

No. IV-21011/12/2012-Prov.I-9763
भारत सरकार/Government of India
गृह मंत्रालय/Ministry of Home Affairs
पुलिस आधुनिकीकरण प्रभाग /Police Modernization Division
संभरण-I डेस्क /Prov.I Desk

26, Man Singh Road, Jaisalmer House,
New Delhi, the 5 December, 2014

To,

The DsG: AR (through LOAR), BSF, CISF, CRPF, ITBP, SSB, NSG & BPR&D.

Subject: QRs and Trial Directives of Satellite Personal Tracker System.

The undersigned is directed to refer to the subject mentioned above and to say that the QRs and Trial Directive in respect of Satellite Personal Tracker System as per Annex-I and Annex-II respectively have been approved by the competent authority in MHA.

2. Henceforth, all the CAPFs should trial evaluate and procure the above item, required by them, strictly as per the laid down QRs.
3. Concerned CAPF will be accountable for correctness of the QRs.

Yours faithfully,



(P. K. Srivastava)

Under Secretary to the Govt. of India

Encl: As above.

Copy forwarded for necessary action to:

SO (IT), MHA - with the request to host the QRs and Trial Directives of Satellite Personal tracker System on official website of MHA (under the page of Organizational Set up, Police Modernization Division-Communication Equipments). Soft copy is being sent through email also.



(R. K. Soni)

Section officer (Prov-I)

Copy to: DDG (Procurement), MHA

QRs/SPECIFICATION FOR SATELLIE PERSONAL TRACKER SYSTEM

| Sl No | Parameter | Specification |
|-------|--|---|
| 1 | General | i) System should have automated GPS reporting. ii) Provision of worldwide tracking, messaging and alerting iii) Locates nearest personal tracker. iv) Easy to use web based applications that provide base/control centers with visibility of remotes "Out in Fields" individuals from any PC. v) Delivers automated alerts based on multiple geofencing Options, checkpoints and route deviation. vi) Provision of creation predefined messages and personnel address book for tracker. vii) Provision to reset, disable and configure terminal remotely by command from central site. |
| 2 | Technical | |
| | i) Display | OLED, Minimum size should be 36 X 20mm |
| | ii) Dimension | Less than 190 × 95 × 55 mm |
| | iii) Interface | i) Docking port for future expansion ii) Communication port |
| | iv) Weight of equipment | Less than 400 Grams including battery |
| | v) Type of battery | Rechargeable Lithium based or other compatible brand |
| | vi) Back Up of Battery | Not less than Eight days with 1 Hour reporting intervals |
| | vii) Charging | AC Adopter with USB Charging Interface (+5V,1A) |
| | viii) Terminal to Terminal Communication | Should be through satellite link |
| | ix) Alert notification | Exchange Predefined SMS to Mobile phones, E-mail to any assigned email address & Mobile phone number |
| | x) Waypoints | Provision of storing way points |
| | xi) Delay time | There should not be more than 100 seconds in good speed internet connection. |
| | xii) Area of operation | Personnel Tracker System should be able to operate in entire Indian Territory. |
| 3 | Environmental standards | |
| | i) Water and Dust ingress Protection | IP 67 or better |
| | ii) Operating Temperature | -20°C To +55°C |
| | iii) Storage Temperature | -40°C To +60°C |
| | iv) Humidity | 95% @ 40°C |
| | v) Shock | Survives at 1 Meter drop |




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| | | |
|---|---------------------|--|
| 4 | Accessories | i) Carrier with holder and strap. ii) Passive Antenna with 3 Meter cable for Vehicle Mounting (Optional) |
| 5 | Connectivity | During tendering the vendors will specify how they are going to provide Satellite communication service to the personnel Tracker System. |

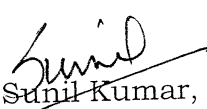

[SI/E Sohrab Ansari, CISF]

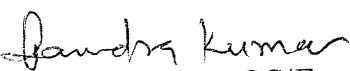

[M S Yadav, AC, CRPF]


[U.C. Joshi, AC, BSF]


[P S Bist, Asstt. Dir. DCPW]


[Gurbachan Singh, BPR&D]


[Sunil Kumar, DC, ITBP]

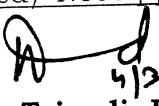

(Ravindra Kumar, SC(Eqpt), NSG)


[Virendra Agrawal, DIG(Eqpt), CRPF]


[Mahesh Kumar, DIG(Comn), CRPF]


[Shailendra Kumar, IG (Comn), CRPF]

Approved / ~~Not Approved~~


(Dilip Trivedi, IPS)
DG, CRPF

TRIAL DIRECTIVE FOR SATELLITE PERSONAL TRACKER SYSTEM

Type
Annex- II

Trial/ technical evaluation of equipment will be conducted by a Board of Officers in the presence of Vendor to assess actual performance of the equipment.

