

INVITATION OF EXPRESSION OF INTEREST (Eol) FOR NDRF EQUIPMENT

NDRF is the lead federal force responsible for responding to all types of natural and man-made disasters NDRF acknowledge the importance of having reliable equipment to enhance the efficiency and effectiveness of rescue operations.

2. NDRF now intends to procure CBRN equipment for each of its 16 Units/Academy Accordingly, NDRF has prepared a draft technical specification for **Multi Gas Detector (FTIR Principle Based)** NDRF equipment required to enhance the efficiency and effectiveness of rescue operations. The draft specifications are appended as **Appendix- A**.

3. In this context, NDRF invites Expressions of Interest (Eol) from eligible manufacturers, suppliers and vendors to submit their comments and suggestions. In case these specifications do not match with the available equipment in the market, the same may be highlighted and the specification of the equipment available in the market may kindly be provided with the same functionality. The purpose of the Eol document is to provide necessary information to NDRF so that genuine and generalized specifications can be framed and finalized for further procurement, and no gap exists in the specifications of the items available in the market out the specifcness floated in the bid by NDRF.

4. This EOI is not an offer by NDRF or a tender document but it is an invitation to receive responses from eligible manufacturers, suppliers, and vendors in the industry the draft specification framed by NDRF.

5. **Eligibility Criteria:** The minimum eligibility criteria for an entity to participate in the Eol is as follows: -

- i. The entity must be a manufacturer or vendor/supplier/dealer registered in India under relevant applicable Acts and Laws.
- ii. The entity must have some experience in the supply of such equipment.
- iii. NDRF may call manufacturers, suppliers and vendors to conduct the demonstration/field trial of such equipment if needed before finalizing the specification


6. **Documents to be submitted:** The following documents are required to be submitted as part of the response to this Eol.

- i. Documents supporting Eligibility Criteria as mentioned above.
- ii. List of equipment catalog with detailed technical specifications along with estimated cost if possible.

7. Eligible manufacturers, suppliers and vendors who have the competence and experience to carry out such work are requested to submit the Eol along with supporting documents by 13 / 01 / 2025

Important timelines:

Event	Timeline
Last date of submission of responses	<u>13 / 01 / 2025</u> Email:- rd-cell.ndrf@gov.in


(Harvinder Singh)
Second-In-Command (R&D)
HQ NDRF

Bid Document/ बिड दस्तावेज़

Bid Details/बिड विवरण	
Bid End Date/Time/बिड बंद होने की तारीख/समय	13-01-2025 20:00:00
Bid Opening Date/Time/बिड खुलने की तारीख/समय	13-01-2025 20:30:00
Bid Offer Validity (From End Date)/बिड पेशकश वैधता (बंद होने की तारीख से)	30 (Days)
Ministry/State Name/मंत्रालय/राज्य का नाम	Ministry Of Home Affairs
Department Name/विभाग का नाम	Central Armed Police Forces
Organisation Name/संगठन का नाम	National Disaster Response Force (ndrf)
Office Name/कार्यालय का नाम	Hq Ndrf New Delhi
Total Quantity/कुल मात्रा	1
Item Category/मद केटेगरी	Eol for Multi Gas Detector (FTIR)
GeMARPTS में खोजी गई स्ट्रिंग / Searched Strings used in GeMARPTS	Eol for Multi Gas Detector
GeMARPTS में खोजा गया परिणाम / Searched Result generated in GeMARPTS	Multi Gas Detector (V1), Door Frame Metal Detector, HydroCarbon gas detector, Toxic Gas Detector, Single Burner Gas Range (for Deep Fryer), Multi Gas Detector (LEL,O2,H2S and CO/NH3/SO2/C12 Level) with Pump - Combustible Sensor Detector (Catalytic Type) (IOCL), Electric A / C Gas Leak Detector Complete Set Kit for Educational Purpose, Spare / Add On Battery Packs For Transreceiver - Handheld, Smart Gas Transmitter-IS:60079, IS:60529, Multi Crop Thresher
अधिसूचना के लिए चयनित प्रासंगिक श्रेणियाँ / Relevant Categories selected for notification	<ul style="list-style-type: none"> HydroCarbon gas detector Multi Gas Detector (V1) Toxic Gas Detector
MSE Exemption for Years Of Experience/अनुभव के वर्षों से एमएसई छूट/ and Turnover/टर्नओवर के लिए एमएसई को छूट प्राप्त है	Yes
Startup Exemption for Years Of Experience/अनुभव के वर्षों से स्टार्टअप छूट/ and Turnover/ टर्नओवर के लिए स्टार्टअप को छूट प्राप्त है	Yes

