



DIRECTORATE GENERAL, CRPF
EAST BLOCK-7, SECTOR-1, R.K PURAM, NEW DELHI-66
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No. B.V-7/2025-26-C-(SAT)-QR CELL

Dated, the 17 Feb'2026

To

1. The DsG: AR, BSF, CISF, ITBP, NSG, SSB and BPR&D
2. Director, DCPW

Subject: QRs/TDs OF "SATELLITE TERMINAL" REGARDING.

I am directed to refer to the subject mentioned above and to say that the QRs/TDs of "SATELLITE TERMINAL" have been approved by the DG CRPF after due deliberations and as per recommendations of Sub-Group of Technical Experts from CAPFs and experts from DCPW. QRs/TDs of total 5 types of Satellite Terminal have been finalized which are as under :-

S.N.	Type of Satellite Terminal
1	LEO Based Man Portable Satellite Terminal
2	LEO Based Static Satellite Terminal
3	LEO Based Maritime Mobility Satellite Terminal
4	GEO Based Man Portable Satellite Terminal
5	GEO Based Static Satellite Terminal

2. Hence, QRs/TDs of "Satellite Terminal" & "Broad Band Satellite Terminal" forwarded earlier vide letter No. IV-17017/48/2002-Prov.I Dtd 16/08/2005 & letter No IV-17017/13/06-Prov.I dated 09/06/2006 respectively stand rescinded please.

Encl:-As above


(Megh Raj)

DIG (Equipment)
Communication & IT Branch
Directorate General C R P F

No. B.V-7/2025-26-C-(SAT)-QR CELL

Dated, the 17 Feb'2026

Copy to:-

1. Mr. Deepak Kumar, Technical Director, North block, MHA (e-mail ID: deepakg@gov.in) with request to upload the QRs/TDs of "Satellite Terminal" on MHA website and QRs/TDs of "Satellite Terminal" & "Broad Band Satellite Terminal" forwarded earlier vide letter No. IV-17017/48/2002-Prov.I Dtd 16/08/2005 & letter No IV-17017/13/06-Prov.I dated 09/06/2006 respectively stand rescinded please.

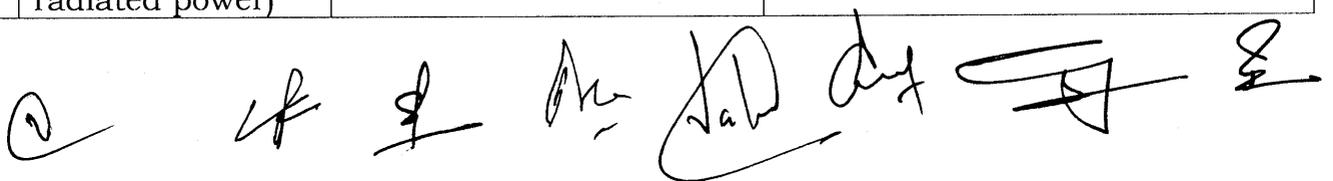
Encl:-As above


(Megh Raj)

DIG (Equipment)
Communication & IT Branch
Directorate General C R P F

QRs /TDs of LEO BASED MAN PORTABLE SATELLITE TERMINAL

SL No	Parameter	Specification	Trial Directives
01	Terminal Type	Terminal is foldable/ Flat/Patch self-aligning	Board will check practically
02	Configuration	Man-portable	Board will check practically
03	Antenna Type	Full duplex Electronically steered antenna (ESA)/ Phased Array Antenna /Parabolic reflector/Patch antenna	Board will check practically
04	System Latency	<100 ms	Firm will submit OEM Certificate
05	Download speed	Min 20 Mbps	Board will check practically
06	Upload Speed	Min 10 Mbps	Board will check practically
07	User Bandwidth requirement & Period	User to specify bandwidth requirement & Period. Vendor to arrange Bandwidth.	Board will check practically and Vendor to provide certificate from main Satellite service provider for the requirement period.
08	Pointing /Acquisition	Fully Automatic (Auto-Pointing/Manual pointing) as per user requirement	Board will check practically
09	Operating Temperature	-20°C to +55°C	Firm will submit certificate of any Govt lab/ NABL/STQC/ ILAC accredited lab.
10	Weight	Up to 20 kg (Excluding AC/DC cables, tripod, batteries etc.)	Board will check practically
11	Ingress Protection	IP 65 or better	Firm will submit certificate of any Govt lab/NABL/STQC/ ILAC accredited lab
12	Security	AES 128 or better	BOO will submit OEM Certificate
13	Power consumption	190 W or less (Operate on AC/DC, external battery)	Firm will submit OEM Certificate
14	Maximum Transmit EIRP (effective isotropic radiated power)	32 dBW or better	Firm will submit OEM Certificate



