

ज्ञापांक.....2797...../आपूर्ति

'92-1-4-2015

पुलिस महानिदेशक का कार्यालय, बिहार, पटना।

पटना,दिनांक- 19-5-16

सेवा में,

निदेशक,
सूचना एवं जनसम्पर्क विभाग,
बिहार, पटना।

विषय- निविदा आमंत्रण सूचना सं०-05/2016-17 के प्रकाशन के संबंध में।

निदेशानुसार उपर्युक्त विषय के संबंध में निविदा आमंत्रण सूचना सं०-05/2016-17 की पाँच प्रतियाँ (सी०डी० सहित) संलग्न करते हुए अनुरोध है कि इसे राज्य एवं राज्य से बाहर के प्रमुख समाचार पत्रों में (अंग्रेजी एवं हिन्दी) के अगले दो संस्करणों में प्रकाशित कराने की कृपा की जाय साथ ही पी०आर०डी० वेबसाइट पर भी प्रसारित करने की कृपा की जाय। उक्त निविदा का प्रकाशन Indian Trade Journal, Kolkata के संस्करण में भी अनिवार्य रूप से कराया जाय, जिसका पता निम्न है :-

Government of India, the Controller of Publications, Civil Lines, Delhi : 110 054,(Tel No. 011-23812527, FAX : 011-23817846), Email Id-sk.mondal.dgcis@nic.in

इस निविदा आमंत्रण सूचना का प्रकाशन किन-किन समाचार पत्रों में किया गया इसकी सूचना देने की कृपा की जाय।

अनु०-यथोपरि।

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14.5.16

पुलिस महानिरीक्षक के सहायक (क्यू०),
बिहार, पटना।

प्रतिलिपि:-

1. आई०टी० मैनेजर, पुलिस महानिदेशक का कार्यालय, बिहार, पटना को कृपया सूचनार्थ। कृपया इसे आज ही वेबसाइट पर अपलोड किया जाय। साथ ही Indian Trade Journal, Kolkata के अंक में प्रकाशन हेतु Government of India, the Controller of Publications, Civil Lines, Delhi : 110 054,(Tel No. 011-23812527, FAX : 011-23817846), Email Id-sk.mondal.dgcis@nic.in के पतेपर भी अनिवार्य रूप से भेजा जाय।
2. Government of India, the Controller of Publications, Civil Lines, Delhi : 110 054,(Tel No. 011-23812527, FAX : 011-23817846), Email Id-sk.mondal.dgcis@nic.in को कृपया सूचनार्थ एवं आवश्यक क्रियार्थ प्रेषित। अनुरोध है कि उक्त निविदा का प्रकाशन Indian Trade Journal, Kolkata के अंक में करने की कृपा की जाय।

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14.5.16

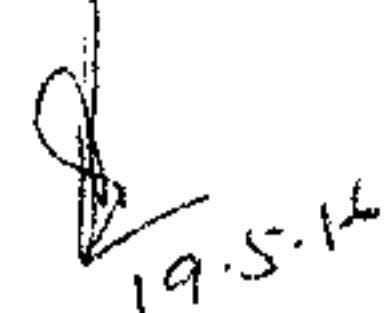
पुलिस महानिरीक्षक के सहायक (क्यू०),
बिहार, पटना।

Police Headquarters, Bihar, Patna
Notice Inviting Tender No-05/2016-17

1. Name of the Department : Office of Director General of Police, Bihar, Patna.
2. Last date & time for the acceptance of the Tender 21/06/2016, Till 11:00 AM
3. Date & time fixed for the opening of the Tender : 21/06/2016 At 11:00 AM
4. Place fixed for receiving & opening the tender : Office of Director General of Police, Bihar, Patna.
5. Details of Job :

S.N.	Item name	Quantity
1	Electronic Stethoscope	10
2	Remote Wire Cutter	10
3	Thermal Cutter	10
4	Non-Magnetic Tool Kit	10
5	Telescopic inspection mirror	10

Specifications and other terms & conditions of the tender may be obtained in person from this office or may be downloaded from the website www.prdbihar.org or www.biharpolice.bih.nic.in.


