

**Police Headquarters, Bihar, Patna**

**Notice Inviting Tender No-01/2015-16**

1. Name of the Department : Office of Director General of Police, Bihar, Patna.
2. Last date & time for the acceptance of the tender: 24.06.2015, Till 16.00 HRS.
3. Date & time fixed for the opening of the tender: 24.06.2015, 16.00 HRS.
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	Bomb Suit	10
2	Non-Linear Junction Detector (NLJD)	10
3	Hand Held Metal Detector (HHMD)	20
4	Deep Search Metal Detector (DSMD)	20
5	Door Buster without Remote	30
6	Explosive Detector	10
7	Under Vehicle Search Mirror	15
8	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](http://www.prdbihar.org) or [www.biharpolice.bih.nic.in](http://www.biharpolice.bih.nic.in)

*Singh*  
21/05/15

**AIG (Q)**  
Bihar, Patna.

## Terms & Conditions Of Tender No. 01/2015-16

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. 01/2015-16 (Technical Bid) and Tender No.01/15-16 (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. 01/2015-16. 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 2014-15 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 2014-15 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 items, test report of TBRL is compulsory.
17. All items shall be received at Central Clothing Store, Patna, therefore price should be quoted FOR Central Clothing Store, Phulwari Sharif, Patna.
18. 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.
19. Technical Bids will be opened on 24/ 06/2015 at 16.00 PM in the office chamber of the undersigned. Representatives of the firms competing in the tender may remain present at the time of opening of the technical bid.
20. 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.
21. Any paper/document will not be accepted after opening the tender.
22. 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.
23. The firm will be required to provide satisfactory service after the delivery of the product.
24. The firm will be required to supply all the items within the stipulated time frame as mentioned in the purchase order.
25. Payment for the delivered items will be made only after the acceptance report of the Inspection Committee of the Police Headquarters, Bihar.
26. 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.
27. It is compulsory to submit the duly filled chart attached herewith, along with the technical bid.
28. Indexing of the requisite documents must be done and submitted along with the technical bid.
29. Hands on training of the equipment must be imparted to the user group by the firm.
30. Director General of Police Bihar, Patna reserves the right to reject any or all the quotations partially or fully without assigning any reason thereof.
31. The Quantity indicated may increase or decrease at the time of issuing purchase order.

**A I G of Police (Q)**  
**Bihar, Police.**

No. IV-17018/03/2007-Prov-I 156  
भारत सरकार/Government of India  
गृह मंत्रालय/Ministry of Home Affairs  
पुलिस आधुनिकीकरण प्रभाग /Police Modernization Division  
संभरण-I डेस्क /Prov.I Desk

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26, Man Singh Road, Jaisalmer House,  
New Delhi, the 28<sup>th</sup> January, 2015.

To,

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

**Subject : Revised QRs and Trial Directives for Under Vehicle Search Trolley Mirror.**

The QRs and Trial Directives in respect of Under Vehicle Search Trolley Mirror 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 revised laid down Technical Specifications/QRs.
3. Concerned CAPF will be accountable for correctness of the QRs/Trial Directives.
4. MHA letter of even number dated 24-01-2008 is rescinded.

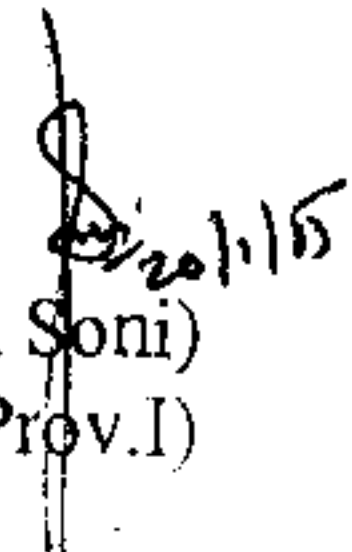
Yours faithfully,

  
20/1/15  
(M. K. Chahar)

Under Secretary (Prov-I)

Encl.: As above.

Copy to SO(IT), MHA : with the request to host the revised QRs and Trial Directives of Under Vehicle Search Trolley Mirror on the MHA website (under the page of Organizational Set up-Police Modernization Division-Qualitative Requirements-Specifications-Equipment), and remove earlier QRs from website at page [mha1.nic.in/QRs/Equipment.html](http://mha1.nic.in/QRs/Equipment.html), soft copy being sent through email.

