

No. P/604/2014(389)/ROWC/NSG
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 1st December, 2014.

To,

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

Subject : QRs and Trial Directives for Remote Operated Wire Cutter.

The QRs and Trial Directives in respect of Remote Operated Wire Cutter 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 the laid down Technical Specifications/QRs.
3. Concerned CAPF will be accountable for correctness of QRs/Trial Directives.

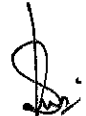
Yours faithfully,



(P. K. Srivastava)
Under Secretary (Prov-II)

Encl.: As above.

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



(R. K. Soni)
Section Officer (Prov.I)

Copy to : DDG(Procurement), MHA.

Annex - 1

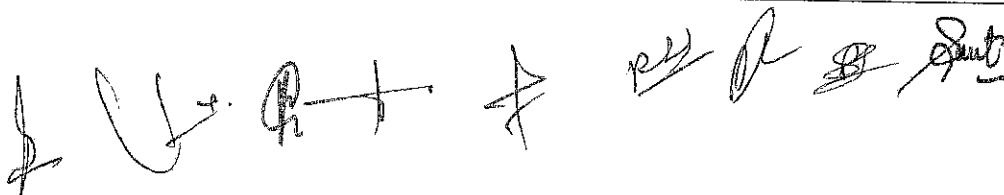


QRs / TECHNICAL SPECIFICATION FOR REMOTE OPERATED WIRE CUTTER

General – Remote Operated Wire Cutter is used by Bomb Technicians to cut the wires of IEDs remotely thus making the operation safe.

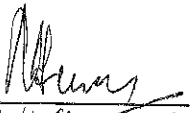
Specifications : The required specifications of the equipment are as under.


SI No	Technical Specifications
1.	It should be able to cut electric wire from a distance of minimum 100 meters through remote operation both cordless and corded.
2.	Should be provided with a pole stand for mounting of motor with wire cutter. (a) Height of the pole stand should be minimum 1 Mtr. (b) Suitable clamp should be provided in the system to allow adjustment of the height to the desired level. (c) The clamp should be provided with suitable arm/ lever for fastening /unfastening the clamp. (d) The clamp with lever should be so designed so as to allow adjustment of height of the motor with wire cutter on the pole stand without using of tools. (e) The arm/ lever of the clamp should be provided with suitable grip for ease of operation by hand. (f) The base of the pole stand, pole, clamp, fastening/unfastening clamp/lever, nuts if any used in the system should be rustproof.
3.	Cordless Operation:- (a) The equipment should be able to function cordless for which it should be provided with a Cordless Remote for its remote operation from a distance of minimum 100 meters. (b) The remote should function on commercially available rechargeable cells.
4.	Corded Operation - Besides using remote Control, the equipment should also be able to function through wired connectivity from a distance of minimum 100 meters.
5.	Wire Cutter :- (a) The Jaw of the Wire Cutter should open up to an angle of max 45°. (b) The wire cutter should be able to cut wire with max overall diameter of 5 mm including the sheath. (c) The motor of the wire cutter should function on commercially available Standard 12V Rechargeable Lead Acid Sealed Maintenance Free Battery.
6.	Operating temperature : The complete equipment should be able to function from -10° C to +50° C
7.	Weight – (a) The complete weight of the equipment with standard accessories alongwith the pelican case should not be more than 30 kgs. (b) The weight of the additional accessories along with the pelican case should not be more than 10 Kgs.





QRs / TECHNICAL SPECIFICATION FOR REMOTE OPERATED WIRE CUTTER


8.	<p>Carrying Cases –</p> <p>(a) Should be light weight, water resistant for safe storage and transportation of the complete equipment including the accessories.</p> <p>(b) The carrying cases should be provided with roller wheels and suitable handle for transportation akin to a stroller.</p> <p>(c) The main equipment with standard accessories will be provided in one pelican case and the additional accessories will be provided in a separate pelican case.</p>
9.	<p>Accessories - The equipment will be provided with the under mentioned accessories:-</p> <p>(a) Standard Accessories :-</p> <p>(i) Remote Control - Qty 01.</p> <p>(ii) Commercially available rechargeable cells for the remote control – 01 Sets.</p> <p>(iii) Battery Charger for charging cells of the Remote Control- Qty 01.</p> <p>(iv) Commercially available Standard 12V Rechargeable Lead Acid Sealed Maintenance Free Battery for Operation of Motor of wire cutter – 01 Nos.</p> <p>(v) Spool of 100 Meter wire – qty 01.</p> <p>(vi) All types of wires with connectors required for functioning of the equipment.</p> <p>(vii) User Handbook/Technical manual.</p> <p>(b) Additional Accessories :-</p> <p>(i) Commercially available rechargeable cells for the remote control – 01 Sets.</p> <p>(ii) Commercially available Standard 12V Rechargeable Lead Acid Sealed Maintenance Free Battery for Operation of Motor of wire cutter – 01 Nos.</p> <p>(iii) Charger for Standard 12V Rechargeable Lead Acid Sealed Maintenance Free Battery</p>



(A.K. Chakrabarty AEC/NSG)

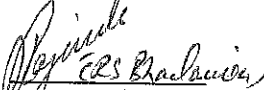

(Satinder Singh)
AC I.T.B.P.

