

Request for comments of stakeholders/OEM/Firms on draft QRs (Quality Requirement) & TDs (Trial Directives) of Hand Held Satellite Phone. Comments will submit to this Hqr before 28.01.2017 as per following mode:

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Proposed revised QRs of Hand Held Satellite Phone

SN	Parameters	Specifications
1	General	
	Size	≤Length: 7 Inch, Width:3 Inch, Depth: 2 Inch
	Weight	≤350 gm including battery
	Water and dust ingress Protection	IP54 or better
	Operating temperature range	-20°C to +55°C
	Storage temp range	-20°C to +70°C
	Charging temp range	0° C to +45° C
	Humidity tolerance	95 % non-condensing @ 40° C
2	Services	
	Voice capability	Voice: 2.4 kbps or better
	Supplementary voice services	Call history, caller ID, call waiting, call divert, call holding, Conferencing, call barring, speed dialing, fixed number dialing.
	Messaging services	160 Character text-to-text and text to e-mail
	Operational Time	The satellite phone should be fully operational within 1minute or less.
	Area of operation	The satellite phone should be able to operate in entire Indian territory.
	Altitude	The equipment should be able to operate satisfactorily in hilly, rough terrain, thick forest and high altitude area up to an altitude of 5000 M
	Interfaces	i) Micro USB ii) Audio socket iii) Antenna port iv) Blue tooth
	Display	High contrast color screen
	GPS features	Should view current position and able to send as text/e-mail to others
3	Battery	
	Type	Lithium-Ion or other compatible brand
	Talk Time	≥6 hours
	Stand by Time	≥70 hours
4	Others Features	
	Features	Microphone muting, speaker phone, Bluetooth.
	O/S compatibility	Windows XP ProSP3, Windows vista SP1, Window 7 & Windows 8 or higher.
	Security	At the keypad, Phone, SIM and network level
5	Connectivity	During tendering the vendors will specify how they are going to provide satellite communication service. They will also specify terms and condition and vendors will have to provide end to end connectivity.

SN	Parameters	Specifications
6	Accessories	<ul style="list-style-type: none"> a. One spare Lithium-Ion battery as operational reserve b. Mains universal AC charger c. Car charger 10-30 Volt d. Micro USB cable e. Wired hands free headset f. Quick start guide g. Holster h. Wrist Strip i. Support USB memory drive. j. Bluetooth handset (Optional) k. Light weight solar charger of appropriate power output to charge the battery within 4 to 5 hours (Optional) l. Docking unit (Optional)
7		<p>Term & Conditions:</p> <ul style="list-style-type: none"> i) Firm should impart training to indenter technical personnel in maintenance, operation and repairing of the set at the supplier service center or consignee location free of cost after procurement. ii) Vendor to indicate the service centers across India for repairing of equipment after sale warranty support. iii) Supplier should provide after sales support, supply of spares for at least 7 years after warranty period. iv) Supplier should provide a certificate from the manufacturer that the measurement of the equipment is made in accordance with regulatory authority. v) The firm should enclose DOT/WPC license for supplying equipment in India. vi) At least 2 No. sets for 15 days to be provided for field trial on “No Cost No Commitments” basis to ascertain the users satisfaction before the proposal is accepted. vii) All the technical features will be shown during the trials. viii) The supplier shall provide a comprehensive warranty for a period of 12 months. ix) All equipment shall be supplied with their standard OEM battery packs & charger.

PROPOSED TRIAL DIRECTIVES FOR HAND HELD SATELLITE PHONE

Trial/technical evolution of equipment will be conducted by a Board of Officers (B.O.O) in the presence of vendor or representative of firm to assess actual performance of the equipment.