 19.5.16
AIG (Q)
 Bihar, Patna

Terms & Conditions Of Tender No. 05/2016-17

1. Tender of the firm will be accepted only on the condition that if their tenders are approved, the firm shall get registered with the Commercial Tax Department, Bihar, before the purchase order is issued.
2. The tender should be submitted in two parts : (i) Technical Bid and (ii) Financial Bid, duly sealed in two separate envelopes super-scribed as "Technical Bid" and "Financial Bid".
3. All relevant papers/certificates/specifications etc. of items should be enclosed in the Technical Bid.
4. The rates of the items shall be quoted in the Financial Bid only.
5. All charges like BST/CST/Service Tax /VAT etc. shall be clearly mentioned in the Financial Bid and the net rate (in figures and words) including all taxes and duties must also be quoted. Vague offers like indicating taxes "as applicable" will not be accepted.
6. The rates of the items shall be quoted in the Financial Bid in two parts :
(i) With AMC (Annual Maintenance Contract) and (ii) Without AMC
7. There should be no cutting, over writing or correction on the rates.
8. The technical and financial bids for each item should be submitted separately in separate envelopes. The technical and financial bids for more than one items submitted together in the same envelope shall not be accepted.
9. If the financial bid is submitted in the same envelope containing the technical bid then also it shall be summarily rejected.
10. The technical and financial bids should be put in two separate sealed envelopes and the envelopes should be marked Tender No-05/2016-17 (Technical Bid) and Tender No-05/16-17(Financial Bid) along with the name and address of the firm.
The sealed envelopes containing the technical and the financial bids should be sent in another sealed envelope which should be marked as Tender No-05/2016-17. This envelope should not bear the name and address of the firm.
11. Up-to-date Income Tax Returns, Turn Over of last three financial years and a photocopy of PAN of the participating firm should be submitted with the technical bid. It should be specifically mentioned whether IT return has been filed manually or electronically.
12. The turn over of the firm for the 2015-16 financial year should be at least double the amount of the supply order which is being issued. A copy of the profit and loss Account of the firm for the 2015-16 financial year, certified by a Chartered Accountant should be submitted along with the tender. If the tenderer is authorized dealer or authorized supplier of manufacturing firm, then the certified details of the turnover of authorizing firm may be accepted.
13. If there is some discount in the price of any item, it should be deducted from price itself and should not be quoted separately.
14. If the product is available on DGS & D rate contract, then a copy of the contract must be attached and pricing be done including all taxes.
15. A copy of the test report for the product issued by a competent authority within last one year should be attached with the technical bid.

16. In case of BP/BR items, test report of TBRL is compulsory.
17. Firms participating in this tender shall also submit duly sworn affidavit to the effect that " this firm has not been black listed/debarred by any Government or Semi Government or Private Agency and no sister concern of this firm is participating in this tender."
18. Firms participating in this tender shall also submit the self attested list of users of its equipments.
19. All items shall be received at Central Clothing Store, Patna, therefore price should be quoted FOR Central Clothing Store, Phulwari Sharif, Patna.
20. Firms will have to deposit a sum of Rs.50,000/- (Fifty Thousand) only as an earnest money in the form of Bank Draft duly pledged in favour of the undersigned along with the quotations.
21. Technical Bids will be opened on schedule date and time in the office chamber of Police Headquarter. Representatives of the firms competing in the tender may remain present at the time of opening of the technical bid.
22. The technical bids will be opened first and placed before the Technical Committee of the Police Headquarters, Bihar. If the technical bids are found satisfactory as per tender conditions, it will be put before Central Purchase Committee of the Police Headquarters, Bihar. The firms may be required to participate in the demonstrations of the quoted product and discussions with this committee.
23. Any paper/document will not be accepted after opening the tender.
24. Successful firm will have to enter into an agreement after depositing a sum of 5% of the total value of the order as security money in the form of Bank Guarantee duly pledged in favor of undersigned.
25. The firm will be required to provide satisfactory service after the delivery of the product.
26. The firm will be required to supply all the items within the stipulated time frame as mentioned in the purchase order.
27. Payment for the delivered items will be made only after the acceptance report of the Inspection Committee of the Police Headquarters, Bihar.
28. The firm whose quotation is approved by the Central Purchase Committee of the Police Headquarters, Bihar, shall be invited to enter into an agreement with the undersigned.
29. It is compulsory to submit the duly filled chart attached herewith, along with the technical bid.
30. Indexing of the requisite documents must be done and submitted along with the technical bid.
31. Hands on training of the equipment must be imparted to the user group by the firm.
32. Director General of Police Bihar, Patna reserves the right to reject any or all the quotations partially or fully without assigning any reason thereof.
33. The Quantity indicated may increase or decrease at the time of issuing purchase order.


