

## INVITATION OF EXPRESSION OF INTEREST (EoI) 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 (Raman Spectroscopy 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 (EoI) 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 EoI 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 specificness 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 EoI 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

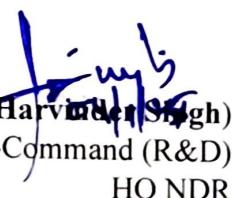
6. **Documents to be submitted:** The following documents are required to be submitted as part of the response to this EoI.

- 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 EoI along with supporting documents by 30/01/2025.

### Important timelines:

Event	Timeline
Last date of submission of responses	<u>30/01/2025</u> Email:- rd-cell.ndrf@gov.in

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

### Bid Document/ बिड दस्तावेज़

Bid Details/बिड विवरण	
<b>Bid End Date/Time/बिड बंद होने की तारीख/समय</b>	30-01-2025 18:00:00
<b>Bid Opening Date/Time/बिड खुलने की तारीख/समय</b>	30-01-2025 18:30:00
<b>Bid Offer Validity (From End Date)/बिड पेशकश वैधता (बंद होने की तारीख से)</b>	180 (Days)
<b>Ministry/State Name/मंत्रालय/राज्य का नाम</b>	Ministry Of Home Affairs
<b>Department Name/विभाग का नाम</b>	Central Armed Police Forces
<b>Organisation Name/संगठन का नाम</b>	National Disaster Response Force (ndrf)
<b>Office Name/कार्यालय का नाम</b>	Hq Ndrf New Delhi
<b>क्रेता ईमेल/Buyer Email</b>	rd-cell.ndrf@gov.in
<b>Total Quantity/कुल मात्रा</b>	1
<b>Item Category/मद केटेगरी</b>	EoI for Multi-Gas Detector - Raman Spectroscopy Based
<b>GeMARPTS में खोजी गई स्ट्रिंग / Searched Strings used in GeMARPTS</b>	EoI for Multi-Gas Detector - Raman Spectroscopy Based
<b>GeMARPTS में खोजा गया परिणाम / Searched Result generated in GeMARPTS</b>	Electric A / C Gas Leak Detector Complete Set Kit for Educational Purpose
<b>अधिसूचना के लिए चयनित प्रासंगिक श्रेणियाँ / Relevant Categories selected for notification</b>	<ul style="list-style-type: none"> <li>HydroCarbon gas detector</li> <li>Multi Gas Detector (V1)</li> <li>Multi Gas Detector (LEL,O2,H2S and CO/NH3/SO2/C12 Level) with Pump - Combustible Sensor Detector (Catalytic Type) (IOCL)</li> </ul>
<b>MSE Exemption for Years Of Experience/अनुभव के वर्षों से एमएसई छूट/ and Turnover/टर्नओवर के लिए एमएसई को छूट प्राप्त है</b>	Yes
<b>Startup Exemption for Years Of Experience/अनुभव के वर्षों से स्टार्टअप छूट/ and Turnover/ टर्नओवर के लिए स्टार्टअप को छूट प्राप्त है</b>	Yes

<b>Bid Details/बिड विवरण</b>	
<b>Document required from seller/विक्रेता से मांगे गए दस्तावेज़</b>	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
<b>Do you want to show documents uploaded by bidders to all bidders participated in bid?/</b>	No
<b>Bid to RA enabled/बिड से रिवर्स नीलामी सक्रिय किया</b>	No
<b>Type of Bid/बिड का प्रकार</b>	Single Packet Bid
<b>Time allowed for Technical Clarifications during technical evaluation/तकनीकी मूल्यांकन के दौरान तकनीकी स्पष्टीकरण हेतु अनुमति समय</b>	5 Days
<b>Inspection Required (By Empanelled Inspection Authority / Agencies pre-registered with GeM)</b>	No
<b>Evaluation Method/मूल्यांकन पद्धति</b>	Total value wise evaluation
<b>Arbitration Clause</b>	No
<b>Mediation Clause</b>	No

#### **EMD Detail/ईएमडी विवरण**

Required/आवश्यकता	No
-------------------	----

#### **ePBG Detail/ईपीबीजी विवरण**

Required/आवश्यकता	No
-------------------	----

#### **MII Purchase Preference/एमआईआई खरीद वरीयता**

MII Purchase Preference/एमआईआई खरीद वरीयता	No
--	----

#### **MSE Purchase Preference/एमएसई खरीद वरीयता**

MSE Purchase Preference/एमएसई खरीद वरीयता	Yes
---	-----

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
16-01-2025 15:00:00	HQ NDRF, 6th Floor, NDCC-II Building, Jai Singh Road, New Delhi

#### EoI For Multi-Gas Detector - Raman Spectroscopy Based ( 1 the number pi )

##### Technical Specifications/तकनीकी विशिष्टियाँ

Buyer Specification Document/क्रेता विशिष्टि दस्तावेज	<a href="#">Download</a>
---	--------------------------

##### Consignees/Reporting Officer/प्रेषिती/रिपोर्टिंग अधिकारी and/ तथा Quantity/मात्रा

S.No./क्र. सं.	Consignee Reporting/Officer/ प्रेषिती/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

OEM Turn Over Criteria: The minimum average annual financial turnover of the OEM of the offered product 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 OEM 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. In case of bunch bids, the OEM of CATEGORY RELATED TO primary product having highest bid value should meet this criterion.

