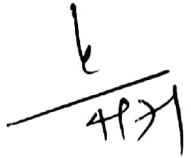


**Police Headquarters, Bihar, Patna**  
**Notice Inviting Tender No.-03/2018-19**

1. Name of the Department: Office of Director General of Police, Bihar, Patna.
2. Last date & time for the acceptance of the tender : **30/07/2018**, Till 02:00 PM
3. Date & time fixed for the opening of the tender : **30/07/2018**, At 04:00 PM
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	Mines Detector	08
2	Hand Held Thermal Imager	21
3	Hook and Line Set	03
4	Mobile Locator Device (GSM/CDMA Cells)	03
5	Ballistic Bunker (Portable Mobile Unit with Wheels), NIJ level IV/EOD Response Teams	01
6	One Man Ballistic Shield (Convertible X-Carrier)	07

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.gov.in](http://www.prdbihar.gov.in) or [www.biharpolice.bih.nic.in](http://www.biharpolice.bih.nic.in).

  
**AIG (Q)**  
Bihar, Patna

## Terms & Conditions of Tender No.-03/2018-19

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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/ E.M.D./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 IGST/CGST/SGST 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-03/2018-19 (Technical Bid) and Tender No-03/2018-19 (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-03/2018-19. This envelope should not bear the name and address of the firm.
11. Income Tax Returns of last three years, a photocopy of GST registration number of the participating firm and turn-over of any two of the previous three financial years should be submitted with the technical bid. It should be specifically mentioned whether IT return has been filed manually or electronically.
12. The turnover of the firm for the last reported financial year should be at least equal to the amount of the supply order which is being issued. A copy of the profit and loss Account of the firm for any two of the previous three financial years, 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. Tender specific authorization from the OEM must be submitted, but in certain cases where authorization from OEM is not required, the Technical-cum-User committee (T.U.C.) shall decide about exemption (if any) on a case-by-case basis; citing appropriate reasons for the same.
13. If there is some discount in the price of any item, it should be deducted from price itself and such discounts 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 any established and recognized private Laboratory or by agency accredited by the Government should be attached with the technical bid. However if required, the Technical-cum-User committee (T.U.C.) can take decision regarding exemptions/relaxations (if any), citing appropriate reasons.

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16. In case of Bullet Proof/Bullet Resistant items, test report of TBRL or any Government Approved/Recognized Laboratory 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 deposit in the form of Bank Draft duly pledged in favor of the undersigned along with the quotations. The small scale units located in Bihar shall not be liable to deposit earnest money. Exemption from submitting E.M.D. will also be available to those who are registered with the Central Purchase Organization/State Purchase Organization and National Small Industries Corporation (NSIC).
  21. Technical Bids will be opened on scheduled 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 after-sales 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 expected to submit the duly filled chart attached herewith, along with the technical bid if not the tender shall be summarily rejected.
  30. Indexing of the requisite documents must be done and submitted along with the technical bid.
  31. Hands on training for 3 weeks of the equipment must be imparted to the user group by the firm after successful installation.
  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.
  34. The bids must include the data sheet of individual item.

AIG (Q)  
Bihar, Police.

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## Specification for Mines Detector