2. All specifications / parameter of equipment 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.

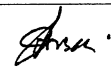
ii) **Functional Check**: - In this category Supplier will show practically all features/ configuration shown against to the board of officers during trial.

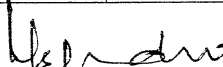
iii) **Submission of Certificate**:-Specification which cannot be checked due to lack of testing facilities/expertise, certificate of test shown against as asked provided by the vendor will be acceptable by B.O.O.


| Sl No | Parameter | Specification | Trial/Test Procedures |
|-------|--|---|--|
| 1 | General | i) System should have automated GPS reporting. ii) Provision of worldwide tracking, messaging and alerting iii) Locates nearest personal tracker. iv) Easy to use web based applications that provide base/control centers with visibility of remotes "Out in Fields" individuals from any PC. v) Delivers automated alerts based on multiple geofencing Options, checkpoints and route deviation. vi) Provision of creation predefined messages and personnel address book for tracker. vii) Provision to reset, disable and configure terminal remotely by command from central site. | Board will check the all shown specifications one by one practically and ensure their availability and workability. |
| 2 | Technical | | |
| | i) Display | OLED , Minimum size should be 36 x 20mm | Board will check size of screen and dimensions of set with the help of measuring scale. |
| | ii) Dimension | Less than 190 x 95 x 55 mm | |
| | iii) Interface | i) Docking port for future expansion ii) Communication port | Board will ensure that both ports are physically available. |
| | iv) Weight of equipment | Less than 400 Grams including battery | Board will measure the weight by weighing machine. |
| | v) Type of battery | Rechargeable Lithium based or other compatible brand | Board will ensure battery is rechargeable and compatible with set. |
| | vi) Back Up of Battery | Not less than Eight days with 1 Hour reporting intervals | Board will check back up time practically by putting system on and setting reporting time one hour and ensure back time. |
| | vii) Charging | AC Adopter with USB Charging Interface (+5V,1A) | Board will charge the battery practically and ensure workability. |
| | viii) Terminal to Terminal Communication | Should be through satellite link | Board will check it practically by communicating and ensure workability of the set. |

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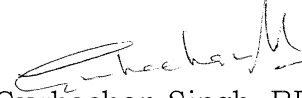
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|---|--------------------------------------|--|--|
| | ix) Alert notification | Exchange Predefined SMS to Mobile phones, E-mail to any assigned email address & Mobile phone number | Board will check it practically by sending SMS and E-mail to any assigned address and mobile phone number and ensure availability & workability of the set. |
| | x) Waypoints | Provision of storing waypoints | Board will check practically by storing waypoints. |
| | xi) Delay time | There should not be more than 100 seconds in good speed internet connection. | Board will check it practically and ensure serviceability as per norms. |
| | xii) Area of operation | Personnel Tracker System should be able to operate in entire Indian Territory. | Board will check it practically at different locations as decided by the board. |
| 3 | Environmental standards | | |
| | i) Water and Dust ingress Protection | IP 67 or better | Vendor will produce certificate of any accredited laboratory of International Laboratory Accreditation Corporation (ILAC) or NABL approved labs. |
| | ii) Operating Temperature | -20°C To +55°C | |
| | iii) Storage Temperature | -40°C To +60°C | |
| | iv) Humidity | 95% @ 40°C | |
| | v) Shock | Survives at 1 Meter drop | |
| 4 | Accessories | i) Carrier with holder and strap. ii) Passive Antenna with 3 Meter cable for Vehicle Mounting (Optional) | i) Board will check physically and ensure that set should be inserted in it. ii) Board will check it practically after mounting on vehicle and ensure it operability. |
| 5 | Connectivity | During tendering the vendors will specify how they are going to provide Satellite communication service to the personnel Tracker System. | Vendor will produce the certificate in this regards |

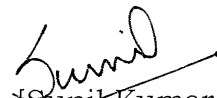

[SI/E Sohrab Ansari, CISF]

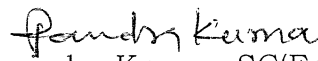

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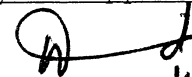

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Approved / ~~Not Approved~~


(Dilip Trivedi, IPS) 4/3
DG, CRPF