SL No	Parameter	Specification	Trial Directives
15	Pointing Acquisition Time (from stow)	Maximum 5 minutes	Board will check practically
16	Interface supported	USB/Wi-Fi/RJ-45 etc.	Board will check practically
17	Connectivity	All traffic should be routed through Indian Gateway	Firm will submit OEM Certificate
18	Service and support	Minimum 8 years	Firm will submit OEM Certificate
19	MTCTE Certification	Should have valid certification issued by TEC form the model Purposed by vendor	Firm will provide certificate in this Regard

Vikas

W/O Vikas Godara
Assam Rifles

Laljee Ram

Laljee Ram
JAD, DCPW

Satish Kumar Mahla

Satish Kumar Mahla
AC (Comn), SSB

Shudham Singh
AC(Exe), CISF

Abhimanyu Yadav
AC(QR), CRPF

Maj. Jyoti Rathee
NSG

Gurnam Singh
DC (Tele), ITBP

Praveen Singh Rawat
DC, BSF

Megh Raj
DIG (Eqpt), CRPF

Vijay Kumar
IG (Comn & IN), CRPF

Zaki Ahmad
IPS
SDG (ADM), CRPF

✓ / ~~Not Approved~~

Gyanendra Pratap Singh
DG, CRPF

QRs/TDs OF LEO BASED STATIC SATELLITE TERMINAL

SN.	Parameter	Specification	Trial Directives
01	Terminal Type	Terminal is foldable /Flat/self-aligning	Board will check practically
02	Configuration	Static	Board will check practically
03	Antenna Type	Full duplex Electronically steered antenna (ESA)/ Phased Array Antenna /Patch	Board will check practically
04	System Latency	<100 ms	Firm will submit OEM Certificate
05	Download speed	Min 50 Mbps	Board will check practically
06	Upload Speed	Min 10 Mbps	Board will check practically
07	User Bandwidth requirement & Period	User to specify bandwidth requirement & Period. Vendor to arrange Bandwidth.	Board will check practically and Vendor to provide certificate from main Satellite service provider for the requirement period.
08	Pointing /Acquisition	Fully Automatic (Auto-Pointing)/Manual pointing as per user requirement	Board will check practically
09	Operating Temperature	-20°C to +55°C	Firm will submit certificate of any Govt lab/ NABL/ STQC/ILAC accredited lab.
10	Wind Load Resistance	Structure shall withstand wind speeds up to 100 km/h.	Firm will submit OEM Certificate
11	Weight	Up to 35 kg (including indoor unit.)	Board will check practically
12	Ingress Protection	IP 65 or better	Firm will submit certificate of any Govt lab/ NABL/ STQC/ ILAC accredited lab
13	Security	AES 128 or better	Firm will submit OEM Certificate.
14	Power consumption	Maximum 300W	Firm will submit OEM Certificate
15	Power supply	100V to 240V AC	Board will check practically
16	Maximum Transmit EIRP (effective isotropic radiated power)	36 dBW or better	Firm will submit OEM Certificate

SN.	Parameter	Specification	Trial Directives
17	Pointing Acquisition Time (from stow)	Maximum 5 minutes	Board will check practically
18	Interface supported	USB/Wi-Fi/RJ-45 etc.	Board will check practically
19	Gig E Ports	1 x GbE port	Board will check practically
20	Connectivity	All traffic should be routed through Indian Gateway	Firm will submit OEM Certificate
21	Service and support	Minimum 8 years	Firm will submit OEM Certificate
22	MTCTE Certification	Should have valid certification issued by TEC form the model Purposed by vendor	Firm will provide certificate in this Regard

