

**बिड दस्तावेज़ / Bid Document**

| बिड विवरण/Bid Details                                                                                                       |                                                                                       |
|-----------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| बिड बंद होने की तारीख/समय /Bid End Date/Time                                                                                | 28-09-2026 15:00:00                                                                   |
| बिड खुलने की तारीख/समय /Bid Opening Date/Time                                                                               | 29-09-2026 15:00:00                                                                   |
| बिड पेशकश वैधता (बंद होने की तारीख से)/Bid Offer Validity (From End Date)                                                   | 180 (Days)                                                                            |
| मंत्रालय/राज्य का नाम/Ministry/State Name                                                                                   | Kerala                                                                                |
| विभाग का नाम/Department Name                                                                                                | Home Department Kerala                                                                |
| संगठन का नाम/Organisation Name                                                                                              | Police Department                                                                     |
| कार्यालय का नाम/Office Name                                                                                                 | Police Headquarters                                                                   |
| शिकायत निवारण के संपर्क विवरण/ Contact details of Grievance redressal                                                       | HOD Email id :aig2phq.pol@kerala.gov.in<br>Buyer Email id: jsmodphq.pol@kerala.gov.in |
| कुल मात्रा/Total Quantity                                                                                                   | 1                                                                                     |
| वस्तु श्रेणी /Item Category                                                                                                 | Fourier Transform Infra Red (FTIR) Spectrometer (Q2)                                  |
| बिडर का न्यूनतम औसत वार्षिक टर्नओवर (3 वर्षों का) /Minimum Average Annual Turnover of the bidder (For 3 Years)              | 15 Lakh (s)                                                                           |
| मूल उपकरण निर्माता का औसत टर्नओवर (गत 3 वर्षों का)/OEM Average Turnover (Last 3 Years)                                      | 120 Lakh (s)                                                                          |
| उन्हीं/समान सेवा के लिए अपेक्षित विगत अनुभव के वर्ष/Years of Past Experience Required for same/similar service              | 3 Year (s)                                                                            |
| टर्नओवर पात्रता मानदंड/Turnover eligibility criteria                                                                        | To be verified by the buyer at the time of technical evaluation                       |
| एमएसएमई के लिए अनुभव के वर्षों और टर्नओवर से छूट प्रदान की गई है/MSE Relaxation for Years of Experience and Turnover        | No                                                                                    |
| स्टार्टअप के लिए अनुभव के वर्षों और टर्नओवर से छूट प्रदान की गई है /Startup Relaxation for Years of Experience and Turnover | No                                                                                    |

| बिड विवरण/Bid Details                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                             |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| विक्रेता से मांगे गए दस्तावेज़/Document required from seller                                                                                                                                                             | Experience Criteria,Past Performance,Bidder Turnover,Certificate (Requested in ATC),OEM Authorization Certificate,OEM Annual Turnover,Compliance of BoQ specification and supporting document<br>*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 |
| क्या आप निविदाकारों द्वारा अपलोड किए गए दस्तावेजों को निविदा में भाग लेने वाले सभी निविदाकारों को दिखाना चाहते हैं? संदर्भ मेनू है/Do you want to show documents uploaded by bidders to all bidders participated in bid? | Yes (Documents submitted as part of a clarification or representation during the tender/bid process will also be displayed to other participated bidders after log in)                                                                                                                                                                                                                      |
| बिड लगाने की समय सीमा स्वतः नहीं बढ़ाने के लिए आवश्यक बिड की संख्या। / Minimum number of bids required to disable automatic bid extension                                                                                | 3                                                                                                                                                                                                                                                                                                                                                                                           |
| दिनों की संख्या, जिनके लिए बिड लगाने की समय-सीमा बढ़ाई जाएगी। / Number of days for which Bid would be auto-extended                                                                                                      | 4                                                                                                                                                                                                                                                                                                                                                                                           |
| ऑटो एक्सटेंशन अधिकतम कितनी बार किया जाना है। / Number of Auto Extension count                                                                                                                                            | 1                                                                                                                                                                                                                                                                                                                                                                                           |
| विगत प्रदर्शन /Past Performance                                                                                                                                                                                          | 40 %                                                                                                                                                                                                                                                                                                                                                                                        |
| बिड से रिवर्स नीलामी सक्रिय किया/Bid to RA enabled                                                                                                                                                                       | No                                                                                                                                                                                                                                                                                                                                                                                          |
| बिड का प्रकार/Type of Bid                                                                                                                                                                                                | Two Packet Bid                                                                                                                                                                                                                                                                                                                                                                              |
| तकनीकी मूल्यांकन के दौरान तकनीकी स्पष्टीकरण हेतु अनुमत समय /Time allowed for Technical Clarifications during technical evaluation                                                                                        | 2 Days                                                                                                                                                                                                                                                                                                                                                                                      |
| निरीक्षण आवश्यक (सूचीबद्ध निरीक्षण प्राधिकरण /जेम के साथ पूर्व पंजीकृत एजेंसियों द्वारा)/Inspection Required (By Empanelled Inspection Authority / Agencies pre-registered with GeM)                                     | No                                                                                                                                                                                                                                                                                                                                                                                          |
| अनुमानित बिड मूल्य / Estimated Bid Value                                                                                                                                                                                 | 3000000                                                                                                                                                                                                                                                                                                                                                                                     |
| Payment Timelines                                                                                                                                                                                                        | Payments shall be made to the Seller within <b>45</b> days of issue of consignee receipt-cum-acceptance certificate (CRAC) and on-line submission of bills (This is in supersession of 10 days time as provided in clause 12 of GeM GTC)                                                                                                                                                    |
| मूल्यांकन पद्धति/Evaluation Method                                                                                                                                                                                       | Total value wise evaluation                                                                                                                                                                                                                                                                                                                                                                 |
| मध्यस्थता खंड/Arbitration Clause                                                                                                                                                                                         | No                                                                                                                                                                                                                                                                                                                                                                                          |
| सुलह खंड/Mediation Clause                                                                                                                                                                                                | No                                                                                                                                                                                                                                                                                                                                                                                          |