Bid Details/बिड विवरण	
Document required from seller/विक्रेता से मांगे गए दस्तावेज़	Certificate (Requested in ATC), OEM Authorization Certificate, OEM Annual Turnover, Additional Doc 1 (Requested in ATC) *In case any bidder is seeking exemption from Experience / Turnover Criteria, the supporting documents to prove his eligibility for exemption must be uploaded for evaluation by the buyer
Do you want to show documents uploaded by bidders to all bidders participated in bid?/	No
Bid to RA enabled/बिड से रिवर्स नीलामी सक्रिय किया	No
Type of Bid/बिड का प्रकार	Single Packet Bid
Time allowed for Technical Clarifications during technical evaluation/तकनीकी मूल्यांकन के दौरान तकनीकी स्पष्टीकरण हेतु अनुमत समय	5 Days
Inspection Required (By Empanelled Inspection Authority / Agencies pre-registered with GeM)	No
Evaluation Method/मूल्यांकन पद्धति	Total value wise evaluation
Arbitration Clause	No
Mediation Clause	No

EMD Detail/ईएमडी विवरण

Required/आवश्यकता	No
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ePBG Detail/ईपीबीजी विवरण

Required/आवश्यकता	No
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MII Purchase Preference/एमआईआई खरीद वरीयता

MII Purchase Preference/एमआईआई खरीद वरीयता	No
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MSE Purchase Preference/एमएसई खरीद वरीयता

MSE Purchase Preference/एमएसई खरीद वरीयता	Yes
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1. If the bidder is a Micro or Small Enterprise as per latest definitions under MSME rules, the bidder shall be exempted from the requirement of "Bidder Turnover" criteria and "Experience Criteria" subject to meeting of quality and technical specifications. If the bidder is OEM of the offered products, it would be exempted from the

"OEM Average Turnover" criteria also subject to meeting of quality and technical specifications. In case any bidder is seeking exemption from Turnover / Experience Criteria, the supporting documents to prove his eligibility for exemption must be uploaded for evaluation by the buyer.

2. If the bidder is a Startup, the bidder shall be exempted from the requirement of "Bidder Turnover" criteria and "Experience Criteria" subject to their meeting of quality and technical specifications. If the bidder is OEM of the offered products, it would be exempted from the "OEM Average Turnover" criteria also subject to meeting of quality and technical specifications. In case any bidder is seeking exemption from Turnover / Experience Criteria, the supporting documents to prove his eligibility for exemption must be uploaded for evaluation by the buyer.

3. Purchase preference will be given to MSEs having valid Udyam Registration and whose credentials are validated online through Udyam Registration portal as defined in Public Procurement Policy for Micro and Small Enterprises (MSEs) Order, 2012 dated 23.03.2012 issued by Ministry of Micro, Small and Medium Enterprises and its subsequent Orders/Notifications issued by concerned Ministry. If the bidder wants to avail themselves of the Purchase preference, the bidder must be the manufacturer / OEM of the offered product on GeM. Traders are excluded from the purview of Public Procurement Policy for Micro and Small Enterprises and hence resellers offering products manufactured by some other OEM are not eligible for any purchase preference. In respect of bid for Services, the bidder must be the Service provider of the offered Service. Relevant documentary evidence in this regard shall be uploaded along with the bid in respect of the offered product or service and Buyer will decide eligibility for purchase preference based on documentary evidence submitted, while evaluating the bid. If L-1 is not an MSE and MSE Seller (s) has / have quoted price within L-1+ 15% (Selected by Buyer) of margin of purchase preference /price band defined in relevant policy, such MSE Seller shall be given opportunity to match L-1 price and contract will be awarded for 25% (selected by Buyer) percentage of total quantity. The buyers are advised to refer the OM No. F.1/4/2021-PPD dated 18.05.2023 [OM No.1 4 2021 PPD dated 18.05.2023](#) for compliance of Concurrent application of Public Procurement Policy for Micro and Small Enterprises Order, 2012 and Public Procurement (Preference to Make in India) Order, 2017. Benefits of MSE will be allowed only if seller is validated on-line in GeM profile as well as validated and approved by Buyer after evaluation of documents submitted.

