

16 APR 2015

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No. P/604/2013(389)NSG-747

भारत सरकार/Government of India

गृह मंत्रालय/Ministry of Home Affairs

पुलिस आधुनिकीकरण प्रभाग /Police Modernization Division

संभरण-I डेस्क/Prov.I Desk

DR
14 (Prov-I)
18/4/15
DR (Prov-I)

26, Man Singh Road, Jaisalmer House,
New Delhi, the 07 April, 2015.

To,

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

Subject :Revised QRs and Trial Directives for Cable and Wire Locator.

The QRs and Trial Directives in respect of Cable and Wire Locator as per the Annex-I and Annex-II respectively have been accepted by the Competent Authority in MHA.

2. Henceforth, all the CAPFs should procure the above item required by them strictly as per laid down Technical Specifications/QRs.

3. Concerned CAPF will be accountable for correctness of the QRs/Trial Directives.

Yours faithfully,


7/4/15
(M. K. Chahar)

Under Secretary (Prov-I)

Encl.: As above.

Copy to : SO(IT), MHA : with the request to host the QRs and Trial Directives of Cable and Wire Locator on the website of MHA (under the page Organizational Set up-Police Modernization Division-Qualitative Requirements – BDDS Equipment), soft copy being sent through email.



(R K Soni)

Section Officer (Prov.I)

Copy to : DDG(Procurement), MHA.

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10/4/15

13/4/15	13/4
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IG (Prov) Secretariat
Dr. No. 379
10/4/15

QRs OF CABLE AND WIRE LOCATOR

Technical Specifications of Cable and Wire Locator

No	
1.	It should be battery operated, hand held search device for the detection of command wires leading to remote control IEDs.
2.	Detection : It should be able to detect and locate cable of at least 50 meter length which is buried at the depth of minimum 20 cm. It should be able to detect such cables in all weather and soil conditions (dry soil, moist soil, soil with high metallic content) in active and passive modes both.
3.	The detector & its accessories should be made of non-corrosive material.
4.	The electronic circuit should be hermetically sealed. In case of battery leakage the electronic circuit should not get damaged.
5.	The equipment should have low battery indicator (audio & visual).
6.	False alarm rate should be < 1%.
7.	Length of the shaft to be adjustable, $\pm 20\%$.
8.	Manual controls for power on/off & for adjusting:- (i) Volume. (ii) Sensitivity. (iii) Gain.
9.	The equipment should give an audible alarm even when head phones are not used.
10.	Accessories . Along with the standard accessories, the equipment must have the following :- (a) Set of spare batteries (dry rechargeable). (b) Battery charger for rechargeable batteries. (c) Field back pack. (d) Ruggedized transit case.
11.	Components The equipment should contain sensing head, shaft, test piece, headphone (full ear covering headphone), battery carrier and any other item required for smooth operation of the equipment.
12.	Alarm Audio and visual.
13.	Power supply Dry Rechargeable and non rechargeable battery. Minimum life of battery 8 hours on full power mode under operational conditions.
14.	Operation time Minimum 12 Hours on full power mode in operational conditions.
15.	Operating temperature range : -10° to +50° Celsius.
16.	Operational weight with batteries : Maximum 4 kgs.
17.	Protection : Equipment should be IP-67 compliant.
18.	Misc:- (a) Tech Manual giving full description of the item. (b) User's hand book & literature on packing, handling, operation, maintenance, transportation & storage of equipment

(A.K. Shukla) AC CSE
 Lal Mohan Singh AC ITSP
 (M.S. Yadav) CRPS
 (A.K. N. VARMA) FOS, TRG CEN, NSG
 (R.M. Arind Singh) BPO NSG
 (S. R. Chandra) Ss. (E), BORD
 (M. P. Singh) H.O. D. C. C.
 (A.N. Lal) SDC (Bord), BORD
 (J.N. Choudhury) DG NSG