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W/O Vikas Godara
Assam Rifles

Laljee Ram

JAD, DCPW

Satish Kumar Mahla

AC (Comn), SSB

Shiv Kumar Singh

AC(Exe), CISF

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Zaki Ahmad, IPS

SDG (ADM), CRPF

Approved/ Not Approved

Gyanendra Pratap Singh

DG, CRPF

QRs/TDs OF LEO BASED MARITIME MOBILITY SATELLITE TERMINAL

SN.	Parameter	Specification	Trial Directives
01	Antenna Type	Full duplex, flat-panel antenna, Electronically steered holographic beamforming array	Board will check practically
02	Configuration	On the move	Board will check practically & Firm will submit OEM Certificate
03	Scan angles	Azimuth: 360°, Elevation: Field of View ± 60° From Zenith (Vertical Center)	Firm will submit OEM Certificate
04	System Latency	<100 ms	Firm will submit OEM Certificate
05	Download speed	Min 50 Mbps	Board will check practically
06	Upload Speed	Min 10 Mbps	Board will check practically
07	User Bandwidth requirement & Period	User to specify bandwidth requirement & Period. Vendor to arrange Bandwidth.	Board will check practically and Vendor to provide certificate from main Satellite service provider for the requirement period.
08	Operating Temperature	-20°C to +55°C	Firm will submit certificate of any Govt lab/NABL/STQC /ILAC accredited lab.
09	Weight	Up to 50 kg	Board will check practically
10	Ingress Protection	IP 66 or better	Firm will submit certificate of any Govt lab/NABL/STQC /ILAC accredited lab.
11	Security	AES-128Bit or better	Firm will submit OEM Certificate.
12	Power consumption	Maximum 350 W	Firm will submit OEM Certificate
13	Power supply	12 VDC to 36 VDC or 90 VAC to 305 VAC via an accessory.	Firm will submit OEM Certificate
14	Maximum Transmit EIRP (effective isotropic radiated power)	36.0 dBW (dual carrier) or better	Firm will submit OEM Certificate
15	Interface supported	Ethernet	Board will check practically
16	Regulatory Compliance	CE, FCC, Nemko, WEEE, RoHS or similar	Firm will submit OEM Certificate
17	MTCTE Certification	Should have valid certification issued by TEC form the model Purposed by vendor	Firm will provide certificate in this Regard

SN.	Parameter	Specification	Trial Directives
18	Connectivity	All traffic should be routed through Indian Gateway	Firm will submit OEM Certificate
19	Service and support	Minimum 8 years	Firm will submit OEM Certificate
Ship Motion			
20	Roll	$\pm 30^\circ / 4.8$ s (12.5°/s) or higher	Firm will submit OEM Certificate
21	Pitch	$\pm 30^\circ / 4.8$ s (12.5°/s) or higher	Firm will submit OEM Certificate
22	Yaw	$\pm 10^\circ / 5$ s or higher	Firm will submit OEM Certificate
23	Headway Speed	20.5 m/s (40 knots)	Firm will submit OEM Certificate
24	Wind	72 m/s (104 knots)	Firm will submit OEM Certificate

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Assam Rifles

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Satish

Satish Kumar Mahla
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Shubham

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Abhimanyu Yadav
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Jyoti

Maj. Jyoti Rathee
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Zaki

Zaki Ahmad, IPS
SDG (ADM), CRPF

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Approved/ Not Approved

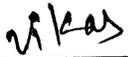
Gyanendra

Gyanendra Pratap Singh, IPS
DG, CRPF

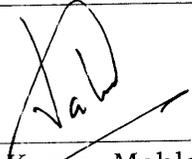
QRs/TDs OF GEO BASED MAN PORTABLE SATELLITE TERMINAL