Pre Bid Detail(s)

Pre-Bid Date and Time	Pre-Bid Venue
31-12-2024 15:00:00	HQ NDRF, 6th Floor, NDCC-II Building, Jai Singh Road, New Delhi

Eol For Multi Gas Detector (FTIR) (1 the number pi)

Technical Specifications/तकनीकी विशिष्टियाँ

Buyer Specification Document/क्रेता विशिष्टि दस्तावेज़	Download
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Consignees/Reporting Officer/परेषिती/रिपोर्टिंग अधिकारी and/ तथा Quantity/मात्रा

S.No./क्र. सं.	Consignee Reporting/Officer/ परेषिती/रिपोर्टिंग अधिकारी	Address/पता	Quantity/मात्रा	Delivery Days/डिलीवरी के दिन
1	Harvinder Singh	110001,HQ DG, NDRF, 6TH FLOOR, NDCC-II BUILDING, JAI SINGH ROAD, NEW DELHI	1	15

Buyer Added Bid Specific Terms and Conditions/क्रेता द्वारा जोड़ी गई बिड की विशेष शर्तें

1. Generic

OPTION CLAUSE: The Purchaser reserves the right to increase or decrease the quantity to be ordered up to 25 percent of bid quantity at the time of placement of contract. The purchaser also reserves the right to increase the ordered quantity by up to 25% of the contracted quantity during the currency of the contract at the contracted rates. Bidders are bound to accept the orders accordingly.

2. Turnover

Bidder Turn Over Criteria: The minimum average annual financial turnover of the bidder during the last three years, ending on 31st March of the previous financial year, should be as indicated in the bid document. Documentary evidence in the form of certified Audited Balance Sheets of relevant periods or a certificate from the Chartered Accountant / Cost Accountant indicating the turnover details for the relevant period shall be uploaded with the bid. In case the date of constitution / incorporation of the bidder is less than 3 year old, the average turnover in respect of the completed financial years after the date of constitution shall be taken into account for this criteria.

Disclaimer/अस्वीकरण

The additional terms and conditions have been incorporated by the Buyer after approval of the Competent Authority in Buyer Organization, whereby Buyer organization is solely responsible for the impact of these clauses on the bidding process, its outcome, and consequences thereof including any eccentricity / restriction arising in the bidding process due to these ATCs and due to modification of technical specifications and / or terms and conditions governing the bid. If any clause(s) is / are incorporated by the Buyer regarding following, the bid and resultant contracts shall be treated as null and void and such bids may be cancelled by GeM at any stage of bidding process without any notice:-

1. Definition of Class I and Class II suppliers in the bid not in line with the extant Order / Office Memorandum issued by DPIIT in this regard.
2. Seeking EMD submission from bidder(s), including via Additional Terms & Conditions, in contravention to exemption provided to such sellers under GeM GTC.
3. Publishing Custom / BOQ bids for items for which regular GeM categories are available without any Category item bunched with it.
4. Creating BoQ bid for single item.
5. Mentioning specific Brand or Make or Model or Manufacturer or Dealer name.
6. Mandating submission of documents in physical form as a pre-requisite to qualify bidders.
7. Floating / creation of work contracts as Custom Bids in Services.
8. Seeking sample with bid or approval of samples during bid evaluation process. (However, in bids for [attached categories](#), trials are allowed as per approved procurement policy of the buyer nodal Ministries)
9. Mandating foreign / international certifications even in case of existence of Indian Standards without specifying equivalent Indian Certification / standards.
10. Seeking experience from specific organization / department / institute only or from foreign / export experience.
11. Creating bid for items from irrelevant categories.
12. Incorporating any clause against the MSME policy and Preference to Make in India Policy.
13. Reference of conditions published on any external site or reference to external documents/clauses.
14. Asking for any Tender fee / Bid Participation fee / Auction fee in case of Bids / Forward Auction, as the case may be.