A I G (Q)
Bihar, Police

4 ELECTRONIC STETHOSCOPE

1. It should be light weight and portable.
2. It should detect sound through solid material wood, glass and packing material.
3. Power Supply :- 9V/12V rechargeable Nicad/ Li-Ion Battery.
4. The sensitivity should be very high with option to optimize it by adjustment of gain and frequency control.
5. It should detect cellular phones, pagers, quartz timer, mechanical timer.
6. It should work in contact and contact less mode.
7. Head Phone should be Heavy duty.
8. Carrying case should be light weight rugged for frequent transportation.
Total weight with carrying case not more than 2.5 Kg.
9. Weight of Equipment in operation not more than 1 Kg.
10. Minimum operation on single charge 30 hours.
11. Operating Temperature : -10 deg C to 55 deg C
12. Humidity : 95%
13. Amplification : 5 x 10 at 15 cm distance
14. Frequency Band : 300 Hz to 5.5 Hz

15. Ranges of Detection:
 - a) Electromechanical timing devices : 40 cm
 - b) Electronic timing devices : 15cm
 - c) Radio signal receivers : 15cm

Madam P. Singh
2015/15
AS B.D.S. S.B. Patola
Ashik K. Singh
AS B.D.S., S.B. Patola

LF

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.

LF

No. P/604/2014(389)/ROWC/NSG
भारत सरकार/Government of India
गृह मंत्रालय/Ministry of Home Affairs
पुलिस आधुनिकीकरण प्रभाग /Police Modernization Division
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R. K. Soni

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

Copy to : DDG(Procurement), MHA.

Annex 1

(1E)

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.



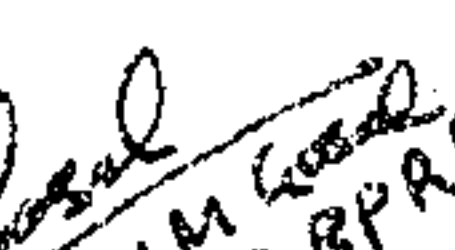
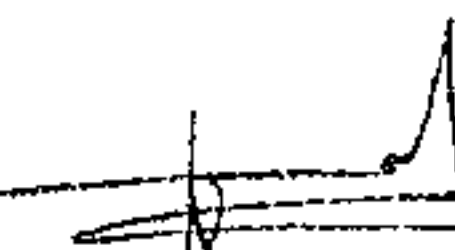
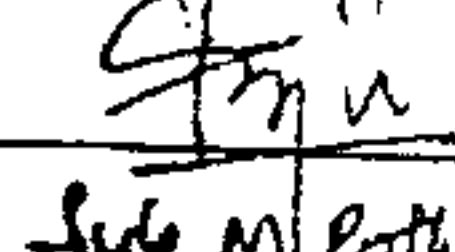
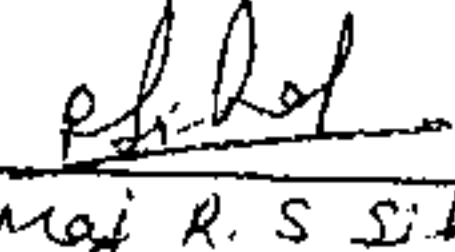
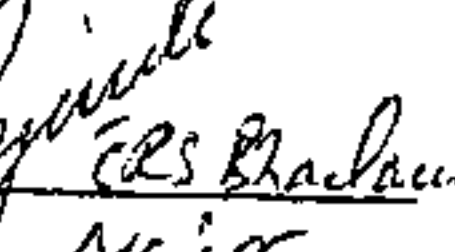
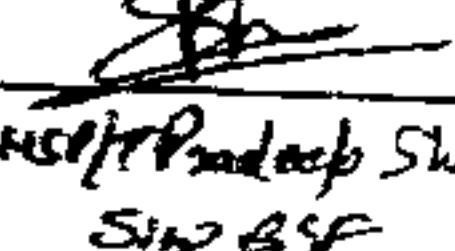
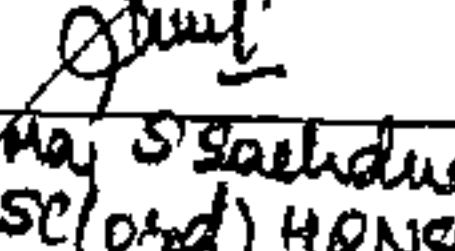
Specifications : The required specifications of the equipment are as under.