## 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.

**All GeM Sellers / Service Providers are mandated to ensure compliance with all the applicable laws / acts / rules including but not limited to all Labour Laws such as The Minimum Wages Act, 1948, The Payment of Wages Act, 1936, The Payment of Bonus Act, 1965, The Equal Remuneration Act, 1976, The Payment of Gratuity Act, 1972 etc. Any non-compliance will be treated as breach of contract and Buyer may take suitable actions as per GeM Contract.**

[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 नियिदा 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---**

## Raman Spectrometer Specifications

SN	Specifications
1.	<b>Technology:</b> - The instrument must feature a 1064nm laser wavelength.
2.	<b>Capability:</b> - The instrument must provide accurate identification of chemical weapons, explosives, toxic industrial chemicals, common chemicals & precursors chemicals. Including materials that fluoresce such as Non-Traditional Agents (NTAs), Chemical Warfare Agents (CWAs), Polymer based energetics, Oil/Gas/Lubricants, etc.
3.	<p><b>Analysis Algorithms:</b> -</p> <p>The instrument must include a mixture analysis capability that automatically alerts the user to the presence of a mixture and presents the user with the chemical components of the mixture.</p> <p>The mixture analysis must be automatically performed without any additional steps from the user.</p> <p>The instrument must be able to analyse up-to 5-component mixture analysis and present results as such on the screen.</p>
4.	<b>Identification Through Containers:</b> - The instrument must be able to positively identify fluorescent materials that are exposed in free space, contained in plastic bags, transparent containers (colored or dyed, up to 5mm) or glass vials.
5.	<b>Chemical Information:</b> - The instrument must provide the user with additional hazard information after identification. This information should include chemical description, common names or known synonyms.
6.	<p><b>Survivability &amp; Ruggedness:</b> - The instrument must comply with the latest US MIL-STD (810G). (Firms to provide an independent test report of these standards.)</p> <p>The instrument must be operated via ruggedized touch screen display as well as physical buttons.</p> <p>The physical buttons be designed as raised to be used by users wearing protective gloves.</p> <p><b>Ingress Protection:</b> - IP 67 or more</p>
7.	<p><b>Chemical Library Size:</b> - The instrument must include an onboard chemical library with more than 5500 chemicals including library provided by NDRF.</p> <p>The full library must be available for identification on the instrument and must not require connection to an external device/source.</p>
8.	<b>User Libraries:</b> - The instrument must have the capability to create and manage multiple user libraries designed for specific use and different user type accounts.
9.	<b>Language of the Equipment:</b> - English

10.	<b>Threat Categories:</b> - The instrument should display the dangerous chemicals and controlled substances in two different colors (for example, according to their level of threat/alert, caution or controlled status).
11.	<b>Safety Features:</b> - The instrument must allow users to configure a Scan Delay to enable the user to start the scan function but delay the actual start of the laser activation allowing user to operate safely from distance.
12.	<b>Weight:</b> - The instrument must weigh less than 1.5 kg without battery or less than 1.75 kg with battery.
13.	<b>Spectral Range &amp; Resolution:</b> - The instrument must have a broad spectral range of at least 200-2400 Raman shift/cm <sup>-1</sup> or more and spectral resolution of less than 13 cm <sup>-1</sup> and within 6-13 cm <sup>-1</sup> full width at half maximum across the spectral range.
14.	<b>Removable Power Source:</b> - The instrument should have pair of removable rechargeable battery (commercially available).  Battery life: - Minimum of 04 hours under constant use (at room temperature).
15.	<b>Temperature Range:</b> - <b>Operating</b> temperatures from -10C to +50C & <b>Storage</b> temperature range: - from -20to +60C.  To comply MIL-STD (810G) test methods for temperature.  Firms to provide test report from a NABL recognized testing laboratory.
16.	<b>Calibration:</b> - The instrument also must have the ability to run a self-check (of less than 01 min) using a standard material to ensure proper instrument operation.
17.	<b>Reach back facility:</b> - Firm must provide additional live phone support for assistance for spectral interpretation 24x7 which at least should be valid during the warranty period. Firms must have service/ maintenance facility based in India.
18.	<b>Scan Parameter Adjustability:</b> - The instrument's software must include laser power settings from 5 mW up to 490 mW adjustable in 10% steps in auto scan mode and 1% in manual scan mode. <b>(For heat sensitive Chemicals)</b>
19.	<b>Data Export:</b> - The instrument must be able to store all data internally and have the ability to recall data and export results information from the instrument to an external media of different formats (Text file (.txt) and PDF format (.pdf)).
20.	<b>Connectivity:</b> -The instrument must have the ability to connect to a PC via Wi-Fi and/or USB. The instrument must also have the ability to create its own network and connect to another wireless device through a peer-to-peer connection.
21.	<b>Adjustable Nosecone:</b> - The instrument must include a removable, adjustable nose cone for maximum flexibility and sample position optimization.
22.	<b>User Safety:</b> - Instrument should have enclosed Laser Path in which laser beam path is shielded and contained within the instrument.  Firms to provide goggles specifically rated for the wavelength and power of the laser used in the 1068 nm Raman spectrometer.