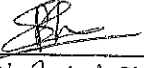

Dr. M.M. Goyal
Dy. Insp, BPRED

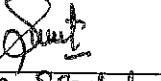

Major Milkansh
TC, FOS NSG


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INSQ/Pradeep Sharma
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Maj S Saehdua
SC (ord), HQNSG

APPROVED / NOT APPROVED


(J N Choudhury)
DG, NSG

TRIAL DIRECTIVES FOR REMOTE OPERATED WIRE CUTTER

SI No	Technical Specifications	Trial Methodology
1.	It should be able to cut electric wire from a distance of minimum 100 meters through remote operation both cordless and corded.	To be physically checked by the Board of Officers (BOO).
2.	<p>Should be provided with a pole stand for mounting of motor with wire cutter.</p> <p>(a) Height of the pole stand should be minimum 1 Mtr.</p> <p>(b) Suitable clamp should be provided in the system to allow adjustment of the height to the desired level.</p> <p>(c) The clamp should be provided with suitable arm/ lever for fastening /unfastening the clamp.</p> <p>(d) The clamp with lever should be so designed so as to allow adjustment of height of the motor with wire cutter on the pole stand without using of tools.</p> <p>(e) The arm/ lever of the clamp should be provided with suitable grip for ease of operation by hand.</p> <p>(f) The base of the pole stand, pole, clamp, fastening/unfastening clamp/lever, nuts if any used in the system should be rustproof.</p>	Parameters listed at Srl No-2(a) to (e) to be physically checked by the Board of Officers (BOO). With respect to parameter at Srl No-2(f), Vendor/firm to provide certificate confirming the antirust properties/ rust proof coating if any.
3.	<p><u>Cordless Operation:-</u></p> <p>(a) The equipment should be able to function cordless for which it should be provided with a Cordless Remote for its remote operation from a distance of minimum 100 meters.</p> <p>(b) The remote should function on commercially available rechargeable cells.</p>	To be physically checked by the Board of Officers (BOO).
4.	<p><u>Corded Operation</u> - Besides using remote Control, the equipment should also be able to function through wired connectivity from a distance of minimum 100 meters.</p>	To be physically checked by the Board of Officers (BOO).

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TRIAL DIRECTIVES FOR REMOTE OPERATED WIRE CUTTER (Contd..)

5.	<p>Wire Cutter :- (a) The Jaw of the Wire Cutter should open up to an angle of max 45°. (b) The wire cutter should be able to cut wire of max overall diameter of 5 mm including the sheath. (c) The motor of the wire cutter should function on commercially available Standard 12V Rechargeable Lead Acid Sealed Maintenance Free Battery.</p>	<p>To be physically checked by the BOO.</p>
6.	<p>Operating temperature : The complete equipment should be able to function from -10° C to +50° C</p>	<p>Vendor/firm to provide certificate confirming the functioning of the equipment in the stated temperature range.</p>
7.	<p>Weight - (a) The complete weight of the equipment with standard accessories alongwith the pelican case should not be more than 30 kgs. (b) The weight of the additional accessories along with the pelican case should not be more than 10 Kgs.</p>	<p>To be physically checked by the BOO.</p>
8.	<p>Carrying Cases - (a) Should be light weight, water resistant for safe storage and transportation of the complete equipment including the accessories. (b) The carrying cases should be provided with roller wheels and suitable handle for transportation akin to a stroller. (c) The main equipment with standard accessories will be provided in one pelican case and the additional accessories will be provided in a separate pelican case.</p>	<p>To be physically checked by the BOO.</p>

Handwritten notes and signatures:
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 V. P. K. * ≠ R. P. S. Saut

TRIAL DIRECTIVES FOR REMOTE OPERATED WIRE CUTTER (Contd..)

<p>9.</p>	<p>Accessories - The equipment will be provided with the under mentioned accessories:-</p> <p>(a) Standard Accessories :-</p> <ul style="list-style-type: none"> (iii) Remote Control - Qty 01. (iv) Commercially available rechargeable cells for the remote control – 01 Set. (v) Battery Charger for charging cells of the Remote Control- Qty 01. (vi) Commercially available Standard 12V Rechargeable Lead Acid Sealed Maintenance Free Battery for Operation of Motor of wire cutter – 01 Nos. (vii) Spool of 100 Meter wire – qty 01. (viii) All types of wires with connectors required for functioning of the equipment. (ix) User Handbook/Technical manual. <p>(b) Additional Accessories :-</p> <ul style="list-style-type: none"> (i) Commercially available rechargeable cells for the remote control – 01 Set. (ii) Commercially available Standard 12V Rechargeable Lead Acid Sealed Maintenance Free Battery for Operation of Motor of wire cutter – 01 Nos. (iii) Charger for Standard 12V Rechargeable Lead Acid Sealed Maintenance Free Battery – 01 Nos. 	<p>To be physically checked by the BOO.</p>
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Abhinav
 (A.K. Shukla, AC (ISB))

Sanjay
 Sub Major
 TC, NBOC, NSG

Pradeep Sharma
 IWP/IT Pradeep Sharma
 SMO BSP

Satinder Singh
 AC ITBP

Rishi
 Maj R.S. Singh
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 Maj S Sachdeva
 SC(Ord), HQ NSG

Roshan
 Dr. M. M. Gosal
 SP, BPR, ID

Chandrasekhar
 Major
 TC (LDE) HPDSC

Major Mitkanth
 TC, FOS HSG

APPROVED / NOT APPROVED

J N Choudhury
 (J N Choudhury)
 DG, NSG