APPROVED / NOT APPROVED

(J N Choudhury) DG NSG

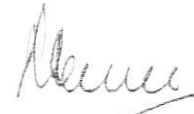
TRIAL DIRECTIVES OF CABLE AND WIRE LOCATOR

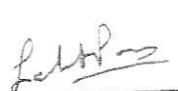
Ser No	QR of Cable and Wire Locator	Trial methodology
1.	It should be battery operated, hand held search device for the detection of command wires leading to remote control IEDs.	To be physically checked by the Board of Officers (BOO).
2.	Detection : It should be able to detect and locate cable of at least 50 meter length which is buried at the depth of minimum 20 cm. It should be able to detect such cables in all weather and soil conditions (dry soil, moist soil, soil with high metallic content) in active and passive modes both.	-do-
3.	The detector & its accessories should be made of non-corrosive material.	Certificate from the OEM to be provided by the firm and the same to be checked by the BOO.
4.	The electronic circuit should be hermetically sealed. In case of battery leakage the electronic circuit should not get damaged.	-do-
5.	The equipment should have low battery indicator (audio & visual).	To be physically checked by the BOO.
6.	False alarm rate should be < 1%.	-do-
7.	Length of the shaft to be adjustable, $\pm 20\%$.	-do-
8.	Manual controls for power on/off & for adjusting:- (a) Volume. (b) Sensitivity. (c) Gain.	-do-
9.	The eqpt should give an audible alarm even when head phones are not used.	-do-
10.	Accessories . Along with the standard accessories, the equipment must have the following :- (a) Set of spare batteries (dry rechargeable). (b) Battery charger for rechargeable batteries. (c) Field back pack. (d) Ruggedized transit case.	-do-
11.	Components The equipment should contain sensing head, shaft, test piece, headphone (full ear covering headphone), battery carrier and any other item required for smooth operation of the equipment.	-do-


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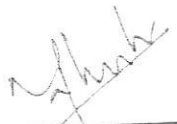
TRIAL DIRECTIVES OF CABLE AND WIRE LOCATOR (Contd..)

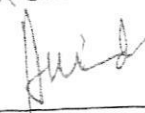
Ser No	QR of Cable and Wire Locator	Trial methodology
12.	<u>Alarm</u> Audio and visual	To be physically checked by the BOO.
13.	<u>Power supply</u> Dry Rechargeable and non rechargeable battery. Minimum life of battery 8 hours on full power mode under operational conditions.	-do-
14.	<u>Operation time</u> Minimum 12 Hours on full power mode in operational conditions.	-do-
15.	<u>Operating temperature range</u> : -10° to +50° Celsius.	Firm to provide certificate from a National/International accredited lab. The certificate to be checked by the BOO.
16.	<u>Operational weight with batteries</u> : Maximum 4 kgs.	To be physically checked by the BOO.
17.	<u>Protection</u> : Equipment should be IP67 compliant.	Firm to provide certificate from a National/International accredited lab. The certificate to be checked by the BOO.
18.	<u>Misc:-</u> (a) Tech Manual giving full description of the item. (b) User's hand book & literature on packing, handling, operation, maintenance, transportation & storage of equipment	To be physically checked by the BOO.

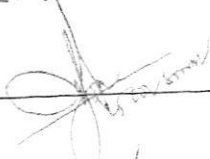

 (A.K. Guleri AC CISP)

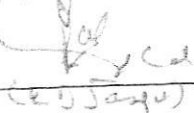

 Lt Col Mohan Singh AC
 IT GP



 (M.S. Yadav AC CRP)



 (MPT. M. VARMA
 FES, TRG. CEN, NSG)



 (MAJ ARVIND SINGH, BOO
 NSG)


 GURBACHAN SINGH
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 (B.N. LAL)
 GIC (REV), HQ NSG


 (B.C. JOTHI, DE)
 BSA


 (MAJ RAMESH JAIS)
 HQ NSG

APPROVED / NOT APPROVED


 (J N Choudhury)
 DG NSG