S N	Parameter	Specification	Trial Directives
01	Terminal Type	Terminal: -Parabolic reflector/ Flat Terminal/ Patch (as per user requirement)	Board will check practically
02	Configuration	Man Portable	Board will check practically
03	Antenna Type	Full duplex Electronically steered antenna (ESA)/ Phased Array Antenna /Parabolic reflector/Patch (Manual/Auto Antenna) as per user requirement.	Board will check practically
04	System Latency	<700 ms	Firm will submit OEM Certificate
05	Download speed	Min 4 Mbps	Board will check practically
06	Upload Speed	Min 2 Mbps	Board will check practically
07	User Bandwidth requirement & Period	User to specify bandwidth requirement & Period. Vendor to arrange Bandwidth.	Board will check practically and Vendor to provide certificate from main Satellite service provider for the requirement period.
08	Pointing /Acquisition	Fully Automatic (Auto-Pointing)/Manual pointing as per user requirement	Board will check practically
09	Operating Temperature	-20°C to +55°C	Firm will submit certificate of any Govt lab/ NABL /STQC/ ILAC accredited lab.
10	Weight	Up to 30 kg (Excluding AC/DC cables, tripod, batteries etc.)	Board will check practically
11	Ingress Protection	IP 65 or better	Firm will submit certificate of any Govt lab/ NABL/ STQC/ ILAC accredited lab
12	Security	AES 128 or better	Firm will submit OEM Certificate
13	Power consumption	250 W or less (Operate on AC/DC, external battery)	Firm will submit OEM Certificate

S N	Parameter	Specification	Trial Directives
14	Maximum Transmit EIRP (effective isotropic radiated power)	36 dBW or better	Firm will submit OEM Certificate
15	Pointing Acquisition Time (from stow)	Maximum 15 minutes	Board will check practically
16	Interface supported	USB/Wi-Fi/RJ-45 etc.	Board will check practically
17	Connectivity	All traffic should be routed through Indian Gateway	Firm will submit OEM Certificate
18	Service and support	Minimum 8 years	Firm will submit OEM Certificate
19	MTCTE Certification	Should have valid certification issued by TEC form the model Purposed by vendor	Firm will provide certificate in this Regard

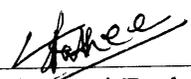

W/O Vikas Godara
Assam Rifles

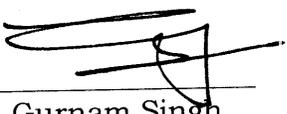

Laljee Ram
JAD, DCPW


Satish Kumar Mahla
AC (Conn), SSB

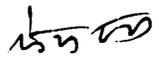

Shubham Singh
AC, CISF


Abhimanyu Yadav
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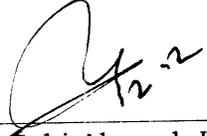

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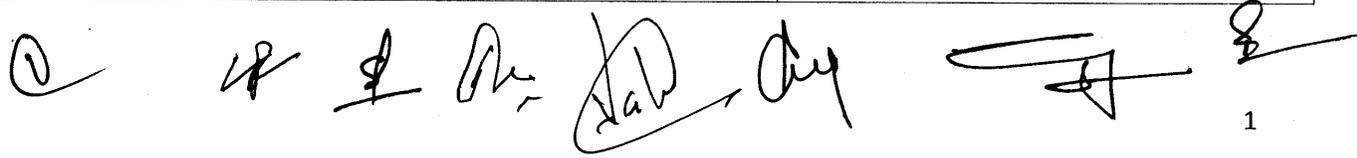

Zaki Ahmad, IPS
SDG (ADM), CRPF

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Gyanendra Pratap Singh, IPS
DG, CRPF

