

SHORT TENDER CALL NOTICE

Office of the D.G & I.G. of Police, Odisha, Cuttack

1. Sealed tenders are invited from the Original Equipment Manufacturers (OEM) or their Authorized Agent for purchase of different Security / Intelligence related equipments like Door Frame Metal Detector (Portable), Non-Linear Junction Detector, Pocket HHMD, Render Safe Procedure (RSP) Tool Kit for diffusion, Bomb Blanket, Optical Fibre Scope, Equipments for Up-gradation of Legal Interception System etc. for Odisha Police.
2. Name of items along with detail technical Specifications, probable requirements against each item may be seen from the Web site of the Odisha Police i.e www.orissapolice.nic.in and in Govt. of Odisha website i.e www.odisha.gov.in . The quantity may vary during indent of the items depending upon budgetary allocation.
3. Date of Issue of Tender documents from dtd.**29.10.13 at 10.00 AM to 18.11.13 upto 5.00 PM**
4. Last date for receipt of sealed Tender and Sample on **dtd. 19.11.2013 up to 5.00 PM.**
5. Date for opening of sealed Tenders / Technical Bids on **dtd. 21.11.2013 at 10.30 AM** at the Office of the Superintendent of Police, Security Wing, Special Branch, Keshari Nagar, Unit-V, Bhubaneswar. PIN- 751001.

**A.I.G. of Police (Provisioning),
Odisha, Cuttack.
(Tender Calling Authority)**

SHORT TENDER CALL NOTICE
Office of the D.G & I.G. of Police, Odisha, Cuttack
Tender Call Notice No.
Tender Document No.1

1. Sealed tenders are invited from the Original Equipment Manufactures (OEM) or their Authorized Agent for purchase of different Security / Intelligence related equipments as listed below. (List separately enclosed as Annexure-A)

<u>Sl. No.</u>	<u>Name of the Items</u>	<u>Approximate Quantity</u>
1.	Door Frame Metal Detector (Portable)	50
2.	Non-Linear Junction Detector	2
3.	Pocket HHMD	160
4.	Render Safe Procedure (RSP) Tool Kit for diffusion	6
5.	Bomb Blanket	10
6.	Extension Search Mirror	9
7.	Under Vehicle Search Mirror	10
8.	Prodder(Metallic)	10
9.	Optical Fibre Scope	1
10.	Fibre Optic Surveillance Set (with IR)	2
11.	Search Kit Magnified	1
12.	Explosive Detection and Identification Spray Kit	2
13.	Water Jet Disruptor	1
14.	Radiation Detector	1
15.	Real Time Viewing System (RTVS)	2
16.	Deep Search Metal / Mine Detector	10
17.	Equipments for Up-gradation of Legal Interception System	
	i. IMS Store and Forward Servers	5
	ii. Client Work Station (Desktop)	5
	iii. IMS Software	5
	iv. Client Software	14
	v. Connectivity as per network requirements	-
	vi. Project Architecture (should be modular allowing for expansion)	-
	vii. Accessories (Convertors, Cabling, Fibre cat-6, Patch Cords and Panels) (as per network requirement)	-

2. Name of items along with detail technical Specifications, probable requirements against each item may be seen from the Web site of the Odisha Police i.e www.orissapolice.nic.in. and in Govt. of Odisha Web site i.e www.odisha.gov.in. The quantity may vary during indent of the items depending upon budgetary allocation.

3. The Tender Document may be obtained
 - (a) On payment of Rs.200/- (Rupees Two Hundred) (+) OVAT 5% i.e. Rs.210/- only between 10 AM to 5 PM on each working day from the office of the undersigned at the address given below.
 - (b) By sending a self stamped (Rs. 80/-) envelope of size not less than 35 cm x 25 cm along with a Demand Draft non A/c payee of Rs. 200/- (Rupees Two Hundred) (+) OVAT 5% i.e. Rs.210/- only payable at S.B.I. Main Branch, Cuttack drawn in favour of A.I.G.of Police (Provisioning), Odisha, Cuttack.
 - (C) By downloading from Odisha Police website i.e. www.orissapolice.nic.in and Govt. of Odisha website i.e. www.odisha.gov.in.
4. The Tender documents shall be submitted in the office of the undersigned duly signed by the authorized signatory in each page and duly authenticated with seal in token of having read, understood and accepted the terms and condition of the contract. However in case of downloaded tender documents, a non A./C payee Demand Draft of Rs200/- (Rupees two hundred) (+) OVAT 5% i.e. Rs.210/- only payable at SBI, Cuttack drawn in favour of A.I.G. of Police (Provisioning), Odisha, Cuttack towards cost of Tender Document shall be enclosed. Bids submitted otherwise than in the manner prescribed in the Tender Document shall be rejected.
5. Tender calling authority has the right to accept or reject the Tender(s) without assigning any reason thereof.
6. Date of Issue of Tender documents on dtd. **29.10.2013 at 10.00AM.**
7. Last date of Issue of Tender document on dtd. **18.11.2013 up to 5.00 PM.**
8. Last date for receipt of sealed Tender and Sample on dtd **19.11.2013 up to 5.00 PM.**
9. Date for opening of sealed Tenders / Technical Bids on dtd. **21.11.2013 at 10.30 AM** at the Office of the Superintendent of Police, Security Wing, Special Branch, Keshari Nagar, Unit-V, Bhubaneswar. PIN- 751001.
10. The concerned bidders are required to depute their representatives to remain present during opening of the received Tenders / Technical Bids on **21.11.2013 at 10.30 AM** at the Office of the Superintendent of Police, Security Wing, Special Branch, Keshari Nagar, Unit-V, Bhubaneswar. PIN- 751001
11. The Tenders received after the stipulated date will not be taken into consideration and liable for rejection.
12. All disputes which may arise relating to tender are subject to judicial jurisdiction of the competent Court at Cuttack only.
13. It is to certify that this tender document **contains 67 pages.**

**A.I.G. of Police (Provisioning),
Odisha, Cuttack.
(Tender Calling Authority)**

**APPROX. REQUIREMENT OF SECURITY / INTELLIGENCE RELATED
ITEMS, TO BE PURCHASED UNDER MPF SCHEME DURING THE
CURRENT FINANCIAL YEAR, 2013-2014.**

Sl. No.	Name of the Items to be purchased	Quantity to be purchased
1.	Door Frame Metal Detector (Portable)	50
2.	Non-Linear Junction Detector	2
3.	Pocket HHMD	160
4.	Render Safe Procedure (RSP) Tool Kit for diffusion	6
5.	Bomb Blanket	10
6.	Extension Search Mirror	9
7.	Under Vehicle Search Mirror	10
8.	Prodder(Metallic)	10
9.	Optical Fibre Scope	1
10.	Fibre Optic Surveillance Set (with IR)	2
11.	Search Kit Magnified	1
12.	Explosive Detection and Identification Spray Kit	2
13.	Water Jet Disruptor	1
14.	Radiation Detector	1
15.	Real Time Viewing System (RTVS)	2
16.	Deep Search Metal / Mine Detector	10
17.	Equipments for Up-gradation of Legal Interception System	
	i. IMS Store and Forward Servers	5
	ii. Client Work Station (Desktop)	5
	iii. IMS Software	5
	iv. Client Software	14
	v. Connectivity as per network requirements	-
	vi. Project Architecture (should be modular allowing for expansion)	-
	vii. Accessories (Convertors, Cabling, Fibre cat-6, Patch Cords and Panels) (as per network requirement)	-

Tender Call Notice No.
Tender Document No. II

GENERAL CONDITIONS OF THE CONTRACT

1. The bidder/Supplier shall essentially be
 - a) An Original Equipment Manufacturer
 - or
 - b) An Authorised Agent of the OEM having running business in the tendered item with good business track record.

The bidder in proof of he being an OEM / Authorised Agent shall submit authenticated documentary evidence in this regard. The proof submitted earlier in some other context shall not be treated as valid and sufficient.

2. The tenders (also called bids), not submitted in prescribed format or in the prescribed manner, shall be rejected by the Tender Committee at the risk and responsibility of the bidder.
3. All the information as called for in the tender document should be submitted truly clearly, legibly, transparently, unambiguously and without the use of abbreviations. It shall be submitted in English.
4. All the crucial figures, like rates and amount should be written in figures followed by words in a bracket.
5. There shall be no over-writing in the tender document and other papers submitted. All the additions, alterations, deletions and cuttings should be initialled with rubber stamp (or seal) by the same person, who signs the tender document failing so, the tender may be rejected.
6. All the rates and amounts shall be quoted in Indian Rupees(IR) and shall be presumed to be in Indian Rupees unless specifically permitted to be quoted otherwise in this tender document. However an OEM located outside the country may quote its price in the Currency of the country to which he belongs but the same shall be converted to INR at the exchange rate prevailing on the date of opening of Tender and the same will be binding on both parties.
7. The rates quoted shall be valid for a period of one year counted from the last date of receipt of the bids or submission of tenders.
8. Each page of this tender document should be signed by the bidder with seal in token of having read, understood and accepted the terms and conditions of this contract.

9. For the Companies and Corporations making the bids, the tender document shall be signed by the Managing Director. If it is otherwise, the authority to sign the tender paper on behalf of the Company/ Corporation shall be enclosed. In case of partnership Firm, it shall be signed by the active Partner. In case of a proprietary Firm, the tender document shall be signed by the Proprietor.
10. "Legal Status" of a bidder shall mean either proprietorship or partnership or private/ public limited company or otherwise (to be specified), as the case may be.
11. All the documents and papers submitted with the bid should be either in English or in Odia and shall be authenticated under the seal and signature of the bidder unless specified otherwise in the tender document.
12. All the promotional and technical literature of the products intended to be supplied should be submitted for proper appreciation of the bid, whether or not; specifically called for in this tender document. This literature should also be in English or Odia.
13. Submission of more than one competitive bid by the same firm in response to the tender call notice is prohibited. All Such bids except one received first will be cancelled at the discretion of the authority calling the bids. A bidder may however, offer in his bid more than one product of the same Original Equipment Manufacturer (OEM), if in his opinion all such products meet the prescribed technical specifications. In that case, he should submit "technical bids" of all such products separately but in the same prescribed format, in the same sealed single cover. Separate "financial bids" should also be submitted similarly in the same sealed single cover (see below for the meaning of sealed cover).
14. The bidder may use separate piece of paper, where the space provided in the formats in this tender document for submission of information, is not sufficient. The information in the separate sheet of paper shall be in prescribed format and its page should be serially numbered and duly authenticated.
15. All the information submitted or supplied in the formats of this tender document shall be presumed to be true to the best of the knowledge of the bidder.
16. No firm/Company without valid Value Added Tax Registration number and PAN shall be eligible for submitting bids. Firms blacklisted shall also not be eligible for participating in the bid.
17. Copies of Valid Registration Certificates issued by competent Authorities under VAT and CST Acts and Copy of PAN shall be enclosed to the Tender document. In no case other certificates issued by authorities in lieu of such certificates shall be accepted.

18. Copies of income Tax return, Audited Balance Sheets, P/L a/c and Trading a/c of, previous year along with copies of Annual VAT and CST returns of previous year need also be enclosed to the Tender document.
19. At the time of opening of Tender/Financial bid the bidder will have to satisfy the competent authority that he is not only authorised as per his Registration Certificates to deal in the tendered item but he has also a running business in such items and he has the ability to supply the tendered quantity in prescribed time limit and to meet the warrantee conditions of the product.
20. The bidders of Odisha will have to submit VAT Clearance Certificate in prescribed form obtained from competent authority and the bidders from outside the state shall submit an undertaking in the form of an affidavit (in enclosed format) stating that they have no business in Odisha and have no liability under the Odisha VAT Act, at the time of submission of Tender.
21. The bid security (EMD), if called for, shall either be in the form of Demand Draft/ FDR / Banker's Cheque of a Scheduled Bank payable at Cuttack or by pledging of NSC/FDR/Postal Savings Pass Book, all in favour of A.I.G. of Police (Provisioning), Odisha, Cuttack. EMD shall be returned immediately after the rejection of a bid. The DD/FDR/ Banker's Cheque etc. shall be returned in original with or without reverse endorsement as required for the refund. EMD of the successful bidders shall be retained till the supplies are successfully delivered as per order or adjusted against "Performance Security" (defined on condition No.10 of Special Conditions of the Contract) as per conditions of performance security agreement.
22. **This tender document has prescribed a two-bid format for submitting the offers. It contains the "Technical" (Tender document No.V) and "Financial" (Tender document No.VI) bid formats. Both the bids shall be submitted in separate sealed covers identified as "Technical" or "Financial" bid after detaching their formats from this tender document. Both the sealed covers, the remaining part of this tender document including General Conditions of the Contract (Tender Document No.II), Special Conditions of Contract (Tender Document No.III), General Bid (Tender Document No.IV) and all Annexure A, B, C, D and E and all other papers/ documents should be put inside a bigger sealed cover and shall be delivered as per conditions published in the tender call notice. All the sealed cover shall have boldly written with the name of supplier/bidder, the tender call notice number and the last date for submission.**

23. No document as required and mentioned in the General/ Special conditions of contract shall be enclosed to the technical bid/ Financial bid documents unless otherwise specifically mentioned there in. All required documents shall be enclosed to the General bid proforma duly authenticated and serially numbered and page marked.
24. The tenders or the bids can be sent by Regd. with AD post or courier as well. However, the authorities shall not be responsible for the postal and other delays in receipt of bids.
25. If the last date for receipt of the tender/bid turns out to be a holiday, it will automatically be extended to next working day.
26. The tender calling authority shall make arrangements in his office for issuing a written acknowledgement, under proper seal and signature, of the filled in tenders, provided those are submitted on or before the due date. The acknowledgement shall be issued even if the Tenders are dropped in a sealed box. The acknowledgement receipt shall mention, among others, the tender call notice number.
27. A bid submitted cannot be withdrawn. The bidder or his authorized representative (one person only) will be allowed to be present at the time of opening of tenders. They will not participate in the discussions. Clarifications sought, if any may be provided by them.
28. All or any of the tenders (or bids) submitted can be rejected without assigning any reason thereof. No claim, whatsoever, shall be admissible for the alleged loss/damage suffered by the bidders on account of such rejections.
29. The Tenders/bids received in the prescribed time shall be opened by the tender committee at the prescribed date time and place. Any bid found incorrect or incomplete in any manner would be summarily rejected by the said committee.
30. The "Technical" bids shall be opened and scrutinized by the Technical Committee, only in respect of the bidders who have been found to fulfil all the prescribed criteria and conditions of this tender document other than technical specifications of the products. Only branded products shall be accepted unless otherwise mentioned in special conditions of the contract.
31. All the products, failing to fulfil the prescribed technical specifications, shall be rejected. Decision of the Technical Committee in this respect shall be final and binding. A bidder can improve the technical specifications of the product offered before the opening of "Financial bid" Decision of the Technical Committee on whether or not the revised specification is an improvement, shall be final. Improvement in the technical specification offered as above, may be accepted or not at the discretion of the tender calling authority. However, no preference or extra payment shall be admissible for superior technical specifications or quality or the like.