2. **Methodology:** To check all specifications/parameter of Hand Held Satellite Phone mentioned in the QRS will be checked by B.O.O. during trial by ascertaining/ verifying following ways.

i) **Physical Check:** In this category specifications of the equipment will be checked by B.O.O physically as per QRs.

ii) **Functional Check:** In this category vendor/supplier will show practically all features/configuration shown against to the board of officers during trial.

iii) **Submission of Certificate:** Specification which cannot be checked due to lack of testing facilities/expertise, certificate of any Govt. Lab. or NABL/ILAC accredited laboratory empowered to conduct these tests shown against provided by the firm will be acceptable by B.O.O.

SN	Parameters	Specifications	Trial Procedure
1	General		
	Size	≤Length: 7 Inch, Width:3 Inch, Depth: 2 Inch	B.O.O will measure size of length, width and depth practically with the help of measuring tape / scale.
	Weight	≤350 gm including battery	B.O.O will measure weight practically with the help of weighing machine.
	Water and dust ingress Protection	IP54 or better	Firm will produce certificate of any Govt. Lab. or NABL/ILAC accredited laboratory empowered to conduct these tests.
	Operating temperature range	-20°C to +55°C	
	Storage temp range	-20°C to +70°C	
	Charging temp range	0° C to +45° C	
	Humidity tolerance	95 % non-condensing @ 40° C	

SN	Parameters	Specifications	Trial Procedure
2	Services		
	Voice capability	Voice: 2.4 kbps or better	Firm will produce OEM certificate.
	Supplementary voice services	Call history, caller ID, call waiting, call divert, call holding, Conferencing, call barring, speed dialing, fixed number dialing.	B.O.O will check practically all the supplementary voice services.
	Messaging services	160 Character text-to-text and text to e-mail	BOO will check practically.
	Operational Time	The satellite phone should be fully operational within 1 minute or less.	BOO will check practically.
	Area of operation	The satellite phone should be able to operate in entire Indian territory.	At trial location B.O.O will check functionality of equipment physically. In case testing of equipment in entire Indian Territory & altitude above 5000M is not feasible, then firm will produce OEM certificate.
	Altitude	The equipment should be able to operate satisfactorily in hilly, rough terrain, thick forest and high altitude area up to an altitude of 5000 M	
	Interfaces	i) Micro USB ii) Audio socket iii) Antenna port iv) Blue tooth	BOO will check physically and practically.
	Display	High contrast color screen	BOO will check practically.
GPS features	Should view current position and able to send as text/e-mail to others	BOO will check practically.	
3	Battery		
	Type	Lithium-Ion or other compatible brand	Firm will produce OEM certificate.
	Talk Time	≥6 hours	BOO will check physically and practically.
Stand by Time	≥70 hours		

SN	Parameters	Specifications	Trial Procedure
4	Others Features		
	Features	Microphone muting, speaker phone, Bluetooth.	BOO will check practically all the features.
	O/S compatibility	Windows XP Pro SP3, Windows vista SP1, Window 7 & Windows 8 or higher.	BOO will check practically.
	Security	At the keypad, Phone, SIM and network level	Firm will produce OEM certificate.
5	Connectivity	During tendering the vendors will specify how they are going to provide satellite communication service. They will also specify terms and condition and vendors will have to provide end to end connectivity.	B.O.O. will check end to end connectivity practically by making call from hand held satellite phone to hand held satellite phone, land line phone, cellular phone & vice-versa etc. and will ensure that communication is established without any disruption. Vendor will also provide written undertaking that firm will provide end to end connectivity in all Indian Territory.
6	Accessories	<ul style="list-style-type: none"> a. One spare Lithium-Ion battery as operational reserve b. Mains universal AC charger c. Car charger 10-30 Volt d. Micro USB cable e. Wired hands free headset f. Quick start guide g. Holster h. Wrist Strip i. Support USB memory drive. j. Bluetooth handset (Optional) k. Light weight solar charger of appropriate power output to charge the battery within 4 to 5 hours (Optional) l. Docking unit (Optional) 	BOO will check physically and practically all the accessories.