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.


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QRs / TECHNICAL SPECIFICATION FOR REMOTE OPERATED WIRE CUTTER

<p>8.</p>	<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>9.</p>	<p>Accessories - The equipment will be provided with the under mentioned accessories:-</p> <p>(a) Standard Accessories :- (i) Remote Control - Qty 01. (ii) Commercially available rechargeable cells for the remote control - 01 Sets. (iii) Battery Charger for charging cells of the Remote Control- Qty 01. (iv) Commercially available Standard 12V Rechargeable Lead Acid Sealed Maintenance Free Battery for Operation of Motor of wire cutter - 01 Nos. (v) Spool of 100 Meter wire - qty 01. (vi) All types of wires with connectors required for functioning of the equipment. (vii) User Handbook/Technical manual.</p> <p>(b) Additional Accessories :- (i) Commercially available rechargeable cells for the remote control - 01 Sets. (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</p>

<p> (A.K. Chaudhary Accuse)</p>	<p> (Satinder Singh) DC I.T.B.P.</p>	<p> Dr. M.M. Goyal Dy. Insp. BPARD</p>	<p> Capt. Milkam Singh TC, FOS NSG</p>
<p> Sub. M. Pothu Raju TC, NSDC, NSG</p>	<p> Maj. R. S. Singh BD UNIT, NSG</p>	<p> (RS) Brahma Major TC (WE), HQNSG</p>	<p>_____</p>
<p> INSPT Pradeep Sharma S/W BSF</p>	<p> Maj. S. Saehdua SC (Ord), HQNSG</p>	<p>_____</p>	<p>_____</p>

APPROVED / NOT APPROVED


 (J.N. Choudhury)
 DG, NSG

TRIAL DIRECTIVES FOR REMOTE OPERATED WIRE CUTTER

Annex ¹² ~~11~~

LC

Sl 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.	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.	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.	<u>Cordless Operation:-</u> (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.	To be physically checked by the Board of Officers (BOO).
4.	<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.	To be physically checked by the Board of Officers (BOO).

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 L. V. R. + [Signature] R.S. [Signature] [Signature] [Signature]

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>	To be physically checked by the BOO.
6.	<p>Operating temperature : The complete equipment should be able to function from -10° C to +50° C</p>	Vendor/firm to provide certificate confirming the functioning of the equipment in the stated temperature range.
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>	To be physically checked by the BOO.
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>	To be physically checked by the BOO.

