

**GOVERNMENT OF INDIA**  
**(Ministry of Home Affairs)**  
**DIRECTORATE GENERAL**  
**CENTRAL RESERVE POLICE FORCE**  
**EAST BLOCK-7, SEC-1, R.K. PURAM, NEW DELHI-110066**  
Email:- [comncell@crpf.gov.in](mailto:comncell@crpf.gov.in) Tele Fax:011-26107493

No. B.V-7/2018-19-C (BGAN)  
To

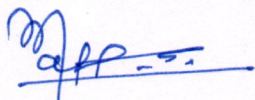
Dated, the 11<sup>th</sup> Dec'2018

- |   |  |
|---|--|
| 1. DIG (Comn), ITBP<br>Block No. 2, CGO Complex<br>Lodhi Road, New Delhi-03 | 2. DIG (Comn), NSG<br>Meharam Nagar<br>Palam, New Delhi-37                       |
| 3. DIG (Comn), SSB<br>East Block-V, R.K Puram<br>New- Delhi-66              | 4. AIG (Comn), CISF<br>Block No. 13, CGO, Complex<br>Lodhi Road, New Delhi-03    |
| 5. DIG (Prov), BSF<br>Block No. 10, CGO Complex<br>Lodhi Road, New Delhi-03 | 6. Liaison Office, Assam Rifle<br>Room No-171, North Block, MHA<br>New Delhi -01 |

**Subject: Regarding QRs/TDs of BGAN (Broadband Global Area Network).**

Please find enclosed here with QRs and TDs in respect of BGAN (Broadband Global Area Network) as per Annexure-A & Annexure-B respectively duly approved by the competent authority for further necessary action.

Encl: (QRs & TDs of of BGAN (Broadband Global Area Network)).

  
{P.R.Jha, DC (Comn)}  
For DIGP (Equipment)  
Directorate General, CRPF



**QRs FOR MAN PORTABLE SATELLITE PHONE BGAN (STATIC)**

<b>S N</b>	<b>Parameters</b>	<b>Specification</b>
<b>General Character</b>		
(a)	User Interface	Interactive LCD/LED or better Display.
(b)	Languages	English
(c)	Weight (including battery)	≤3.5Kg
<b>Data Capabilities.</b>		
(d)	Standard IP	280 Kbps or more (As per user requirement)
(e)	Streaming IP	64/128 Kbps or more (As per user requirement)
<b>Voice Capabilities.</b>		
(f)	Standard Voice	4kbps
(g)	Services	Required essential BGAN services i.e. Voice, Fax, SMS & Data Streaming
<b>Interfaces.</b>		
(h)	Ports	Any two of following ports - RJ45, RJ11 and USB
<b>Environmental Conditions.</b>		
<b>Temperature.</b>		
(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
<b>AC/DC power supply.</b>		
(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
<b>Package</b>		
(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	
<b>Terms &amp; Conditions</b>		
(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
<b>General Character</b>		
(a)	User Interface	Interactive LCD/LED or better Display.
(b)	Languages	English
<b>Specification.</b>		
<b>Weight.</b>		
(c)	Transceiver	2.5 kg $\pm$ 10%
(d)	Antenna	$\leq$ 6 Kg
<b>Global services.</b>		
(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
<b>Interfaces.</b>		
(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	
<b>(aa) Power.</b>		
	(i) DC Input range	10.5-32VDC
	(ii) Power (max)@10.5-32v	150W (incl. antenna & PoE output)



SN	Parameters	Specification
<b>Environmental Conditions.</b>		
(ab)	<b>Temperature</b>	
	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
<b>Other Features.</b>		
(ae)	Telephone Functionality	Phone book, message indication, restricted dialing and traffic logging
<b>PACKAGE.</b>		
	(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
<b>Terms &amp; Conditions</b>		
(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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SN	Parameters	Specification
(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>