#### ईएमडी विवरण/EMD Detail

|                             |                     |
|-----------------------------|---------------------|
| एडवाइजरी बैंक/Advisory Bank | State Bank of India |
| ईएमडी राशि/EMD Amount       | 30000               |

#### ईपीबीजी विवरण /ePBG Detail

|                                                                   |                     |
|-------------------------------------------------------------------|---------------------|
| एडवाइजरी बैंक/Advisory Bank                                       | State Bank of India |
| ईपीबीजी प्रतिशत (%) /ePBG Percentage(%)                           | 5.00                |
| ईपीबीजी की आवश्यक अवधि (माह) /Duration of ePBG required (Months). | 62                  |

(a). जेम की शर्तों के अनुसार ईएमडी छूट के इच्छुक बिडर को संबंधित केटेगरी के लिए बिड के साथ वैध समर्थित दस्तावेज़ प्रस्तुत करने हैं। एमएसई केटेगरी के अंतर्गत केवल वस्तुओं के लिए विनिर्माता तथा सेवाओं के लिए सेवा प्रदाता ईएमडी से छूट के पात्र हैं। व्यापारियों को इस नीति के दायरे से बाहर रखा गया है।/EMD EXEMPTION: The bidder seeking EMD exemption, must submit the valid supporting document for the relevant category as per GeM GTC with the bid. Under MSE category, only manufacturers for goods and Service Providers for Services are eligible for exemption from EMD. Traders are excluded from the purview of this Policy.

(b).ईएमडी और संपादन जमानत राशि, जहां यह लागू होती है, लाभार्थी के पक्ष में होनी चाहिए। / EMD & Performance security should be in favour of Beneficiary, wherever it is applicable.

(c).ईएमडी और संपादन जमानत राशि लाभार्थी के पक्ष में होनी चाहिए। / Earnest Money Deposit (EMD) shall also be accepted by the buyer in the form of a surety bond.

#### लाभार्थी /Beneficiary :

Junior Supdt  
Police Headquarters, Home Department Kerala, Police Department,  
(Pramod S)

बोली विभाजन लागू नहीं किया गया/ Bid splitting not applied.

#### एमएसई खरीद वरीयता/MSE Purchase Preference

|                                           |    |
|-------------------------------------------|----|
| एमएसई खरीद वरीयता/MSE Purchase Preference | No |
|-------------------------------------------|----|

#### एमआईआई खरीद वरीयता/MII Purchase Preference

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

1. 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 above 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.