QRs/TDs OF GEO BASED STATIC SATELLITE TERMINAL

SN	Parameter	Specification	Trial Directives
01	Terminal Type	Terminal is foldable/ Flat/Parabolic terminal	Board will check practically
02	Configuration	Static	Board will check practically
03	Antenna Type	Full duplex Electronically steered antenna (ESA)/ Phased Array Antenna / Parabolic 1.2M	Board will check practically
04	System Latency	≤ 700 ms	Firm will submit OEM Certificate
05	Download speed	Min 4 Mbps	Board will check practically
06	Upload Speed	Min 2 Mbps	Board will check practically
7	Out Door unit		
i	Pointing /Acquisition	Fully Automatic (Auto- Pointing)/Manual pointing as per user requirement	Board will check practically
ii	Operating Temperature	-20°C to +55°C	Firm will submit certificate of any Govt lab/NABL /STQC/ ILAC accredited lab.
iii	Wind Load Resistance	Structure shall withstand wind speeds up to 70 km/h.	Firm will submit OEM Certificate
iv	Radome structure	(Optional)	Board will check physically
iv	Weight	Up to 50 kg excluding indoor unit.	Board will check practically
8	BUC Type	Min 2W or more as per user requirement, either separate unit or integrated in terminal	Board will check physically and Firm will submit OEM Certificate
9	Outdoor unit LNB	Separate unit or integrated in terminal	Board will check practically and firm will submit OEM Certificate
10	Modem		
i	Standard Forward Channel	DVB-S2 with ACM	Firm will submit OEM Certificate
ii	Modulation	QPSK,8PSK,16APSK,32APK	Firm will submit OEM Certificate
	Return Channel		
iii	Access Scheme	MF-TDMA, Dynamic channels	Firm will submit OEM Certificate

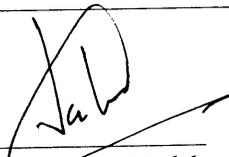


SN	Parameter	Specification	Trial Directives
iv	Modulation	BPSK, QPSK, 8PSK, 16QAM	Firm will submit OEM Certificate
	Interface		
v	Data Interfaces	Single Ethernet 1000BaseT	Firm will submit OEM Certificate
vi	IP Features	Modem shall support IPv4/IPv6, TCP, UDP, ICMP, DHCP, VLANs, RIPv2, Static Routes as per user requirement	Firm will submit OEM Certificate
vii	Operating Voltage	24V Dc	Board will check practically
10	Indoor Unit-8 Port Un-Managed Switch		
i	Device Interface	8 x Gigabit Lan ports	Board will check practically and firm will submit OEM Certificate
ii	LED indicators	Per port: Link /Activity/Speed	Board will check practically
iii	Power	5V / 1 A Power Adapter type	Board will check practically
iv	Data transfer rate	Fast Ethernet: 100 Mbps (Half Duplex), 200 Mbps (full duplex)	Board will check practically and firm will submit OEM Certificate
11	IFL Cables	Suitable cables of length 30 mtr each operating on L-band to be used in uplink and downlink chain.	Board will check practically
12	Ingress Protection	IP 65 or better	Firm will submit certificate of any Govt lab/NABL /STQX/ILAC accredited lab
13	Security	AES 128 or better	Firm will submit OEM Certificate
14	Power consumption	Maximum 300W	Firm will submit OEM Certificate
15	Maximum Transmit EIRP (effective isotropic radiated power)	36 dBW or better	Firm will submit OEM Certificate
16	Pointing Acquisition Time (from stow)	Maximum 15 minutes	Board will check practically

SN	Parameter	Specification	Trial Directives
17	Interface supported	USB/Wi-Fi/RJ-45 etc.	Board will check practically
18	Gig E Ports	2x GbE port	Board will check practically
19	Connectivity	All traffic should be routed through Indian Gateway	Firm will submit OEM Certificate
20	Service and support	Minimum 8 years	Firm will submit OEM Certificate
21	User Bandwidth requirement & Period	User to specify bandwidth requirement & Period. Vendor to arrange Bandwidth.	Board will check practically and Vendor to provide certificate from main Satellite service provider for the requirement period.
22	MTCTE Certification	Should have valid certification issued by TEC form the model Purposed by vendor	Firm will provide certificate in this Regard


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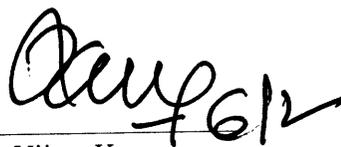

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