WO/RM R.S. Dhaka  
Assam Rifles

AC-II M.K Verma  
NSG

Baljit Singh,  
INSP(Comn) BSF

P.S. Meena,AC(Comn)  
SSB

R.K. Meel, DC  
CISF

P.R. Jha,DC(Comn)  
CRPF

Capt. V.G. Iyer  
BPR&D

Harjinder Singh,DIG(Eqpt)  
CRPF

D.S. Rawat, DIG(Comn)  
CRPF

Raju Bhargava, IPS, IGP(Comn &IT)  
CRPF

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)**

<b>S N</b>	<b>Parameters</b>	<b>Specification</b>	<b>Trial Procedure</b>
<b>General Character</b>			
(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.
<b>Data Capabilities.</b>			
(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)	
<b>Voice Capabilities.</b>			
(f)	Standard Voice	4kbps	Firm will submit OEM Certificate.
(g)	Services	Required essential BGAN services i.e. Voice, Fax, SMS & Data Streaming	
<b>Interfaces:</b>			
(h)	Ports	Any two of following ports:- RJ45, RJ11 and USB	Board will check practically.
<b>Environmental Conditions.</b>			
<b>Temperature.</b>			
(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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<b>S N</b>	<b>Parameters</b>	<b>Specification</b>	<b>Trial Procedure</b>
(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	
<b>AC/DC power supply.</b>			
(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	
<b>Package</b>			
(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		
(vii)	English language web server and embedded manual (ENG)		
(viii)	Car charger cable		
<b>Terms &amp; Conditions</b>			
(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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SN	Parameters	Specification	Trial Procedure
(ap)	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 have minimum 3yr experiences 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>	Firm will submit relevant document to the Board of officers.

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**TRIAL DIRECTIVE FOR MAN PORTABLE SATELLITE PHONE BGAN (VEHICLE BASED)**

SN	Parameters	Specification	Trial Procedure
<b>General Character</b>			
(a)	User Interface	Interactive LCD/LED or better Display.	Board will check practically.
(b)	Languages	English	
<b>Specification.</b>			
<b>Weight.</b>			
(c)	Transceiver	2.5 kg $\pm$ 10%	Board will check practically.
(d)	Antenna	$\leq$ 6 Kg	
<b>Global services.</b>			
(e)	Voice	4kbps	Board will check practically and firm will also submit OEM certificate.
(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	
<b>Interfaces.</b>			
(j)	2 X Analogue RJ-11 Phone/Fax interfaces		Board will check practically and firm will also submit OEM certificate.
(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		

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SN	Parameters	Specification	Trial Procedure
<b>(aa) Power.</b>			
	(i) DC Input range	10.5-32VDC	Firm will submit OEM certificate.
	(ii) Power (max)@10.5-32v	150W (incl. antenna & PoE output)	
<b>Environmental Conditions.</b>			
<b>(ab) Temperature</b>			
	Operational	-25 to +80°C	Firm will submit OEM certificate.
	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	Firm will submit OEM certificate.
<b>(ad) Water and Dust (IP-rating)</b>			
	Transceiver	IP30 or better	Firm will submit OEM certificate.
	Antenna	IP56	
<b>Other Features.</b>			
(ae)	Telephone Functionality	Phone book, message indication, restricted dialing and traffic logging	Board will check practically and firm will also submit OEM certificate.
<b>PACKAGE.</b>			
(i)	Vehicular BGAN transceiver		Board will check practically.
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(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		

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SN	Parameters	Specification	Trial Procedure
<b>Terms &amp; Conditions</b>			
(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.	Board will check practically  Firm will submit relevant document to the Board of officers.
(ah)	license	Vendor to have Valid DPL (Dealer Possession License).	
(ai)	AMC	Vendor must provide AMC for this after warranty for 5 yr.	
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SN	Parameters	Specification	Trial Procedure
		<p>(iii) Vendor should have minimum 3yr 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>	Firm will submit relevant document to the Board of officers.

  
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Approved/Not Approved  
  
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DG, CRPF