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 [Signature]
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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. (iii) Battery Charger for charging cells of the Remote Control- Qty 01. (viii) Commercially available Standard 12V Rechargeable Lead Acid Sealed Maintenance Free Battery for Operation of Motor of wire cutter - 01 Nos. (ix) Spool of 100 Meter wire - qty 01. (x) All types of wires with connectors required for functioning of the equipment. (xi) User Handbook/Technical manual. <p>(b) Additional Accessories :-</p> <ul style="list-style-type: none"> (j) 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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Alberny
 (A K Shukla, AC 15B)

Sanu W
 Sub M B Ray
 TC, NBOC, NSG

SP
 Inspr Pradeep Sharma
 S/W BSP

Sanu W
 (Sanu W Singh)
 AC ITBP
 R Shukla

Maj R. S. Singh
 BD OMT, NSG

Sanu W
 Maj S Sachdina
 SC(Ond), HQ NSG

Rosul
 Dr. M M Gosal
 B/S, BPR 4D

Sanu W
 Major
 TC (WE) HQ NSG

Sanu W
 Major N. K. Kanth
 TC, FOS NSG

APPROVED / NOT APPROVED

J N Choudhury
 (J N Choudhury)
 DG, NSG

SPECIFICATION FOR REMOTE OPERATED WIRE CUTTER AND WITH WIRE REMOTE

Sr. No.	Specification	
1.	General Description	(i) It should be able to cut all type of wire from a minimum of 50 meters, distance with remote. (ii) It should be able to cut all type of wire from a minimum of 100 meters, distance with wire. (iii) The cutter should be able to cut the 5mm thick copper wire. (iv) It should be possible to adjust the height of the equipment from three inches to two (2) meters. (v) The wire cutter should have shock proof grip. (vi) It should have adjustable clamp to fix the system at required height. (vii) It should be able to work on Inbuilt SMF rechargeable battery with universal charger (70 to 240 volt, 50 to 60 Hz) with continuous operation for minimum ½ hour. (viii) It should be having Standard connecting wires. (ix) It should have balancing tripod stand for any kind of Hard/soft ground. (x) It should have 360 deg. Horizontal movement, with Locking arrangements. (xi) It should have option to adjust the Y-axis angle of the cutter up to 45 degree. (xii) It should be operational on both AC and DC. (xiii) It should also be Mountable on any ROV.
2.	Warranty and Spares Parts	1. Warranty for 03 years. In addition to it, If any consumable item i.e. Batteries etc. becomes defective, It will also be replaced by the vendor during warranty period without any extra charges whenever it is required. 2. Sufficient spares should be available in stock with the supplier and certificate for availability of spares in Chandigarh for at least 7 years after the 03 years Warranty Period. 3. During Warranty period the Bidder will responsible to recalibrate the equipments as per technical specifications twice each year & a certificate also be provided to UT Police Department in this regard.
1.	Accessories	1. One Test sample for each machine for testing during commissioning and during maintenance. 2. Training tools chart, slides, training brochure, training work model, blow up diagram, video films on demonstrations and use etc. 3. Technical manual giving full description of the item. Practical training at least 2 times in each year continuing during Warranty Period. 4. User's handbook and literature on preservation/ maintenance as applicable.
		5. Procedure for packing, handling, transportation, storage and battery replacement. 6. The following Information is also required:- (a) Attach Annexure – List of the Institution where your product has been installed & satisfactory report from five users. (b) provide Technical Specification of your product brochure.
2.	Live Demonstration	As a part of technical evaluation of bids, the bidders shall arrange presentation and live demonstration of their quoted equipments/items to show that they fully conform to this tender. The bidders will be intimated the exact date and time slot for them to carry out such demonstration. The bidders are advised to make all necessary arrangements for the live demonstration of their equipments well in advance as they will be required to adhere to the time schedule given to them soon after bid opening/technical bid evaluation.

Madan Singh
 20/5/15
 ASI B.D.S. S.B. Patna

Ashok Kumar Singh
 20/5/15
 ASI B.D.S. S.B. Patna

4C

No. P/604/2014(389)/Thermal Cutter/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 Thermal Cutter.

The QRs and Trial Directives in respect of Thermal 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 the 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 Thermal 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.

4-B

Annex-D

QR / TECHNICAL SPECIFICATION FOR THERMAL CUTTER

Introduction :-Thermal Cutter is a BD Eqpt used by bomb technicians to gain access to the inside of a soft skin IED by making triangular holes, without disturbing the IED.