2. Experience Criteria: In respect of the filter applied for experience criteria, the Bidder or its OEM of the product offered in the bid {themselves or through reseller(s)} should have regularly, manufactured and supplied same or similar Category Products to any Central / State Govt Organization / PSU for number of Financial years as indicated above in the bid document before the bid opening date. Copies of relevant contracts and delivery

acceptance certificates like CRAC to be submitted along with bid in support of having supplied some quantity during each of the Financial year. In case of bunch bids, the category of primary product having highest value should meet this criterion.

3. 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.

4. Estimated Bid Value indicated above is being declared solely for the purpose of guidance on EMD amount and for determining the Eligibility Criteria related to Turn Over, Past Performance and Project / Past Experience etc. This has no relevance or bearing on the price to be quoted by the bidders and is also not going to have any impact on bid participation. Also this is not going to be used as a criteria in determining reasonableness of quoted prices which would be determined by the buyer based on its own assessment of reasonableness and based on competitive prices received in Bid / RA process.

5. Past Performance: The Bidder or its OEM {themselves or through re-seller(s)} should have supplied same or similar Category Products for 40% of bid quantity, in at least one of the last three Financial years before the bid opening date to any Central / State Govt Organization / PSU. Copies of relevant contracts (proving supply of cumulative order quantity in any one financial year) to be submitted along with bid in support of quantity supplied in the relevant Financial year. In case of bunch bids, the category related to primary product having highest bid value should meet this criterion.

## Fourier Transform Infra Red (FTIR) Spectrometer ( 1 pieces )

### तकनीकी विशिष्टियाँ /Technical Specifications

\* जेम केटेगरी विशिष्टि के अनुसार / As per GeM Category Specification

| विवरण/Specification | विशिष्टि का नाम /Specification Name                                                         | बिड के लिए आवश्यक अनुमत मूल्य /Bid Requirement (Allowed Values)                                      |
|---------------------|---------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|
| OPTICAL PERFORMANCE | Wavenumber- Maximum (Per cm)                                                                | 7800                                                                                                 |
|                     | Wavenumber - Minimum (Per cm)                                                               | 350                                                                                                  |
|                     | Spectral (Wavenumber) Resolution (Per cm)                                                   | 0.25, 0.5                                                                                            |
|                     | Spectral (Wave Number) Accuracy (Per cm) (+/-)                                              | 0.05, 0.1                                                                                            |
|                     | Beam Splitter                                                                               | KBr, ZnSe                                                                                            |
|                     | Automatic beam splitter changeover for MIR to NIR or MIR to FIR without manual intervention | Yes, No                                                                                              |
|                     | Mirror Coating                                                                              | Aluminium, Gold                                                                                      |
|                     | Peak to Peak Signal to Noise Ratio for 1 minute scan                                        | 20000:1 or more, 30000:1 or more, 40000:1 or more, 45000:1 or more, 50000:1 or more, 55000:1 or more |
| DETECTOR            | Detector Type                                                                               | Deuterated L-Alanine doped Triglycine Sulphate (DLaTGS), Deuterated Triglycine Sulphate (DTGS)       |
|                     | Detector having temperature control                                                         | Yes, No                                                                                              |

| विवरण/Specification             | विशिष्टि का नाम /Specification Name                                                              | बिड के लिए आवश्यक अनुमत मूल्य /Bid Requirement (Allowed Values)                                                                                        |
|---------------------------------|--------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|
| LIGHT SOURCE                    | Light Source                                                                                     | Mid IR Source, White Light Source, Steady state infrared emitter, High intensity Ceramic light source, Halogen lamp, Water cooled mercury light source |
| SAMPLE TYPE / ANALYSIS FACILITY | Analyze Liquid samples                                                                           | Yes                                                                                                                                                    |
|                                 | Analyze Solid samples                                                                            | Yes                                                                                                                                                    |
|                                 | Analyze Powder samples                                                                           | Yes                                                                                                                                                    |
|                                 | Analyze thin films on metals samples                                                             | Yes                                                                                                                                                    |
|                                 | Analyze Gas samples                                                                              | Yes, No                                                                                                                                                |
| SOFTWARE                        | Customizable Report Template                                                                     | Yes                                                                                                                                                    |
| FTIR LIBRARIES                  | FTIR Georgian Crime Library - inclusive in the scope of supply                                   | Yes, No                                                                                                                                                |
|                                 | FTIR Canadian Forensic Library - inclusive in the scope of supply                                | Yes, No                                                                                                                                                |
|                                 | FTIR Sadler Drug Library - inclusive in the scope of supply                                      | Yes, No                                                                                                                                                |
|                                 | FTIR Polymers & Polymer additives Library, inclusive in the scope of supply                      | Yes                                                                                                                                                    |
|                                 | FTIR Surfactants Library, inclusive in the scope of supply                                       | Yes                                                                                                                                                    |
|                                 | FTIR Minerals & inorganic Compounds Library, inclusive in the scope of supply                    | Yes                                                                                                                                                    |
|                                 | FTIR Organic Compounds Library, inclusive in the scope of supply                                 | Yes                                                                                                                                                    |
|                                 | FTIR Drugs Library, inclusive in the scope of supply                                             | Yes                                                                                                                                                    |
|                                 | FTIR Adhesives & Sealants Library, inclusive in the scope of supply                              | Yes, No                                                                                                                                                |
|                                 | FTIR Cosmetics & Personal products Library, inclusive in the scope of supply                     | Yes, No                                                                                                                                                |
| ACCESSORIES                     | Suitable Hydraulic Press 15 Ton for pellet/sample preparation - inclusive in the scope of supply | Yes                                                                                                                                                    |

