertible Cable (To be provided only for terminals with USB interface) | | |
| (v) | Power Supply Adopter | | |
| (vi) | English Language Quick Start guide | | |
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| (viii) | Car charger cable | | |
| Terms & Conditions | | | |
| (al) | Connectivity | During tendering the vendor will specify how they are going to provide satellite communication service. They will also specify terms and condition and vendor will have to ensure end to end connectivity. | Board will check practically. |
| (am) | license | Vendor to have Valid DPL (Dealer Possession License) | |
| (an) | AMC | Vendor must provide AMC for this after warranty for 5 yr. | Firm will submit relevant document to the Board of officers. |
| (ao) | Warranty | 3 years warranty must be produce by vendor | |

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| General Character | | | |
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| Weight. | | | |
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| (d) | Antenna | \leq 6 Kg | |
| Global services. | | | |
| (e) | Voice | 4kbps | Board will check practically and firm will also submit OEM certificate. |
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| (aa) Power. | | | |
| | (i) DC Input range | 10.5-32VDC | Firm will submit OEM certificate. |
| | (ii) Power (max)@10.5-32v | 150W (incl. antenna & PoE output) | |
| Environmental Conditions. | | | |
| (ab) Temperature | | | |
| | Operational | -25 to +80°C | Firm will submit OEM certificate. |
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