Further, if any seller has any objection/grievance against these additional clauses or otherwise on any aspect of this bid, they can raise their representation against the same by using the Representation window provided in the bid details field in Seller dashboard after logging in as a seller within 4 days of bid publication on GeM. Buyer is duty bound to reply to all such representations and would not be allowed to open bids if he fails to reply to such representations.

[This Bid is also governed by the General Terms and Conditions/ यह बिड सामान्य शर्तों के अंतर्गत भी शासित है](#)

In terms of GeM GTC clause 26 regarding Restrictions on procurement from a bidder of a country which shares a land border with India, any bidder from a country which shares a land border with India will be eligible to bid in this tender only if the bidder is registered with the Competent Authority. While participating in bid, Bidder has to undertake compliance of this and any false declaration and non-compliance of this would be a ground for immediate termination of the contract and further legal action in accordance with the laws./जेम की सामान्य शर्तों के खंड 26 के संदर्भ में भारत के साथ भूमि सीमा साझा करने वाले देश के बिडर से खरीद पर प्रतिबंध के संबंध में भारत के साथ भूमि सीमा साझा करने वाले देश का कोई भी बिडर इस निविदा में बिड देने के लिए तभी पात्र होगा जब वह बिड देने वाला सक्षम प्राधिकारी के पास पंजीकृत हो। बिड में भाग लेते समय बिडर को इसका अनुपालन करना होगा और कोई भी गलत घोषणा किए जाने व इसका अनुपालन न करने पर अनुबंध को तत्काल समाप्त करने और कानून के अनुसार आगे की कानूनी कार्रवाई का आधार होगा।

---Thank You/धन्यवाद---

SPECIFICATIONS OF MULTI GAS DETECTORS (FTIR Based)

SN	Specification
1.	Fourier Transform Infrared spectroscopy (FTIR) detection principle-based detector able to accurately identify more than 5,000 gases and vapors including TICS, CWAs, VOCs, WMDs, Industrial gases, Solvents, and Hydrocarbons with minimum interferences.
2.	<p>Indicate and display the name: - Detector should be able to indicate and display the names of up to six component chemical gases/vapors simultaneously.</p> <p>The device should search the entire library in real time without need for external computer.</p>
3.	Principle firm manufactures must have IPR on complete Equipment.
4.	<p>The instrument must be handheld and capable of sensing including: -</p> <ul style="list-style-type: none"> a) All nerve agents including V agents. b) Blister agents including Lewisite. c) Blood agents. d) Choking agents. <p>and more than 5,000 gases and vapors including TICS, CWAs, VOCs, WMDs, Industrial gases, Solvents, and Hydrocarbons such as:</p> <p>CWAs (Vapor phase)</p> <ul style="list-style-type: none"> • Cyanogen chloride, GF (cyclo-Sarin) Chemical Warfare Nerve Agent • GF (cyclo-Sarin) Chemical Warfare Nerve Agent, • GA (Tabun) Chemical Warfare Nerve Agent, • GD (Soman) Chemical Warfare Nerve Agent, • GB (Sarin) Chemical Warfare Nerve Agent, • HD (Sulfur Mustard) Chemical Warfare Blister Agent, • L (Lewisite) Chemical Warfare Blister Agent, <p>Acutely Toxic Chemicals, including:</p>