| विवरण/Specification  | विशिष्टि का नाम /Specification Name                                                     | बिड के लिए आवश्यक अनुमत मूल्य /Bid Requirement (Allowed Values) |
|----------------------|-----------------------------------------------------------------------------------------|-----------------------------------------------------------------|
|                      | <b>Suitable Mortar and pestle - inclusive in the scope of supply</b>                    | Yes                                                             |
|                      | <b>Suitable Dies - inclusive in the scope of supply</b>                                 | Yes                                                             |
|                      | <b>Suitable KBr set for Pellets - inclusive in the scope of supply</b>                  | Yes                                                             |
|                      | <b>KBr Powder - inclusive in the scope of supply</b>                                    | Yes                                                             |
|                      | <b>Suitable Pellet holder - inclusive in the scope of supply</b>                        | Yes, No                                                         |
|                      | <b>Types of Suitable ATR - inclusive in the scope of supply</b>                         | Yes                                                             |
|                      | <b>ATR crystal - inclusive in the scope of supply</b>                                   | Diamond                                                         |
|                      | <b>Suitable Universal liquid cell holder - inclusive in the scope of supply</b>         | Yes, No                                                         |
|                      | <b>Suitable Dry Box - inclusive in the scope of supply</b>                              | Yes, No                                                         |
|                      | <b>Suitable Replacement dessicant (rechargeable) - inclusive in the scope of supply</b> | Yes                                                             |
|                      | <b>Suitable Liquid Cell Window - inclusive in the scope of supply</b>                   | Yes, No                                                         |
|                      | <b>Liquid Cell Window material</b>                                                      | KBr, ZnSe, CaF2, CsI, NaCl, KrS5, NA                            |
|                      | <b>Shape of the Cell Window</b>                                                         | Round, Rectangular, NA                                          |
|                      | <b>Suitable Gas cell - inclusive in the scope of supply</b>                             | Yes, No                                                         |
| GENERIC              | <b>FTIR and Sample compartment having provision for purging with gas</b>                | No                                                              |
|                      | <b>FTIR provided with in-built air drier for humidity and vapour protection</b>         | Yes, No                                                         |
|                      | <b>Connectivity</b>                                                                     | USB, WIRELESS, WIFI, ETHERNET, Blue tooth, RS 232               |
| OPERATING CONDITIONS | <b>Minimum Operating Temperature</b>                                                    | 0, 5, 10, 20 <b>(degree Celsius)</b>                            |
|                      | <b>Maximum Operating Temperature</b>                                                    | 30, 40, 45, 50, 55, 60 <b>(degree Celsius)</b>                  |