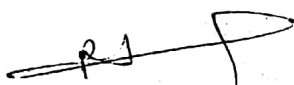
Sr. No.	Specification	
1.	Physical characteristic	<p>(a) The detector and its accessories should be comfortable for handling.</p> <p>(b) Light weight and made of non-corrosive (exceptionally corrosion protected) material, carbon fiber, glass fiber etc.</p> <p>(c) Material should have proven reliability and durability.</p> <p>(e) It should be a single composite unit including the control unit and extension shaft with all cable and connector inside and no connector or cable should be visible outside except headphone connector to avoid any mishandling.</p> <p>(F) Easy to transport</p>
2.	weight & Dimension	<p>i) complete operational unit with batteries &amp; small search head (maximum) 3 Kg and complete operational unit with batteries &amp; Large search head including accessories 5 kgs.</p> <p>ii) Bag pack weight of the equipment with large search head including accessories 7 kgs-</p> <p>iv) Total weight of the equipment including carrying case with both search heads (maximum) 14 kgs.</p>
3.	Transport, storage & transits	<p>i) The detector together with its accessories must come in a lightweight, durable compact backpack bag that is capable of surviving in all adverse environmental conditions.</p>
4.	search Head	<p>There should be two different search head in any shape i.e. circular, oval or rectangular.</p> <p>i) The diameter of small search head should be between 20 to 26 cm. (circular)</p> <p>ii) The dimension of large search head should be between 30×50 cm. (area in any shape)</p> <p>iii) The search coil should have facility to be disassembled and reassembled with the main control unit.</p> <p>iv) Automatic adaptation of different coil size to the control unit.</p> <p>v) Both types of search coils should have facility to cancel out interference of any type.</p> <p>vi) The complete equipment should be IP 67 complied.</p> <p>vii) Extendable stem/rods to extend the length of detector.</p>

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5.	Detection sensitivity	<p>a) The size and shape of the objects with which the tests will be conducted are as under:-</p> <ul style="list-style-type: none"> <li>i) 0.15 gm metal-1 inch × 1 inch tin foil</li> <li>ii) 50 mm nail- Thickness 03 mm and dia of head 06 mm.</li> <li>iii) salty water- 03 gm iodized common salt in 1 liters of water.</li> </ul> <p>b) The sensitivity of the detector must meet the following specifications.</p> <ul style="list-style-type: none"> <li>i) in free Air: <ul style="list-style-type: none"> <li>(a) 0.15 gm metal 25 cm.</li> <li>(b) 50 mm nail vertical 35 cm</li> <li>(c) 50 mm nail horizontal 27 cm</li> </ul> </li> <li>ii) Under Ground <ul style="list-style-type: none"> <li>(a) 0.15 gm metal 17 cm</li> <li>(b) 50 mm nail vertical 30 cm</li> <li>(c) 50 mm nail horizontal 20 cm</li> </ul> </li> <li>iii) in clear water <ul style="list-style-type: none"> <li>(a) 0.15 gm metal 17 cm</li> <li>(b) 50 mm nail vertical 30 cm</li> <li>(c) 50 mm nail horizontal 21 cm</li> </ul> </li> </ul>
		<ul style="list-style-type: none"> <li>iv) in salty water <ul style="list-style-type: none"> <li>(a) 0.15 gm metal 17 cm;</li> <li>(b) 50 mm nail vertical 30 cm;</li> <li>(c) 50 mm nail horizontal 21 cm;</li> </ul> </li> </ul> <p>All these testing should be conducted on normal soil and mineralized soil.</p> <p>c) Detector must be capable of pinpointing detected metal to + - 5 cm range. The distance will be taken from the center of the search head to the center of the object.</p> <p>d) Detection tone should be distinct from the working tone. The instrument should be free from radio and static interference.</p> <p>e) Ground compensation feature should be in the equipment for manual ground compensation by the user if required for any particular soil and this feature should be independent of sensitivity button.</p>
6.	Detection capabilities	<ul style="list-style-type: none"> <li>1) very easy and effective searching of large areas.</li> <li>2) Should detect all ferrous and non ferrous metals.</li> <li>3) Must be capable of detecting buried metals in all types of soil including laterite.</li> <li>4) It should work in all weather condition from arid to pouring rain.</li> <li>5) Usage time should be minimum 12 hours on rechargeable batteries.</li> </ul>
7.	control panel and display unit.	<ul style="list-style-type: none"> <li>1) The integrated unit should have LED display bright enough to be visible in sunlight.</li> <li>2) Display should show signal strength / intensity, ground</li> </ul>

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		<p>balance setting, indication of detection of metal ferrous, <b>battery</b> condition and all other mode settings.</p> <p>3) It should have filter to reduce intermittent or pulsed false signals.</p> <p>4) It should have visual as well as audio signal for metal detection.</p> <p>5) other basic functions - volume control, gain control, resetting button arm support.</p> <p>6) it should have all type of required software accompanied if any.</p> <p>7) It should have speaker &amp; headphone for audio signal.</p>
8.	Electrical parameter	<p>1) The equipment should worked on rechargeable and also alkaline batteries (ie. commercially available dry cell).</p> <p>2) Two sets of rechargeable batteries with battery charger to be provide with each equipment.</p> <p>3) The battery usage time should be minimum 12 hours on rechargeable batteries.</p> <p>4) The batteries charger should protect batteries from over charging.</p> <p>5) when equipment is switched on battery level status with audio to be provided in the equipment.</p>
9.	warranty	<p>1) warranty of the equipment should be 5 years.</p> <p>2) warranty of the battery and chargers should be 2 years.</p> <p>3) supplier and manufacturer should give undertaking for supplying spares parts and service for 10 years including warranty period.</p> <p>However the manufacturer will be responsible, in case the supplier is changed by the manufacturer for service and supply of spare parts.</p>



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**Revised Technical Specifications/QRs of the Hand Held Thermal Imager(HHTI)(Binocular)**

1	Weight should not be more than 3 Kgs without battery
2	(a)Should have Lithium Ion rechargeable battery. The battery should function for 3 hours or more in operational mode and for 5 hours or more in standby mode. (b)Should function on 180 volt to 250 volt 50 Hz. AC mains and generator through AC/DC Adaptor. (c)Battery Charger for charging the battery from 180 volt to 250 volt, 50 Hz AC Mains along with DC Charging facility from 24 volt to 48 volt DC should be provided. (d) Full charging of battery should not take more than 3 hours.
3	<b>Range:</b> Should have ability to differentiate between human beings and animals like horses and camels at a range of minimum 2.5 Kms and should have ability to detect presence of a vehicle of maximum overall length of 4010 mm, maximum overall width of 1540 mm and maximum overall height of 1875 mm at a range of minimum 8 Kms.
4	Ready Time from Standby mode should be less than 1 Minute
5	Cooling time should be 8 minutes or less
6	(a)Should have Narrow Field of View (NFOV) of 4° x 3° (Maximum) (b)Should have Wide Field of View (WFOV) of 8° x 6° (Minimum).
7	Power consumption should be maximum of 12 W
8	DDC System with Starring Array Detector configuration of Minimum 320 x 240 Elements Matrix should be provided
9	The HHTI should :- (a)Be binocular / biocular having one objective glass and one detector system. (b)Have capability to produce real time picture. (c)Penetrate darkness, haze and smoke. (d)Be immune to glare of searchlights. (e)Not get damaged if faced towards sun accidentally. (f)Have a suitable tint to reduce eyestrain. This feature should help the observer to quickly regain his normal vision. (g)Should be rugged for operations as per IP 65 environmental standards. (h)Should have a ruggedised container for transportation.
10	The HHTI should be able to work at temperature ranges of -30 degree to +55 degree centigrade.
11	It should have an in built Reticule to indicate range.
12	It should have provision for external video output (PAL).
13	The Mean Time Before Failure (MTBF) of equipment should be minimum 2500 hrs in operational mode.
14	Control panel should be easily accessible to user while holding the HHTI with both hands.

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## SPECIFICATION OF HOOK AND LINE SET

### Essential Qualitative Requirement:

It should be capable of being launched by a man portable launcher/crossbow so as to achieve range up to 100 meters.

It should have pull setting for various ranges on the launcher.

The launcher should have an accuracy of 45 cm radius at the target end.

It should have 60 ropes. The qualitative requirement for the ropes shall be as follows:

a. Type of Rope - Nylon

b. Length of Rope - 75 meters.

c. Weight of Rope - 1.7 Kg to 1.8 Kg. (23 - 25 gms per meter)

The hook/prong should preferably be light and sturdy so as to sustain repeated blast of launch and at least 50 impacts at target end.

It should have 12 numbers of hook/prongs with the set.

It should be used friendly.

It should be made of non-reflective material.

Total weight of launcher with one projectile should not exceed 4 Kgs.

### Preferable Qualitative Requirements:

Noise level during operation should be low.

It should have a sight system with graticulam for various ranges.

It should have optical and open sights.



## Generic Specifications for Mobile Locator Device

1. It should be Backpack or Vehicle based solution.
2. It should support all frequency bands for GSM/CDMA/UMTS/LTE.  
It means the system should be capable to track and locate the mobile working on 2G/3G/4G technologies.
3. The system should be capable to locate/capture the mobile based on IME/IMSI.
4. It should have integrated GPS, enabling the use of Internet / Local MAPS application.
5. The related Database should be exported in varies formats. Report to be based on captured data.
6. It should Capture GPS co-ordinates for supported devices.
7. It should be abled for SIM swap indication in case handset is changed and highlights the previously added target.
8. It should consist comprehensive and user friendly GUI and in-built Auto configure feature with multiple search option.
9. Battery backup should be of minimum:- 90 minutes (vehicle mode) and 45 minutes in Portable Mode (Man Pack) ;Extra battery should be provided to meet exigency.
10. **Features of Control Laptop:**  
Intel core-i7 CPU; 12GB RAM; 2 TB HDD; Windows OS
11. Software license should be provided with the product.
12. It should include the facilities according to future up gradation of technologies in this field.

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**TECHNICAL SPECIFICATION FOR BALLISTIC BUNKER (PORTABLE  
MOBILE UNIT WITH WHEELS), NIJ LEVEL IV**

**1. General:** (i) The Bunker should be small, Mobile, Collapsible.

(ii) It should be made to utilized for a variety of applications that include first responders to active shooters, barricaded suspects, critical tactical negotiation, hostage rescue operations, rescues, sniper deployment etc.

**2. Dimension:**

Deployed Dimension: 72"x20" (Height x width)
Area of Ballistic Glass: 3.5 sq Ft
Area of Ballistic Panel: 10.06 sq Ft
Clearance from ground: 1/4"
Tolerance in Dimension: $\pm 5\%$
Should easily fits through 3 feet door

**3. Construction:**

Ballistic Panel should be made up of Ceramic composite with capacity to hold shot on shot
Minimum 2 Ballistic Panel
Should be easy to carry in vehicle/car
System should be collapsible
Total Weight: Less than 170 Kg $\pm 5\%$
No of Tires: 4 Tyre should be moving even after being shoot.
Run Flat wheels

390  
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Rolls over rough terrain
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Colour: Black
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#### 4. Protection Level:

Both Ballistic Panel & Glass Protection Level: NIJ Level IV
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Test certificate to be Produced. Also should be tested by TBRL or Indian Force/Bihar Police
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Should also be capable of stopping 7.62x39mm Indian ordinance [KF rounds] From AK 47, 7.62x51 mm from Indian SLR , 5.56x45mm INSAS.
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#### 5. Timing:

Deployed Timing: Less than 90 Second
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Collapsible Timing: Less than 90 Second
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#### 6. Other:

The Supplier shall indemnify the Purchase against all third party claims of infringement of patent, copyright, trademark, License or Industrial design rights, piracy arising from use of the goods or any part thereof as per Indian or International patent law.
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Product Acceptability: Product should have been purchased by Indian & International Police
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### Generic Specifications of one man Tactical Ballistic Shield

1	Should be able to provide protection of NIJ level III (NIJ- 0101.06). The ballistic shield should provide protection against all types of 7.62mm calibre ammunition fired from Assault Rifles (AK47/AKM/SLR) from minimum 10 meters of distance.
2	Should be of the dimensions :- (a) Width: Min 50 cms max 60 cms. (b) Height: Min 80 cms max 130 cms. (c) Should have features of attachment on top for net/wire mesh to block grenades. (d) Weight : Maximum – 16 Kgs
3	Should have provisions for handles/straps to carry it when being employed tactically.
4	Should have a bullet proof view port.
5	Should be ergonomically designed for easy carry so as not to hamper combat effectiveness.
6	Should have smooth and noise free rugged wheels for movement on any surface. Suitable protection to cover the gap between the ground and the ballistic shield to be provided.
7	Colour: Black.

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