

**QRs of Handheld Satellite Trackers (Adv. version) with
Mobile Phone.**

S N	Parameter	Specification
1	General	i. System should have automated GPS reporting.
		ii. Provision of tracking, messaging of minimum 60 characters and alerting.
		iii. Provision of locating nearby satellite trackers position in mobile app.
		iv. Provision of creation predefined messages and personnel address book for tracker.
		v. Tracker should be able to pair with mobile phone.
		vi. Battery status of satellite tracker should display in paired mobile phone.
2	Technical	
a)	Dimension	Hand held
b)	Interface	i) Communication port ii) Docking port for future expansion (Optional)
c)	Weight of equipment	≤500Grams including battery
d)	Type of battery	Rechargeable Battery
e)	Back Up of Battery	12 Hrs with 2 minutes reporting interval.
f)	Charging	AC Adopter with USB Charging Interface
g)	Terminal to Terminal Communication	Should be through satellite link
h)	Alert notification	Exchange Predefined SMS to Mobile phones, E-mail to any assigned email address & Mobile phone number
i)	Waypoints	Provision of storing way points
j)	Delay time	Delay time should not be more than 100 seconds at 2Mbps speed internet connection.
k)	Area of operation	Satellite Tracker System should be able to operate in entire Indian Territory.

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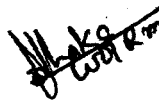
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S N	Parameter	Specification
3	Environmental standards	
a)	Water and Dust ingress Protection	IP 65 or better
b)	Operating Temperature	-10°C To +55°C
c)	Storage Temperature	-40°C To +60°C
d)	Humidity	95% @ 40°C
e)	Drop	Survives at 1 Meter drop
4	Connectivity	During tendering the vendors will specify how they are going to provide Satellite communication service to the Satellite Tracker System.
5	Mobile Phone (Optional)	
a)	Processor	Minimum 1.5 GHz
b)	RAM	Minimum 3 GB
c)	Operating System	COTS (Commercial Off The Shelf) Operating System or any other better OS (As per user requirement)
d)	Internal Storage	Minimum 32 GB
e)	Expandable Storage	Micro SD card slot must be available
f)	Display	5 inches or more as per user requirement
g)	GPS	Should be available
h)	Bluetooth	Should be available
i)	Wi-Fi	Should be available
j)	Battery	3000 mAh or more
k)	Dust & water proof	IP67 or better
l)	Casing	As per user requirement
6	Web based application should be available with following features:-	
a)	Easy to use web based applications that provide base/control centers with visibility of remotes "Out in Fields" individuals from any PC.	
b)	SOS alert: Display live on the Map	
c)	Tracking path: Each tracker path display with different color	
d)	Fleet management: Should be configured by user	
e)	Delivers automated alerts based on multiple geo-fencing Options, checkpoints and route deviation.	
f)	Provision to reset, disable and configure terminal remotely by command from central site.	


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S.N	Specifications
7	Miscellaneous
a)	02 years warranty for tracker and mobile phone
b)	03 years service support beyond warranty period
c)	Assurance of satellite service for 5 years.


WO/RM R.S.Dhaka
Assam Rifles



INSP/T V.K.Kothiyal
BSF



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CISF

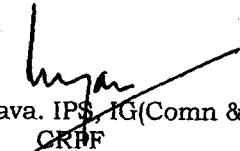

Pramod Kumar, DC(Comn)
SSB

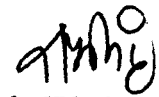

P.R.Jha,DC(UAV)
CRPF


B.N.Sonawan, 2 I/C
ITBP

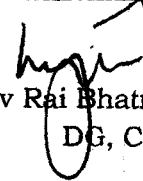

Harjinder Singh,DIG(Eqpt)
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Trial Directives for Handheld Satellite Trackers (Adv. version) with Mobile Phone.

All Technical Specification of Satellite Tracker System will be checked by board of officers in the presence of vendor to assess its overall performance as per test procedure mentioned against.



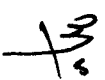




- j) **Physical Checks**:-In this category specifications of the equipment will be checked physically as per QRS.
- ii) **Functional Checks**:- In this category supplier will show practically all feature / configuration shown against to the board of officers during trial.

iii) **Submission of Certificates**:-Specification which cannot be checked due to lack of testing facilities/expertise, certificate of test shown against as asked provided by the firm will be acceptable by B.O.O.