Srl No	Technical Specifications
1.	The equipment should achieve its peak temperature of minimum 250°C in less than 6 minutes.
2.	The equipment should have a heating element head in the shape of equilateral triangle.
3.	Size of the triangle head : 5" ± ½ "
4.	The cutting edges of the triangular head should be thin, sharp and rigid.
5.	It should be able to cut the plastic materials of thickness min 5mm.
6.	The triangular head should be attached with the stand with the help of a rod of maximum length 50 cms, adjustable as per requirement.
7.	The rod should be attached with the stand with the help of a hinge which can be rotated in 360 degree. The base of the stand can be placed on uneven ground and should hold the complete equipment stable.
8.	Total Weight of the equipment (excluding accessories) should not exceed 6 Kgs.
9.	It should be able to operate on 220 Volts AC. The length of the cable for main supply should be minimum 20 meters with an additional 300 meters cable, with an attachment arrangement.
10.	All metal parts should be rust proof and rugged for repeated use, all electrical components should comply to ISI/BIS standard.
11.	The carrying case should be light weight, water resistant, scratch proof, rugged and wheeled for storage and transportation.

[Signature]
A K Srinivas Acharya

[Signature]
Maj R S Singh
BD UNIT, NSG

[Signature]
Maj TCE (WE) HANS
Maj TCE (WE) HANS

[Signature]
Capt Nishant
DC, CRPF

[Signature]
Subjy Pothu Raju
TC, NSG, NSG

[Signature]
Maj S. Sachdeva
SC (Ord), HQ, NSG

[Signature]
Insp/T Pradeep Sharma
SIW BSF

✓
APPROVED / NOT APPROVED

[Signature]
(J N Choudhury)
DG, NSG

TRIAL DIRECTIVES OF THERMAL CUTTER

Sl No	Technical Specifications	Trial Methodology
	The equipment should achieve its peak temperature of minimum 250°C in less than 6 minutes.	To be physically checked by BOO.
	The equipment should have a heating element head in the shape of equilateral triangle.	To be physically checked by BOO.
	Size of the triangle head : 5" ± ½".	To be physically checked by BOO.
	The cutting edges of the triangular head should be thin, sharp and rigid.	To be physically checked by BOO.
	It should be able to cut the plastic materials of thickness min 5mm.	To be physically checked by BOO.
	The triangular head should be attached with the stand with the help of a rod of maximum length 50 cms, adjustable as per requirement.	To be physically checked by BOO.
	The rod should be attached with the stand with the help of a hinge which can be rotated in 360 degree. The base of the stand can be placed on uneven ground and should hold the complete equipment stable.	To be physically checked by BOO.
	Total Weight of the equipment (excluding accessories) should not exceed 6 Kgs.	To be physically checked by BOO.
	It should be able to operate on 220 Volts AC. The length of the cable for main supply should be minimum 20 meters with an additional 300 meters cable, with an attachment arrangement.	To be physically checked by BOO.
	All metal parts should be rust proof and rugged for repeated use, all electrical components should comply to ISI/BIS standard.	A certificate to the effect to be provided by the OEM.
	The carrying case should be light weight, water resistant, scratch proof, rugged and wheeled for storage and transportation.	To be physically checked by BOO.

[Signature]
AK Sharma, PC CWF
[Signature]
M P Othw Raju
DC, NSDC, NSG
[Signature]
M P Poudyal Sharma
SIW BSF

[Signature]
(K. K. Jindal, PC CWF)
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M P S Jindal
ADW, NSDC
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M P S Sachdeva
SC (Ord), NSG
APPROVED / NOT APPROVED

[Signature]
M P S Sachdeva
DC (NSG) NSG

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(Capt. J. K. Kanth, PC CWF)
[Signature]
M P S Sachdeva
DC, CRPF

[Signature]
(J N Choudhury)
DG, NSG

THERMAL CUTTER

1. The thermal cutter shall be employed in situations where entry hole is to be made on the IED to gain access to the contents. The typical use of this equipment would be against soft skinned IED containers like plastic, Rexene, cloth, etc. The aim is to melt the outer surface by employing heat on the skin of these containers thereby removing a triangular section creating an opening.
2. The equipment should have quick heating and should achieve its peak temperature in less than 10 minutes.
3. The edges of the tools should be thin and sharp.
4. It should be able to cut the plastic materials of thickness of minimum 5mm. for this it should be able to attain at least a minimum of 500Deg. C.
5. The equipment should have a heating element head in the shape of equilateral triangle of 4" size.
6. It should be operable with both AC and DC.
7. It should be provided with a light weight stand which can be positioned in 360 Deg. Sphere. The stand should be modular in design and should have a maximum height of 6ft.
8. Firm should be able to provide the following as applicable, along with the equipment:-
 - a) Technical manual giving full description of the items.
 - b) User's Hand Book
 - c) Literature on preservation technique, if applicable.
 - d) Specification for packing, handling/transpiration/storage
 - e) Details regarding proof/periodical inspection by the users.

Madam P. Singh
20/5/15
B.B. S.S.B. Pr. hawladu.

QRS/SPECIFICATION OF NON MAGNETIC TOOL KIT

1. The equipment should have minimum of 35 tools as given below :-

- (a) Screwdriver, flat, 2mm blade width, 150mm O/A.
- (b) Screwdriver, flat, 4mm blade width, 170mm O/A.
- (c) Screwdriver, flat, 6mm blade width, 240mm O/A.
- (d) Screwdriver, flat, 8mm blade width, 295mm O/A.
- (e) Screwdriver, flat, 9mm blade width 380 mm O/A.
- (f) Screwdriver, flat, offset, 6mm blade width, 75mm O/A.
- (g) Screwdriver, flat, offset, 7mm blade width, 120mm O/A.
- (h) Screwdriver, flat, offset, 10mm blade width, 195mm O/A.
- (i) Screwdriver, crosspoint, No. 1, 150mm O/A.
- (k) Screwdriver, crosspoint, No. 2, 225MM O/A.
- (l) Screwdriver, crosspoint, No. 3, 260mm O/A.
- (m) Screwdriver, crosspoint, No. 4, 380mm O/A.
- (n) Scissors, No. 150mm O/A.
- (o) Spanner, adjustable, 19mm max, 160mm O/A.
- (p) Spanner, adjustable, 28mm max, 255mm O/A.
- (q) Hammer, ball pin, 680g, 355mm O/A.
- (r) Hammer, club, 910g, 225mm O/A.
- (s) Pliers, cutters/grips combination, 205mm O/A.
- (t) Pliers, flat jaw, flat nose, 135mm O/A.
- (u) Pliers, cutters/grip, long point nose, 165mm O/A.
- (v) Pliers, round jaw, Point nose, 130mm O/A.
- (w) Probe, straight and right angle, 150mm O/A.
- (x) Cutters, side, 150mm O/A.
- (y) Cutters, side, 120mm O/A.
- (z) Bar, lever, cranked form & wedge ends, 260mm O/A.
- (aa) Chisel, flat, 15mm cutting edge, 165mm O/A.
- (ab) Chisel, flat, 22mm cutting edge, 230mm O/A.
- (ac) Tweezers, 200mm O/A.
- (ad) Knife, 80mm blade, 210mm O/A.
- (ac) Hacksaw, blade length 300mm.
- (ad) Knife, 80mm blade, 210mm O/A.
- (ae) Hacksaw, blade length 300mm.
- (af) Blade, 300mm to fit hacksaw.
- (ag) Scraper, 25mm blade width, stiff, 250mm O/A.
- (ah) Wire brush, 305mm O/A.
- (aj) Wrench, pipe, adjustable, 38mm max, 355 mm O/A.
- (ak) Case carrying
- (al) Bar, lever, spike & cranked chisel ends, 445mm O/A.

- 2. The tools should be manufactured in beryllium copper alloy.
- 3. The tools must conform to stanag 2897 Annex C.
- 4. All tools should be suitable for contact use and should be individually certified.

[Handwritten scribbles]

Madan A. Singh
20/5/15

ASI B.D.S. S.B. Patra

Ashok Singh
20/5/15

ASI B.D.S. S.B. Patra