	<p>Sulfur dioxide, Boron trifluoride, Hydrogen sulfide, Phosphorous oxychloride, Hydrobromic acid 48%, Nitrogen dioxide (and N₂O₄ or Dinitrogen tetroxide) Acrolein, Acrylonitrile, Allyl alcohol (Vapor Phase) Dimethylamine solution, Diborane, Hydrazine, GF (cyclo-Sarin) Chemical Warfare Nerve Agent, Formaldehyde solution, 36.5-38.0 wt.% in H₂O, Paraformaldehyde, HD (Sulfur Mustard) Chemical Warfare Blister Agent, Cyanogen chloride (Vapor Phase) Parathion, Methylhydrazine, Methylisocyanate, Carbon monoxide, Bromo methane, Methyl amine, Hydrogen cyanide, Methyl mercaptan, Carbon disulfide, Ethylene oxide, Phosgene (Carbonyl chloride) (Vapor Phase) (+/-)-Propylene oxide, Muriatic Acid (27.9% HCl), Hydrogen fluoride, Ammonia, Nitric Acid, Phosphine,</p> <p>OSHA Highly Hazardous, including: Chemical Warfare Nerve Agent (Vapor Phase), Hydrogen peroxide solution, Muriatic Acid (27.9% HCl), Nitric Acid, Acrolein, Formaldehyde solution (36.5-38.0 wt.% in H₂O), Hydrobromic acid 48%, Iodomethane (Stabilized in Copper Pellet), Isopropylamine, 3-Buten-2-one, Acetaldehyde, Allylamine, Paraformaldehyde, 2-Fluoroethanol, Methacrylonitrile, Thionyl Chloride, Nitromethane, Allyl chloride, Dimethylamine Solution, Arsine, Methacryloyl chloride, Furan, Methyl chloroformate, Methylhydrazine, Methyl trichlorosilane, Ammonia, Bromomethane, Methane oxybis, [Chloro-Trichloronitromethane (Chloropicrin) (Vapor Phase)], Methyl amine, Methylisocyanate, Acryloyl chloride, Boron trichloride, Boron trifluoride, Carbonyl fluoride, Chloromethane, Chloropentafluoroethane, Chlorotrifluoroethylene, Cyanogen, Cyanogen chloride (Vapor Phase), Diborane, Dichlorosilane, Dinitrogen tetroxide, Ethyl nitrite, Ethylene oxide, Hydrogen fluoride, Hydrogen sulfide, Iron pentacarbonyl, Methyl mercaptan, Nickel carbonyl, Nitric oxide, Nitrogen dioxide (and N₂O₄ or Dinitrogen tetroxide), Nitrogen trifluoride, Ozone, Pentaborane, Phosgene (Carbonyl chloride) (Vapor Phase), Phosphine, Phosphorous oxychloride.</p>
5.	Detection Sensitivities
a)	Nerve Agents & VX: (GA, GB, GD, GF, VX)
b)	Blister Agents: (HD& Lewisite)
6.	Response time: - Response time must be < 60 seconds at the above stated concentration.
7.	Recovery time: - Recovery time must be < 03 Minutes at the above stated concentration.
8.	It must sense vapour samples from agents present in the atmosphere in the form of vapours, liquid or aerosol.
9.	Time to be ready: < 05 minutes after switch on.
10.	Must be capable of providing visual alarms for agent class (Nerve, Blister, Blood, Choking and TICs)

	Must be capable of providing GHS symbols, Chemical abstracts number (CAS #), Lower Explosive Limit (LEL), Immediately Dangerous to Life and Health (IDLH), Ionization energy (IE), Photoionization detector (PID) correction factor (CF).
11.	Alarm: - Must be capable of providing audible/visual alarm when chemical initially is detected, as well as provide gas/vapor concentration levels in PPM.
12.	<p>Storage & Connectivity: - The multi gas detector shall be compatible to store the data, capable of storing analysis results of chemicals and sharing via USB and Wi-Fi.</p> <p>Remote data access: Once data has been shared, results are accessible from anywhere via computer or mobile phone through the App, on Android or IOS.</p>
13.	Equipment must not give false alarm in continuous operation of minimum 06 hrs in normal Indian environment.
14.	Interferences: - Adaptive atmospheric compensation algorithm that self-corrects for humidity and temperature to correctly identify gases in environments having humidity from 0-95% non-condensing.
15.	Operating Temperature: - -10 to +45 degree C
16.	Ingress Protection: - IP54+ or more
17.	Operating Time: - Power via rechargeable lithium-ion battery, 3 Hour runtime.
18.	Weight: - The weight of Equipment must< 03 Kgs including battery.
19.	Maintenance must be modular without opening complete Equipment enclosure. Adequate maintenance tool must be provided.
20.	Shelf life: - Shelf life minimum 07 years.
21.	Spare part: - Spare part list, instructions for user, complete equipment schedule and any other relevant documents must be provided.
22.	Software: - Must have provision for software / data library updates.
23.	Warranty: - Must provide warranty of at least 01 year and maintenance support for 07 years.

24.	Documents: - Documentary evidences/ OEM undertakings are required to support the compliance statement wherever applicable.
25.	Accessories: - Simulants be provided with equipment for training purpose. (Min 05 simulants for each equipment)
26.	Carry Case: - Customized ABS (Acrylonitrile Butadiene Styrene) case/Box (rugged and durable) with PU foam layer inside and carrying handle.