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1	General	<ul style="list-style-type: none"> i. System should have automated GPS reporting. ii. Provision of tracking, messaging of minimum 60 characters and alerting. iii. Provision of locating nearby satellite trackers position in mobile app. iv. Provision of creation predefined messages and personnel address book for tracker. v. Tracker should be able to pair with mobile phone. vi. Battery status of satellite tracker should display in paired mobile phone. 	<ul style="list-style-type: none"> Board will check practically. Board will check practically. Board will check practically. Board will check practically. Board will check practically. Board will check practically.
2	Technical		
a)	Dimension	Hand held	Board will check practically.
b)	Interface	<ul style="list-style-type: none"> i) Communication port ii) Docking port for future expansion (Optional) 	Board will check practically
c)	Weight of equipment	≤500Grams including battery	Board will check practically.
d)	Type of battery	Rechargeable battery	Board will check practically.

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S N	Parameter	Specification	Trial directives
e)	Back Up of Battery	12 Hrs with 2 minutes reporting interval.	Board will check practically.
f)	Charging	AC Adopler with USB Charging Interface	Board will check practically.
g)	Terminal to Terminal Communication	Should be through satellite link	Firm will submit OEM certificate and board will also check practically.
h)	Alert notification	Exchange Predefined SMS to Mobile phones, E-mail to any assigned email address & Mobile phone number	Board will check practically.
i)	Waypoints	Provision of storing way points	Board will check practically.
j)	Delay time	Delay time should not be more than 100 seconds at 2Mbps speed internet connection	Board will check practically.
k)	Area of operation	Satellite Tracker System should be able to operate in entire Indian Territory.	Board will check practically and also firm will submit undertaking certificate to operate in entire Indian Territory.
3	Environmental standards		
a)	Water and Dust ingress Protection	IP 65 or better	Firm will submit certificate of Govt. Lab. or NABL/ ILAC accredited laboratory.
b)	Operating Temperature	-10°C To +55°C	
c)	Storage Temperature	-40°C To +60°C	
d)	Humidity	95% @ 40°C	
e)	Drop	Survives at 1 Meter drop	











S.N	Parameter	Specification	Trial directives
4	Connectivity	During tendering the vendors will specify how they are going to provide Satellite communication service to the Satellite Tracker System.	Firm will provide undertaking in this regard.
5	Mobile Phone (Optional)		
a)	Processor	Minimum 1.5 GHz	Firm will submit OEM certificate and board will also check practically.
b)	RAM	Minimum 3 GB	
c)	Operating System	COTS (Commercial Off The Shelf) Operating System or any other better OS (As per user requirement)	
d)	Internal Storage	Minimum 32 GB	
e)	Expandable Storage	Micro SD card slot must be available	
f)	Display	5 inches or more as per user requirement	Board will check practically
g)	GPS	Should be available	Firm will submit OEM certificate and board will also check practically.
h)	Bluetooth	Should be available	
i)	Wi-Fi	Should be available	
j)	Battery	3000 mAh or more	Firm will submit OEM certificate and board will also check practically.
k)	Dust & water proof	IP67 or better	Firm will submit certificate of Govt. Lab. or NABL/ ILAC accredited laboratory.
l)	Casing	As per user requirement	Board will check practically











S.N	Parameters	Trial Directives
6	Web based application should be available with following features:-	Board will check practically.
a)	Easy to use web based applications that provide base/control centers with visibility of remotes "Out in Fields" individuals from any PC.	
b)	SOS alert: Display live on the Map	
c)	Tracking path: Each tracker path display with different color	
d)	Fleet management: Should be configured by user	
e)	Delivers automated alerts based on multiple geo-fencing Options, checkpoints and route deviation.	
f)	Provision to reset, disable and configure terminal remotely by command from central site.	Firm will submit certificate.
7	Miscellaneous	
a)	02 years warranty for tracker and mobile phone	
b)	03 years service support beyond warranty period	Firm will provide undertaking in this regard.
c)	Assurance of satellite service for 5 years.	Firm should submit certificate from Satellite service provider.



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