| विवरण/Specification                          | विशिष्ट का नाम /Specification Name                                                                                                                                               | बिड के लिए आवश्यक अनुमत मूल्य /Bid Requirement (Allowed Values) |
|----------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------|
|                                              | <b>Operating Humidity (RH) (%) at 40 degree C</b>                                                                                                                                | 65, 70, 75, 80, 85, 90, 95 (percent)                            |
| WARRANTY / AVAILABILITY OF SPARES / TRAINING | <b>Warranty on equipment</b>                                                                                                                                                     | 3.0 (year)                                                      |
|                                              | <b>Warranty on Source</b>                                                                                                                                                        | 1, 2, 3, 5, 10 (year)                                           |
|                                              | <b>Warranty on interferometer</b>                                                                                                                                                | 1, 2, 3, 5, 10 (year)                                           |
|                                              | <b>Warranty on Laser</b>                                                                                                                                                         | 1, 2, 3, 5, 10 (year)                                           |
|                                              | <b>Onsite training</b>                                                                                                                                                           | 5, 7, 10, 15 (day)                                              |
| CERTIFICATION                                | <b>Availability of UL/CE Certification as per EN 61010-1:2010 Safety requirements for electrical equipment for measurement, control, and laboratory use General requirements</b> | Yes, No                                                         |
|                                              | <b>Conformance to EMC/EMI as per EN 61326-1:2013 Electrical equipment for measurement, control and laboratory use</b>                                                            | Yes, No                                                         |
|                                              | <b>Availability of Test Reports from Central Govt / NABL approved / ILAC accredited Lab to prove conformity to the specification</b>                                             | Yes, No                                                         |
|                                              | <b>If Yes, Test Report to be furnished to the Buyer on demand</b>                                                                                                                | Yes                                                             |

**Additional Specification Parameters - Fourier Transform Infra Red (FTIR) Spectrometer ( 1 pieces )**

| Specification Parameter Name | Bid Requirement (Allowed Values) |
|------------------------------|----------------------------------|
| added in the ATC             | added in the ATC                 |

\* Bidders offering must also comply with the additional specification parameters mentioned above.

**परेषिती/रिपोर्टिंग अधिकारी तथा मात्रा/Consignees/Reporting Officer and Quantity**

| क्र.सं./S.N o. | परेषिती/रिपोर्टिंग अधिकारी /Consignee Reporting/Officer | पता/Address | मात्रा /Quantity | डिलीवरी के दिन/Delivery Days |
|----------------|---------------------------------------------------------|-------------|------------------|------------------------------|
|----------------|---------------------------------------------------------|-------------|------------------|------------------------------|

| क्र.सं./S.No. | प्रेषिती/रिपोर्टिंग अधिकारी /Consignee Reporting/Officer | पता/Address                                                                               | मात्रा /Quantity | डिलीवरी के दिन/Delivery Days |
|---------------|----------------------------------------------------------|-------------------------------------------------------------------------------------------|------------------|------------------------------|
| 1             | K C Ceynoy                                               | 695033,Opp. South Zone ADGP Office & IGP Trivandrum office, Nandavanam,Thiruvananthapuram | 1                | 20                           |

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

### 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 up to 25% of the contracted quantity during the currency of the contract at the contracted rates. The delivery period of quantity shall commence from the last date of original delivery order and in cases where option clause is exercised during the extended delivery period the additional time shall commence from the last date of extended delivery period. The additional delivery time shall be  $(\text{Increased quantity} \div \text{Original quantity}) \times \text{Original delivery period (in days)}$ , subject to minimum of 30 days. If the original delivery period is less than 30 days, the additional time equals the original delivery period. The Purchaser may extend this calculated delivery duration up to the original delivery period while exercising the option clause. Bidders must comply with these terms.

### 2. Generic

Actual delivery (and Installation & Commissioning (if covered in scope of supply)) is to be done at following address

District  
Forensic  
Science  
Lab  
Kozhikode  
.

### 3. Generic

Bidders shall quote only those products (Part of Service delivery) in the bid which are not obsolete in the market and has at least 5 years residual market life i.e. the offered product shall not be declared end-of-life by the OEM before this period.

### 4. Generic

Experience Criteria: The Bidder or its OEM {themselves or through reseller(s)} should have regularly, manufactured and supplied same or similar Category Products to any Central / State Govt Organization / PSU for 3 years before the bid opening date. Copies of relevant contracts to be submitted along with bid in support of having supplied some quantity during each of the year. In case of bunch bids, the primary product having highest value should meet this criterion.

### 5. Generic

**Manufacturer Authorization:**Wherever Authorised Distributors/service providers are submitting the bid, Authorisation Form /Certificate with OEM/Original Service Provider details such as name, designation, address, e-mail Id and Phone No. required to be furnished along with the bid

### 6. Generic

**Non return of Hard Disk:** As per Buyer organization's Security Policy,Faulty Hard Disk of

Servers/Desktop Computers/ Laptops etc. will not be returned back to the OEM/supplier against warranty replacement.