  
20/1/15  
(R K Soni)

Section Officer (Prov.I)

Copy to : DDG(Procurement), MHA.



REVISED QRs OF UNDER VEHICLE SEARCH TROLLEY MIRROR

Ser No	QR/Technical Specifications	Description
1.	Mirror size	2 feet x 1 feet minimum (a) Convex (b) High quality rectangular acrylic mirror or polycarbonate Mirror (scratch resistant and unbreakable) (c) Mirror to have a protection cover when not in use
2	Arm	(a) Minimum 3 feet in length (extendable upto a maximum of 4 feet). (b) Made up of rust and corrosion proof metal.
3.	Weight	Maximum 4 kg
4.	Lighting arrangement	LEDs should be embedded all around the mirror so that the illumination of the LEDs could illuminate the area effectively upto 2 feet distance so that all types of cavities underneath the vehicle may be visible. 12V rechargeable NiCd battery to be provided.
5.	Special features	The equipment should be able to move underneath all types of vehicles (high floor and low floor) and it should provide clear view of the base of the vehicle from different sides. Maximum height of the equipment should be 5 inches. Wheel should be made of ruggedized hard plastic.
6.	<u>Miscellaneous.</u>	

The firm should be able to provide the following, as applicable, along with the equipments:-

- (a) Bty charger
- (b) Additional battery to be provided (operational for minimum 12 hrs)
- (c) Cleaning kit.
- (d) User's Hand Book (Bilingual).

<p><u>DC</u> (Nay Niranjana, G.A., CGP UNIT)</p> <p><u>Prakash</u> (N. S. B. Singh)</p> <p><u>Dr. Anil Singh</u> (N. S. B. Singh)</p> <p><u>Dr. Anil Singh</u> (N. S. B. Singh)</p> <p><u>Dr. Anil Singh</u> (N. S. B. Singh)</p> <p><u>Dr. Anil Singh</u> (N. S. B. Singh)</p>	<p><u>Dr. Anil Singh</u> (N. S. B. Singh)</p> <p><u>Dr. Anil Singh</u> (N. S. B. Singh)</p> <p><u>Dr. Anil Singh</u> (N. S. B. Singh)</p> <p><u>Dr. Anil Singh</u> (N. S. B. Singh)</p> <p><u>Dr. Anil Singh</u> (N. S. B. Singh)</p> <p><u>Dr. Anil Singh</u> (N. S. B. Singh)</p>	<p><u>Dr. Anil Singh</u> (N. S. B. Singh)</p> <p><u>Dr. Anil Singh</u> (N. S. B. Singh)</p> <p><u>Dr. Anil Singh</u> (N. S. B. Singh)</p> <p><u>Dr. Anil Singh</u> (N. S. B. Singh)</p> <p><u>Dr. Anil Singh</u> (N. S. B. Singh)</p> <p><u>Dr. Anil Singh</u> (N. S. B. Singh)</p>	<p><u>Dr. Anil Singh</u> (N. S. B. Singh)</p> <p><u>Dr. Anil Singh</u> (N. S. B. Singh)</p> <p><u>Dr. Anil Singh</u> (N. S. B. Singh)</p> <p><u>Dr. Anil Singh</u> (N. S. B. Singh)</p> <p><u>Dr. Anil Singh</u> (N. S. B. Singh)</p> <p><u>Dr. Anil Singh</u> (N. S. B. Singh)</p>
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APPROVED / NOT APPROVED

J. N. Choudhury  
DG, NSG

TRIAL DIRECTIVES OF UNDER VEHICLE SEARCH TROLLEY MIRROR

<u>Sr No</u>	<u>QR/Technical Specifications of</u>	<u>Description</u>	<u>Trials Methodology</u>
1.	Mirror size	2 feet x 1 feet minimum.	To be physically checked by the BOO
		(a) Convex	To be physically checked by the BOO
		(b) High quality rectangular acrylic mirror or polycarbonate Mirror (scratch resistant and unbreakable)	Certificate from an accredited National / International Lab will be submitted by the vendor. The BOO to physically check the same.
		(c) Mirror to have a protection cover when not in use	To be physically checked by the BOO.
2	Arm	(a) Minimum 3 feet in length extendable upto a maximum of 4 feet).	To be physically checked by the BOO. Certificate from an accredited National / International Lab will be submitted by the vendor. The BOO to physically check the same
		(b) Made up of rust and corrosion proof metal.	
3	Weight	Maximum 4 kg	To be physically checked by the BOO.
4	Lighting arrangement	LEDs should be embedded all around the mirror so that the illumination of the LEDs could illuminate the area effectively upto 2 feet distance so that all types of cavities underneath the vehicle may be visible. 12V rechargeable NiCd battery to be provided	To be physically checked by the BOO. Certificate from an accredited National / International Lab will be submitted by the vendor. The BOO to physically check the same

<p><u>NO</u> Muk (Asst. Dir. Secy, Cr. I.D. 10042)</p> <p><u>Signature</u> Asst. Dir. Secy, Cr. I.D. 10042</p> <p><u>Signature</u> Asst. Dir. Secy, Cr. I.D. 10042</p> <p><u>Signature</u> Asst. Dir. Secy, Cr. I.D. 10042</p> <p><u>Signature</u> Asst. Dir. Secy, Cr. I.D. 10042</p>	<p><u>Signature</u> (Asst. Dir. Secy, Cr. I.D. 10042)</p> <p><u>Signature</u> (Asst. Dir. Secy, Cr. I.D. 10042)</p> <p><u>Signature</u> (Asst. Dir. Secy, Cr. I.D. 10042)</p> <p><u>Signature</u> (Asst. Dir. Secy, Cr. I.D. 10042)</p>	<p><u>Signature</u> (Asst. Dir. Secy, Cr. I.D. 10042)</p> <p><u>Signature</u> (Asst. Dir. Secy, Cr. I.D. 10042)</p> <p><u>Signature</u> (Asst. Dir. Secy, Cr. I.D. 10042)</p> <p><u>Signature</u> (Asst. Dir. Secy, Cr. I.D. 10042)</p>	<p><u>Signature</u> (Asst. Dir. Secy, Cr. I.D. 10042)</p> <p><u>Signature</u> (Asst. Dir. Secy, Cr. I.D. 10042)</p> <p><u>Signature</u> (Asst. Dir. Secy, Cr. I.D. 10042)</p> <p><u>Signature</u> (Asst. Dir. Secy, Cr. I.D. 10042)</p>
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TRIAL DIRECTIVES OF UNDER VEHICLE SEARCH TROLLEY MIRROR (Contd...)

<u>Ser No</u>	<u>QR/Technical Specifications of</u>	<u>Description</u>	<u>Trials Methodology</u>
5	Special features	The equipment should be able to move underneath all types of vehicles (high floor and low floor) and it should provide clear view of the base of the vehicle from different sides. Maximum height of the equipment should be 5 inches. Wheel should be made of ruggedized hard plastic.	To be physically checked by the BOO. Certificate from an accredited National / International Lab will be submitted by the vendor. The BOO to physically check the same.
6	Miscellaneous.	The firm should be able to provide the following, as applicable, along with the equipment :- (a) Bty charger (b) Additional battery to be provided (operational for minimum 12 hrs) (c) Cleaning kit. (d) User's Hand Book (Bilingual).	To be physically checked by the BOO.

<u>Dik</u> (Maj Nitin Kumar, SC, 74)	<u>[Signature]</u> (Maj Kapron, SC, 74)	<u>[Signature]</u> (Jatinder Singh) AC ITBP	<u>[Signature]</u> (Capt Mitkanti) TC FOS NSG
<u>[Signature]</u> (Maj Nitin Kumar, SC, 74)	<u>[Signature]</u> (Maj Kapron, SC, 74)	<u>A2</u>	<u>[Signature]</u> (Maj Nitin Kumar, SC, 74)
<u>[Signature]</u> (Maj Nitin Kumar, SC, 74)	<u>[Signature]</u> (Maj Kapron, SC, 74)	<u>[Signature]</u> (Maj Singh) Lt Col	<u>[Signature]</u> (Maj Nitin Kumar, SC, 74)
<u>[Signature]</u> (Maj Nitin Kumar, SC, 74)	<u>[Signature]</u> (Maj Kapron, SC, 74)	<u>[Signature]</u> (Maj Singh) Lt Col	<u>[Signature]</u> (Maj Nitin Kumar, SC, 74)
<u>[Signature]</u> (Maj Nitin Kumar, SC, 74)	<u>[Signature]</u> (Maj Kapron, SC, 74)	<u>[Signature]</u> (Maj Singh) Lt Col	<u>[Signature]</u> (Maj Nitin Kumar, SC, 74)

✓  
APPROVED / NOT APPROVED  
  
(J N Ghoshdury)  
DG, NSG

No.IV-17017/28/05-Prov.I  
Ministry of Home Affairs  
Prov.I

-0-

101<sup>st</sup> Aug.  
New Delhi the 1<sup>st</sup>, 2005

To

The DGs: Assam Rifles/BSF/CISF/CRPF/ITBP/NSG/SSB/BPR&D.

Subject: Finalization of QRs/Specifications for Weaponary/security Equipments

The Sub-Group constituted by MHA vide Memorandum No. IV.17017/18/2001-Prov.I dated 5-7-2002 for laying down QRs/specifications of various items/equipments has since submitted its recommendations in respect of following weaponary/security equipments:

- ✓ (i) Bomb Basket ✓
- ✓ (ii) Bomb Truck ✓
- ✓ (iii) Non Linear Junction Detector ✓
- ✓ (iv) Water Canon
- ✓ (v) Drilling Machine ✓
- ✓ (vi) Extension Search Mirror
- ✓ (vii) Door Frame Metal Detector ✓

2. These recommendations have been accepted by MHA. The QRs finalized by the Sub-Group and accepted by MHA in respect of the above equipments are enclosed herewith

3. Henceforth, all the CPMFs should procure the above items required by them to meet their operational needs strictly as per the laid down QRs/specifications.

Yours faithfully,

*Alok*

(Alok Mukhopadhyay )  
Under Secretary (Prov.I)  
Tele. No.23381278

Copy to : DD(Procurement), MHA

Copy for information to:

- 1. ✓ PS to JS(PM), MHA
- 2. ✓ Dir(Prov), MHA



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**QR FOR EXTENSION SEARCH MIRROR**

The following are the requirements for Extension Search Mirror

Sl. No.	Parameter	Specification
1.	Camera type	Should be a Colour camera with IR Sensors.  The camera Sensors should adapt to low light Conditions. Should be able to change from colour To black and white in Low-Light conditions.
2.	Camera Movement	Manual Movement of 360° with tilt.
3.	Monitor	4" Hi-resolution LCD Screen.  Should rest around the user's neck for ease of Viewing.
4.	Telescopic Pole	Should extend from 90cms to 180cms. (max)  Should be non-rotational, lightweight, aluminium pole with rubber grip.
5.	Trolley	Under-vehicle trolley.
6.	Castors	Should have minimum three swivel castor wheels for smooth operation.
7.	Battery requirements	
	a) Type	Sealed Lead Acid Battery
	b) Voltage	12 VDC
	c) Charger	12-volt charger and float meter to protect over charging.
8.	Operational Features Required	a) The unit should have modular design to allow the operator to quickly change from under-vehicle search mode to Pole cam mode.  b) No tools should be required to change from one mode to another.  c) Manual swivel and tilt function should make it easy for the operator to point the camera in any direction off the end of the pole.
9.	Accessories required	Camera cover to reduce glare from IR LED and protective case.

*[Handwritten signatures and notes]*

IC 47752F  
Lt Col. PK Sharma  
C O PUNE

IC 42786Y  
Lt Col. Sumendra Yadav  
Lt. Logistics Group  
NSG

IC 42786Y  
Lt Col. Sumendra Yadav  
Lt. Logistics Group  
NSG

Recommended

110

No. IV-17018/3/2007-Prov-I  
Government of India  
Ministry of Home Affairs

New Delhi, 5.3.2008

To

The DGs: Assam Rifles/BSF/CISF/CRPF/ITBP/NSG/SSB/BPR&D

Subject:- Technical Specifications/QRs of the Security related items.

The Technical Specifications/QRs of the following Security related items has been accepted by the Competent Authority in MHA:-

- (a) Explosive containment Vessel on Trailer
- ~~(b) Bomb Blanket~~
- ~~(c) Explosive Detector~~
- (d) Location of Miss and Hit Target System

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

5/3/08

(R.S.Sharma)  
Director (Prov)

Copy to:-

DD(Procurement),MHA

Copy for information to:-

- 1. PS to JS(PM),MHA
- 2. Dir(Prov), MHA

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**QRs/specifications of Explosive Detector**

1	<b>Sensitivity:</b> The detector should be able to detect all types of explosives in vapour mode at room temperature.
2	<b>Selectivity:</b> System should not respond to odour of non explosive substances.
3	<b>Specificity:</b> False alarm rate should be less than 1%.
4	<b>Detector Capability:</b> Should be able to detect all types of explosives including explosives with low vapour pressure explosive in mixture form
5	<b>Carrier Gas:</b> Detector system should not require the use of carrier gas.
6	<b>Auto Calibration:</b> Adjustment/Resetting for further operation should be automatic.
7	<b>Warm Up Time:</b> Should be less than 10 minutes.
8	<b>Analysis Time:</b> Less than 6 seconds.
9	<b>EMI:</b> Operation should not be affected by electro magnetic interference of other electronic/electrical devices.
10	<b>Versatility:</b> Equipment should allow search of all places example Field Area automobiles, aircraft etc.
11	<b>Ease of Operation:</b> Controls should be simple and easy to operate by bomb technician. Should not involve technician making or interpretation at the operator level, Grand Learn Capability.
12	Operating Temperature. (a) Minimum - (-) 10° C (b) Maximum - (+) 55° C
13	<b>Endurance:</b> On 230V AC supply equipment should work continuously on battery, continuous operation should give more than 3 hours of operation
14	It should be one man portable and complete equipment should fit into one hand carrying case. Maximum operating weight should not exceed 4 Kgs.
15	<b>Indication:</b> Both visual and audio alarm signal
16	<b>Power Supply:</b> Should operate both on battery as well as external power source.
17	<b>Safety:</b> The equipment should be safe to handle and be free from radiation hazards to the operator.
18	Should be able to function both on vapour and particle mode
19	<b>Spares and Service.:</b> User hand book, tech service manual, spares kit comprising of battery charger, test samples and spare battery should be provided with the equipment

5/3/08  
(R.S.SHARMA)  
Director(Prov)

26, Man Singh Road, Jaisalmer House,  
New Delhi, 11.3.2010

To

The DGs: Assam Rifles/BSF/CISF/CRPF/ITBP/NSG/SSB/BPR&D

Subject: - QRs/Technical Specifications for the security related equipments -regarding

The QRs/Technical Specifications for the following security related equipments have been accepted and approved by the Competent Authority in MHA;-

- (i) Water Combi Filter for outdoor use by Commandos
- (ii) Body Worn Video Cameras System/Wireless Body Worn Video System
- (iii) Flexible Fibre Scope/Fibre Optic Scope
- (iv) Hydraulic/Pneumatic Door Breaker
- (v) Laser Range Finder
- (vi) Digital Power Lectern
- (vii) Non Skid Tactical shoe/Combat Shoe

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

(R.S.Sharma)  
Director (Prov)

Copy to:-

DD(Procurement),MHA

Copy for information to:-

PS to JS(PM),MHA

जारी किया/ISSUED  
दिनांक/Date  
प्रो-1/Prov-1  
गृह मंत्रालय/MHA

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11/3/10



QRs/SPECIFICATIONS FOR HYDRAULIC & /PNEUMATIC DOOR BREAKERDoor Rammer

1. It should have the following :-
  - (a) Capable of forcing open steel and wooden door opening both inward and out ward.
  - (b) Hydraulic & /Pneumatic and manual Operation.
  - (c) Silent operations with power assisted/manually operated pump.
  - (d) Single/two man operation.
  - (e) Complete system capable of quick operation/release.
  - (f) Hydraulic pump weight maximum 24 kgs.
  - (g) Door Buster power minimum 9000 Kgs(certificate to be provided by firm).
  - (h) Width closed minimum 700mm and width open minimum 1200 mm.
  - (j) Rammer weight maximum 24 Kgs.

Cutter

2. It should have the following :-
  - (a) Cutting capacity - 20mm -- untreated steel  
16mm -- treated steel
  - (b) Weight - Maximum 10 kgs
  - (c) Power - Minimum 20000 Kgs (certificate to be provided by firm)
  - (d) Compatible with Hydraulic/Pneumatic and manual pumps of rammer.

for  
note



## QRs/Specification of the Non-Linear Junction Detector (NLJD)

<b>Transmitter</b>		
1.	Frequency	840 MHz to 915 MHz.
2.	Power Out Put	Should not be more than equivalent to 4 watt. continuous.
3.	Modulation	AM/FM/ pulse or continuous.
<b>Receiver</b>		
4.	Should have Rx frequency for 2 <sup>nd</sup> and 3 <sup>rd</sup> harmonics	1680 to 1830 MHz and 2520 to 2745 MHz respectively.
5.	Sensitivity	Should be more than – 115 dbm.
<b>Antenna</b>		
Should have high gain antenna.		
6.	Cables	All cables and connectors should be well secured.
7.	Display	Should have a visual display.
8.	Should have control functions	(a) Volume (b) Power selection
<b>Output</b>		
9.	Audio	With and without head phone.
10.	Display	Visual display distinguishing both 2 <sup>nd</sup> and 3 <sup>rd</sup> harmonics.
11.	Test target	A single power diode.
12.	Detection range in open space (max Tx and max sensitivity) In dug underground	Minimum 0.4 m or better. Minimum 0.15 m or better.
13.	Test false alarm rate	Should be less than 5%
<b>Power Requirements</b>		
14.	Battery	Rechargeable battery, should provide minimum 3hrs operation time on single full charge. Should provide one spare battery. Battery should have protection against reverse polarity.
15.	Battery charger specification	180 to 240 V
<b>Weight Required (Approx)</b>		
16.	Operational weight	Should not be more than 6.5 Kg (weight in hand should not exceed 3.5 kg)
<b>Operation conditions</b>		
17.	Operational temperature range	-5°C to + 50°C or better
18.	Humidity	90% RH
19.	Activation	The system should not activate any active radio controlled device in close proximity to search head.
20.	Miscellaneous	The firm should be able to provide the following, as applicable, along with the equipment:- (a) Cleaning Kit. (b) Special Maintenance Tools. (c) Training aggregate – charts, slides, training brochure, training work model, blow up diagram, video films etc. (d) Physical Training in India. (e) Tech Manual giving full description of the item. (f) User's Hand Book and Literature on preservation/maint, as applicable. (g) Procedure for packing, handling/ transportation/storage.

3.	Power Source	Alkaline battery 3 volt (1.5x2), volt should run minimum 550 hrs on 10% detection rate.
4.	Battery Protection	To be provided against damage due to reverse polarity.
5.	Indication	(a) Single LED based audio and visual multiple indication for :- (i) SWITCH ON (ii) METAL DETECTION (iii) LOW BATTERY INDICATION
6.	Operation	Single push button operation
7.	Construction	Should be rugged and impact resistant ABS moulded casing.
8.	Scan rate	Minimum 3" to 24"/ Sec.
9.	Detection	Should be able to detect ferrous and Non-Ferrous metals. - Pistol .22 at min 6" - Cartridge .22 at min 2" - Razor Blade at min 1"
10.	Tuning	Automatic to ensure equal results on wide range of metals and alloys.
11.	<b><u>Miscellaneous</u></b>	The firm should be able to provide the following, as applicable, along with the equipment :- (a) Cleaning kit. (b) Technical Manual giving full description of the item. (c) User's Hand Book.



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Ministry of Home Affairs  
Prov-I Desk

Subject:-Amendment to the existing QRs of Deep Search Mine/Metal detector (DSMD), notified by this Ministry's letter No. IV-17017/13/2006-Prov-I dated 27.9.2006-regarding

Reference NSG letter No. P/606/2009(389)/Vol-XX/NSG-100-P dated 5.8.2009, on the above subject.

2. The Sub-Group of Technical Experts of NSG, in the meeting held on 23.7.2009, has vetted the amendment to the existing QRs of Deep Search Mine/Metal detector (DSMD) as under:-

S.No. of Existing Specifications	particulars	Existing Specifications	Amended specifications
2(b)(iv)	Weight	Bag weight including accessories of detector: 4.5 Kgs	Bag weight including accessories of detector: 4.5 Kgs(Maximum)

3. NSG is requested to clarify as to why the said amendment in the existing QRs was carried out? Was any reference made by this Ministry or NSG has done it on its own?

*(Signature)*  
21/08/09  
(R.S.Sharma)  
Director (Prov)

✓ NSG(Shri Vivek Vaid, Gp. Commander(Prov))  
MHA ID Note No. IV-17017/13/2006-Prov-I dated 21.8.2009

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*(Signature)*  
25/8/09  
(1600)

*(Signature)*

update

HC Sharma/Tripura

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No. IV-17017/2006/Secy  
Government of India  
Ministry of Home Affairs

Jaisalmer House, Main Singh Road  
New Delhi-110009

10000  
05/10

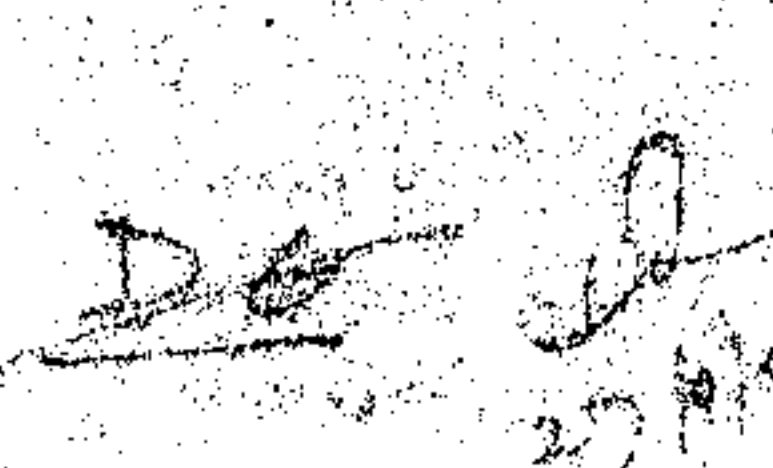
To

The DCA Assam Rifles/BSF/CISF/CRPF/ITBP/NSG/SSE/PR&D

Subject:- Finalization of QRs/specifications for Weaponary/security Equipments

In supersession of this Ministry's letter of even number dated 1.9.2006 and 11.0.2006 forwarding copies of QRs of Deep Search Mine/Metal Detector, a comprehensive revised QR of DSMD is sent herewith. The QR of IWESS will remain unchanged.

2. Henceforth, all the CPMFs should procure the above items required by them to meet their operational needs strictly as per the said QRs/Specifications.

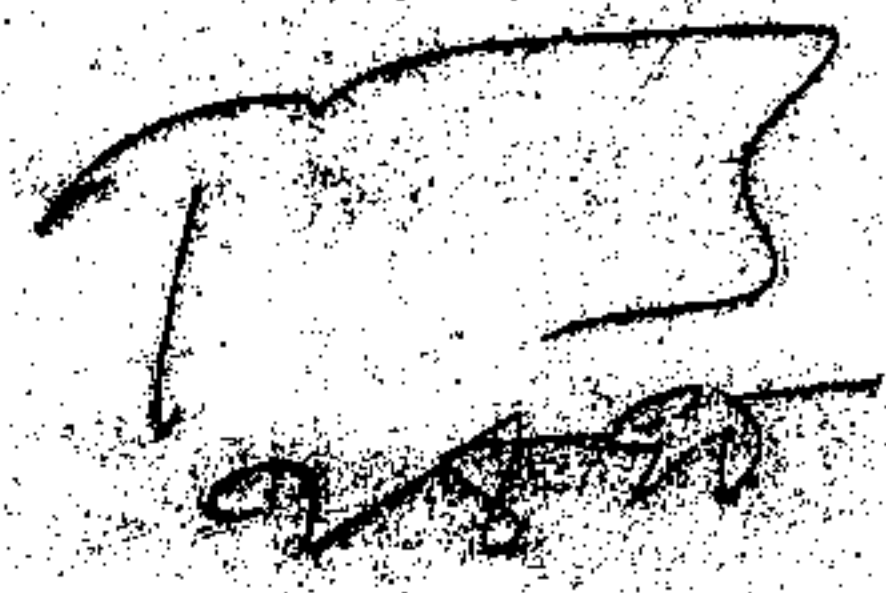
  
(Alok Mukhopadhyay)  
Under Secretary(Prov-I)

Copy to:-

DD(Procurement),MHA

Copy for information to:-

- 1. PS to JS(PM),MHA
- 2. Dir(Prov), MHA

~~IG (NSG)~~ 



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QUALITATIVE REQUIREMENTS: DEEP SEARCH MINE/METAL DETECTOR (DSMD)

1. Physical Characteristic. The detector and its accessories should be lightweight and made of non corrosive (exceptionally corrosion protected) material, aluminium, carbon fiber, glass fiber etc. Material should have proven reliability and durability.

2. Weight and Dimensions

(a) Length of Telescopic rod. Search head should be connected with a telescopic rod, which should allow prolonged usage by the operator in kneeling, standing and lying position without causing undue fatigue for both minimum and maximum possible extension. The length of telescopic rod should be  
i) Collapsed 700mm (± 10%)  
ii) Extended 1600mm (± 10%)

(b) Weight

(i) Telescopic pole and search head (maximum)	2 kgs
(ii) Electronic control unit (maximum)	2 kgs
(iii) The maximum operating weight of the equipment including telescopic pole, search head and electronic control unit (maximum)	4 kgs
(iv) Bag weight including accessories of detector.	4.5 kgs
(v) Total weight of the equipment including carrying case (maximum)	11 kgs

(c) Search Head. The search head may be in any shape, i.e., circular, oval, rectangular etc. However, the total area of search head should be between 210 Sq cm to 710 Sq cm.

3. The electronic circuit should be hermetically sealed and separate from batteries so that in case of battery leakage the electronic circuit is not damaged. The manufacturer shall provide a compliance certificate for the same.

4. Detector design should allow its use both with and without earphone. The equipment must have volume control facility. Detector must give detection sound when operated without earphone. If earphone is used the detection sound should not be heard in open but only in earphone.

5. Must have a power control and sensitivity control to detect all type of ferrous/non ferrous metals.

6. Must have a visual display to indicate detection and proximity of target metal. The LEDs should be bright enough to be visible in day light (Preferably on the hand grip or on search head).

7. Must have self-compensating capability to detect the target.





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(iii) In Clear Water

- (aa) 0.15 gm metal - 11 cm
- (ab) 50mm nail vertical - 28 cm
- (ac) 50 mm nail horizontal - 19 cm

(iv) In Salty Water

- (aa) 0.15 gm metal - 11 cm
- (ab) 50mm nail vertical - 28 cm
- (ac) 50 mm nail horizontal - 19 cm

(c) Detector must be capable of pinpointing detected metal to 1/3 cm range. The distance will be taken from the center of the search head to the center of the object.

(d) Detection tone should be distinct from the working tone. The instrument should be free from radio and static interference.

11. Electrical Parameter. The detector must be powered by standard size commercially available dry cells for 20 hours and rechargeable cell for 12 hours. Must have a facility to indicate low battery.

12. Transport, Storage and Transit. The detector together with its accessories must come in a lightweight, durable compact back pack carry bag that is capable of surviving in all adverse environmental conditions. The back pack carry bag weight inclusive of detector accessories must not exceed 4.5 kgs.

13. Weight of the complete detector in its bag and transport box must not exceed 11 kgs. Transport box should be ruggedised enough to withstand shock and drop from a 3 mtr height, without suffering any damage to the transport box body or equipment (detector) kept inside it.

14. Period of warranty of supplied equipment not less than 2 years.

15. Manufacturer should undertake to provide spares for 10 years.

Attested