32. The bidder shall have to submit in separate paper mentioning complied or not complied against each column of the technical specification given in the tender document.
33. Notwithstanding an offered product meeting the prescribed technical specifications, it may be rejected, if it has not been tried and tested or used in Odisha Police with satisfaction. It may also be rejected if the bidder fails to successfully demonstrate its product before the Technical Committee.
34. "Financial bids" shall be opened only in those cases, where one or more of the offered products have fulfilled the prescribed technical specifications. All financial documents like Registration Certificate issued under VAT, CST and IT Acts, VAT clearance Certificate, IT and ST returns, Audited Balance sheet, Trading a/c and P/L a/c shall be verified at the time of opening of financial bids.
35. All the prices quoted shall be F.O.R., destination i.e. Bhubaneswar which means that prices shall include the cost of delivery at destination if nothing otherwise is mentioned in the Special condition of contract.
36. The Purchase Committee shall discuss and deliberate on the past performance, experience, production capacity, financial strength etc. of the bidders/suppliers as recommended by the Technical Committee, besides the rates quoted by them and select the L-I bid in most transparent manner, taking into consideration the relevant provisions of OGFR and Circulars and notifications issued by the Government of Odisha from time to time, so as to ensure that the purchases are effected in most prudent and economical manner, without compromising the prescribed quality, from the most eligible bidder.
37. Financial negotiations with firms other than the lowest bidder shall not be held without obtaining the prior approval of Government.
38. The authorities are not bound to accept the lowest financial bid.
39. The order for supply may be placed on the successful bidders but the technical specifications (or quality requirements) for the purpose of supply shall be those, which were offered and accepted by the Technical Committee and not those specified in the tender document. It shall not be necessary for the office of the D.G. & IG of police to place a single order for the entire requirement. Order for the same item but on identical terms and conditions may be placed by different wings of the office such that the total orders placed shall roughly correspond to the quantity mentioned in the tender document. The bills for payment shall be submitted, accordingly, on different wings placing the order.

40. On delivery, the supplies or products shall be inspected to verify the quantity and to see whether those are in accordance with the technical specifications (or quality requirements) for which the order was placed. If it turns out to be otherwise, the acceptance of delivery shall be refused at the risk and responsibility of the supplier. Further the articles found damaged shall not be counted as accepted until repaired or replaced to the satisfaction of the authorities.
41. Short/ Part deliveries may not be accepted. All the items ordered must be supplied in full, for claiming even the part payment.
42. All the transit risk shall be the responsibility of the supplier.
43. (a) No Way Bill, C/D Forms will be supplied by the indenter to the suppliers of outside Odisha for supply of goods. However they may obtain necessary declaration forms in form VAT-402 A from the concerned Sales Tax authority on their own.
- (b) The supplier would make suitable arrangement on his own for passing the Border Check gates of Odisha.
44. User manuals of the product shall be supplied without being asked for and without being mentioned in the supply order. Moreover, it should be in English.
45. Failure to supply the indent in full within the stipulated period as mentioned in the supply order may lead to forfeiture of EMD / Performance Security and blacklisting of the suppliers. If at all the delivery is allowed to be accepted after the due date, Liquidated Damages(LD) @ 0.5% of the total amount of order (excluding taxes) per week or part thereof shall be charged, however that the L.D. shall not exceed 5% of the amount of order.
46. The supplier shall submit an undertaking given by him or the OEM committing to supply spare parts for the maintenance of the supplies for a period of at least 10 years from the date of delivery.
47. The supplier shall give a "Performance Warrantee" for a minimum period as mentioned at Sl.10 in the Special Conditions of Contract. The "Performance Security" may be forfeited partly or fully for failure to fulfil the terms and conditions of supply and post sales commitments/ obligations. The Bank Guarantee if furnished towards performance security should be enforceable and payable at Cuttack and shall be valid for the period of warrantee. (Performance Security has been defined on condition No.10 of Special Conditions of the Contract.)

48. All the clarifications sought from the bidders/ suppliers on technical specifications of the products or otherwise shall be promptly submitted in a transparent and unambiguous manner.
49. Terms & Conditions of the tender documents can't be negotiated for variation without obtaining prior approval of Govt.
50. Entire tender document, duly filled in, shall be treated as part of the contract agreement for supplies in case of the successful bidders and shall be submitted in original.
51. All the disputes shall be subjected to the jurisdiction of civil Courts situated at Cuttack.
52. The bidders shall submit all required documents along with tender. Under no circumstances a bidder would be allowed to make any addition / alternation in any document related to tender or to submit required documents after receipt of tender by the tender calling authority.
53. Any objection / suggestion / complaint by any bidder with regard to tender shall be intimated in writing to the tender calling authority. The Chairman / Members of Technical / Purchase Committee would not entertain any correspondence / discussion in the above matter.

Seal & Signature of the bidder.

**A.I.G. of Police(Provisioning),
Odisha, Cuttack
(Tender Calling Authority)**

SPECIAL CONDITION OF THE CONTRACT

Short Tender Call Notice No.

Tender Document No. III

1. The Special Conditions given here shall prevail over the General Conditions.
2. **Bid Security (E.M.D.):** The tender document shall accompany with a Earnest Money Deposit (EMD) at the rate noted under col-5 against each item in Sl.No.3 below without which the tender shall be rejected. The Earnest Money Deposit should be made available in the form of DD/FDR/Banker's Cheque / NSC / Postal Savings Pass Book in a separate envelop along with the sealed covers of "Technical" and "Financial" bids. However, the MSEs registered in Odisha with respective DICs, Khadi, Village, Cottage & Handicraft Industries, OSIC and NSIC shall pay 25% of the prescribed security deposit while participating in the tender. The bidders who are registered with DGS&D for the tendered items are exempted from payment of Bid Security (EMD).
3. **QUANTITY:** Sealed bids in this tender document have been invited for the supply of the items listed below. The approximate quantity required has been mentioned against each. Detailed technical specifications of each item are available in the Annexure of "Special Conditions of the Contract" enclosed herewith.

S.I. No.	Particulars of the Item	Approx. quantity	Technical specifications	EMD (In Rs.)
1	2	3	4	5
1.	Door Frame Metal Detector (Portable)	50	Annexure – (B)	25,000/-
2.	Non-Linear Junction Detector	2	Annexure – (B)	32,000/-
3.	Pocket HHMD	160	Annexure – (B)	22,400/-
4.	Render Safe Procedure (RSP) Tool Kit for diffusion	6	Annexure – (B)	12,000/-
5.	Bomb Blanket	10	Annexure – (B)	10,000/-
6.	Extension Search Mirror	9	Annexure – (B)	900/-
7.	Under Vehicle Search Mirror	10	Annexure – (B)	1,400/-
8.	Prodder(Metallic)	10	Annexure – (B)	500/-
9.	Optical Fibre Scope	1	Annexure – (B)	20,000/-
10.	Fibre Optic Surveillance Set (with IR)	2	Annexure – (B)	8,000/-
11.	Search Kit Magnified	1	Annexure – (B)	7,000/-
12.	Explosive Detection and Identification Spray Kit	2	Annexure – (B)	1,200/-
13.	Water Jet Disruptor	1	Annexure – (B)	13,000/-
14.	Radiation Detector	1	Annexure – (B)	5,000/-
15.	Real Time Viewing System (RTVS)	2	Annexure – (B)	60,000/-
16.	Deep Search Metal / Mine Detector	10	Annexure – (B)	30,000/-

17.	Equipments for Up-gradation of Legal Interception System		Annexure – (B)	54,200/-
	i. IMS Store and Forward Servers	5		
	ii. Client Work Station (Desktop)	5		
	iii. IMS Software	5		
	iv. Client Software	14		
	v. Connectivity as per network requirements	-		
	vi. Project Architecture (should be modular allowing for expansion)	-		
	vii. Accessories (Convertors, Cabling, Fibre cat-6, Patch Cords and Panels) (as per network requirement)	-		

4. The quantities mentioned above are subject to variations. The rates quoted by the firms shall continue to be valid even if the quantities of items mentioned above are varied.
5. It shall not be necessary to bid for all the items mentioned above. The firms/companies may bid for one or more of the items depending on their convenience and submit E.M.D. accordingly. The items above do not necessarily consist of a single piece of equipment. It may be composition of inter-connected or inter-related appliances. Bidding is not permitted for the components obtained by splitting an item. Bidding is also not permitted for a part of the quantity of an item indicated above.
6. The bidder shall submit along with this tender document a list of names, complete addresses. Telephone/FAX numbers of the customers to whom, the items, for which the bid has been submitted, have been supplied and installed in last three years, if any. A clear unambiguous statement shall be made if an item has not been sold anywhere in India so far.
7. The supplies shall be delivered to the authorities at the place indicated below.

	Name of the Authority & his address	Quantity
All items	Office of the Superintendent of Police, Security Wing, Special Branch, Unit-V, Keshari Nagar, Bhubaneswar. PIN-751001.Odisha.	As per supply order

8. The working of the equipment shall be demonstrated successfully and expenses incurred on demonstration shall be borne by the supplier.
9. The supplier shall organise training to acquaint the employees of the Organisation regarding operation of the equipment in their own cost.

10. Performance security: The successful bidder shall have to enter into an agreement with the Tender Calling Authority for successful completion of supply / installation of the tendered items after proper inspection within stipulated period and also for performance warrantee of the items from the date of supply / installation up to a period of **02(two) years** in respect of all items except Sl. No. 17 i.e. Equipment for Up-gradation of Legal interception System and **03 (three) years** in respect of Equipment for Up-gradation of Legal interception System. In this regard the bidder has to furnish the security deposit at the rate of 5% of the total amount of the order excluding all taxes in the form of NSC / Post Office Savings Bank A/c / FDR / Bank Guarantee from any Nationalized Bank duly pledged in favour of Tender Calling Authority.
11. Not with standing anything contained in the General Conditions of contract a new / fresh brand of product / equipment not tried, tested and used in Odisha Police may be accepted subject to meeting the prescribed technical specification and approval of Technical Committee.
12. All the supplies made shall be subject to a minimum period of warranty of **02 (two) years** in respect of all items except Sl. No. 17 i.e. Equipment for Up-gradation of Legal interception System and **03 (three) years** in respect of Equipment for Up-gradation of Legal interception System.
13. The supplier shall repair or replace at his cost any component of the supplies that may go out of order during the warranty period. The repair and replacement shall as far as possible be carried out within the premises, where the equipment has been installed. If, however, it is necessary to take the equipments to the workshop of the supplier, it must be repaired and re-installed successfully in its premises within 48 hours counted from the time service call is placed. Failing so, replacement equipment in working condition shall be supplied till return of the equipment.
14. If an equipment or supply goes out of order within the warranty period and the supplier is informed about it, it must be attended to within 48 hours counted from the time service call is placed.
15. Pre-delivery inspection: Not required.
16. PAYMENT: No advance payment shall be made. 100% of the payment will be made on delivery of supplies, successful installation and demonstration subject to clause 10 above.

17. **SAMPLE / DEMONSTRATION:** With regards to following items, the firms need not submit sample along with their bid / offer but they shall demonstrate the quoted model for inspection / consideration by the Technical Committee during its meeting.
- i) Door Frame Metal Detector (Portable)
 - ii) Non–Linear Junction Detector
 - iii) Pocket HHMD
 - iv) Render Safe Procedure (RSP) Tool Kit for diffusion
 - v) Bomb Blanket
 - vi) Extension Search Mirror
 - vii) Under Vehicle Search Mirror
 - viii) Prodder(Metallic)
 - ix) Optical Fibre Scope
 - x) Fibre Optic Surveillance Set (with IR)
 - xi) Search Kit Magnified
 - xii) Explosive Detection and Identification Spray Kit
 - xiii) Water Jet Disruptor
 - xiv) Radiation Detector
 - xv) Real Time Viewing System (RTVS)
 - xvi) Deep Search Metal / Mine Detector
 - xvii) **Equipments for Up-gradation of Legal Interception System**
 - i. IMS Store and Forward Servers
 - ii. Client Work Station (Desktop)
 - iii. IMS Software
 - iv. Client Software
 - v. Connectivity as per network requirements
 - vi. Project Architecture (should be modular allowing for expansion)
 - vii. Accessories (Convertors, Cabling, Fibre cat-6, Patch Cords and Panels) (as per network requirement)
18. Bidder intending to participate in the tender is required to submit Odisha VAT clearance certificate in form no.612. The foreign companies/bidders from outside the state who intend to participate in the tender and who have not been registered under the OVAT Act may be allowed to participate in the tender without having any VAT clearance certificate subject to condition that they will submit undertakings in the form of an affidavit indicating there in that they are not registered under the VAT Act as they have no business in the state and they have no liability under the Act. But before award of the final contract, such bidders will have to produce the VAT clearance certificate in form VAT 612-A.

Seal and Signature of the bidder

AIG of Police (Provisioning)
Odisha, Cuttack
 Signature of the Tender Calling Authority
 (With Seal)

SPECIAL CONDITIONS OF CONTRACT (REF SL. NO.3)
TECHNICAL SPECIFICATIONS

1. DOOR FRAME METAL DETECTOR (PORTABLE)

TECHNICAL SPECIFICATIONS

1.	Technology	Pulse Induction Technology.
2.	No. of Zones	Multi zones (preferably 6/8 zones)
3.	Zone Sensitivity & adjustment	All zones individually adjustable
4.	Metal Detection	(i) Should detect Ferrous, Non-ferrous, Ferrite & Alloys (ii) Uniformity in entire frame area. (iii) In all orientation and in all possible speed of interception. (iv) Pin point detection with identification at correct zone level without interference / false identification of adjacent zone. (v) Should detect all metals when person crosses the DFMD with metal and should not give any detection from outside.
5.	Alarm Signal	Audio Alarm - adjustable.
6.	False alarm rate	Less than 3%
7.	People capacity (throughput rate)	Aprox. 60 people per minute.
8.	a. Inside clear Dimensions	2000 mm X 710 mm X 270 mm
	b. Outside clear Dimensions.	2270 mm X 950 mm X 340 mm
	c. Weight	Maximum 40 kg.
9.	Interference Protection	(i) Should not interfere with adjacent installed DFMDs with a distance of one meter. (ii) Should not be affected by opening / closing of a metallic gate in vicinity. (iii) Should not be affected by heavily reinforced floors / roof tops / walls. (iv) Should not be affected by external R.F. transmission and EMI (Electro Magnetic Interference).
10.	Power supply	(a) 220 Volt AC 50 Hz Mains (b) 6 V DC / 12 V DC Rechargeable for minimum 10 hours operation with inbuilt charger.
11.	Calibration	(a) Automatic & Manual (b) Provision for Remote Control Unit for parameter settings.
12.	Temperature	- 10° C to +55° C
13.	Humidity	Up to 95 % No condensation

14.	Control panel	(a) Easily accessible, modular design with standard plugs and connectors. (b) Adjustable Control should be only be activated from a hand wireless remote.
15.	Construction	Light weight, rigid, laminated side panels and cross piece, ABS Plastic Boots for panel protection and should be waterproof, weather proof and suitable for outdoor location.
16.	Safety	(a) Should conform to International standards of Safety/Radiations. (b) Should be safe for heart pace makers and pregnant women. (c) Should be data safe.
17.	Self-diagnostic	User friendly, self-testing diagnostics to identify faulty conditions.
18.	Warranty, After sale service & availability of spare parts.	(a) 2 years minimum warranty. (b) Availability of suitable repair service centres and spare parts in major State Capitals in the Country. (c) Should undertake to provide maintenance / spares support for a period of minimum 5 years.

2. NON-LINEAR JUNCTION DETECTOR

GENERAL SPECIFICATIONS

1.	Weight of Operational Unit	Should not exceed 7 kgs. Including battery
2.	Telescopic Pole	Should be of collapsible type with a minimum extended length of 100 cms from handgrip to antenna head (probe) and should have firm clamps fasteners.
3.	Operational Environment	i) Operating Temp.: between 0 ⁰ C to 50 ⁰ C ii) Storage Temp.: 20 ⁰ C to 70 ⁰ C iii) Humidity: 90% to 95%

TECHNICAL SPECIFICATIONS

1.	Technology	State of the art technology using auto Digital Signal Processing (DSP) power control.
2.	Transmitted Power	RF (Average) Power should not be more than 5W and to be DSP controlled / Manually selected.
3.	Operating Frequency	Spectrally pure RF fundamental frequency between 850 MHz and 1005 MHz.
4.	Receiver Sensitivity	-130 dbm or better.
5.	Transmitter / Receiver Antenna Polarisation	Linear / Circular polarization – transmitter 8 dBi, Receiver – 6 dBi
6.	Display	i) Display of received signal strength of the second & third harmonic on bar graph / AMOLED (Active Matrix Organic Light Emitting Display) with touch screen. ii) Display of battery status & mode of operation status on control unit panel. iii) Viewing angle – 180 degree.

7.	Mode of Operation	Should have operational modes on 2 ND & 3 RD harmonics.
8.	Audio Alarm	Provision for audio alarm through speaker and headphone(s).
9.	EMI Interference	Should not activate radio controlled devices with operating frequency within HF / VHF range, in close proximity.
10.	Power Requirement	<ul style="list-style-type: none"> i) Should operate on rechargeable DC power supply ii) Battery charger designed for fast recharging. iii) Battery level status indicator – 3 levels and battery level warning screens at 9 minutes and 60 seconds operating time remaining. Threat indicator located on Antenna Head.
11.	Operating Time	Should work continuously for 4 hours at maximum RF power output. Lithium – Ion battery with 7.5 Volt DC, 5000 mAH
12.	Discrimination of Semiconductor Junction & Corrosive / Bimetal Junction	Should be capable to detect and identify semi-conductor & corrosive / bimetal junctions.
13.	Detection Range	<ul style="list-style-type: none"> (a) <u>For Dry Soil:</u> Minimum 18 inches with respect to our test piece of semi-conductor or non-linear metallic junction component. (b) <u>For Wet Soil:</u> Minimum 14 inches with respect to our test piece of semi-conductor or non-linear metallic junction component. (c) <u>Under Water:</u> Minimum 10 inches with respect to our test piece of semi-conductor or non-linear metallic junction component. (d) <u>For electronic detection Range –</u> Minimum of 1.0 meter in electronic mode and maximum power (in open space) (e) <u>For Corrosive / Bi metal detection range –</u> Minimum of 0.5 meter in corrosive mode and maximum power (in open space)
14.	Operation & Maintenance Manual	<ul style="list-style-type: none"> i) Operating Manual and Service Manual should be provided with each unit. ii) Operator's training should be carried out at the desired place.
15.	Demonstration	Demonstration for the verification of various technical parameters claimed for the product by the Firm will be required during technical evaluation and also at the time of delivery for technical acceptance. During demonstration equipment will be tested by the Technical Committee in the presence of the bidders.
16.	Terms & Conditions for after Sales Service / maintenance & Spares for maintenance	<ul style="list-style-type: none"> (a) The manufacturer / supplier should be a reputed Firm having suitable repair service centers. (b) Should undertake to provide maintenance / spares support for a period of 8 years including warranty period. (c) Should have team of qualified engineers at service station to undertake prompt and efficient service / maintenance work. (d) Should have ready stock of important modules and spare parts. (e) Should have proven infrastructure including testing tools e.g. digital oscilloscope, spectrum analyzer, RF power meter etc. for repair and maintenance. (f) Bidders should submit sufficient documents to prove their experience in dealing NLJD equipment and its maintenance for a period of minimum 5 years.
17.	Warranty	Two Years

3. POCKET HHMD

TECHNICAL SPECIFICATIONS

1.	Technology	Pulse induction technology, Transmitter / Receiver with automatic instant retune.
2.	Operating Frequency	Approx. 95 kHz \pm 5 kHz
3.	Audio frequency	Approx. 2 kHz.
4.	Weight	Approx. 300 gms.
5.	Operating Voltage /Current	7 to 9 Volt DC, < 50 mA
6.	Power Source & endurance	Standard 9 volt rechargeable / disposable battery provided with charger and battery backup of 24 hours.
7.	Detection Range	a) Should detect a small metal object like Gem clip from a distance of 1 inch. b) Instant response to all metals.
8.	Indicator	a) Audio Visual Alert (with option for earphone) & Vibration (Optional). b) Low Battery indicator.
9.	Power Control	Push Button / Press ON/OFF switch.
10.	Adjustment & provisions	1. Provisions for Audio threshold adjustment. 2. Ear Phone / Recharge Jack.
11.	Safety	Safe for heart pace makers & non-interference with magnetic recording material.
12.	Operating Temperature	- 20° to + 50° C
13.	Weather proofing	Protection against environmental conditions. 98% humidity and water proofing to international standards.
14.	Warranty, After Sales Service and availability of spare parts.	a) Two years minimum warranty. b) Availability of suitable repair service centres and spare parts in major State capitals in the country.

4. RENDER SAFE PROCEDURE (RSP) TOOL KIT FOR DIFFUSION

TECHNICAL SPECIFICATIONS

Sl. No.	Items		Quantity
1.	Doctors Stethoscope	:	01
2.	BP Handle 6" + 1 with BP Blade set	:	01
3.	Scissors 6", 7", 8"	:	01 (each)
4.	Dental Mirrors Length : 6" + 1, 10" + 1 Mirror Dia: 0.75" + 0.25"	:	01 (each)
5.	Scalpel Length : 8"	:	01
6.	Artery Forceps Length : 6" 7", 8" 9"	:	01 (each)
7.	LED Torch with two pencil cells (1 LED Spare incorporated in Torch).	:	01
8.	Torch medium with two cells with Krypton Lamps (1 Spare Lamp incorporated in Torch).	:	01
9.	Hammer sledge (2 kg), ball peen, Claw Hammer	:	01 (each)

10.	Pipe wrench 10"	:	01
11.	Hand vice Grip 6"	:	01
12.	Magnifying Glass	:	01
13.	Nipper cutter	:	01
14.	Tin cutter	:	01
15.	Nose Pliers	:	01
16.	Stainless Steel Knife 80 mm Blade	:	01
17.	C Clamp 4", 6", 12"	:	01(each)
18.	Spanner Adjustable 15 + 5, 30 + 5 mm	:	01(each)
19.	Hack Saw 6" with Blade set	:	01
20.	One Screw Driver set consisting of :- a. Flat 2+1, 4+1, 6+1, 8+1, 10+1 mm blade width. b. Flat offset 6+1, 7+1, 10+1 mm Blade width. c. Cross point 150 +5, 200+5, 250+5, 75+5 mm.	:	01 (each) 01 (each) 01 (each)
21.	Hand drill with drill bit set, Electric Drill Machine.	:	01
22.	Spanner 10 piece metric set	:	01
23.	Spanner 10 piece imperial set	:	01
24.	Soldering iron 6" with soldering flux & solder wire 50 gms.	:	01
25.	Sponge holder 10"	:	01
26.	Can opener 6"	:	01
27.	Tape Packaging 3 "/ 50 m and Electric Insulation Tape	:	01
28.	Duct Tape 3 "/50 m	:	01
29.	Nylon Strapping Tape 1" / 50	:	01
30.	Punch 5"	:	01
31.	Cold chisel 6"	:	01
32.	Cold chisel 8"	:	01
33.	Screw driver set (watch maker)	:	01
34.	Screw driver alignment	:	01
35.	Super glue adhesive	:	01
36.	Pliers cutter with grip long point nose	:	01
37.	Pliers cutter / grip combination	:	01
38.	Pliers flat jaw	:	01
39.	Pliers round jaw	:	01
40.	Cutter side 120 +5, 150+5 mm	:	01 (each)
41.	Fish line (50 m) with hook (various sizes)	:	01 (each)
42.	Tweezers 6"	:	01
43.	Probe (straight & angular)	:	01
44.	Wire brush	:	01
45.	EOD multi-tool with crimper (Material : High Strength Aluminum)	:	01
46.	Tape measuring 4 + 1mtr	:	01
47.	Non-metallic probe	:	01
48.	Kevlar hand gloves	:	01
49.	CO ₂ Portable Fire extinguisher 600 gm	:	01
50.	Bar lever spike & cranked chisel ends 445 mm	:	01
51.	Bar lever cranked form & wedge ends 260 mm	:	01
52.	Square driver socket set	:	01
53.	Pick 560 mm head	:	01
54.	Pry bar	:	01

55.	Hand Held Self ignited Propane Gas Torch	:	01
56.	Plastic tweezers 6"	:	01
57.	Scriber double ended	:	01
58.	Glass Cutter	:	01
59.	Measuring tape spool-30m	:	01
60.	Brush Painting Nylon Bristles – 1", 2", 4"	:	01 (each)
61.	Tin / sheet metal Snips / Cutter – 2.5" blade	:	01
62.	Nylon cord 0.04" / 30m	:	01
63.	Plastic knife 6" Blade	:	01
64.	Knitting needle plastic	:	01
65.	Ladder folding 15 ft.	:	01
66.	Digital Multi Meter		01
67.	Swiss Army Knife		01
68.	Fire Extinguisher		02
69.	Misc.: The firm should be able to provide the following, as applicable, along with the equipment. (a) Packing :- All the above tools should be packed in a sturdy casing and / or provided with carrying case. (b) Accessories :- Cleaning Kit. (c) Quality assurance :- All the above tools should confirm ISI standards (preferably ISI marked) and manufactured by standard and reputed companies		

5. BOMB BLANKET

TECHNICAL SPECIFICATIONS

1.	The Bomb Blanket should sustain blast and offer adequate protection against fragments (V50 17 grain steel fragment @ 500 m/s).
2.	The Bomb Blanket should be made with multiple layers of treated KEVLAR, Ballistic Fabric and should confirm to the protection level required and then sewing into a Fire Retardant and Water repellent cover of red colour and Self-Fire Flame proof.
3.	The Bomb Blanket should have strong Nylon web loops near the 4 corners or contain adequate number of eyelets of 1" Dia, along the sides of the Bomb Blanket for the purpose of anchorage / suspension.
4.	Size of Bomb Blanket should be min. 1.5m x 1.5 m.
5.	Weight of Bomb Blanket should be 12 kgs or less.
6.	Should be able to successfully contain a blast of min 100 gms of RDX or equivalent quantity of other High Explosive and 1 Detonator
7.	Warranty – 2 years minimum.
8.	Misc. The firm should be able to provide the following, as applicable, along with the equipment. a) Cleaning kit, if any. b) Technical Manual giving full description of the item (including Parts catalogue where applicable). c) User's Hand Book. d) Literature on preservation technique as applicable. e) Details regarding proof / periodical inspection by the user. f) Spares and tool kit where applicable.

6. EXTENSION SEARCH MIRROR**TECHNICAL SPECIFICATIONS**

1.	Utility	To view inaccessible underneath & overhead areas.
2.	Mirror Type & Size	Good quality plane mirror of 6" x 4" size.
3.	Cushion / package	Proper cushion / packaging of mirror for shock absorption.
4.	Tilt & rotation	Mirror should be properly mounted to allow 60° - 180° angle tilt and 360° angle rotation.
5.	Telescope pole Length & material	Three fold (45-50 cm each) telescopic pole to extend the length up to 150 cm. Aluminium / Brass made with soft handgrip at the end.
6.	Construction	Good quality clamps & locks for segments. Rigid with totally removable mirror.
7.	Warranty	2 years.

7. UNDER VEHICLE SEARCH MIRROR**TECHNICAL SPECIFICATIONS**

1.	Trolley	12" x 24" x 1/2" for rectangular or 15"x15"x1/2" for round mirror, mounted on four nos. Caster wheels of 2" diameter.
2.	Mirror	High quality 12" x 24" rectangular mirror (plane) or 15" diameter for round mirror (Convex-35cm).
3.	Cushion/Package	Proper cushion / packaging of mirror for shock absorption.
4.	Handle	Extendable telescopic rod with 50-120 cm length with rubberized soft handle.
5.	Light	Two cell dry battery torches fitted on telescopic rod near handle.
6.	Features	<ul style="list-style-type: none"> • Light weight • Distinct vision • Adjustable torch mounting • Maintenance free • Cover for mirror
7.	Warranty	2 years.

8. PRODDER (METALLIC).**TECHNICAL SPECIFICATIONS**

1.	Utility	To probe ground and soft soil (flower pot etc.). To dig all kinds of soil for suspected items.
2.	Material	Robust steel.
3.	Handle	Soft rubber grip at 90° - 110° angle.
4.	Total length	Approx. 100 cm including Handle in two folds joined by screw & thread attachment.
5.	Warranty	2 years.
6.	Weight	Light weight

9 OPTICAL FIBRESCOPE

TECHNICAL SPECIFICATIONS

1. Flexible Fiberscope		
a)	Effective Length	: 1500 – 2000 mm
b)	Outside Diameter	: 6 – 8 mm
c)	Adaptor with 60 ⁰ field of view for	: Forwarding viewing. 90 ⁰ side viewing.
d)	Deflection Angle	: 120 ⁰ up / down. 120 ⁰ left / right.
e)	Water and Fuel Proof.	
f)	Protective Crush Resistant, Flexible, Coiled Steel Sheath with PVC coating for optic fibre cable.	
2. Rigid Bore scope		
a)	Effective Length	: 600 mm to 700 mm
b)	Outsider Diameter	: 5 – 6 mm
c)	Adaptor with 60 ⁰ field of view for	: i) Forwarding viewing. ii) 90 ⁰ side viewing.
3. Light Source		
a)	Tungsten halogen lamp with 12V DC / 220V AC mains, 75Watts operation.	
b)	Fan cooled, light with aluminium, housing.	
c)	Standard light guide socket, belt clip, and shoulder strap.	
d)	1 metre length power lead.	
4. Fibre Optic Light Guide		
a)	Effective Length	: 900 mm / 1800 mm
b)	Outsider Diameter	: 4 – 5 mm
c)	Protective, Crush Resistant, Flexible Coiled Steel Sheath with PVC coating.	
5.	Rechargeable Battery	: 12V, 8 Ah, sealed lead acid / Nickel Cadmium
	Battery Charger	: 12V DC regulated output, 220V AC input.
6.	Optional Attachments for recording / viewing of images	: a) Digital Video Camera with adaptors. b) Video Monitor with accessories. c) Control Processor Unit.
7. Camera		
a)	Image Sensor	: 1/6” Colour SUPER HAD CCD.
b)	Pixel Count	: Approx. 3,80,000 pixel NTSC or 4,40,000 pixel PAL.
c)	Long Exposure	: Automatic or Manual (30 msec. to 10 sec.).
d)	Housing	: Titanium Standard Steel.
8. Viewing Monitor		
a)	Dimension	: 30 x 15 x 15 cms.
b)	Weight	: 2.5 kgs. Approx.
c)	Construction	: ABS Housing.
d)	LCD Monitor	: 5” – 6” Diagonal integrated TFT Colour LCD.
e)	Microphone	: Integrated high sensitivity microphone.
9. Software		
a)	Operating System	: Real Time Multi-tasking.
b)	User Interface	: Simple drop down menu driven operation.
c)	File manager	: File and folder creation, naming, copying, deletion.
d)	Auto Data	: PC compatible 15 seconds files (WAV format).
e)	Image Control	: Handset Brightness Control – gain and exposure.
f)	Image Management	: Single button freeze frame full or split screen.

g)	Long Exposure	: Automatic or Manual (34 msec. to 8 sec.)
h)	Digital Zoom	: 1X to 3X – continuous and 5 level stepped.
i)	Still Image Format	: Bitmap or JPEG (Super High).
j)	Annotation	: Text and graphic screen overlays and custom logos.
k)	Lamp Control	: Manual brightness and software ON / OFF
l)	Software Update	: Field upgradeable via Floppy / Disk
m)	Remote Control	: PC Control via view
n)	Temperature Warning	: Integrated Camera Temperature Warning System.
10. Operating Environment		
a)	Tip Operating Temp.	: -25 ⁰ to 80 ⁰ C
b)	System Operating Temp.	: -15 ⁰ to 50 ⁰ C
c)	Relative Humidity	: 95% maximum.
d)	Waterproof	: Insertion Tube and Tip.
11. Storage Specifications		
a)	Memory	: 512 MB Internal Flash Memory
b)	Disk Drives	: Compact Flash Type accepts all Memory sizes.
c)	Still Image Storage	: i) BMP uncompressed – 900 KB typical file size. ii) JPEG super high quality – 200 KB typical file size.
d)	Video Recording	: i) MPEG2 – High and low quality settings up to 40 minutes recording. ii) MPEG1 – High, medium and low quality settings up to 90 minutes recording.
e)	Video Output	: S – Video and USB 1.1 Streaming Digital Video.
12.	Carrying Case	: Weather-proof / Shockproof ABS moulded carrying case, lined with protective foam.
13.	Warranty, after sale service & availability of spare parts	: a) 2 years minimum warranty. b) Availability of suitable repair Service Centres & Spare Parts in major State Capitals in the Country. c) Should undertake to provide maintenance / spares support for a period of minimum 5 years.

10. FIBER OPTIC SURVEILLANCE SET WITH IR.

TECHNICAL SPECIFICATIONS

1.	Probe Diameters	8mm
2.	Probe type and flexibility	Flexible probe with multilayer tungsten braid on PU jacket.
3.	Operation	Simple one hand operation.
4.	Effective working length	1.5m
5.	Length of the rigid in front – end probe	20mm /30mm
6.	Field of view	60° or higher
7.	Depth of field	10 mm to infinity
8.	CCD (Charge-Coupled Device)/ CMOS (Complementary Metal Oxide Semiconductor)	1/18, 1/12, 1/10
9.	Camera resolution	High sensitive, black & white CCD with automatic integration.
10.	Lance	Wide angel 1.8 mm or better
11.	Zoom	3.5 x zoom or better
12.	Effective pixels	1,00,000, 4,10,000

13.	Water proof	IP 64, up to IP 68
14.	Test line material	Stainless steel wire bradded
15.	Oriented approach	Single or two handle rotation conduction
16.	Band angle	90°, 120° to view 360 ° up/down/left/right
17.	Tip articulation	4 way
18.	Bending radius	35 mm, 50 mm
19.	Illumination type and power supply control	LED
20.	Illumination intensity	65000 lux
21.	Light source	LED interchangeable eye safe Infra-Red (Invisible in necked eye)
22.	Colour temperature	5600k
23.	Lamp lifetime	More than 1,00,000 hours
24.	Power supply	DC 12V / 1A
25.	Portable battery	Lithium – Ion 12V 3600 MaH
26.	Continuous working time	More than 6 hours
27.	Image display size	4.3 or 5.6-inch LCD Monitor
28.	Image signal output mode	CVBS composite video
29.	Image storage format	JPEG / MPEG
30.	Video storage format	AVI
31.	Storage capacity	8 GB SD Card
32.	Operating temperature	-10 to -55 °
33.	Relative Humidity	30-90% RH
34.	SD card	10 nos. spare detachable SD cards
35.	Carrying case	Hard carrying case for transportation and shockproof.
36.	Spare battery	02 nos. spare batteries.
37.	Battery charger	Should work with 220 V / 230 V AC
38.	Belt set	Belt set should enable comfortable operation.
39.	Warranty	2 years

11. SEARCH KIT MAGNIFIED

TECHNICAL SPECIFICATIONS

Sl. No.	KIT CONTENTS WITH SPECIFICATIONS.
1.	Hand Torch-Right Angle, 2 C Cell (2 per Kit)
2.	Battery Handle Angle.
3.	Fluorescent Lamp- 12 w, socket for endoscope
4.	Illuminated Endoscope 12 Volt Quarts Halogen Lamp.
5.	Illuminated Inspection Mirror.
6.	Telescopic Inspection Mirror.
7.	Spare Mirror Plano Rectangular, Round 140 mm.
8.	Illuminated 8X Magnifier Spare Bulb.
9.	Illuminated Light Probe Nos. 02.
10.	Illuminated Light Probe Semi Flexible.
11.	Safety Light Probe 413 mm, 380 mm
12.	Adjustable Mirror 16 mm and 38 mm.

13.	Recovery Magnet.
14.	Light Probe 16.5 mm.
15.	Light Probe Extension.
16.	Angle Extension.
17.	Bore Viewer Light Probe 1.3 Sleeve 19.5 mm 50 mm Long 8 Optical Magnifications.
18.	Lamp Holder.
19.	Bore Viewers 200 mm Long 4 Optical Magnifications.
20.	Bore Viewer Digital Probe 12 Sleeve 140 mm, 150 mm Long
21.	Long Acrylic Light Guide.
22.	Weight – 15 kg. Approximate.
23.	Warranty- 2 years.

12. EXPLOSIVE DETECTION AND IDENTIFICATION SPRAY KIT

TECHNICAL SPECIFICATIONS

1.	Detection	:	To be used for detection and identification of Group A, Group B and Group C Explosives that are used in improvised explosives as a pre-blast and post blast investigative tool for technical evaluation test in soil remediation on hazardous material. Detection of persons having handled explosives. Detection of explosives on parcels / briefcases, vehicle surface contaminated with explosives during handling and transportation.
2.	Operating Temperature	:	32 to 110 degree F.
3.	Resolution	:	20 Nano grams
4.	Form factor	:	Hand Held Aerosol with paper wipes
5.	Class	:	Chemical reaction
6.	Warranty	:	Minimum 2 years

13. WATER JET DISRUPTOR

TECHNICAL SPECIFICATIONS

1.	Barrel	:	Lightweight Gun Metal alloy or any such approved material.
2.	Length of the barrel	:	At least 15"
3.	Diameter of the barrel	:	40 mm and/or 1" or any such configuration to achieve the tasks laid down below.
4.	Use	:	Should be able to fire various types of projectiles to defeat various situations and should include firing of plain water shot without projectiles. It should be able to defeat various targets like Suitcases, rip apart wooden boxes made out of 12 – 24 mm plywood, pressure cookers and gas cylinders, knock off fuse from small size UXBs (typically 51 mm mortar and grenade), cut Pipe GI of gauge 12-20, cut heavy SWR cable, knock of end caps off pipe bombs etc.
5.	Range	:	Should be able to fire from min 10 cm to at least 30m
6.	Aiming	:	Laser sight and telescopic sight should be provided. It should be able to zero the disruptor using these sights.
7.	Equipment	:	Should be completely recoilless for use in ROV.

8.	Portability	:	Should be possible to be put into use by bomb technician wearing a bomb suit or by a ROV (the attachments to be included with the basic equipment).
9.	Stand	:	A multi-position stand (preferably a tripod) should be provided to able to employ the disruptor in any angle of a sphere and from a min horizontal height of 3 cms to a max horizontal height of at least 1.2m.
10.	Initiation	:	Electric firing.
11.	Water charge	:	Should be able to fire a water charge effectively to disrupt an IED made out of plywood (16 mm and dimensions 1'x1'x1') from a distance of 1m.
12.	Projectiles	:	Various type of projectiles for light cum heavy materials and for use against targets as mentioned in Para 4 above.
13.	Warranty	:	2 years
14.	Accessories	:	<ul style="list-style-type: none"> a. All type of spare projectiles and cartridges for minimum 25 fires (initially) and thereafter for a period of 8 years as and when demanded for procurement. b. All expendables items should be supplied (min 50) with initial issue. c. Empty cartridge tubes for making improvised cartridge (if applicable) should be provided along with the charge. d. Firing device also issued with the equipment set. e. Pelican carrying case with rubberized foam insets.
15.	Misc.	:	<ul style="list-style-type: none"> a. The firm should be able to provide the following, as applicable, along with the equipment :- b. Cleaning kit if any (Sufficient to maintain the equipment for first 30 firing). c. Technical Manual giving full description of the item (including Parts catalogue where applicable). d. User's Hand Book. e. Literature on preservation technique as applicable. f. Details regarding proof / periodical inspection by the user. g. Spares and tool kit where applicable.

14. RADIATION DETECTOR

TECHNICAL SPECIFICATIONS

1.	Utility	<ul style="list-style-type: none"> a. Detection and measurement of <ul style="list-style-type: none"> i. Alpha ii. Beta iii. Gamma and iv. X-rays b. Preferably capability for nuclide identification.
2.	Detection Technique	Geiger-Muller counter or state of the art technologies like NaI, LiI, CsI Scintillation diode, Energy Compensate Si-Diode etc.
3.	Size and Weight	Hand Held Model weighing approx. 130-200 gms.
4.	Measurement Range	<ul style="list-style-type: none"> i. 0.01 μSv/hr – 10 Sv/hr ii. 0.1 m rem – 999 rem

5.	Energy Sensitivity Range	a. Alpha – Up to 2.5 MeV typical detection efficiency. At 3.5 MeV > 80% b. Beta – 150 KeV – 3.5 MeV c. Gamma and X-rays – 20 KeV – 3 MeV
6.	Accuracy of Response	Better than + or - 15%
7.	Display	i. 4 digits Liquid crystal display with mode indications. ii. Graphical display / back lit LCD.
8.	Display Update	Every 60 seconds or less
9.	Alarm	i. Red LED for radiation count. ii. Audio signals for separate alarms / alert levels. iii. Auto alarm sets.
10.	Power Requirements	2 Batteries type AAA Battery operation with typical battery life of 1800hrs or more.
11.	Environmental	Weather / Water resistant casing.
12.	Temperature	-25° C to 55° C.
13.	Humidity	90% (RH) Non- condensing.
14.	RF / EMI Compatibility	IEC / FCC standards.
15.	Warranty	Minimum 2 years

15. REAL TIME VIEWING SYSTEM (RTVS)

TECHNICAL SPECIFICATIONS

1.	The system should be as lightweight in weight as possible. The system should be compact and easy to set up.
2.	All components should be portable.
3.	The system should be able to function with both pulsed and continuous X-Ray source.
4.	Real Time measurement of any object on screen should be possible.
5.	The system should have a laptop based control and display unit along with a compatible video camera unit.
6.	X-Ray Generator should be light in weight and capable of being operated remotely.
7.	The RTVS should be mountable / suspend - able from the ROV and Mini ROV and the mounts be included in the equipment.
8.	To facilitate the offsite study the system should be supported by a hardware and software capable of image recording on a storage media i.e. Floppy, CD, Pen Drive, etc.
9.	The software be menu driven and should facilitate the operator to choose from the wide range of functions provided by the software.
10.	The software should have the facility of zooming the image along with the ability to scroll the full image (200% to 400%).
11.	The system should be able to store minimum 1000 images in its database library with the capability of annotation.
12.	The software should provide image enhancement facilities as under – a) Polarity and Pseudo colouring facility.

	<ul style="list-style-type: none"> b) Brightness & Contrast control. c) Split screen capability. d) Sharpening of images. e) 3D effect of an image. f) Tilting / Rotation of an image. g) On screen measurement facility (both inches and mm). h) Over Lay capability should be supported. i) Multiple Undo / Redo and Restore original functions.
13.	The system should have an option for wireless operation.
14.	For easy field use the system should be operated with rechargeable battery and should have additional facility of operating with AC power supply.
15.	The system should have a battery low – level indicator.
16.	The system should have an Anti-Virus Software to protect stored data.
17.	The system should be capable of operating in the temperature range of -15°C to $+45^{\circ}\text{C}$.
18.	Exposure time for X-Ray (1 – 99 Pulses or better) should be adjustable depending on type of object to be viewed on X-Ray and these controls should be available in the software as well as X-Ray Generator. Accumulation of pulses on Image Capture Unit should be possible.
19.	The laptop should be configured with the latest version of software.
20.	Audio and visual warning during the X-Ray activation should be available.
21.	Image Capture Unit (ICU) should be available in different sizes i.e. small / medium / large (Ranging from 150 mm to 330 mm x 110 mm to 440 mm).
22.	All types of accessories and consumable items required for functioning of the equipment should be available in the market.
23.	<p>Laptop Specifications:</p> <ul style="list-style-type: none"> a) Screen: at least 14" TFT with 1024x768 Resolution, 16.7 million colours, 256 gray levels. b) Processor: i5 or i7. c) Hard Disk: minimum 500 GB or 1 TB, RAM- 2 GB minimum. d) Drives: 3.5" Floppy Drive, CD RW or Higher, Card Slot, USB 2.0 Slots x 2 (or Better Specifications). e) Operating System: Windows 7 or Latest Version. f) Visual Database: Storage of at least 10,000 images including data, user name, date, time, category, place, filename, project name, type of ICU, type of X-Ray and Description. Capability to backup and restore the database. Quick save and project functions. g) Split screen with synchronized scrolling capabilities. h) Built in email access. i) Audible and visual warning during X-Ray activation, incorrect setup, etc.
24.	<p>Misc: The Firm should be able to provide the following, as applicable, along with the equipment –</p> <ul style="list-style-type: none"> a) Technical Manual giving full description of the item. b) User's Hand Book.

	c) Literature on preservation technique, as applicable. d) Specification for packing, handling / transportation / storage. e) Details regarding proof / periodical inspection by the user. f) All the above tools should be packed in a pelican case with wheels and the equipment should fit into space provided inside.
25.	Warranty- 2 years.

16. DEEP SEARCH METAL / MINE DETECTOR

TECHNICAL SPECIFICATIONS

1.	Based on Pulse Technology.
2.	Capable of detecting ferrous and non- ferrous metals.
3.	High detection sensitivity.
4.	Automatic adoption to soil and water condition.
5.	Unaffected by magnetized soil, sea water.
6.	Safe for electrically activated mines
7.	Should be able to discriminate between two metals placed adjacent to each other.
8.	Should be able to detect Metal inside hollow metal pipe.
9.	Should be able to detect Metal in mineralized soils.
10.	Maximum usable detection to be 0.05 gm. Stainless steel at 75 mm.
11.	Pinpointing the target within ± 3 cm.
12.	Adjustable volume control.
13.	Selector switch for static or dynamic operation.
14.	Battery operated.
15.	Low battery indicator.
16.	Weight of Detector is < 2 Kg.
17.	Complete operating weight: 3.5 Kg. Maximum (with batteries).
18.	Rigid Design.
19.	Can operate under all climatic conditions.
20.	Ease of operation, no adjustment or compensation necessary.
21.	Availability of suitable repair service centres and spare parts in major State Capitals in the Country.
22.	Should undertake to provide maintenance / Spares support for a period of minimum 5 years.
23.	2 years minimum warranty.

17. UP GRADATION OF LEGAL INTERCEPTION SYSTEM

Odisha Police requires Hardware and Software up gradation for old Legal Interception System of SIW (which consists one main Server, one Backup Server, One Store and Forward Server and 5 Client systems) to run simultaneously with the new Legal Interception System for interception of all types of Mobile Phones (both within State and outside States), Land Line Phones, DSPT Phones, IMEI Numbers, IMSI Numbers, CRIs., Mobile Internet Services etc. (GSM as well as CDMA) of different Service Providers i.e., BSNL, Airtel, Reliance Vodafone, IDEA, TATA & Aircel Telecom Services Ltd. etc.

Detailed requirement of equipments for up-gradation of existing Legal Interception System with Technical Specifications.

Sl. No.	Items	Quantity	Description / Specifications
1.	Store and Forward Server to be installed at TSPs. end with up gradation of IMS Server.	5 nos.	Servers from reputed Companies (HP/IBM/Dell only) with Intel hex core Xeon CPU, 8 GB RAM or higher, 3x300 GB SAS hard disk in RAID 5, Redundant power supply, Windows 2012 server OS with standard accessories , 1x1 E1 logging board with SS7 and PRI ISDN signalling support, Keyboard, 18.5" Colour TFT Monitor, Mouse with anti-virus software.
2.	Client Workstations (Desktop)	5 nos.	HP/Sony/Dell/Acer PC with Intel Core i-5 Processor, 4 GB RAM (expandable), 500 GB HDD (expandable), 18.5" Colour TFT Monitor, Windows 7 Professional OS, Headphones.
3.	IMS Software and Database	5 nos.	<ul style="list-style-type: none"> ➤ Interception of calls on E1 with SS7 signal link ➤ Interception of Call Related Information (CRI) on Ethernet Port including GPRS data etc. ➤ Forward intercepted information over 2 Mbps leased line to the Monitoring Centre. In case of off line, all the data will be stored. ➤ Interoperability - The IMS Software should work seamlessly with the existing Monitoring Centre database. ➤ Should have password protection facilities. ➤ Should support existing Hardware and Networking equipment.
4.	Client Software	14 nos.	<p>The Client Software should be a Windows based Graphical User Interface(GUI) for monitoring and analysis of intercepted calls (Voice) and Call Related Information (CRI) and have below mentioned features:</p> <ol style="list-style-type: none"> 1. There will be 16 Nos. of Client Work Stations at Monitoring Center (one existing, 5 new Workstations and 10 Client Software to be used with available Workstations). 2. The Software should allow users to listen to the calls in real time. Allow the users to add multiple remarks. 3. The Software should be capable to handle additional Client Workstations (up to 30) in future without any extra payment. 4. Should allow users to monitor calls in offline with transcription feature. 5. Comprehensive searching and sorting features to quickly access the information from the database. 6. Built-in Analytics features with the Unified GUI. <p>a. Visual Link Analysis</p> <ul style="list-style-type: none"> • Up to 6 degree/levels allowing users to directly view/monitor calls between any two nodes seamlessly. • Dynamic filters on edge count, degree count, date, time etc.

			<ul style="list-style-type: none"> • Automatic grouping of calls. b. Time Line Analysis with respect to a specific number. c. Automatic Call Categorization on the basis of pre-defined pairs of number. 7. Support monitoring of Mobile Internet Services like GPRS packet etc. of different Service Providers in the unified GUI. 8. Integration of CRI with Call and storage of call details like called number, Calling number, IMEI, IMSI, and Cellular/Cell site etc. 9. Provisioning for analyzing the pattern of calls including incoming, outgoing and SMS, MMS etc. 10. The Software should allow for simultaneous online listening of calls in real time on all user terminals (Work Stations). 11. Multiple query system for analysis of calls / CDRs etc. received from the store and forward system. 12. Automatic decoding of SMS message received in the CRI / Store Forward system also it should be able to decode SMS in different language (Hindi, Odiya and other regional languages). 13. Facility to take backups of the calls with complete data transcript and voice intercepts on CD and other storage devices. 14. The system should have provision to remove old data as per requirement. 15. System should be capable to analyze and mark conference calls, forwarded calls etc. and tag the CRI with voice content properly. 16. Tools to define complex queries through a user friendly GUI. The administrator should also be able to distribute queries to users so that they can run queries smoothly. 17. The users should be able to view the real time status of active calls while doing any other monitoring activity like transcription etc. 18. The user should be able to select multiple offline calls to be played with time parameter 19. The user should be able to export selected data and calls with simple formats. 20. A separate tool shall also be provided to view the exported data with list, search, sort and play (with features like forward, rewind, amplify, change speed with pitch correction etc.) features. 21. There should be audio-visual pop-up alerts on the user screen whenever a specific target is active in real time. 22. The system Software should be capable of interception more than 2000 targets simultaneously with three months back up and 4000 hours of recordings.
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			<p>23. Should support existing Hardware and Networking equipment.</p> <p>24. The Software customization facilities detailed herewith may be modified in future by Odisha Police as per actual requirements.</p>
5.	Connectivity	As per Network requirements	<ul style="list-style-type: none"> ➤ Each Service Provider shall be connected to Monitoring Centre via dedicated 2 Mbps Leased Line. The number of Service Provider can be increased hence system should be capable of adding new Service Providers in future. ➤ The Leased Lines shall be provided by Odisha Police. ➤ The vendor shall provide necessary Networking equipment for leased lines.
6.	Project Architecture	-	System architecture should be modular allowing for expansion which should be specified by the vendor.
7.	Accessories	As per network requirements	Converters, Cabling (fiber, Cat 6), Patch cords and panels etc.
8.	Miscellaneous	-	<ul style="list-style-type: none"> ➤ The Vendor has to install Hardware and Software at Six Service Providers end and at Monitoring Centre. ➤ All the Operating System (OS) and Database Software with license. ➤ The Vendor shall provide on-site training to administrators and users. ➤ The Vendor shall provide a Resident Engineer for smooth functioning and 24x7 support of Legal Interception System. ➤ Administrator or its assistant of the Monitoring Centre will have to access any type of operation as well as access to the Store and Forward Server installed at TSPs. premises. They should have privilege to create as many as users and administrators, distribution of L.I. numbers, partitioning of L.I. numbers, deletion of calls, provide user name and passwords to its clients etc.
9.	Warranty	-	Minimum 3 Years

GENERAL BID FORM

**Tender Call Notice No.
Tender Document No.IV**

1. Name
Full Address.
Fax No.
Telephone No.
E-mail of the firm.
2. Legal status of the firm.
3. Items for which you have submitted the bid.
4. For which of the items above you are the
Original Equipment Manufacturer (OEM)
5. Give the location and Address of
your factory.
6. For the items listed at (3) above and where
You have submitted the bid but you are not
The OEM, indicate against each of the names
Of the OEM.
7. Kindly confirm by writing ' Yes ' or ' No ' only
that you have been authorized by the respective
OEMs either as dealer or as sale, supply and
Servicing agent in respect of the items you are
not the OEM.
8. Which of the items, you have submitted the
Bids for, will be fully or substantially imported,
Indicate the country to be imported from.

9. Have you enclosed the EMD? If yes, mention the amount and its identifying details.
10. Have you enclosed all the documents and Papers called for in this tender document?
As per **Annexure-C** (please enclose the documents serially as per above Annexure).
11. If the answer to (10) above is No
Which of the documents / papers called for in the tender document have not been enclosed.
(Kindly enclose a list of such documents/papers)
(Use a separate sheet of paper if necessary)
12. Do you have a Post Sales –Servicing Centre in Odisha? If yes, give its Name
Full Address, Fax and Tel. Nos.

Seal and Signature
of the Bidder.

**A.I.G. of Police (Provisioning),
Odisha, Cuttack
Seal and Signature of the
Tender Calling Authority.**

ANNEXURE :-C

**Check List of documents to be enclosed to
General bid Form
(Reference Sl. 23 of General Conditions of contract)**

Sl. No.	Reference SL. of General conditions of contract	Nature and Type of document	Whether enclosed (with page reference)	
1	2	3	4	
			Yes	No
I	1	Proof of OEM (i.e. Certificate issued by Industries department Central excise authorities, Registrar of companies) / Authorised Agent of OEM (i.e. Certificate issued by the OEM)		
II	12	Promotional and Technical literature relating to the items tendered		
III	17	Valid Registration certificate issued under VAT,CST and Income Tax Acts by competent Authorities		
IV	18	IT Returns, Annual VAT and CST Returns, Balance Sheet, P/L a/c and trading a/c (All document mentioned above must relate to the previous year i.e. 2012-13) and PAN Card.		
V	20	a) OVAT Clearance certificate up to March -2013 in case of registered suppliers of Odisha. b) Affidavit in prescribed format by the suppliers of outside Odisha declaring that they have no business in Odisha nor they have any OVAT liability (Annexure-D).		
VI	21	EMD of Rs.----- in shape of BD/BC/NSC/FDR/Postal savings Pass Book		
VII	22	Technical bid (i.e. Tender Document No.V) & Financial bid (i.e. Tender Document No.VI) should be separately sealed in two covers and over them it should be clearly mentioned as Technical / Financial Bid with name of the firm and Signature of the Bidder.		
VIII	36	Proof of past performance regarding supply of tendered item to Government organisation/PSUs i.e. copies of supply order/sale invoice (as per Annexure-“E” in line with special condition of Contract Sl. No.6).		
IX	46	Undertaking to supply spare parts for maintenance of items for 10 years if selected for supplying the tendered item.		

Signature & Seal of the bidder

ANNEXURE-D**PROFORMA FOR SUBMISSION OF AFFIDAVIT IN RUPEES OF TEN OF INDIA NON JUDICIAL STAMP PAPER BY THE FIRMS WHO ARE NOT REGISTERED UNDER ODISHA VAT ACT.**

I _____, Aged _____ About _____ years
 son of Sri _____, the Proprietor _____
 of M/S _____ do hereby solemnly affirm and declares as under:

1. That I am the deponent of this affidavit.
2. That I do hereby declares that I have not been registered under the Odisha Vat Act and have not started any business in the State of Odisha till yet & we have no liability under the Odisha Vat Act.
3. That I swear this affidavit to be produced before the concerned authority for future reference and record.
4. That the facts stated above are true to the best of my knowledge and belief and nothing has been concealed thereon.

Identified

Advocate

Deponent

The above named deponent being identified by Shri _____
 Advocate _____ solemnly affirm and states before me that the
 contents of this affidavit are true to the best of his knowledge.

Dt.

Notary: _____
 (With Seal Stamp)

ANNEXURE-E

**Checklist of documents to be submitted with General Bid form
(as per special Conditions of Contract)**

SL No.	Reference SL of Special condition of contract	Nature and Type of document	Whether enclosed	
1	2	3	4	
1	6	List of names, complete address, Telephone numbers of customers to whom the tendered item had been supplied during last 3 years	Yes	No

Signature and Seal of Bidder.

TECHNICAL BID FORMAT**Tender Call Notice No.****Tender Document No.-V****1. DOOR FRAME METAL DETECTOR (PORTABLE)****TECHNICAL SPECIFICATIONS**

Sl. No.	Items		Whether offered product fulfils the detailed Technical Specifications, Kindly answer. Yes or No only.	Offered specifications and details of deviations if any. (Separate paper indicating details in case of major deviations to be attached)
1.	Technology	Pulse Induction Technology.		
2.	No. of Zones	Multi zones (preferably 6/8 zones)		
3.	Zone Sensitivity & adjustment	All zones individually adjustable		
4.	Metal Detection	I. Should detect Ferrous, Non-ferrous, Ferrite & Alloys II. Uniformity in entire frame area. III. In all orientation and in all possible speed of interception. IV. Pin point detection with identification at correct zone level without interference / false identification of adjacent zone. V. Should detect all metals when person crosses the DFMD with metal and should not give any detection from outside.		
5.	Alarm Signal	Audio Alarm - adjustable.		
6.	False alarm rate	Less than 3%		
7.	People capacity (throughput rate)	Aprox. 60 people per minute.		
8.	a. Inside clear Dimensions	2000 mm X 710 mm X 270 mm		
	b. Outside clear Dimensions.	2270 mm X 950 mm X 340 mm		
	c. Weight	Maximum 40 kg.		
9.	Interference Protection	(i) Should not interfere with adjacent installed DFMDs with a distance of one meter. (ii) Should not be affected by		

		<p>opening / closing of a metallic gate in vicinity.</p> <p>(iii) Should not be affected by heavily reinforced floors / roof tops / walls.</p> <p>(iv) Should not be affected by external R.F. transmission and EMI (Electro Magnetic Interference).</p>		
10.	Power supply	<p>(a) 220 Volt AC 50 Hz Mains</p> <p>(b) 6 V DC / 12 V DC Rechargeable for minimum 10 hours operation with inbuilt charger.</p>		
11.	Calibration	<p>(a) Automatic & Manual</p> <p>(b) Provision for Remote Control Unit for parameter settings.</p>		
12.	Temperature	- 10° C to +55° C		
13.	Humidity	Up to 95 % No condensation		
14.	Control panel	<p>(a) Easily accessible, modular design with standard plugs and connectors.</p> <p>(b) Adjustable Control should be only be activated from a hand wireless remote.</p>		
15.	Construction	Light weight, rigid, laminated side panels and cross piece, ABS Plastic Boots for panel protection and should be waterproof, weather proof and suitable for outdoor location.		
16.	Safety	<p>(a) Should conform to International standards of Safety/Radiations.</p> <p>(b) Should be safe for heart pace makers and pregnant women.</p> <p>(c) Should be data safe.</p>		
17.	Self-diagnostic	User friendly, self-testing diagnostics to identify faulty conditions.		
18.	Warranty, After sale service & availability of spare parts.	<p>(a) 2 years minimum warranty.</p> <p>(b) Availability of suitable repair service centres and spare parts in major State Capitals in the Country.</p> <p>(c) Should undertake to provide maintenance / spares support for a period of minimum 5 years.</p>		

2. NON-LINEAR JUNCTION DETECTOR

GENERAL SPECIFICATIONS

Sl. No.	Items		Whether offered product fulfils the detailed Technical Specifications, Kindly answer. Yes or No only.	Offered specifications and details of deviations if any. (Separate paper indicating details in case of major deviations to be attached)
1.	Weight of Operational Unit	Should not exceed 7 kgs. Including battery		
2.	Telescopic Pole	Should be of collapsible type with a minimum extended length of 100 cms from handgrip to antenna head (probe) and should have firm clamps fasteners.		
3.	Operational Environment	I. Operating Temp.: between 0 ⁰ C to 50 ⁰ C II. Storage Temp.: 20 ⁰ C to 70 ⁰ C II. Humidity: 90% to 95%		
<u>TECHNICAL SPECIFICATIONS</u>				
1.	Technology	State of the art technology using auto Digital Signal Processing (DSP) power control.		
2.	Transmitted Power	RF (Average) Power should not be more than 5W and to be DSP controlled / Manually selected.		
3.	Operating Frequency	Spectrally pure RF fundamental frequency between 850 MHz and 1005 MHz.		
4.	Receiver Sensitivity	-130 dbm or better.		
5.	Transmitter / Receiver Antenna Polarisation	Linear / Circular polarization – transmitter 8 dBi, Receiver – 6 dBi		
6.	Display	i. Display of received signal strength of the second & third harmonic on bar graph / AMOLED (Active Matrix Organic Light Emitting Display) with touch screen. ii. Display of battery status & mode of operation status on control unit panel.		

		ii. Viewing angle – 180 degree.		
7.	Mode of Operation	Should have operational modes on 2 ND & 3 RD harmonics.		
8.	Audio Alarm	Provision for audio alarm through speaker and headphone(s).		
9.	EMI Interference	Should not activate radio controlled devices with operating frequency within HF / VHF range, in close proximity.		
10.	Power Requirement	<ul style="list-style-type: none"> i. Should operate on rechargeable DC power supply ii. Battery charger designed for fast recharging. ii. Battery level status indicator – 3 levels and battery level warning screens at 9 minutes and 60 seconds operating time remaining. Threat indicator located on Antenna Head. 		
11.	Operating Time	Should work continuously for 4 hours at maximum RF power output. Lithium – Ion battery with 7.5 Volt DC, 5000 mAH		
12	Discrimination of Semiconductor Junction & Corrosive / Bimetal Junction	Should be capable to detect and identify semi-conductor & corrosive / bimetal junctions.		
13.	Detection Range	<p>(a) <u>For Dry Soil:</u> Minimum 18 inches with respect to our test piece of semi-conductor or non-linear metallic junction component.</p> <p>(b) <u>For Wet Soil:</u> Minimum 14 inches with respect to our test piece of semi-conductor or non-linear metallic junction component.</p> <p>(c) <u>Under Water:</u> Minimum 10 inches with respect to our test piece of semi-conductor or non-linear metallic junction component.</p> <p>(d) <u>For electronic detection Range –</u> Minimum of 1.0 meter in electronic mode and maximum power (in open space)</p> <p>(e) <u>For Corrosive / Bi metal detection range –</u> Minimum of</p>		

		0.5 meter in corrosive mode and maximum power (in open space)		
14	Operation & Maintenance Manual	(i) Operating Manual and Service Manual should be provided with each unit. (ii) Operator's training should be carried out at the desired place.		
15.	Demonstration	Demonstration for the verification of various technical parameters claimed for the product by the Firm will be required during technical evaluation and also at the time of delivery for technical acceptance. During demonstration equipment will be tested by the Technical Committee in the presence of the bidders.		
16.	Terms & Conditions for after Sales Service / maintenance & Spares for maintenance	a) The manufacturer / supplier should be a reputed Firm having suitable repair service centers. b) Should undertake to provide maintenance / spares support for a period of 8 years including warranty period. c) Should have team of qualified engineers at service station to undertake prompt and efficient service / maintenance work. d) Should have ready stock of important modules and spare parts. e) Should have proven infrastructure including testing tools e.g. digital oscilloscope, spectrum analyzer, RF power meter etc. for repair and maintenance. f) Bidders should submit sufficient documents to prove their experience in dealing NLJD equipment and its maintenance for a period of minimum 5 years.		
17	Warranty	Two Years		

3. POCKET HHMD**TECHNICAL SPECIFICATIONS**

Sl. No.	Items		Whether offered product fulfils the detailed Technical Specifications, Kindly answer. Yes or No only.	Offered specifications and details of deviations if any. (Separate paper indicating details in case of major deviations to be attached)
1.	Technology	Pulse induction technology, Transmitter / Receiver with automatic instant retune.		
2.	Operating Frequency	Approx. 95 kHz \pm 5 kHz		
3.	Audio frequency	Approx. 2 kHz.		
4.	Weight	Approx. 300 gms.		
5.	Operating Voltage /Current	7 to 9 Volt DC, < 50 mA		
6.	Power Source & endurance	Standard 9 volt rechargeable / disposable battery provided with charger and battery backup of 24 hours.		
7.	Detection Range	a) Should detect a small metal object like Gem clip from a distance of 1 inch. b) Instant response to all metals.		
8.	Indicator	a) Audio Visual Alert (with option for earphone) & Vibration (Optional). b) Low Battery indicator.		
9.	Power Control	Push Button / Press ON/OFF switch.		
10.	Adjustment & provisions	1. Provisions for Audio threshold adjustment. 2. Ear Phone / Recharge Jack.		
11.	Safety	Safe for heart pace makers & non-interference with magnetic recording material.		
12.	Operating Temperature	- 20° to + 50° C		
13.	Weather proofing	Protection against environmental conditions. 98% humidity and water proofing to international standards.		
14.	Warranty, After Sales Service and availability of spare parts.	a) Two years minimum warranty. b) Availability of suitable repair service centres and spare parts in major State capitals in the country.		

4. RENDER SAFE PROCEDURE (RSP) TOOL KIT FOR DIFFUSION

TECHNICAL SPECIFICATIONS

Sl. No.	Items	Whether offered product fulfils the detailed Technical Specifications, Kindly answer. Yes or No only.	Offered specifications and details of deviations if any. (Separate paper indicating details in case of major deviations to be attached)
Sl. No.	Items	Quantity	
1.	Doctors Stethoscope	: 01	
2.	BP Handle 6" + 1 with BP Blade set	: 01	
3.	Scissors 6", 7", 8"	: 01 (each)	
4.	Dental Mirrors Length : 6" + 1, 10" + 1 Mirror Dia: 0.75" + 0.25"	: 01 (each)	
5.	Scalpel Length : 8"	: 01	
6.	Artery Forceps Length : 6" 7", 8" 9"	: 01 (each)	
7.	LED Torch with two pencil cells (1 LED Spare incorporated in Torch).	: 01	
8.	Torch medium with two cells with Krypton Lamps (1 Spare Lamp incorporated in Torch).	: 01	
9.	Hammer sledge (2 kg), ball peen, Claw Hammer	: 01 (each)	
10.	Pipe wrench 10"	: 01	
11.	Hand vice Grip 6"	: 01	
12.	Magnifying Glass	: 01	
13.	Nipper cutter	: 01	
14.	Tin cutter	: 01	
15.	Nose Pliers	: 01	
16.	Stainless Steel Knife 80 mm Blade	: 01	
17.	C Clamp 4", 6", 12"	: 01(each)	
18.	Spanner Adjustable 15 + 5, 30 + 5 mm	: 01(each)	
19.	Hack Saw 6" with Blade set	: 01	
20.	One Screw Driver set consisting of :- a. Flat 2+1, 4+1, 6+1, 8+1, 10+1 mm blade width. b. Flat offset 6+1, 7+1, 10+1 mm Blade width. c. Cross point 150 +5, 200+5, 250+5, 75+5 mm.	: 01 (each) 01 (each) 01 (each)	
21.	Hand drill with drill bit set, Electric Drill Machine.	: 01	
22.	Spanner 10 piece metric set	: 01	

23.	Spanner 10 piece imperial set	:	01		
24.	Soldering iron 6" with soldering flux & solder wire 50 gms.	:	01		
25.	Sponge holder 10"	:	01		
26.	Can opener 6"	:	01		
27.	Tape Packaging 3 "/ 50 m and Electric Insulation Tape	:	01		
28.	Duct Tape 3 "/50 m	:	01		
29.	Nylon Strapping Tape 1" / 50	:	01		
30.	Punch 5"	:	01		
31.	Cold chisel 6"	:	01		
32.	Cold chisel 8"	:	01		
33.	Screw driver set (watch maker)	:	01		
34.	Screw driver alignment	:	01		
35.	Super glue adhesive	:	01		
36.	Pliers cutter with grip long point nose	:	01		
37.	Pliers cutter / grip combination	:	01		
38.	Pliers flat jaw	:	01		
39.	Pliers round jaw	:	01		
40.	Cutter side 120 +5, 150+5 mm	:	01 (each)		
41.	Fish line (50 m) with hook (various sizes)	:	01 (each)		
42.	Tweezers 6"	:	01		
43.	Probe (straight & angular)	:	01		
44.	Wire brush	:	01		
45.	EOD multi-tool with crimper (Material : High Strength Aluminum)	:	01		
46.	Tape measuring 4 + 1mtr	:	01		
47.	Non-metallic probe	:	01		
48.	Kevlar hand gloves	:	01		
49.	CO ₂ Portable Fire extinguisher 600 gm	:	01		
50.	Bar lever spike & cranked chisel ends 445 mm	:	01		
51.	Bar lever cranked form & wedge ends 260 mm	:	01		
52.	Square driver socket set	:	01		
53.	Pick 560 mm head	:	01		
54.	Pry bar	:	01		
55.	Hand Held Self ignited Propane Gas Torch	:	01		
56.	Plastic tweezers 6"	:	01		
57.	Scriber double ended	:	01		
58.	Glass Cutter	:	01		
59.	Measuring tape spool-30m	:	01		
60.	Brush Painting Nylon Bristles – 1", 2", 4"	:	01 (each)		
61.	Tin / sheet metal Snips / Cutter – 2.5" blade	:	01		
62.	Nylon cord 0.04" / 30m	:	01		

63.	Plastic knife 6" Blade	:	01		
64.	Knitting needle plastic	:	01		
65.	Ladder folding 15 ft.	:	01		
66.	Digital Multi Meter		01		
67.	Swiss Army Knife		01		
68.	Fire Extinguisher		02		
69.	Misc.: The firm should be able to provide the following, as applicable, along with the equipment. (a) Packing :- All the above tools should be packed in a sturdy casing and / or provided with carrying case (b) Accessories :- Cleaning Kit (c) Quality assurance :- All the above tools should confirm ISI standards (preferably ISI marked) and manufactured by standard and reputed companies				

5. BOMB BLANKET

TECHNICAL SPECIFICATIONS

Sl. No.	Items	Whether offered product fulfils the detailed Technical Specifications, Kindly answer. Yes or No only.	Offered specifications and details of deviations if any. (Separate paper indicating details in case of major deviations to be attached)
1.	The Bomb Blanket should sustain blast and offer adequate protection against fragments (V50 17 grain steel fragment @ 500 m/s).		
2.	The Bomb Blanket should be made with multiple layers of treated KEVLAR, Ballistic Fabric and should confirm to the protection level required and then sewing into a Fire Retardant and Water repellent cover of red colour and Self- Fire Flame proof..		
3.	The Bomb Blanket should have strong Nylon web loops near the 4 corners or contain adequate number of eyelets of 1" Dia, along the sides of the Bomb Blanket for the purpose of anchorage / suspension.		
4.	Size of Bomb Blanket should be min. 1.5m x 1.5 m.		
5.	Weight of Bomb Blanket should be 12 kgs or less.		

6.	Should be able to successfully contain a blast of min 100 gms of RDX or equivalent quantity of other High Explosive and 1 Detonator		
7.	Warranty – 2 years minimum.		
8.	Misc. The firm should be able to provide the following, as applicable, along with the equipment. a) Cleaning kit, if any. b) Technical Manual giving full description of the item (including Parts catalogue where applicable). c) User's Hand Book. d) Literature on preservation technique as applicable. e) Details regarding proof / periodical inspection by the user. f) Spares and tool kit where applicable.		

6. EXTENSION SEARCH MIRROR

TECHNICAL SPECIFICATIONS

Sl. No.	Items		Whether offered product fulfils the detailed Technical Specifications, Kindly answer. Yes or No only.	Offered specifications and details of deviations if any. (Separate paper indicating details in case of major deviations to be attached)
1.	Utility	To view inaccessible underneath & overhead areas.		
2.	Mirror Type & Size	Good quality plane mirror of 6" x 4" size.		
3.	Cushion / package	Proper cushion / packaging of mirror for shock absorption.		
4.	Tilt & rotation	Mirror should be properly mounted to allow 60° - 180° angle tilt and 360° angle rotation.		
5.	Telescope pole Length & material	Three fold (45-50 cm each) telescopic pole to extend the length up to 150 cm. Aluminium / Brass made with soft handgrip at the end.		
6.	Construction	Good quality clamps & locks for segments. Rigid with totally removable mirror.		
7.	Warranty	2 years.		

7. UNDER VEHICLE SEARCH MIRROR**TECHNICAL SPECIFICATIONS**

Sl. No.	Items		Whether offered product fulfils the detailed Technical Specifications, Kindly answer. Yes or No only.	Offered specifications and details of deviations if any. (Separate paper indicating details in case of major deviations to be attached)
1.	Trolley	12" x 24" x1/2" for rectangular or 15"x15"x1/2" for round mirror, mounted on four nos. Caster wheels of 2" diameter.		
2.	Mirror	High quality 12" x24" rectangular mirror (plane) or 15 "diameter for found mirror (Convex-35cm).		
3.	Cushion/ Package	Proper cushion / packaging of mirror for shock absorption.		
4.	Handle	Extendable telescopic rod with 50-120 cm length with rubberized soft handle.		
5.	Light	Two cell dry battery torches fitted on telescopic rod near handle.		
6.	Features	<ul style="list-style-type: none"> • Light weight • Distinct vision • Adjustable torch mounting • Maintenance free • Cover for mirror 		
7.	Warranty	2 years.		

8. PRODDER (METALLIC).**TECHNICAL SPECIFICATIONS**

Sl. No.	Items		Whether offered product fulfils the detailed Technical Specifications, Kindly answer. Yes or No only.	Offered specifications and details of deviations if any. (Separate paper indicating details in case of major deviations to be attached)
1.	Utility	To probe ground and soft soil (flower pot etc.). To dig all kinds of soil for suspected items.		
2.	Material	Robust steel.		
3.	Handle	Soft rubber grip at 90° - 110° angle.		

4.	Total length	Approx. 100 cm including Handle in two folds joined by screw & thread attachment.		
5.	Warranty	2 years.		
6.	Weight	Light weight		

9 OPTICAL FIBRESCOPE

TECHNICAL SPECIFICATIONS

Sl. No.	Items	Whether offered product fulfils the detailed Technical Specifications, Kindly answer. Yes or No only.	Offered specifications and details of deviations if any. (Separate paper indicating details in case of major deviations to be attached)
1.	Flexible Fiberscope		
a)	Effective Length : 1500 – 2000 mm		
b)	Outside Diameter : 6 – 8 mm		
c)	Adaptor with 60° field of view for : Forwarding viewing. 90° side viewing.		
d)	Deflection Angle : 120° up / down. 120° left / right.		
e)	Water and Fuel Proof.		
f)	Protective Crush Resistant, Flexible, Coiled Steel Sheath with PVC coating for optic fibre cable.		
2.	Rigid Bore scope		
a)	Effective Length : 600 mm to 700 mm		
b)	Outsider Diameter : 5 – 6 mm		
c)	Adaptor with 60° field of view for : i) Forwarding viewing. ii) 90° side viewing.		
3.	Light Source		
a)	Tungsten halogen lamp with 12V DC / 220V AC mains, 75Watts operation.		
b)	Fan cooled, light with aluminium, housing.		
c)	Standard light guide socket, belt clip, and shoulder strap.		
d)	1 metre length power lead.		
4.	Fibre Optic Light Guide		
a)	Effective Length : 900 mm / 1800 mm		
b)	Outsider Diameter : 4 – 5 mm		
c)	Protective, Crush Resistant, Flexible Coiled Steel Sheath with PVC coating.		
5.	Rechargeable Battery : 12V, 8 Ah, sealed lead acid / Nickel Cadmium		
	Battery Charger : 12V DC regulated output, 220V AC input.		

6.	Optional Attachments for recording / viewing of images	:	a) Digital Video Camera with adaptors. b) Video Monitor with accessories. c) Control Processor Unit.		
7.	Camera				
a)	Image Sensor	:	1/6" Colour SUPER HAD CCD.		
b)	Pixel Count	:	Approx. 3,80,000 pixel NTSC or 4,40,000 pixel PAL.		
c)	Long Exposure	:	Automatic or Manual (30 msec. to 10 sec.).		
d)	Housing	:	Titanium Standard Steel.		
8.	Viewing Monitor				
a)	Dimension	:	30 x 15 x 15 cms.		
b)	Weight	:	2.5 kgs. Approx.		
c)	Construction	:	ABS Housing.		
d)	LCD Monitor	:	5" – 6" Diagonal integrated TFT Colour LCD.		
e)	Microphone	:	Integrated high sensitivity microphone.		
9.	Software				
a)	Operating System	:	Real Time Multi-tasking.		
b)	User Interface	:	Simple drop down menu driven operation.		
c)	File manager	:	File and folder creation, naming, copying, deletion.		
d)	Auto Data	:	PC compatible 15 seconds files (WAV format).		
e)	Image Control	:	Handset Brightness Control – gain and exposure.		
f)	Image Management	:	Single button freeze frame full or split screen.		
g)	Long Exposure	:	Automatic or Manual (34 msec. to 8 sec.)		
h)	Digital Zoom	:	1X to 3X – continuous and 5 level stepped.		
i)	Still Image Format	:	Bitmap or JPEG (Super High).		
j)	Annotation	:	Text and graphic screen overlays and custom logos.		
k)	Lamp Control	:	Manual brightness and software ON / OFF		
l)	Software Update	:	Field upgradeable via Floppy / Disk		
m)	Remote Control	:	PC Control via view		
n)	Temperature Warning	:	Integrated Camera Temperature Warning System.		

10.	Operating Environment			
a)	Tip Operating Temp.	:	-25 ⁰ to 80 ⁰ C	
b)	System Operating Temp.	:	-15 ⁰ to 50 ⁰ C	
c)	Relative Humidity	:	95% maximum.	
d)	Waterproof	:	Insertion Tube and Tip.	
11.	Storage Specifications			
a)	Memory	:	512 MB Internal Flash Memory	
b)	Disk Drives	:	Compact Flash Type accepts all Memory sizes.	
c)	Still Image Storage	:	i) BMP uncompressed – 900 KB typical file size. ii) JPEG super high quality – 200 KB typical file size.	
d)	Video Recording	:	i) MPEG2 – High and low quality settings up to 40 minutes recording. ii) MPEG1 – High, medium and low quality settings up to 90 minutes recording.	
e)	Video Output	:	S – Video and USB 1.1 Streaming Digital Video.	
12.	Carrying Case	:	Weather-proof / Shockproof ABS moulded carrying case, lined with protective foam.	
13.	Warranty, after sale service & availability of spare parts	:	a) 2 years minimum warranty. b) Availability of suitable repair Service Centres & Spare Parts in major State Capitals in the Country. c) Should undertake to provide maintenance / spares support for a period of minimum 5 years.	

10. FIBER OPTIC SURVEILLANCE SET WITH IR.

TECHNICAL SPECIFICATIONS

Sl. No.	Items		Whether offered product fulfils the detailed Technical Specifications, Kindly answer. Yes or No only.	Offered specifications and details of deviations if any. (Separate paper indicating details in case of major deviations to be attached)
1.	Probe Diameters	8mm		
2.	Probe type and flexibility	Flexible probe with multilayer tungsten braid on PU jacket.		

3.	Operation	Simple one hand operation.		
4.	Effective working length	1.5m		
5.	Length of the rigid in front – end probe	20mm /30mm		
6.	Field of view	60° or higher		
7.	Depth of field	10 mm to infinity		
8.	CCD (Charge-Coupled Device)/ CMOS (Complementary Metal Oxide Semiconductor	1/18, 1/12, 1/10		
9.	Camera resolution	High sensitive, black & white CCD with automatic integration.		
10.	Lance	Wide angel 1.8 mm or better		
11.	Zoom	3.5 x zoom or better		
12.	Effective pixels	1,00,000, 4,10,000		
13.	Water proof	IP 64, up to IP 68		
14.	Test line material	Stainless steel wire bradded		
15.	Oriented approach	Single or two handle rotation conduction		
16.	Band angle	90°, 120° to view 360 ° up/down/left/right		
17.	Tip articulation	4 way		
18.	Bending radius	35 mm, 50 mm		
19.	Illumination type and power supply control	LED		
20.	Illumination intensity	65000 lux		
21.	Light source	LED interchangeable eye safe Infra-Red (Invisible in necked eye)		
22.	Colour temperature	5600k		
23.	Lamp lifetime	More than 1,00,000 hours		
24.	Power supply	DC 12V / 1A		
25.	Portable battery	Lithium – Ion 12V 3600 MaH		
26.	Continuous working time	More than 6 hours		
27.	Image display size	4.3 or 5.6-inch LCD Monitor		
28.	Image signal output mode	CVBS composite video		

29.	Image storage format	JPEG / MPEG		
30.	Video storage format	AVI		
31.	Storage capacity	8 GB SD Card		
32.	Operating temperature	-10 to -55 °		
33.	Relative Humidity	30-90% RH		
34.	SD card	10 nos. spare detachable SD cards		
35.	Carrying case	Hard carrying case for transportation and shockproof.		
36.	Spare battery	02 nos. spare batteries.		
37.	Battery charger	Should work with 220 V / 230 V AC		
38.	Belt set	Belt set should enable comfortable operation.		
39.	Warranty	2 years		

11. SEARCH KIT MAGNIFIED **TECHNICAL SPECIFICATIONS**

Sl. No.	Items	Whether offered product fulfils the detailed Technical Specifications, Kindly answer. Yes or No only.	Offered specifications and details of deviations if any. (Separate paper indicating details in case of major deviations to be attached)
KIT CONTENTS WITH SPECIFICATIONS.			
1.	Hand Torch-Right Angle,2 C Cell(2 per Kit)		
2.	Battery Handle Angle.		
3.	Fluorescent Lamp- 12 w, socket for endoscope		
4.	Illuminated Endoscope 12 Volt Quarts Halogen Lamp.		
5.	Illuminated Inspection Mirror.		
6.	Telescopic Inspection Mirror.		
7.	Spare Mirror Plano Rectangular, Round 140 mm.		
8.	Illuminated 8X Magnifier Spare Bulb.		
9.	Illuminated Light Probe Nos. 02.		
10.	Illuminated Light Probe Semi Flexible.		
11.	Safety Light Probe 413 mm, 380 mm		
12.	Adjustable Mirror 16 mm and 38 mm.		
13.	Recovery Magnet.		

14.	Light Probe 16.5 mm.		
15.	Light Probe Extension.		
16.	Angle Extension.		
17.	Bore Viewer Light Probe 1.3 Sleeve 19.5 mm 50 mm Long 8 Optical Magnifications.		
18.	Lamp Holder.		
19.	Bore Viewers 200 mm Long 4 Optical Magnifications.		
20.	Bore Viewer Digital Probe 12 Sleeve 140 mm, 150 mm Long		
21.	Long Acrylic Light Guide.		
22.	Weight – 15 kg. Approximate.		
23.	Warranty- 2 years.		

12. EXPLOSIVE DETECTION AND IDENTIFICATION SPRAY KIT

TECHNICAL SPECIFICATIONS

Sl. No.	Items		Whether offered product fulfils the detailed Technical Specifications, Kindly answer. Yes or No only.	Offered specifications and details of deviations if any. (Separate paper indicating details in case of major deviations to be attached)
1.	Detection	To be used for detection and identification of Group A, Group B and Group C Explosives that are used in improvised explosives as a pre-blast and post blast investigative tool for technical evaluation test in soil re-mediation on hazardous material. Detection of persons having handled explosives. Detection of explosives on parcels / briefcases, vehicle surface contaminated with explosives during handling and transportation.		
2.	Operating Temperature	32 to 110 degree F.		
3.	Resolution	20 Nano grams		
4.	Form factor	Hand Held Aerosol with paper wipes		
5.	Class	Chemical reaction		
6.	Warranty	Minimum 2 years		

13. WATER JET DISRUPTOR

TECHNICAL SPECIFICATIONS

Sl. No.	Items		Whether offered product fulfils the detailed Technical Specifications, Kindly answer. Yes or No only.	Offered specifications and details of deviations if any. (Separate paper indicating details in case of major deviations to be attached)
1.	Barrel	Lightweight Gun Metal alloy or any such approved material.		
2.	Length of the barrel	At least 15"		
3.	Diameter of the barrel	40 mm and/or 1" or any such configuration to achieve the tasks laid down below.		
4.	Use	Should be able to fire various types of projectiles to defeat various situations and should include firing of plain water shot without projectiles. It should be able to defeat various targets like Suitcases, rip apart wooden boxes made out of 12 – 24 mm plywood, pressure cookers and gas cylinders, knock off fuse from small size UXBs (typically 51 mm mortar and grenade), cut Pipe GI of gauge 12-20, cut heavy SWR cable, knock of end caps off pipe bombs etc.		
5.	Range	Should be able to fire from min 10 cm to at least 30m		
6.	Aiming	Laser sight and telescopic sight should be provided. It should be able to zero the disruptor using these sights.		
7.	Equipment	Should be completely recoilless for use in ROV.		
8.	Portability	Should be possible to be put into use by bomb technician wearing a bomb suit or by a ROV (the attachments to be included with the basic equipment).		
9.	Stand	A multi-position stand (preferably a tripod) should be provided to able to employ the disruptor in any angle of a sphere and from a min horizontal height of 3 cms to a max horizontal height of at least 1.2m.		

10.	Initiation	Electric firing.		
11.	Water charge	Should be able to fire a water charge effectively to disrupt an IED made out of plywood (16 mm and dimensions 1'x1'x1') from a distance of 1m.		
12.	Projectiles	Various type of projectiles for light cum heavy materials and for use against targets as mentioned in Para 4 above.		
13.	Warranty	2 years		
14.	Accessories	<ul style="list-style-type: none"> a. All type of spare projectiles and cartridges for minimum 25 fires (initially) and thereafter for a period of 8 years as and when demanded for procurement. b. All expendables items should be supplied (min 50) with initial issue. c. Empty cartridge tubes for making improvised cartridge (if applicable) should be provided along with the charge. d. Firing device also issued with the equipment set. e. Pelican carrying case with rubberized foam insets. 		
15.	Misc.	<ul style="list-style-type: none"> a. The firm should be able to provide the following, as applicable, along with the equipment :- b. Cleaning kit if any (Sufficient to maintain the equipment for first 30 firing). c. Technical Manual giving full description of the item (including Parts catalogue where applicable). d. User's Hand Book. e. Literature on preservation technique as applicable. f. Details regarding proof / periodical inspection by the user. g. Spares and tool kit where applicable. 		

14. RADIATION DETECTOR **TECHNICAL SPECIFICATIONS**

Sl. No.	Items		Whether offered product fulfils the detailed Technical Specifications, Kindly answer. Yes or No only.	Offered specifications and details of deviations if any. (Separate paper indicating details in case of major deviations to be attached)
1.	Utility	a. Detection and measurement of i. Alpha ii. Beta iii. Gamma and iv. X-rays b. Preferably capability for nuclide identification.		
2.	Detection Technique	Geiger-Muller counter or state of the art technologies like NaI, LiI, CsI Scintillation diode, Energy Compensate Si-Diode etc.		
3.	Size and Weight	Hand Held Model weighing approx. 130-200 gms.		
4.	Measurement Range	i. 0.01 μ Sv/hr – 10 Sv/hr ii. 0.1 m rem – 999 rem		
5.	Energy Sensitivity Range	a. Alpha – Up to 2.5 MeV typical detection efficiency. At 3.5 MeV > 80% b. Beta – 150 KeV – 3.5 MeV c. Gamma and X-rays – 20 KeV – 3 MeV		
6.	Accuracy of Response	Better than + or - 15%		
7.	Display	i. 4 digits Liquid crystal display with mode indications. ii. Graphical display / back lit LCD.		
8.	Display Update	Every 60 seconds or less		
9.	Alarm	i. Red LED for radiation count. ii. Audio signals for separate alarms / alert levels. ii. Auto alarm sets.		
10.	Power Requirements	2 Batteries type AAA Battery operation with typical battery life of 1800hrs or more.		

11.	Environmental	Weather / Water resistant casing.		
12.	Temperature	-25° C to 55° C.		
13.	Humidity	90% (RH) Non- condensing.		
14.	RF / EMI Compatibility	IEC / FCC standards.		
15.	Warranty	Minimum 2 years		

15. REAL TIME VIEWING SYSTEM (RTVS)

TECHNICAL SPECIFICATIONS

Sl. No.	Items	Whether offered product fulfils the detailed Technical Specifications, Kindly answer. Yes or No only.	Offered specifications and details of deviations if any. (Separate paper indicating details in case of major deviations to be attached)
1.	The system should be as lightweight in weight as possible. The system should be compact and easy to set up.		
2.	All components should be portable.		
3.	The system should be able to function with both pulsed and continuous X-Ray source.		
4.	Real Time measurement of any object on screen should be possible.		
5.	The system should have a laptop based control and display unit along with a compatible video camera unit.		
6.	X-Ray Generator should be light in weight and capable of being operated remotely.		
7.	The RTVS should be mountable / suspend - able from the ROV and Mini ROV and the mounts be included in the equipment.		
8.	To facilitate the offsite study the system should be supported by a hardware and software capable of image recording on a storage media i.e. Floppy, CD, Pen Drive, etc.		
9.	The software be menu driven and should facilitate the operator to choose from the wide range of functions provided by the software.		
10.	The software should have the facility of zooming the image along with the ability to scroll the full image (200% to 400%).		
11.	The system should be able to store minimum 1000 images in its database library with the capability of annotation.		

12.	The software should provide image enhancement facilities as under – a) Polarity and Pseudo colouring facility. b) Brightness & Contrast control. c) Split screen capability. d) Sharpening of images. e) 3D effect of an image. f) Tilting / Rotation of an image. g) On screen measurement facility (both inches and mm). h) Over Lay capability should be supported. i) Multiple Undo / Redo and Restore original functions.		
13.	The system should have an option for wireless operation.		
14.	For easy field use the system should be operated with rechargeable battery and should have additional facility of operating with AC power supply.		
15.	The system should have a battery low – level indicator.		
16.	The system should have an Anti-Virus Software to protect stored data.		
17.	The system should be capable of operating in the temperature range of -15 ⁰ C to +45 ⁰ C.		
18.	Exposure time for X-Ray (1 – 99 Pulses or better) should be adjustable depending on type of object to be viewed on X-Ray and these controls should be available in the software as well as X-Ray Generator. Accumulation of pulses on Image Capture Unit should be possible.		
19.	The laptop should be configured with the latest version of software.		
20.	Audio and visual warning during the X-Ray activation should be available.		
21.	Image Capture Unit (ICU) should be available in different sizes i.e. small / medium / large (Ranging from 150 mm to 330 mm x 110 mm to 440 mm).		
22.	All types of accessories and consumable items required for functioning of the equipment should be available in the market.		
23.	Laptop Specifications: a) Screen: at least 14” TFT with 1024x768		

	<p>Resolution, 16.7 million colours, 256 gray levels.</p> <p>b) Processor: i5 or i7.</p> <p>c) Hard Disk: minimum 500 GB or 1 TB, RAM- 2 GB minimum.</p> <p>d) Drives: 3.5" Floppy Drive, CD RW or Higher, Card Slot, USB 2.0 Slots x 2 (or Better Specifications).</p> <p>e) Operating System: Windows 7 or Latest Version.</p> <p>f) Visual Database: Storage of at least 10,000 images including data, user name, date, time, category, place, filename, project name, type of ICU, type of X-Ray and Description. Capability to backup and restore the database. Quick save and project functions.</p> <p>g) Split screen with synchronized scrolling capabilities.</p> <p>h) Built in email access.</p> <p>i) Audible and visual warning during X-Ray activation, incorrect setup, etc.</p>		
24.	<p>Misc: The Firm should be able to provide the following, as applicable, along with the equipment –</p> <p>a) Technical Manual giving full description of the item.</p> <p>b) User's Hand Book.</p> <p>c) Literature on preservation technique, as applicable.</p> <p>d) Specification for packing, handling / transportation / storage.</p> <p>e) Details regarding proof / periodical inspection by the user.</p> <p>f) All the above tools should be packed in a pelican case with wheels and the equipment should fit into space provided inside.</p>		
25.	Warranty- 2 years.		

16. DEEP SEARCH METAL / MINE DETECTOR
TECHNICAL SPECIFICATIONS

Sl. No.	Items	Whether offered product fulfils the detailed Technical Specifications, Kindly answer. Yes or No only.	Offered specifications and details of deviations if any. (Separate paper indicating details in case of major deviations to be attached)
1.	Based on Pulse Technology.		
2.	Capable of detecting ferrous and non-ferrous metals.		
3.	High detection sensitivity.		
4.	Automatic adoption to soil and water condition.		
5.	Unaffected by magnetized soil, sea water.		
6.	Safe for electrically activated mines		
7.	Should be able to discriminate between two metals placed adjacent to each other.		
8.	Should be able to detect Metal inside hollow metal pipe.		
9.	Should be able to detect Metal in mineralized soils.		
10.	Maximum usable detection to be 0.05 gm. Stainless steel at 75 mm.		
11.	Pinpointing the target within ± 3 cm.		
12.	Adjustable volume control.		
13.	Selector switch for static or dynamic operation.		
14.	Battery operated.		
15.	Low battery indicator.		
16.	Weight of Detector is < 2 Kg.		
17.	Complete operating weight: 3.5 Kg. Maximum (with batteries).		
18.	Rigid Design.		
19.	Can operate under all climatic conditions.		
20.	Ease of operation, no adjustment or compensation necessary.		
21.	Availability of suitable repair service centres and spare parts in major State Capitals in the Country.		
22.	Should undertake to provide maintenance / Spares support for a period of minimum 5 years.		
23.	2 years minimum warranty.		

17. UP GRADATION OF LEGAL INTERCEPTION SYSTEM

Sl. No.	Items	Whether offered product fulfils the detailed Technical Specifications, Kindly answer. Yes or No only.	Offered specifications and details of deviations if any. (Separate paper indicating details in case of major deviations to be attached)
Technical Specifications			
1.	Store and Forward Server to be installed at TSPs. end with up gradation of IMS Server.	Servers from reputed Companies (HP/IBM/Dell only) with Intel hex core Xeon CPU, 8 GB RAM or higher, 3x300 GB SAS hard disk in RAID 5, Redundant power supply, Windows 2012 server OS with standard accessories , 1x1 E1 logging board with SS7 and PRI ISDN signalling support, Keyboard, 18.5" Colour TFT Monitor, Mouse with anti-virus software.	
2.	Client Workstations (Desktop)	HP/Sony/Dell/Acer PC with Intel Core i-5 Processor, 4 GB RAM (expandable), 500 GB HDD (expandable), 18.5" Colour TFT Monitor, Windows 7 Professional OS, Headphones.	
3.	IMS Software and Database	a. Interception of calls on E1 with SS7 signal link b. Interception of Call Related Information (CRI) on Ethernet Port including GPRS data etc. c. Forward intercepted information over 2 Mbps leased line to the Monitoring Centre. In case of off line, all the data will be stored. d. Interoperability - The IMS Software should work seamlessly with the existing Monitoring Centre database. e. Should have password protection facilities. f. Should support existing Hardware and Networking equipment.	
4.	Client Software	The Client Software should be a Windows based Graphical User Interface(GUI) for monitoring and analysis of intercepted calls (Voice) and Call Related Information (CRI) and have below mentioned features:	

		<ol style="list-style-type: none"> 1. There will be 16 Nos. of Client Work Stations at Monitoring Center (one existing, 5 new Workstations and 10 Client Software to be used with available Workstations). 2. The Software should allow users to listen to the calls in real time. Allow the users to add multiple remarks. 3. The Software should be capable to handle additional Client Workstations (up to 30) in future without any extra payment. 4. Should allow users to monitor calls in offline with transcription feature. 5. Comprehensive searching and sorting features to quickly access the information from the database. 6. Built-in Analytics features with the Unified GUI. <ol style="list-style-type: none"> a. Visual Link Analysis <ul style="list-style-type: none"> • Up to 6 degree/levels allowing users to directly view/monitor calls between any two nodes seamlessly. • Dynamic filters on edge count, degree count, date, time etc. • Automatic grouping of calls. b. Time Line Analysis with respect to a specific number. c. Automatic Call Categorization on the basis of pre-defined pairs of number. 7. Support monitoring of Mobile Internet Services like GPRS packet etc. of different Service Providers in the unified GUI. 8. Integration of CRI with Call and storage of call details like called number, Calling number, IMEI, IMSI, and Cellular/Cell site etc. 9. Provisioning for analyzing the pattern of calls including incoming, outgoing and SMS, MMS etc. 		
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		<ol style="list-style-type: none"> 10. The Software should allow for simultaneous online listening of calls in real time on all user terminals (Work Stations). 11. Multiple query system for analysis of calls / CDRs etc. received from the store and forward system. 12. Automatic decoding of SMS message received in the CRI / Store Forward system also it should able to decode SMS in different language (Hindi, Odiya and other regional languages). 13. Facility to take backups of the calls with complete data transcript and voice intercepts on CD and other storage devices. 14. The system should have provision to remove old data as per requirement. 15. System should capable to analyze and mark conference calls, forwarded calls etc. and tags the CRI with voice content properly. 16. Tools to define complex queries through a user friendly GUI. The administrator should also be able to distribute queries to users so that they can run queries smoothly. 17. The users should be able to view the real time status of active calls while doing any other monitoring activity like transcription etc. 18. The user should be able to select multiple offline calls to be played with time parameter 19. The user should be able to export selected data and calls with simple formats. 20. A separate tool shall also be provided to view the exported data with list, search, sort and play (with features like forward, rewind, amplify, change speed with pitch correction etc.) features. 		
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		<p>21. There should be audio-visual pop-up alerts on the user screen whenever a specific target is active in real time.</p> <p>22. The system Software should be capable of interception more than 2000 targets simultaneously with three months back up and 4000 hours of recordings.</p> <p>23. Should support existing Hardware and Networking equipment.</p> <p>24. The Software customization facilities detailed herewith may be modified in future by Odisha Police as per actual requirements.</p>		
5.	Connectivity	<p>➤ Each Service Provider shall be connected to Monitoring Centre via dedicated 2 Mbps Leased Line. The number of Service Provider can be increased hence system should be capable of adding new Service Providers in future.</p> <p>➤ The Leased Lines shall be provided by Odisha Police.</p> <p>➤ The vendor shall provide necessary Networking equipment for leased lines.</p>		
6.	Project Architecture	System architecture should be modular allowing for expansion which should be specified by the vendor.		
7.	Accessories	Converters, Cabling (fiber, Cat 6), Patch cords and panels etc.		
8.	Miscellaneous	<p>➤ The Vendor has to install Hardware and Software at Six Service Providers end and at Monitoring Centre.</p> <p>➤ All the Operating System (OS) and Database Software with license.</p> <p>➤ The Vendor shall provide on-site training to administrators and users.</p> <p>➤ The Vendor shall provide a Resident Engineer for smooth functioning and 24x7 support of Legal Interception System.</p> <p>➤ Administrator or its assistant of</p>		

		the Monitoring Centre will have to access any type of operation as well as access to the Store and Forward Server installed at TSPs. premises. They should have privilege to create as many as users and administrators, distribution of L.I. numbers, partitioning of L.I. numbers, deletion of calls, provide user name and passwords to its clients etc.		
9.	Warranty	Minimum 3 Years		

Signature and Seal of Bidder.

FINANCIAL BID FORMAT

**Tender Call Notice No.
Tender Document No.-VI**

Name of the Item :

PART-I

1. Name and address of the Bidder.
2. Whether a manufacturer / Authorized Agent.
3. States in which Business run.
4. State from which material would be delivered if found successful in the bid.
5. VAT Registration Number.
6. CST Registration Number.
7. PAN :-
8. Annual Turn over of Previous Financial year.
9. Whether the above Registration Certificates are valid / suspended / cancelled at the time of filing tender.
10. Whether up to date returns under all Acts filed?

PART-II

1. Brand name of the item manufactured / traded : --
2. Basic unit Price : --
3. Excise Duty / Additional Excise Duty @ -- % : --
4. Freight / Transportation Charges :--
5. Loading and Unloading Charges :-
6. Any Other Charges before Delivery :-
7. Central Sales Tax @ -- % :--
8. Odisha Entry Tax @ -- % :--
9. OVAT @ -- % :--
10. Any other Charges

-
11. Gross Price of the Unit to be considered
(Sum total of Sl.1 to 10 of Part-II above)
 12. Total Sum payable for supply of entire bid quantity.
(Mark NA against the Sl. Which is not applicable)

PART-III

1. Terms & Conditions of Delivery
2. Terms and Conditions of Payment
3. Preference for mode of payment of "Performance Security" -

Seal & Signature of the Bidder