#### 7. **Generic**

The successful bidder has to supply all essential accessories required for the successful installation and commissioning of the goods supplied. Besides standard accessories as per normal industry practice, following accessories must be part of supply and cost should be included in bid price:

Supply installation and commissioning

.

#### 8. **OEM**

IMPORTED PRODUCTS: In case of imported products, OEM or Authorized Seller of OEM should have a registered office in India to provide after sales service support in India. The certificate to this effect should be submitted.

#### 9. **Forms of EMD and PBG**

Bidders can also submit the EMD with Account Payee Demand Draft in favour of

Assistant Inspector General of Police Procurment  
payable at  
Thiruvananthapuram

.

Bidder has to upload scanned copy / proof of the DD along with bid and has to ensure delivery of hardcopy to the Buyer within 5 days of Bid End date / Bid Opening date.

#### 10. **Forms of EMD and PBG**

Successful Bidder can submit the Performance Security in the form of Account Payee Demand Draft also (besides PBG which is allowed as per GeM GTC). DD should be made in favour of

Assistant Inspector General of Police Procurment  
payable at  
Thiruvananthapuram

. After award of contract, Successful Bidder can upload scanned copy of the DD in place of PBG and has to ensure delivery of hard copy to the original DD to the Buyer within 15 days of award of contract.

#### 11. **Scope of Supply**

Scope of supply (Bid price to include all cost components) : Supply Installation Testing and Commissioning of Goods

#### 12. **Buyer Added Bid Specific ATC**

Buyer uploaded ATC document [Click here to view the file.](#)

#### 13. **Warranty**

Warranty period of the supplied products shall be 5 years from the date of final acceptance of goods or after completion of installation, commissioning & testing of goods (if included in the scope of supply), at consignee location. OEM Warranty certificates must be submitted by Successful Bidder at the time of delivery of Goods. The seller should guarantee the rectification of goods in case of any break down during the guarantee period. Seller should have well established Installation, Commissioning, Training, Troubleshooting and Maintenance Service group in INDIA for attending the after sales service. Details of Service Centres near consignee destinations are to be uploaded along with the bid.

### अस्वीकरण/**Disclaimer**

The Additional Terms and Conditions (ATC) have been incorporated by the Buyer after approval of their

Competent Authority. The Buyer ,is solely responsible for the impact of these clauses on the bidding process, its outcome, and consequences thereof including any restriction arising in the bidding process due to these ATCs and including the modification of technical specifications and / or terms and conditions governing the bid.All representations / grievances pertaining to the ATC clauses shall be raised with the buyer organization directly and not with GeM.If any of the clause(s) is/are incorporated by the Buyer regarding the following, the bid & resultant contract shall be treated as null & void. Further, GeM reserves the right, at its sole discretion, to cancel the bid forthwith, without issuance of any prior notice or intimation :-

1. Publishing Custom / BOQ bids for items for which regular GeM categories are available (unless such Custom / BOQ item is bunched with the major regular product Category Item).
2. Mandating procurement of / from specific Brand / Make / Model / Manufacturer / Dealer except in case of Single Bid / Proprietary Article Certificate (PAC) Buying.
3. Inclusion of disqualification criteria related to suspension of seller / service provider, where such suspension period has already expired.
4. Mandating submission of documents (other than EMD and signed Integrity Pact - which can be submitted within 5 days of bid opening) in physical form as a pre-requisite to qualify bidders.
5. Publishing bids on GeM for procurement of works.
6. Procurement of Goods by creating a Service bid on GeM & vice-versa.
7. Seeking sample with bid or approval of samples during bid evaluation process. However, trial / sample, as the case may be, shall be permitted in cases where trial / sample are allowed as per approved and published procurement policy of the Buyers' controlling Ministry / Department / State / Public Sector Enterprises Headquarters. If there is any violation of trial / sample clause with regard to approved policy of the Buyers' Ministry / Department / State / Public Sector Enterprises Headquarters, then this is to be determined and redressed by the concerned Buyer Organisation only.
8. Seeking experience from specific organization / department / institute only or from foreign / export experience.
9. Creating bid for items from incorrect categories.
10. Reference of conditions published on any external site or reference to external documents/clauses.
11. Asking for any Tender fee / Bid Participation fee, as the case may be.
12. Buyer added ATC Clauses which are in contravention of clauses defined in bid detail section, including specifications, EMD Detail, ePBG Detail and MII and MSE Purchase Preference sections of the bid, unless otherwise allowed by the applicable GeM GTC.
13. Any ATC clause in contravention with GeM GTC Clause 4 (xiii) (h) will be invalid. In case of multiple L1 bidders against a service bid, the buyer shall place the Contract by selection of a bidder amongst the L-1 bidders through a Random Algorithm executed by GeM system.
14. In a category based bid, adding additional items, through buyer added, additional scope of work/ additional terms and conditions/or any other document. If buyer needs more items along with the main item, the same must be added through bunching category based items or by bunching custom catalogues or bunching a BoQ with the main category based item, the same must not be done through ATC or Scope of Work.

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. 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 shall ensure full compliance with all applicable labour laws, including the provisions, rules, schemes and guidelines under the four Labour Codes i.e. the Code on Wages, 2019; the Industrial Relations Code, 2020; the Occupational Safety, Health and Working Conditions Code, 2020; and the Code on Social Security, 2020 as and when notified and brought into force by the Government of India.**

**For all provisions of the Labour Codes that are pending operationalisation through rules, schemes or notifications, the corresponding provisions of the pre-existing labour enactments (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. and relevant State Rules) shall continue to remain applicable.**

**The Seller/ Service Providers shall, therefore, be responsible for ensuring compliance under:**

- All notified and enforceable provisions of the new Labour Codes as mentioned hereinabove; and
- All operative provisions of the erstwhile Labour Laws until their complete substitution.

**All obligations relating to wages, social security, safety, working conditions, industrial relations etc. and any other statutory requirements shall be strictly met by the Seller/ Service Provider. Any non-compliance shall constitute a breach of the contract and shall entitle the Buyer to take appropriate action in accordance with the contract and applicable law.**

**This Bid is governed by the General Terms and Conditions, conditions stipulated in Bid and Service Level Agreement specific to the Service, as the case may be, as provided in the Marketplace.**

**However, in case of Service, if any condition specified in General Terms and Conditions is contradicted by the conditions stipulated in Service Level Agreement specific to said Service, then it will over-ride the conditions in the General Terms and Conditions.**

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

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।/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.

**---धन्यवाद/Thank You---**

**SPECIFICATION OF**  
**FOURIR TRANSFORM INFRARED SPECTROPHOTOMETER (FTIR)**

|                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|-------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b><i>FTIR should be software controlled and fully automated complete system with Mid-IR capability</i></b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Spectral Range                                                                                              | <ul style="list-style-type: none"> <li>• 7800 to 350 cm<sup>-1</sup> or better</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Source                                                                                                      | <ul style="list-style-type: none"> <li>• Source suitable for Spectral range, Long- life source with user replaceable facility</li> <li>• 3 years of warranty/ more</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Spectral resolution                                                                                         | <b>Spectral resolution <math>\leq 0.50\text{cm}^{-1}</math> or better</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Wave number accuracy                                                                                        | $\pm 0.1 \text{ cm}^{-1}$ /better                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Signal to Noise Ratio                                                                                       | at least 60000:1 peak-peak for 1 min scan or better                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Interferometer                                                                                              | <ul style="list-style-type: none"> <li>• Michelson type with 30° incidence angle.</li> <li>• Sealed and airtight with a built-in automatic dryer to remove the moisture inside the interferometer.</li> <li>• Built-in advanced auto-dynamic alignment function and aligned during scanning.</li> <li>• Automatically alignment of the beam splitter, optimized and stable constantly.</li> <li>• Interferometer window plate must be KBr with a moisture-resistant protective coating and user can exchange it.</li> <li>• KRS-5 type window in sample compartment.</li> <li>• 5 years of warranty/more</li> </ul> |
| Beam splitter                                                                                               | Germanium coated KBr beam splitter                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Beam splitter- window                                                                                       | <ul style="list-style-type: none"> <li>• KBr/KRS, KRS window preferred / better</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Light Source                                                                                                | <ul style="list-style-type: none"> <li>• High intensity long life laser source with easy replicability by user</li> <li>• 5 years of warranty/more</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Optics                                                                                                      | <ul style="list-style-type: none"> <li>• Suitable alignment free optics</li> <li>• All should be effectively coated to ensure high performance</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Detector                                                                                                    | <ul style="list-style-type: none"> <li>• DLaTGS/DTGS Detector</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Attenuated Total Reflection (ATR)                                                                           | <ul style="list-style-type: none"> <li>• Single reflectance High-performance Diamond ATR system with all accessories needed for measurement</li> <li>• Should have monolithic diamond crystal plate</li> <li>• Should cover full spectral range for Mid IR measurements (7800 to 350 cm<sup>-1</sup>).</li> </ul>                                                                                                                                                                                                                                                                                                   |
| Desiccant/Instrument                                                                                        | <ul style="list-style-type: none"> <li>• Instrument must come with rechargeable desiccant cartridges with a visible desiccant lifetime indicator/better.</li> <li>• Instrument must have Optics Guard system for extended desiccant life and additional optical component protection. /better</li> </ul>                                                                                                                                                                                                                                                                                                            |

|                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|--------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                          | <ul style="list-style-type: none"> <li>Instrument must have Atmospheric compensation to minimize effect of atmospheric water and carbon dioxide on the sample spectra without the need for reference or calibration spectra/better</li> </ul>                                                                                                                                                                                                                       |
| Purge                    | Instrument should not use with any purge gas                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Software                 | <p>Latest software for measurement and analyses compatible with latest version of Windows Operating system. Detailed description of software features with both experimental and post-experimental analysis.</p> <p>Free update for the software for at least 5 years</p>                                                                                                                                                                                           |
| FTIR Spectral Libraries  | <ul style="list-style-type: none"> <li>Standard Licensed library with more than 10,000 Spectra for Polymers, Organic compounds, Biochemicals, Inorganic compounds and associated compounds and Georgia state crime library/ BIORAD, etc. for Drugs, Narcotics, Poisons, Explosives etc. must be quoted.</li> <li>No pirated libraries will be accepted</li> <li>Library upgradation should also be provided for 5 years after installation free of cost.</li> </ul> |
| Computer & Software      | <ul style="list-style-type: none"> <li>Latest branded PC of suitable configuration (suitable large HD flat panel monitor), with Multifunction ink tank colour printer should be quoted</li> <li>Compatible branded PC with Intel Core i5 processor or higher and minimum 16 GB memory</li> <li>Licensed MS Windows OS</li> </ul>                                                                                                                                    |
| Sample preparation kit   | <ul style="list-style-type: none"> <li>KBr pelleting accessories such as KBr Die (Local die should not be supplied), KBr Pellet press, KBr Powder (IR Spectroscopy grade), agate mortar, pestle and other necessary items for pellet making.</li> <li>Sample holder for solid, liquid and semi solid.</li> </ul>                                                                                                                                                    |
| Application              | <ul style="list-style-type: none"> <li>Analysis of Drugs (NDPS- both legal&amp; illegal) &amp; Poisons, from various types of exhibits in the form of mixtures, crystalline compounds, adsorbed papers, powder, paste, granules, crystalline materials, resins, liquids, etc</li> <li>Analysis of Explosives (High &amp; low), Polymers, Dyes &amp; Inorganic compounds</li> </ul>                                                                                  |
| UPS                      | 3KVA UPS/better. Battery backup for use during power supply failure. Minimum 2 hours back- up. All necessary pre installation requirements for the installation of the ups are under vendor scope.                                                                                                                                                                                                                                                                  |
| Dehumidifier& Hygrometer | Suitable for the installation site                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Accessories              | All accessories for the proper operation of instrument should be                                                                                                                                                                                                                                                                                                                                                                                                    |

|                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|--------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                    | included as standard supply                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Terms & Conditions | <ul style="list-style-type: none"> <li>• System performance should be demonstrated with necessary standards and calibration kits</li> <li>• All system components supplied, should have warranty for three years from date of installation (except mentioned earlier).</li> <li>• List of consumables that are not covered under warranty should be mentioned.</li> <li>• Good technical support should be provided after the installation of the instrument and the service engineer should be able to attend unlimited breakdown calls and should visit the installation site within 24 hours without fail.</li> <li>• Training on troubleshooting the issues associated with instrumentation or application should be provided free of cost whenever required by the user.</li> <li>• Pre- Installation visit should be done</li> <li>• Should provide Calibration as per NABL/ IQ/OQ certificate</li> </ul> |
| Training           | <ul style="list-style-type: none"> <li>• ON SITE and Operated Training for users should be given</li> <li>• Should support the users for to optimize the methods as per the standard methods</li> <li>• Instrumentation and Application Training as and when required free of cost.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |