Tender Document
For
Supply and Installation of Inverted Fluorescence Microscope with Motorized Z-Stack

CSIR-Central Food Technological Research Institute
Mysore– 570 020, Karnataka-India
Tel #: 00 91 821 2515440/5447
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Invitation for e-Bids / Notice Inviting e-Tender

CSIR- Central Food Technological Research Institute, Mysore, India, is one of the premier institutes under the aegis of Council of Scientific and Industrial Research, an autonomous body of the Department of Scientific and Industrial Research (Government of India), New Delhi. CSIR-CFTRI is a Science and knowledge-based Research & Development (R&D) Organization. It is internationally known for its excellence in Scientific Research in Food Science & Technology.

The Director, CSIR-CFTRI invites e-bids from the Manufacturers, their distributors and Indian Agents of Foreign Principals, if any, for the procurement of the following Goods/Services for its day-to-day Research & Development (R&D). The Technical specifications, allied requirements and scope of supply are given in Chapter 4, appended here with.

Sr. No.	Tender No.	Brief Description of item(s)	Quantity	Type of Bid	Mode of Procurement
1	CFTRI/74295/26-27 Date: 18-11-2026	**Inverted Fluorescence Microscope with Motorized Z-Stack** (The Technical specifications, allied requirements and scope of supply are given in Chapter 4)	1 NO	Single Stage Two Bid	Open Tender

1. (a) Only Local Suppliers with prescribed local content as detailed in DPIIT (Ministry of Commerce and Industry, GoI) Order No. P45021/2/2017-PP(BEII)-Part(4)Vol.II dated 19/07/2024, amended from time to time, are eligible for bidding. Bidders must enclose the certificate declaring the local content of supplies as per the format. **CSIR-CFTRI is eligible for the exemption provided by the DPIIT vide OM No. P-45021/2/2017-PP(BE-II)-Part (4) Vol.II Dt. 08.07.2025**
   (b) The Tender Enquiry Document can be downloaded from the Government e-Marketplace (GeM) Portal i.e. https://gem.gov.in. The submission of e-Bids shall be only through the GeM portal. Bids will not be accepted in any other form.

2. Interested Bidders may obtain further information from the office of:

   Controller of Stores & Purchase
   Central Food Technological Research Institute
   Mysore– 570 020, Karnataka-India
   Tel #: 00 91 821 2515440/5447
   Email: cosp.cftri@csir.res.in
   Website: www.cftri.res.in

3. The prospective bidders should adhere to deadlines specified in the Tender Enquiry Document/ corresponding e-Tender portal https://etenders.gov.in.

4. (a) A Pre-Bid Conference (PBC) will be held as mentioned below

Pre-Bid Conference	**Pre Bid Conference (PBC) is scheduled on 02-Dec-2026 at 11-00 AM at CSIR-CFTRI, Mysore (By person/Online)**
Bidders desirous of attending Pre-bid meeting are required to provide the following details: - 1. Prospective Bidders Name & address 2. Name, designation & mobile number of the representative (s) attending the meeting. 3. E-mail ID to which the meeting invitation to be sent in case of online meeting preference 4. Pre-bid queries, if any. The above information should be sent by e-mail to cosp.cftri@csir.res.in /spo.cftri@csir.res.in / shivakumar.cr@csir.res.in/sosp.cftri@csir.res.in on or before 01-12-2026 2.00pm	

a. No Queries, suggestions or representation made after the PBC will be entertained. Changes incorporated to the bidding document subsequent to PBC shall be treated as amendment to the bidding document and will be hosted in the GEM Portal/CFTRI Website www.cftri.res.in

b. **Prospective bidders are requested to take cognizance of the amendments, if any, hosted on CSIR-CFTRI Website and the GeM Portal, before formulating and submitting the bids.**

5. **The Bid prepared by the Bidder shall include the following:**

Bid Securing Declaration (BSD)
A bidder has to furnish/submit BID SECURING DECLARATION as per FORMAT specified in Chapter-8
The Bid Securing Declaration in the name of "The Director, CSIR-Central Food Research Institute, Mysore" to be part of the Technical Bid, without which the bid shall be rejected.

Bid Security (BS) / Earnest Money Deposit (EMD)
If a bidder does not wish to furnish the bid securing declaration, they can alternatively furnish a bid security valid for 45 days beyond the validity of the bid for Rs 1,75,000,00/- or equivalent amount in foreign currency, if it is submitted by a foreign supplier.
The Bid Security/Earnest Money Deposit shall be deposited through Bank Guarantee/Demand Draft/FDR/ Insurance Surety Bonds (ISB) issued by any scheduled bank in India drawn in favor of "The Director, CSIR-CFTRI, Mysore". If the bank guaranty is issued by a foreign bank, then the same should be confirmed by a scheduled commercial bank in India. The original Bid Security/EMD must be delivered to address mentioned at Sl. No.2 above before closure of bid submission date and time as mentioned in "SL.NO -6 failing which, the bid shall be summarily rejected. **For further details, refer Clause No.1.16 of standard Tender document uploaded in CFTRI website**

6. **The Schedule for Submission of e-Bids and Opening of e-Bids is as follows:**

Last Date & Time of Submission of e-Bid		Date and Time of Opening of e-Bid	
Date	Time (IST)	Date	Time (IST)
28-12-2026	15:00 Hrs	29-12-2026	15:00 Hrs

7. **CSIR-CFTRI is a Public Funded Research Institute under the Department of Scientific & Industrial Research, Government of India and concessional Custom duty @ 0/5.15% is applicable for the goods purchased for Research purposes vide Government of India vide Notification No.51/96–Customs dated 23-July-1996, as amended from time to time. CSIR-CFTRI is not eligible to issue any GST concessional rate certificate. GST @ prevailing rate is applicable. Hence, the bidder may submit their bid accordingly.**

8. The bids failing to comply with the following clauses will be summarily rejected.

a. The bidders proposing to supply finished products directly/indirectly from Bidders of Countries sharing the land border with India should submit a copy of registration with the Ministry of Home Affairs and the Ministry of External Affairs. under Rule 144(xi) of the GFR 2017 related to restrictions on participation of Foreign Bidders and their Authorized Indian Agent/Dealer in terms of Order No.P-45021/112/2020-PP(BE-II) (E-43780) dated 24-Aug-2020 of the Ministry of Commerce and Industry, Department for Promotion of Industry and Internal Trade, as amended from time to time as on the date of issue of Order

b. If the products supplied are not sourced from Countries sharing a Land border with India, the bidders should enclose a declaration to this effect as per Annexure-L

9. As per the Government of India Public Procurement policies, the purchaser intents to give purchase/price preference to Class-I local supplier and Micro & Small Enterprises for procurement of goods produced and services rendered by them. It is not applicable in the case of trading activities.

10. Bidders are requested to refer CSIR-CFTRI website www.cftri.res.in for the Other General Tender's Terms and Conditions, which are also an integral part of this tender. [Path: Home Page → Tender → Standard Tender Document (Scrolling Text)

11. The Director, CSIR-CFTRI, Mysore, India, reserves the right to accept or reject any bid or accept bids either in part or in full or to split the order, or to annul the bidding process without assigning any reasons therefor.

Controller of Stores and Purchase
For and on behalf of CSIR

General Instructions to Bidders: - General Instructions to Bidders: -

01. For participation in GeM e-procurement, all bidders need to register themselves on the GeM Portal (https://gem.gov.in). Only enrolled/registered bidders with the said portal shall be allowed to participate in the bidding process.

02. CSIR-CFTRI neither operates nor manages the GeM Portal where online bids are submitted and therefore will not be responsible for any technical issues related to bid submission (viz., not being able to upload bid, blank/missing/part documents etc.,). If bid is incomplete on account of these, it will be treated as such and evaluated further. For any technical queries/issues related to online bid submission, Bidders must directly approach support service of GeM Portal as per the details given on their website.

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CHAPTER – 1

INSTRUCTIONS TO BIDDERS

For details kindly refer Standard Tender Documents uploaded at CSIR-CFTRI website i.e. www.cftri.res.in →Tender

CHAPTER 2

CONDITIONS OF CONTRACT

A. GENERAL CONDITIONS OF CONTRACT (GCC)

Note: The General Conditions of Contract shall form the part of Purchase Order / Contract.

For details kindly refer Standard Tender Documents uploaded at CSIR-CFTRI website i.e. www.cftri.res.in →Tender

B. SPECIAL CONDITIONS OF CONTRACT (SCC)

The following Special Conditions of Contract (SCC) shall supplement and / or amend the General Conditions of Contract (GCC). Whenever there is a conflict, the provisions herein shall prevail over those in the GCC.

Sl.No.	GCC Clause Ref	Condition	
1	GCC 2.1.1(l)	The Purchaser is: The Director CSIR-Central Food Technological Research Institute Mysore– 570 020, Karnataka-India Tel #: 00 91 821 2515440/5447 Email: cosp.cftri@csir.res.in Website: www.cftri.res.in	
2	GCC 2.1.1(m)	The Final Destination is: CSIR-Central Food Technological Research Institute Mysore– 570 020, Karnataka-India Tel #: 00 91 821 2515440/5447 Email: cosp.cftri@csir.res.in Website: www.cftri.res.in	
3	GCC 2.13.1	Performance Security The amount of the Performance Bank Guarantee shall be 5% of the contract value in form of Bank Guarantee(BG) /Demand Draft/Insurance Surety Bonds (ISB)/FDR to be submitted within 21 days from the date of PO/order acceptance valid up to 60 days after the date of completion of performance obligations including warranty.	
4	GCC 2.16.3	Delivery – Mode of Transportation/Shipment	
		a)	In case of supplies from within India, the mode of transportation shall be by Road etc.,
		b)	In case of supplies from abroad, the mode of transportation shall be by AIR.
		c)	DELIVERY TERM: FOR CSIR-CFTRI, Mysore for Indigenous supply. For imports CIP Bangalore/DDP CFTRI, Mysore.
		d	Delivery period 12 weeks from the date of establishment of L/C for import cases and 90 days in case of supply from within India from the date of acceptance of purchase order.

5	GCC 2.17.1	Insurance <u>From Abroad</u> The Insurance shall be for an amount equal to 110% of the CIP/DDP value of the contract from "warehouse to warehouse (final destination)" on"all risk basis" including strikes, riots and civil commotion. <u>Within India</u> The terms of delivery shall be FOR (Destination) and Insurance shall be arranged by the supplier on "all risk basis" including strikes, riots and civil commotion till completion of installation and commissioning.	
6	GCC 2.21.3	The Warranty Period for this tender shall be as below: The warranty shall remain valid for a period as specified in chapter –IV i.e. specifications and allied technical details. If it is not mentioned in chapter- IV, minimum Three years' warranty from date of satisfactory installation and acceptance shall be applicable.	
7	GCC 2.22.1	Payment Terms	
		The method and conditions of payment to be made to the Supplier under this Contract shall be as follows:	
		A	Payment for Goods supplied from abroad
		Payment of foreign currency portion shall be made in currency of the Contract in the following manner:	
		(a)	On Shipment: Seventy percent (70 %) of the Contract Price of the Goods shipped shall be paid through irrevocable letter of credit opened in favour of the Supplier in a bank in its country, upon submission of documents specified in GCC Clause 2.16.
		(b)	On Acceptance: Thirty percent (30%) of the Contract Price of Goods received shall be paid within thirty (30) days of receipt of Goods and successful installation & commissioning upon submission of claim supported by the acceptance certificate issued by the Purchaser along with the Performance security, if any.
		(c)	The LC for 100% value of the contract shall be established after deducting the agency commission payable if any, to the Indian agent from the CIP value/DDP value.
		(d)	➢ The L/C will be confirmed at the supplier's cost, if requested specifically by the supplier. ➢ All bank charges abroad shall be to the account of the beneficiary i.e. supplier and all bank charges in India shall be to the account of the purchaser. ➢ If L/C is requested to be extended/ reinstated/amended for reasons not attributable to the purchaser, the charges thereof would be to the suppliers' account.
		(e)	Payment of local currency portion shall be made in Indian Rupees within thirty (30) days of presentation of invoice supported by a certificate from the Purchaser declaring that the Goods have been delivered and that all other contracted Services have been performed.
		B	Payment for Goods and Services supplied from India
		(a)	100% on bill basis against supply, installation, commissioning and training OR
		(b)	The payment shall be made in Indian Rupees, as follows: (a) After shipment: Seventy percent (70%) of the Contract Price shall be paid on receipt of the Goods in good condition and upon submission of the documents specified in GCC Clause 16.1 (b)On Acceptance: The remaining Thirty percent (30%) of

			The Contract value shall be paid to the Supplier within thirty (30) days after the date of the acceptance certificate Issued by the Purchaser
		(c)	**E-Payment: CSIR-CFTRI prefers to make ElectronicTransfers (NEFT/RTGS) through scheduled bank**
		(d)	**All payments due under the Contract shall be paid after deduction of statutory levies at source (like TDS, Income Tax, TCS etc.), wherever applicable.**
8	GCC 2.27.1	Liquidated Damages (LD)/Penalty	
		(a)	**As time is the essence of the contract, Delivery period mentioned in the Purchase Order should be strictly adhered to, otherwise will have to forfeit the EMD/PS and also LD clause will be applicable / enforced.**
		(b)	**If the Supplier fails to Supply, Install and Commission the system as per specifications mentioned in the order within the due date, the Supplier is liable to pay LD/penalty of 0.5% of order value per week of delay in supply/installation subject to maximum of 10% of the total contract value. Such money will be deducted from any amount due or which may become due to the Supplier**
		(c)	**CSIR-CFTRI reserves the right to cancel the Purchase Order in case the delay in supply is more than 10 weeks. Penalties, if any, will be deducted from the PS.**
9	GCC 2.34.1	Applicable Law / Jurisdiction The place of jurisdiction is Mysore, India.	
10	GCC 2.35.1	For notices, the Purchaser's address is The Director Attention: The Controller of Stores & Purchase CSIR-Central Food Technological Research Institute Mysore– 570 020, Karnataka-India Tel #: 00 91 821 2515440/5447 Email: cosp.cftri@csir.res.in	

CHAPTER 3

(To be filled by the bidder and enclosed with the Technical Bid)

SCHEDULE OF REQUIREMENT

The Schedule of Requirement must clearly specify the time frame required (Schedule) for delivery of goods and services to be completed by the bidder (in reference to Scope of Supply given in Clause-4.2 of Chapter-4) if the Contract is awarded for the offer / proposal submitted by the bidder in response to this Tender.

A) Delivery Schedule:

Sr. No.	Brief Description of Goods and Services	Quantity & Unit	Delivery Schedule
1	**Inverted Fluorescence Microscope with Motorized Z-Stack**	1 No	

B) Period of delivery shall start from : _____

C) Term of Delivery / Delivery Term (named port of shipment or named place of delivery:

Goods from Abroad	CIP, Bangalore/DDP, CFTRI, Mysore
Goods from India	FOR, CSIR-CFTRI, Mysore

D) Scope of Supply:

-.....

-.....-

E) Time frame required for conducting installation, commissioning of the equipment, acceptance test, training, etc. after the arrival of consignment or before dispatch of equipment:

Sr. No.	Activity	Time Frame
1	Site Preparation (if required)	
2	Installation & Commissioning	
3	Acceptance Test	
4	Training (Location, No. of persons, period of training, nature of training)	
5		

Place : _____ Signature of the Bidder : _____

Date : _____

Notes for Bidders:

(1)	The delivery schedule shall clearly indicate the time period within which the successful bidder will deliver the consignment in full from the date of establishment of LC or from the date of acceptance of contract etc. It should also indicate separately the time period desired for installation and commissioning of the equipment after arrival of the consignment at the premises of the Purchaser.
(2)	The date or period for delivery should be carefully specified, taking into account the implications of delivery terms stipulated in the Instructions to Bidders.

Chapter 4

Specifications and Allied Technical Details for Supply, Installation and Commissioning of Inverted Fluorescence Microscope with Motorized Z-Stack

4.1 End Use: Research and Development

4.2 TECHNICAL SPECIFICATIONS FOR PROCUREMENT OF A RESEARCH-GRADE INVERTED FLUORESCENCE MICROSCOPE WITH MOTORIZED Z-STACK

1. Purpose and intended applications

The system shall be a high-performance, research-grade inverted fluorescence microscope designed for routine and advanced imaging of cultured cells, live cells, fixed cells, tissue sections (H&E, IHC, etc), fluorescently labelled specimens and other biological samples.

The microscope shall support:

- Transmitted-light brightfield and phase-contrast imaging.
- Multichannel epifluorescence imaging.
- High-sensitivity fluorescence image acquisition.
- Motorized Z-axis focusing and automated Z-stack acquisition.
- Three-dimensional (3D) visualization and reconstruction of acquired Z-stack images.
- Quantitative fluorescence intensity analysis and colocalization studies.
- Time-lapse imaging capability, with provision for future live-cell imaging upgrades.
- Future expansion through compatible motorized components, environmental-control systems and advanced imaging modules.

The proposed system shall have a modular, upgradeable architecture that permits future expansion without requiring replacement of the main microscope body.

2. Scope of supply

The supplier shall provide a complete, integrated and operational microscope system, including:

- Research-grade inverted microscope with infinity-corrected optical system.
- Transmitted-light illumination system.
- Epifluorescence illumination system with a minimum of four fluorescence channels (DAPI, GFP/FITC, TRITC, Cy5, far infrared).
- Appropriate fluorescence filter sets.
- High-quality microscope objectives.
- Motorized Z-focus drive with automated Z-stack acquisition capability.
- Mechanical X-Y stage, with motorized X-Y stage as an optional upgrade.
- Scientific-grade fluorescence camera (sCMOS).
- Microscope image acquisition and analysis software.
- Z-stack acquisition and 3D reconstruction software.
- High-performance computer workstation and monitor.
- Essential microscope accessories, sample holders, adapters and calibration accessories.
- All necessary hardware, software, cables, controllers and licenses required for complete system operation.
- Installation, commissioning, application training and comprehensive warranty.

All components shall be fully compatible and integrated with the supplied microscope system.

3. Microscope body and optical platform

Mandatory specifications:

- Research-grade inverted microscope suitable for biological and cellular imaging.
- Infinity-corrected optical system with high-transmission optics and suitable chromatic aberration correction.
- Rigid, stable and vibration-resistant microscope construction suitable for prolonged imaging, fluorescence acquisition and Z-stack experiments.
- Modular microscope architecture with provision for future upgrades and integration of additional imaging accessories.
- Trinocular or equivalent observation configuration with a dedicated camera/imaging port.
- Optical pathway permitting simultaneous eyepiece observation and camera-based imaging, with suitable light-path selection.
- Binocular observation head with adjustable interpupillary distance and diopter correction.
- Wide-field 10X eyepieces with field number (F.N.) of 20 or higher.
- Minimum five-position revolving objective nosepiece; six-position nosepiece preferred.
- Provision for future integration of coded or motorized objective nosepiece, where not included in the initial configuration.
- Coarse and fine focusing controls, with adjustable focus tension and suitable travel limitation.
- The microscope shall permit future integration of compatible advanced imaging accessories and automation modules.

Preferred specifications

- Six-position motorized or coded revolving objective nosepiece.
- Motorized light-path selection and automated experiment control.
- Hardware-assisted focus-drift compensation for prolonged imaging experiments.

4. Transmitted-light illumination and contrast techniques

Mandatory specifications

- LED-based or equivalent long-life transmitted-light illumination system (minimum of 15,000 to 20,000 hours life time).
- Adjustable illumination intensity with stable and reproducible light output.
- Köhler illumination or an equivalent optical illumination arrangement.
- Long-working-distance condenser suitable for inverted microscopy.
- Brightfield imaging capability for cultured cells and stained tissue sections, including H&E- and IHC-stained sections.
- Phase-contrast imaging capability for unstained living and fixed cells.
- Differential interference contrast (DIC) capability.
- Phase-contrast accessories compatible with the supplied 10X, 20X and 40X, 60/63x objectives.
- Appropriate optical elements, rings or sliders for phase-contrast imaging.

Preferred/upgradeable features

- Hoffman modulation contrast or equivalent contrast-enhancement technique.
- Darkfield capability, where supported by the platform.
- Provision for future integration of DIC and other compatible contrast techniques without replacing the microscope body.

5. Microscope objectives

The microscope shall be supplied with high-quality infinity-corrected plan objectives suitable for brightfield, phase contrast and fluorescence microscopy.
The minimum objective configuration shall include:

- 4X objective: Plan or equivalent optical design, numerical aperture (NA) ≥0.10, suitable for overview imaging.
- 10X objective: Plan Fluor, Plan Apo or equivalent optical design, NA ≥0.25, suitable for routine cellular imaging.
- 20X objective: Plan Fluor, Plan Apo or equivalent optical design, NA ≥0.40, suitable for fluorescence imaging and cellular morphology.
- 40X objective: High-performance Plan Fluor, Plan Apo or equivalent optical design, NA ≥0.60, suitable for high-resolution cellular and fluorescence imaging.
- 60X or 63X high-NA fluorescence objective, preferably NA ≥0.70.

Preferred/optional objectives

- 100X oil-immersion objective, preferably NA ≥1.30.

Additional objective requirements:

- Objectives shall provide high optical transmission and minimal chromatic aberration.
- Suitable objectives shall be provided for phase-contrast imaging at 10X, 20X and 40X, 60/63X.
- Objectives intended for cell-culture imaging shall have appropriate working distances for the intended culture dishes and sample holders.
- At least the relevant fluorescence objectives shall be suitable for standard No. 1.5 coverslips (approximately 0.17 mm thickness), or the supplier shall specify the compatible coverslip correction.
- The supplier shall provide complete technical specifications of all supplied objectives, including magnification, NA, working distance and correction characteristics.

6. Fluorescence illumination system

Mandatory specifications

- Integrated epifluorescence illumination system suitable for multichannel fluorescence microscopy.
- Stable and reproducible fluorescence illumination with independently selectable excitation channels.
- Minimum four fluorescence channels covering the commonly used UV/violet, blue, green and red/far-red spectral regions.
- The fluorescence illumination system shall support the following fluorophore groups:
    - ❖ DAPI/Hoechst.
    - ❖ FITC/GFP/Alexa Fluor 488.
    - ❖ TRITC/Cy3/RFP/Alexa Fluor 555 or 568.
    - ❖ Cy5/Alexa Fluor 647 or equivalent far-red fluorophores.
- Appropriate excitation filters, dichroic mirrors and emission filters shall be supplied for all four channels.
- The system shall support sequential multichannel fluorescence acquisition.
- Fluorescence channels shall have independent intensity and exposure control.
- The optical configuration shall minimize spectral cross-talk between fluorescence channels.
- The fluorescence system shall be capable of detecting signals in the far-red region, preferably extending to approximately 650-750 nm emission.

Requirements

- Motorized filter turret.
- Fast filter switching.
- High signal-to-noise ratio.
- Stable illumination without significant intensity drift.

Preferred specifications

- Solid-state LED-based or equivalent long-life fluorescence illumination system.
- If LED-based illumination is offered, the rated operating lifetime should be at least 15,000 to 20,000 hours.
- Software-controlled fluorescence illumination with adjustable intensity and channel selection.
- Minimum four-position fluorescence filter turret, with six or more positions preferred.
- Motorized fluorescence filter turret for automated multichannel acquisition.
- Additional empty filter positions or provision for adding further fluorescence filter sets in the future.
- Programmable illumination and exposure control to reduce unnecessary illumination, photobleaching and phototoxicity.

The supplier shall clearly specify the excitation and emission ranges, filter specifications and supported fluorophore combinations.

7. Camera and image acquisition hardware

The system shall be supplied with a scientific-grade digital camera suitable for sensitive fluorescence imaging and transmitted-light documentation.

Mandatory specifications

- Scientific CMOS (sCMOS), scientific CMOS-equivalent or other high-performance scientific imaging sensor.
- Minimum sensor resolution of 5 megapixels; 10 megapixels or higher preferred.
- Quantum efficiency (QE) of at least 80% or equivalent demonstrated fluorescence sensitivity.
- Suitable sensor characteristics for weak fluorescence signal acquisition.
- Low read noise and high dynamic range.
- Minimum 12-bit image acquisition; 16-bit acquisition preferred.
- Appropriate pixel size and sampling characteristics for the supplied optical system and magnifications.
- Adjustable exposure time and camera gain.
- Manual and automated exposure control.
- High-speed data interface, minimum USB 3.0 or equivalent.
- Compatibility with the supplied microscope acquisition software.
- Full-resolution still-image acquisition and video acquisition capability.

Preferred specifications

- Active/Peltier cooling to reduce dark current during prolonged exposures.
- High-sensitivity monochrome sensor for fluorescence imaging.
- A high-quality colour imaging arrangement for brightfield documentation and stained tissue imaging.
- A dual-camera configuration or an equivalent integrated arrangement capable of providing suitable monochrome fluorescence and colour brightfield imaging.

The supplier shall clearly state the sensor type, resolution, QE, pixel size, bit depth, cooling arrangement and image acquisition speed.

8. Motorized Z-focus and automated Z-stack imaging

Mandatory features

- The microscope shall be equipped with an integrated motorized Z-focus drive.
- Manual focusing alone shall not be considered sufficient.
- Motorized Z-axis movement shall be controllable through the microscope acquisition software.
- The system shall provide reproducible and programmable vertical focusing.
- Minimum commanded Z-step size shall be 0.1 µm or finer.
- A Z-step resolution of 0.05 µm or finer is preferred.

- Z-axis positioning repeatability should be ≤0.2 μm or better.
- The system shall support automatic Z-stack acquisition at user-defined intervals.
- Users shall be able to define the upper and lower Z-limits of the imaging region.
- Users shall be able to select the number of optical sections and the Z-step interval.
- Automated acquisition of multiple optical sections shall be supported.
- Multichannel fluorescence Z-stack acquisition shall be supported.
- The software shall permit visualization of individual optical sections and complete Z-stack datasets.
- Maximum-intensity projection, average-intensity projection or equivalent projection methods shall be available.
- Z-stack acquisition shall be integrated with the supplied camera and imaging software.

Preferred features

- Automatic autofocus routines suitable for transmitted-light and fluorescence imaging.
- Hardware- or software-assisted focus-drift correction.
- Automatic focus maintenance during prolonged acquisition and time-lapse experiments.
- Position-specific Z-stack acquisition during multi-position imaging.
- Image registration and correction of channel misalignment, where supported.

9. Mechanical X-Y stage and future motorized stage upgradability

Mandatory specifications

- A stable mechanical X-Y stage shall be supplied with the microscope.
- The stage shall allow accurate manual positioning of specimens.
- The stage shall be suitable for routine imaging of microscope slides, culture dishes and multiwell plates.
- Low-position or ergonomic stage controls are preferred.
- Adequate sample holders shall be included for different biological sample formats.

Preferred/optional upgrade

- Motorized X-Y scanning stage with computer-controlled positioning.
- Encoded positioning and reproducible movement.
- Software-controlled multi-position acquisition.
- Automated tile scanning and image stitching.
- Automated scanning of multi-well plates.
- Closed-loop positioning and position recall.

Where a motorized X-Y stage is not supplied initially, the microscope platform shall be compatible with a future manufacturer-supported motorized X-Y stage upgrade. The supplier shall confirm that such an upgrade will not require replacement of the main microscope body.

The motorized X-Y stage, if offered, shall be quoted separately as an optional component with its technical specifications and price.

10. Image acquisition and multidimensional imaging software

The supplier shall provide dedicated microscope acquisition software that is fully compatible with the supplied microscope, camera, illumination system and motorized Z-focus drive.

Mandatory software capabilities

- Acquisition of brightfield, phase-contrast and fluorescence images.
- Multichannel fluorescence image acquisition.
- Individual channel selection and exposure control.
- Overlay and merging of multiple fluorescence channels.

- Automated motorized Z-stack acquisition.
- Viewing and navigation of individual Z-sections.
- Maximum-intensity and average-intensity projection or equivalent functionality.
- 3D visualization and reconstruction from acquired Z-stack images.
- Image capture with user-defined exposure, gain and acquisition settings.
- Image measurement and annotation tools.
- Region-of-interest (ROI) selection.
- Measurement of length, area, perimeter and other standard image parameters.
- Fluorescence intensity measurement within user-defined ROIs.
- Mean and integrated fluorescence intensity measurement.
- Background subtraction and background-corrected fluorescence analysis.
- Image adjustment tools for brightness, contrast and gamma.
- Image overlay and channel-based visualization.
- Automatic generation of scale bars.
- Preservation of original image data and acquisition metadata.
- Export of raw and processed image data in standard formats.

Preferred/advanced analytical capabilities

- Quantitative colocalization analysis.
- Fluorescence ratio analysis between two channels, where applicable.
- Cell counting and object identification.
- Manual or automated cell segmentation.
- Particle and object analysis.
- Batch image analysis.
- Multi-position imaging and tile scanning.
- Image stitching and montage generation.
- Image registration and channel alignment.
- 3D rendering, volume visualization and quantitative 3D analysis.
- Deconvolution capability, preferably 2D and/or 3D.
- Time-lapse image acquisition at user-defined intervals.
- Automated experiment sequencing and acquisition templates.
- Offline image analysis capability.

All software modules necessary to operate the supplied hardware and perform mandatory Z-stack acquisition and 3D reconstruction shall be included in the quoted system. Any additional software modules requiring separate licenses shall be clearly identified and quoted separately.

11. Quantitative fluorescence analysis

The image analysis software shall support quantitative analysis of fluorescence images, including:

- Measurement of fluorescence intensity in user-defined regions of interest.
- Mean fluorescence intensity.
- Integrated fluorescence intensity.
- Background-subtracted fluorescence intensity.

- Pixel-intensity distribution.
- Multiple ROI selection and measurement.
- Comparative analysis of fluorescence signals between different samples or imaging channels.
- Channel overlay and colocalization analysis.
- Fluorescence ratio calculation between two imaging channels, where applicable.
- Export of numerical measurements for further statistical analysis.

The software should be suitable for quantitative imaging applications involving cellular and subcellular compartments, including mitochondria-associated fluorescence signals.
Where supported, the system should facilitate quantitative analysis of commonly used mitochondrial membrane-potential probes such as JC-1, TMRM and TMRE. Such capability shall refer to image acquisition and analysis functions and shall not imply that the microscope itself performs independent biochemical measurements.

12. Live-cell imaging and future environmental-control upgrade

Live-cell incubation equipment is not mandatory in the initial supply. However, the microscope must be capable of future expansion for live-cell imaging.

The microscope platform and acquisition software shall be compatible with a manufacturer-supported live-cell imaging configuration.
The supplier shall clearly identify the compatible upgrade options, associated hardware and software requirements.
The future upgrade configuration should support:

- Stage-top incubation chamber or equivalent environmental-control enclosure.
- Temperature regulation suitable for mammalian cell culture, preferably around 37°C.
- CO_2 regulation, preferably at approximately 5%.
- Humidity control to reduce sample evaporation.
- Suitable holders for 35 mm and 60 mm culture dishes and multiwell plates.
- Programmable time-lapse acquisition.
- Multichannel fluorescence acquisition during time-lapse experiments.
- Automated focus maintenance or focus-drift correction.
- Illumination and exposure control to minimize phototoxicity and photobleaching.

The supplier shall confirm whether the live-cell imaging upgrade can be integrated into the offered microscope without replacement of the main microscope body.

Optional live-cell imaging package

The supplier may separately quote a complete live-cell imaging package comprising:

- Stage-top incubator or environmental enclosure.
- Temperature controller.
- CO_2 controller and appropriate gas regulation accessories.
- Humidity-control arrangement.
- Suitable sample holders.
- Compatible time-lapse and multidimensional acquisition software modules.
- Any additional controllers, adapters and accessories required for operation.

The optional package shall be priced separately and shall not be included as a mandatory component of the base bid.

13. Future upgradability and modular expansion

The microscope shall be based on a modular architecture that allows expansion according to future research requirements.
The manufacturer or authorized supplier shall provide a written statement confirming the available upgrade pathways for the proposed microscope platform.
The upgrade pathway should preferably include:

- Motorized X-Y scanning stage.
- Encoded motorized objective nosepiece.

- Additional fluorescence filter sets and channels.
- Motorized fluorescence filter selection.
- Hardware-based autofocus and focus-drift compensation.
- Live-cell environmental-control chamber.
- Advanced time-lapse and multidimensional acquisition modules.
- Deconvolution and advanced image analysis modules.
- Additional camera or detector configurations.
- Advanced fluorescence imaging modalities, such as TIRF, spinning-disk or confocal imaging, where supported by the manufacturer's platform.

The supplier shall clearly distinguish between upgrades that are directly compatible with the proposed microscope and those requiring additional hardware or substantial modification.
The ability to integrate every listed advanced modality is not a mandatory condition. However, the supplier must provide a clear and technically supported upgrade roadmap for the proposed platform.

14. Computer workstation and data processing system

A suitable high-performance workstation shall be supplied for microscope operation, image acquisition, data storage and image analysis.

Minimum specifications

- Processor: Latest-generation Intel Core i7/i9, AMD Ryzen 7/9, Intel Xeon or equivalent professional processor.
- RAM: 64 GB.
- Storage: Minimum 1 TB NVMe SSD for operating system and software.
- Additional data storage: Minimum 2 TB SSD/HDD or equivalent.
- Dedicated graphics card with minimum 8 GB graphics memory.
- GPU compatible with the supplied imaging software and its supported image-processing functions.
- Operating system: Windows 11 Professional 64-bit or the latest operating system officially supported by the supplied software.
- High-speed USB ports suitable for camera and microscope connections.
- Ethernet and appropriate display connectivity.
- Keyboard and optical mouse.
- Necessary software, drivers and connectivity accessories.

Monitor

- Minimum 27-inch display.
- 4K UHD resolution (3840 × 2160) preferred.
- IPS or equivalent high-quality panel.
- Accurate colour reproduction suitable for fluorescence and colour brightfield documentation.
- Suitable DisplayPort/HDMI connectivity.
- Height and tilt adjustment preferred.

Power backup

- Online UPS of suitable capacity to support the microscope, workstation and monitor.
- Necessary power and connectivity accessories shall be included.

15. Accessories and essential components

The supplier shall provide all accessories required for the complete operation of the offered configuration, including:

- Complete inverted microscope body.
- Binocular/trinocular observation assembly and eyepieces.

- Objective nosepiece.
- All specified microscope objectives.
- Transmitted-light illumination system.
- Long-working-distance condenser.
- Phase-contrast accessories.
- Mechanical X-Y stage.
- Suitable slide holder.
- 60 mm culture dish holder or equivalent, where compatible.
- Suitable multi-well plate holder, preferably for 96-well plates.
- Complete fluorescence illumination system.
- Minimum four fluorescence filter sets.
- Scientific-grade fluorescence camera.
- Camera mounting adapter and required interfaces.
- Motorized Z-focus drive.
- Complete Z-stack acquisition software.
- 3D visualization/reconstruction software.
- Image acquisition and quantitative analysis software.
- High-performance workstation.
- Monitor and UPS.
- Calibration slide or equivalent calibration accessory.
- Dust cover.
- All necessary cables, adapters, connectors, controllers and power supplies.
- User manuals and software documentation.

Any additional components necessary to make the system fully functional shall be supplied without requiring separate unquoted purchases.

16. Installation, commissioning and training

The supplier shall provide:

- Complete installation and commissioning at the purchaser's premises (CSIR0CFTRI, Mysuru).
- Integration of all supplied microscope components and accessories.
- Testing of the optical, illumination, fluorescence, camera and focusing systems.
- Installation and configuration of all required software and licenses.
- Demonstration of all mandatory system functions.
- On-site application training for designated users.
- Training on brightfield, phase-contrast and multichannel fluorescence imaging.
- Training on motorized Z-focus operation and automated Z-stack acquisition.
- Training on 3D visualization and reconstruction.
- Training on quantitative fluorescence analysis and colocalization.
- Training on basic maintenance, troubleshooting and system care.
- User manuals and technical documentation.

The supplier shall provide installation and commissioning documentation and appropriate system performance verification records.

17. Warranty, service and maintenance

Mandatory requirements

- Minimum three years of comprehensive onsite warranty from the date of successful installation and acceptance.
- Warranty shall cover the microscope, supplied camera, illumination system, controllers, workstation and all other supplied hardware.
- Warranty shall include necessary parts, labour and service visits.
- Preventive maintenance shall be provided during the warranty period.
- Software updates and technical support shall be provided during the warranty period, where applicable.
- Authorized technical service support shall be available in India.
- The supplier shall specify the service response time and escalation procedure.
- Technical support for supplied software and hardware shall be included.

Preferred requirements

- Initial service response within 48 hours of a service request.
- Availability of spare parts for at least seven years.
- Additional two-year annual maintenance contract (AMC) option after the warranty period.

18. Technical documents and bidder compliance

The bidder shall submit the following with the technical bid:

- Manufacturer's product brochure and detailed technical datasheet for the proposed microscope.
- Exact make and model of the microscope, camera, objectives, illumination system and other major components.
- Detailed specifications of the motorized Z-focus drive and Z-stack acquisition capability.
- Details of the fluorescence illumination system and filter combinations.
- Camera specifications, including QE, resolution, sensor type and bit depth.
- Details of all included software modules and their functions.
- Written confirmation of compatibility between all supplied components.
- Details of optional motorized X-Y stage upgrade.
- Details of future live-cell imaging and environmental-control upgrade options.
- Manufacturer's confirmation of the available modular upgrade pathways.
- Details of warranty, service support and preventive maintenance.
- A point-wise compliance statement against every mandatory and preferred specification in this tender.

Any deviation from the specified requirements shall be clearly indicated and explained.

19. Demonstration and acceptance criteria

The supplier shall demonstrate the following functions before final acceptance of the system:

- Brightfield imaging.
- Phase-contrast imaging.
- Multichannel fluorescence imaging using the specified four fluorophore groups.
- Acquisition of fluorescence images using the supplied scientific camera.
- Software-controlled motorized Z-axis operation.
- Automated Z-stack acquisition with user-defined Z-step intervals.
- Multichannel Z-stack acquisition.
- Visualization of individual optical sections.

- 3D reconstruction and visualization of Z-stack datasets.
- Fluorescence intensity measurement and ROI-based quantitative analysis.
- Channel overlay and colocalization analysis.
- Export of images in standard non-proprietary formats.
- Operation of all supplied microscope components through the provided software.

The supplier shall also explain and demonstrate, wherever practical, the proposed upgrade pathway for motorized X-Y scanning and live-cell imaging.
Final acceptance shall be based on satisfactory installation, successful demonstration of all mandatory functionalities and delivery of all items included in the technical and commercial bids.

20. General procurement conditions

- Systems from established manufacturers offering equivalent or superior specifications shall be considered.
- The offered system shall be a genuine manufacturer-supported configuration with compatible and integrated components.
- Equivalent optical designs and technologies shall be acceptable where they meet or exceed the stated performance requirements.
- The bidder shall quote a complete, operational system that is ready for use after installation and commissioning.
- The commercial bid shall clearly separate the price of the mandatory base system from optional upgrades and accessories.
- The prices of motorized X-Y stage, live-cell imaging package, additional fluorescence channels, advanced imaging modules and additional software licenses shall be quoted separately, wherever applicable.
- Any additional hardware or software required for the full operation of the mandatory configuration shall be included in the base quotation.
- No essential hardware, software module, interface or accessory shall be omitted from the quotation if it is necessary to achieve the specified mandatory functionality.

4.3.1 Scope of Supply and incidental works: Scope of Supply includes the following:

I. Supply of the equipment / system along with the accessories.
II. Installation, Commissioning and Acceptance by the end user
III. Training as specified in tender
IV. On site comprehensive Warranty as specified in SCC
V. Annual Maintenance Contract / Maintenance Support as specified in BoQ
VI. Delivery Schedule as specified in SCC

4.3.2 Manufacturer's Inspection Certificate

After the goods are manufactured and assembled, inspection and testing of the goods shall be carried out at the supplier's facility by the supplier, prior to shipment to check whether the goods are in conformity with the technical specifications. Manufacturer's test certificate with data sheet shall be issued to this effect and submitted along with the delivery documents. The purchaser reserves the options to be present at the supplier's premises during such inspection and testing.

4.3.3 Installation, Commissioning and Acceptance Test

The acceptance test will be conducted by the Purchaser, their consultant or other such person nominated by the Purchaser at its option after the equipment is installed at Purchaser's site in the presence of supplier's representatives. The acceptance will involve trouble free operation. There shall not be any additional charges for carrying out acceptance test. No malfunction, partial or complete failure of any part of the equipment is expected to occur. The Supplier shall maintain necessary log in respect of the result of the test to establish to the satisfaction of the Purchaser, the successful completion of the test specified.

On the event of the ordered item failing to pass the acceptance test, a period not exceeding two weeks will be given to rectify the defects and clear the acceptance test, failing which, the Purchaser reserve the right to get the equipment replaced by the Supplier at no extra cost to the Purchaser.

Successful conduct and conclusion of the acceptance test for the installed goods and equipment shall also be the responsibility and at the cost of the Supplier.

The acceptance tests at the final destination include the following:

a)	
b)	

4.3.4 Training

1)	Location	
2)	Number of persons	
3)	Period of Training	
4)	Nature of Training	

CHAPTER-5

Price Schedule forms

Bidders are requested to quote their price as per the GeM Format/BOQ as applicable to this Tender Enquiry/NIT.

CHAPTER-6
Qualification Requirements

6.1 Eligibility Criteria

a) Legal Valid Entity:
The Bidder shall necessarily be a legally valid entity either in the form of a Limited Company or a Private Limited Company registered under the Indian Companies Act, 1956 or as per rules prevailing in the country of origin/shipment

Bidder may be Joint Venture, Consortium or Association so long as they are formed and registered prior to the bid submission date.

Copy of Certificate of Incorporation issued by Registrar of firms/companies is to be submitted in support of this criterion or as per rules prevailing in the country of origin/shipment

b) In case of Global Tender Enquiry, Indian Agent quoting on behalf of Foreign Principal Supplier should submit a certified copy of an Agreement/Memorandum of understanding (MOU) between both the parties, detailing services to be rendered by the Agency.

c) An undertaking (self-certificate) is to be submitted to demonstrate that the bidder satisfiesthe bidders' eligibility criteria, as mentioned in ITB Clause 1.1.2 in the form of declarationby the Bidder for Code of Integrity & conflict of interest as per Chapter-8: Annexure-H.

d) Declaration by the bidder on letter head that he has not been disqualified or black listed or suspended by any other lab of CSIR or any other Govt. Organization/Govt. of India establishment or suspended by CPPP or GEM portals, in the past 24 months.

6.2 Technical Qualification

Criteria 1 - Experience and Past Performance:

a) The bidder (manufacturer or principal of authorized representative – hereinafter referred simplyas 'The Bidder') should have regularly for at least the last 5 (Five) years, ending 31st March of the previous financial year (hereinafter called 'The relevant Date'), manufactured and supplied (/erected/ commissioned UHPLC with same or higher specifications (herein after called 'The Product'). The bidder should submit the manufacturer authorization form as appended in Chapter-8 and

b) 'The bidder' should have manufactured and supplied (erected/commissioned) at least **One** numbers in any Institute of Govt. of India/PSU/Universities (herein after referred as 'The Qualifying Quantity') of 'the Product' in the last three years

Criteria 2 - Capability- Equipment & manufacturing Facilities: NA

'The bidder' must have an annual capacity to manufacture and supply (/erected/ commissioned) at least NA (The Qualifying Quantity)

Note: In case of multiple products in a tender, this criterion shall be applicable product wise. For example, in case of Printing Paper of different specifications/sizes, it shall be applicable to quantity of paper manufactured and supplied specification/size wise.

6.3 Financial Qualification Criteria -NA

a) The average annual financial turnover of 'The bidder' during the last three years, ending on 'The relevant Date', should be at ₹……NA..... as per the annual report (audited balance sheet and profit & loss account) of the relevant period.

b) A copy of the annual report (audited balance sheet and profit & loss account) of the relevant period, duly authenticated by a Chartered Accountant/Cost Accountant in India or equivalentin relevant countries, is to be submitted in support of this criterion. NA

c) The net worth of the Bidder firm (manufacturer or principal of authorized representative) should not be negative on 'The Relevant Date' and also ii) should have not eroded by more than 30% (thirty percent) in the last three years. Self-declaration on letterhead of the company to be provided in support of this.
(Documentary evidence or supporting document).

*** The condition of prior turnover and prior experience shall be relaxed for Startups (as Defined by Department of Industrial Policy and Promotion) and MSE subject to meeting of quality and technical specification.

Applicability in Special Cases:

a) Applicability to 'Make in India':
Bidders (manufacturer or principal of authorized representative) who have a valid/approved ongoing 'Make in India' agreement/ program and who while meeting all other criteria above, except for any or more of sub-criteria in Experience and Past Performance above, would also be considered to be qualified provided:

i)	their foreign 'Make-in-India' associates meet all the criteria above without exemption, and
ii)	the Bidder submits appropriate documentary proof for a valid/approved ongoing 'Make in India' agreement/program.
iii)	the bidder (manufacturer or principal of authorized representative) furnishes along with the bid a legally enforceable undertaking jointly executed by them self and suchforeign Manufacturer for satisfactory manufacturing, Supply (and erection, commissioning if applicable) and performance of 'The Product' offered including all warranty obligations as per the general and special conditions of contract.

b) Authorized Representatives:
Bids of bidders quoting as authorized representative of a principal manufacturer would alsobe considered to be qualified, provided:

i)	their principal manufacturer meets all the criteria above without exemption, and
ii)	the principal manufacturer furnishes a legally enforceable tender-specific authorization in the prescribed form assuring full guarantee and warranty obligations as per the general and special conditions of contract; and
iii)	the bidder himself should have been associated, as authorized representative of the same or other Principal Manufacturer for same set of services as in present bid (supply, installation, satisfactorily commissioning, after sales service as the case may be) for same or similar 'Product' for past three years ending on 'The Relevant Date'.

c) Joint Ventures and Holding Companies:

Credentials of the partners of Joint ventures cannot be clubbed for the purpose of compliance of PQC in supply of Goods/Equipment, and each partner must comply with all the PQC criteria independently. However, for the purpose of qualifying the Financial Standing Criteria, the Financial Standing credentials of a Holding Company can be clubbed with only one of the fully owned subsidiary bidding company, with appropriate legal documents proving such ownership.

Note for Bidders:

a) 'Doctrine of Substantial Compliance':
The Pre-Qualification Bidding (PQB) and Pre- Qualification Criteria (PQC) are for shortlisting ofsources who are competent to perform this contract to ensure best value for money from expenditure of Public Money. This process is neither intended to bestow any entitlement upon nor to create any rights or privileges for the Bidders, by way of overly hair-splitting or viciously legalistic interpretations of these criteria, disregarding the very rationale of the PQB and PQC. Keeping this caveat in view, interpretation by the Purchaser would be based on common usage of terminologies and phrases in public procurement in accordance with the 'Doctrine of Substantial Compliance' and would be final.

b) The Bidder must declare, whether asked or not in a bid document, any previous transgressions of such a code of integrity with any entity in any country during the last three years or of being debarred by any other Procuring Entity. Failure to do so would amount to violation of this code of integrity.

c) In case of agents quoting in offshore procurements, on behalf of their principal manufacturers, one agent cannot represent two manufacturers or quote on their behalf in a particular tenderenquiry. One manufacturer can also authorize only one agent/ dealer. There can be only one bid from the following:

i)	The Principal manufacturer directly or through one Indian agent on his behalf; and
ii)	Indian/foreign agent on behalf of only one principal.

d) Along with all the necessary documents/certificates required as per the tender conditions, the bidder should furnish a brief write-up, backed with adequate data, explaining their available capacity (both technical and financial), for manufacture and supply of the required goods/equipment, within the specified time of completion, after meeting all their current commitments.

e) Supporting documents submitted by the bidder must be certified as follows:

i)	All copy of supply/work order; respective completion certificate and contact detailsof clients; documents issued by the relevant Industries Department/National Small Industries Corporation (NSIC)/ manufacturing license; annual report, etc., in supportof experience, past performance and capacity/capability should be authenticated by the by the person authorized to sign the tender on behalf of the bidder. Original Documents must be submitted for inspection, if so demanded.
ii)	All financial standing data should be certified by certified accountants, for example, Chartered Accountants/Cost Accountants or equivalent in relevant countries; and Indian bidder or Indian counterparts of foreign bidders should furnish their Permanent Account Number.

f) A bidder or any of its affiliates who participated as a consultant in the preparation of the design or technical specifications of the contract i.e. the subject of the bid; cannot participate in the bidding process.

(g) Foreign bidders to disclose the name and address of agent and representatives in India andIndian bidder to disclose their foreign principal or associates.

CHAPTER 7

Contract Form

For details kindly refer Standard Tender Documents uploaded at CSIR-CFTRI website i.e. www.cftri.res.in →Tender

CHAPTER 8

Other Standard Forms
(To be enclosed as indicated below)

TABLE OF CONTENTS

Sl. No.	Name	Annexure
1	Bid Security Form (to be enclosed with the technical bid)	A
2	Bid Securing Declaration. (to be enclosed with the technical bid)	B
3	Bidder Information Form (to be enclosed with the technical bid)	C
4	Bid Form	D
5	Manufacturers' Authorization Form (to be enclosed with the technical bid)	E
6	Performance Statement Form (to be enclosed with the technical bid)	F
7	Service Support Detail Form (to be enclosed with the technical bid)	G
8	Format of declaration of abiding by the code of integrity and conflict of interest to be submitted by the bidder (No applicable for the tender)	H
9	Certificate of local content with percentage	I
10	Non-Blacklisting declaration	J
11	Self-Certification (to be enclosed with technical bid)	K
12	Deviation Statement Form (to be enclosed with the technical bid)	L
13	Performance Security Form (to be submitted on award of Contract)	M
14	Acceptance Certificate Form (to be submitted on award of Contract)	N
15	Check List	

Note: Please refer clause 1.10.1 of the bidding documents for other documents to be attached withthe bids/offers

For details kindly refer Standard Tender Documents uploaded at CSIR-CFTRI website i.e. www.cftri.res.in→Tender

The Terms and conditions of Standard Tender Documents uploaded at CSIR-CFTRI website i.e. www.cftri.res.in→Tender is integral part of this tender.

Tender No.: ANNEXURE-A

BID SECURITY FORM

Whereas

_____
(hereinafter called the tenderer)

has submitted their offer dated _____
for the supply of _____
(hereinafter called the tender)

Against the Purchaser's Tender No._____

KNOW ALL MEN by these presents that WE _____
of_____having our registered office at
_____are bound unto_____(hereinafter called the "Purchaser")

In the sum of
_____

For which payment will and truly to be made to the said Purchaser, the Bank binds itself, its successors and assigns by these presents. Sealed with the Common Seal of the said Bank this_____day of _____20_____.

THE CONDITIONS OF THIS OBLIGATION ARE:

(1)	If the tenderer withdraws or amends or modifies or impairs or derogates from the Tender in any respect within the period of validity of this tender OR	
(2)	If the tenderer having been notified of the acceptance of his tender by the Purchaser during the period of its validity	
	(a)	If the tenderer fails to furnish the Performance Security for the due Performance of the contract.
	(b)	Fails or refuses to accept/execute the contract.

We undertake to pay the Purchaser up to the above amount upon receipt of its first written demand, without the Purchaser having to substantiate its demand, provided that in its demand the Purchaser will note that the amount claimed by it is due to it owing to the occurrence of one or both the two conditions, specifying the occurred condition or conditions.

This guarantee will remain in force up to and including 45 days after the period of tender validity and any demand in respect thereof should reach the Bank not later than the above date.

_____
(Signature of the authorized officer of the Bank)

Name and designation of the officer
Seal, name & address of the Bank and address of the Branch

Note: Whenever the bidder chooses to submit the Bid Security in the form of Bank Guarantee, then he should advise the banker issuing the Bank Guarantee to immediately send by Registered Post (A.D.) an unstamped duplicate copy of the Guarantee directly to the Purchaser with a covering letter to comparewith the original BG for the correctness, genuineness, etc.

ANNEXURE-B

Tender No.:

BID-SECURING DECLARATION FORM

Date:_____

Bid No. _____

To (insert complete name and address of the purchaser)

I/We. The undersigned, declare that:

I/We understand that, according to your conditions, bids must be supported by a Bid Securing Declaration.

I/We accept that I/We may be disqualified from bidding for any contract with you for a period of one year from the date of notification if I am /We are in a breach of any obligation under the bid conditions, because I/We

(a)	have withdrawn/modified/amended, impairs or derogates from the tender, my/our Bid during the period of bid validity specified in the form of Bid; or
(b)	having been notified of the acceptance of our Bid by the purchaser during the period of bid validity (i) fail or reuse to execute the contract, if required, or (ii) fail or refuse to furnish the Performance Security, in accordance with the Instructions to Bidders.

I/We understand this Bid Securing Declaration shall cease to be valid if I am/we are not the successful Bidder, upon the earlier of (i) the receipt of your notification of the name of the successful Bidder; or (ii) thirty days after the expiration of the validity of my/our Bid.

Signed: (insert signature of person whose name and capacity are shown)
in the capacity of (insert legal capacity of person signing the Bid Securing Declaration).

Name: (insert complete name of person signing he Bid Securing Declaration)

Duly authorized to sign the bid for an on behalf of : (insert complete name of Bidder)

Dated on_____day of_____(insert date of signing)

Corporate Seal (where appropriate)

(Note: In case of a Joint Venture, the Bid Securing Declaration must be in the name of all partners to the Joint Venture that submits the bid)

Tender No.:

ANNEXURE–C

BIDDER INFORMATION FORM

(a) [The Bidder shall fill in this Form in accordance with the instructions indicated below. No alterations to its format shall be permitted and no substitutions shall be accepted. This should be done of the letter head of the firm]

Date : *[insert date (as day, month and year) of Bid Submission]*

Tender No .:*[insert number from Invitation for bids]*

01.	Bidder's Legal Name *[insert Bidder's legal name]*
02.	In case of JV, legal name of each party: *[insert legal name of each party in JV]*
03.	Bidder's actual or intended Country of Registration: *[insert actual or intended Country of Registration]*
04.	Bidder's Year of Registration: *[insert Bidder's year of registration]*
05.	Bidder's Legal Address in Country of Registration: *[insert Bidder's legal address in country of registration]*
06.	Bidder's Authorized Representative Information Name: *[insert Authorized Representative's name]* Address: *[insert Authorized Representative's Address]* Telephone/Fax numbers: *[insert Authorized Representative's telephone/fax numbers]* Email Address: *[insert Authorized Representative's email address]*
07.	Attached are copies of original documents of: Articles of Incorporation or Registration of firm named in 1, above.

Signature of Bidder _____

Name _____

Business Address _____

Tender No.:

ANNEXURE–D

Bid Form

[The Bidder shall fill in this Form in accordance with the instructions indicated No alterations to its format shall be permitted and no substitutions shall be accepted.]

Date : *[insert date (as day, month and year) of Bid Submission]*

Tender No. :

To : Director, *CSIR-CFTRI, Mysore*

We, the undersigned, declare that:

(a)	We have examined and have no reservations to the Bidding Documents, including Addenda No.: *[insert the number and issuing date of each Addenda]*
(b)	We offer to supply in conformity with the Bidding Documents and in accordance with the Delivery Schedules specified in the Schedule of Requirements the following Goods and Related Services *[insert a brief description of the Goods and Related Services]**as specified in Chapter 4*
(c)	The total price of our Bid, excluding any discounts offered in item (d) below, is: *[insert the total bid price in words and figures, indicating the various amounts and the respective currencies]*
(d)	The discounts offered and the methodologies for their application are: Discounts. If our bid is accepted, the following discounts shall apply. *[Specify in detail each discount offered and the specific item of the Schedule of Requirements to which it applies.]*
(e)	Our bid shall be valid for the period of time specified in ITB Clause 1.17.1, from the date fixed for the bid submission due date in accordance with ITB Clause 1.19 and it shall remain binding upon us and may be accepted at any time before the expiration of that period
(f)	If our bid is accepted, we commit to obtain a performance security in accordance with ITB Clause 1.43 and GCC Clause 2.13 for the due performance of the Contract and also submit order acceptance within 14 days from the date of contract in accordance with ITB Clause 1.42 and GCC Clause 2.44;
(g)	The following commissions, gratuities, or fees have been paid or are to be paid with respect to the bidding process or execution of the Contract: *[insert complete name of each Recipient, its full address, the reason for which each commission or gratuity was paid and the amount and currency of each such commission or gratuity]*

Name of Recipient	Address	Reason	Amount
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

(If none has been paid or is to be paid, indicate "none.")

(h)	We understand that this bid, together with your written acceptance thereof included in your notification of award, shall constitute a binding contract between us, until a formal contract is prepared and executed.
(i)	We understand that you are not bound to accept the lowest evaluated bid or any other bid that you may receive.

Signed : *[insert signature of person whose name and capacity are shown]*
In the capacity of *[insert legal capacity of person signing the Bid Submission Form]*

Name : *[insert complete name of person signing the Bid Submission Form]*

Duly authorized to sign the bid for and on behalf of: *[insert complete name of Bidder]*
Dated on_____day of_____,_____*[insert date of signing]*

Tender No.:

ANNEXURE-E

MANUFACTURERS' AUTHORIZATION FORM

[The Bidder shall require the Manufacturer to fill in this Form in accordance with the instructions indicated. This letter of authorization should be on the letterhead of the Manufacturer and should be signed by a person with the proper authority to sign documents that are binding on the Manufacturer.]

Date : *[insert date (as day, month and year) of Bid Submission]*

Tender No. :*[insert number from Invitation For Bids]*

To : *[insert complete name and address of Purchaser]*

WHEREAS

We *[insert complete name of Manufacturer],* who are official manufacturers of *[insert type of goods manufactured],* having factories at [insert full address of Manufacturer's factories], do hereby authorize *[insert complete name of Bidder]* to submit a bid the purpose of which is to provide the following Goods, manufactured by us *[insert name and or brief description of the Goods],* and to subsequently negotiate and sign the Contract.

We hereby extend our full guarantee and warranty in accordance with Clause 2.20 of the General Conditions of Contract, with respect to the Goods offered by the above firm.

Signed: *[insert signature(s) of authorized representative(s) of the Manufacturer]*

Name: *[insert complete name(s) of authorized representative(s) of the Manufacturer]*

Title: *[insert title]*

Duly authorized to sign this Authorization on behalf of: *[insert complete name of Bidder]*

Dated on_____day of_____, _____*[insert date of signing]*

ANNEXURE-F

PERFORMANCE STATEMENT FORM

Details of similar equipment / systems supplied & installed during past 3 years in India & Abroad

Tender No.:

Name of the Bidder_____

Order Placed by (full address of Purchaser)	Order No. and date	Description and quantity of ordered equipment	Value of order	Date of completion of deliver as per contract	Date of actual completion of delivery	Remarks indicating reasons for late delivery, if any	Has the equipment been installed/ working satisfactory? (Attach a certificate from the purchaser / Consignee)	Name of Contact person along with Telephone No., Fax No. and e-mail address

Signature and Seal of the manufacturer/Bidder .....

Place :

Date :

ANNEXURE-G

Tender No.:

SERVICE SUPPORT DETAIL FORM

Sr. No.	List of similar type of equipment's serviced in the past 3 years	Address, Telephone Nos., Fax No. and e-mail address of the buyer	Nature of training Imparted/ service provided	Name and address of service provider

Signature and Seal of the manufacturer/Bidder.....

Place :

Date :

Tender No.: ANNEXURE–H

Format for declaration by the Bidder for Code of Integrity & conflict of interest
(On the Letter Head of the Bidder)

Ref. No: _____ Date:_____

To,

_____

_____
(Name & address of the Purchaser)

Sir/Madam,

With reference to your Tender No. _____dated _____I/We hereby declare that we shall abide by the Code of Integrity for Public Procurement as mentioned under Para 1.3.0 of ITB of your Tender document and have no conflict of interest.

The details of any previous transgressions of the code of integrity with any entity in any country during the last three years or of being debarred by any other Procuring Entity are as under:

a
b
c

We undertake that we shall be liable for any punitive action in case of transgression/ contravention of this code.

Thanking you,

Yours sincerely,

Signature
(Name of the Authorized Signatory)
Company Seal

Tender No: Annexure -I

SELF DECLARATION CERTIFICATE FOR LOCAL CONTENT

In Respect of NIT/RFQ No. .....issued by CSIR-National Aerospace Laboratories, Bengaluru

I, the undersigned, ……..... (full names), do hereby declare, in my capacity as ……..…… of .....(name of bidder / OEM), the following:

(a) The facts contained herein are within my own personal knowledge.
(b) I have read and understood the requirement of Local Content and same is specified as percentage calculated in accordance with the definition provided at clause 2 of revised **Public Procurement (Preference to Make in India) Order 2017.**
"Local content" as per above order means the amount of value added in India which shall be the total value of items procured (excluding net domestic indirect taxes) minus the value of imported content in the item (including all customs duties) as a proportion of the total value in percent."
(c) I have satisfied myself that the goods/services/works to be delivered in terms of the above-specified NIT comply with the local content requirements and I hereby confirm in respect of quoted item(s) that:

(i) Local Content is equal to --------- (in percentage) and come under 'Class-I Local Supplier Category' (The local content requirement to categorize a supplier as Class I Local Supplier is minimum 50%)

Or

(i) Local Content is equal to -------- (in percentage) and come under 'Class-II Local Supplier Category' (The local content requirement to categorize a supplier as Class II Local Supplier is minimum 20%)

(Tick appropriate Category of Local Supplier).
(d) The local content calculated using the definition given above are as under:

Sl. No	Name of Item / Equipment	Local content calculated as above (%)	Location of local value addition (Location shall be the specified as name of city or district, etc.)	Imported content including all Customs duties (%)
Note: Attach separate sheet duly signed if space is not sufficient.				

(e) I understand that if we are offering products with local content less than the minimum requirement prescribed under Clause 5 of the above order, we will fall under the category of Non-Local Suppliers. We can't claim ourselves as Class-I local suppliers/ Class-II local suppliers by claiming the services such as transportation, insurance, installation, commissioning, training and after sales service support like AMC/CMC etc. as local value addition.
(f) I also understand; false declarations will be in breach of the code of integrity under rule 175(1)(i)(h) of the General Financial Rules for which a bidder or its successors can be debarred for up to two years as per Rule 151(iii) of the General Financial Rules along with such other actions as may be permissible under law.

SIGNATURE: **DATE:** _____
Seal / Stamp

NB:
(i) Before completing this declaration, bidders must study the General Conditions, Definitions, Government Directives applicable in respect of Local Content & prescribed tender conditions.
(ii) In case the bidder is supplier and not OEM, then the above mentioned MII certificate should be given by the OEM in their letter head.
(iii) Local content percentage shall be declared item wise or tender wise strictly as per the terms of the tender.
(iv) Local Content Declaration to be signed by Chief Financial Officer or other Legally Responsible Person Nominated in Writing by The Chief Executive or Senior Member/Person with Management Responsibility (Corporation, Partnership or Individual).
(v) The obligation to complete, duly sign and submit this declaration cannot be transferred to an external authorized representative, auditor or any other third party acting on behalf of the bidder

Annexure: J

Tender No:
Date:

Sub: Undertaking for not being black listed

Tender Reference No.:

We confirm herewith that our company is not blacklisted, debarred or prosecuted by any Central Government or State Government department/Government Organization/PSU for corrupt, fraudulent or any other unethical business practices, we do not have any litigation pending with any of the Govt. Organizations.

Yours Faithfully,
(Signature of the Bidder, with Official Seal)

Tender No.:

ANNEXURE-K

SELF CERTIFICATION

With reference to Clause No. 1.1.3 of this tender and GoI Ministry of Finance Order No.: F. No. 6/18/2019-PPD dated 23rd July, 2020 on "Restrictions under Rule 144 (xi) of the General Financial Rules (GFRs)" & OM No. F. No. 18/37/2020-PPD dated 8thFebruary, 2021 and as amended from time to time on the date of issue of Tender:

It is certified that

□ We are not a bidder of a country which shares a land border with India.

OR

□ We are a bidder of a country which shares a land border with India, however, we are eligible to bid in any procurement whether of goods or services as we are registered with the Competent Authority as specified in Ministry of Finance (GoI) Order No. 6/18/2019 – PPD dated 23rd July 2020. Copy of valid registration is attached.

□ Tick as applicable

Place: Date:

Authorised Signatory Name:
Company Seal

ANNEXURE-L

Tender No.:

DEVIATION STATEMENT FORM

PART –I

The following are the particulars of deviations from the requirements of the tender specifications:

Sl.No.	Name of Specifications/ Parts/Accessories of Tender Enquiry	Specifications of quote Model / Part / Accessory	Compliance whether YES/NO	Deviation, if any to be indicated in unambiguous terms (The compliance/ Deviation should be supported by relevant Technical Literature)	Technical justification for the deviation, if any. If specification is superior / inferior than asked for in the enquiry, it should be clearly brought out in the justification

Signature of Bidder

- If the Bidder offers more than one model, then the Compliance Statement must be enclosed for each and every model separately.
- The Technical and Commercial deviations should be indicated separately.
- If the Bidder fails to enclose the compliance statement, his bid is likely to be rejected.
- Where there is no deviation, the statement should be returned duly signed with an endorsement indicating "No Deviations".

Place:

Date:

Signature and seal of the Manufacturer/Bidder

ANNEXURE–M

Tender No.:

PERFORMANCE SECURITY FORM/STAND-BY LETTER OF CREDIT

MODEL BANK GUARANTEE FORMAT FOR PERFORMANCE SECURITY/ STAND-BY LETTER OF CREDIT

To,
.....

WHEREAS..... (name and address of the supplier) (hereinafter called "the supplier") has undertaken, in pursuance of contract No. ..... dated .....to supply (description of goods and services) (herein after called "the contract").

AND WHEREAS it has been stipulated by you in the said contract that the supplier shall furnish you with a bank guarantee by a scheduled commercial bank recognized by you for the sum specified therein as security for compliance with its obligations in accordance with the contract;

AND WHEREAS we have agreed to give the supplier such a bank guarantee;

NOW THEREFORE we hereby affirm that we are guarantors and responsible to you, on behalf of the supplier, up to a total of..... (amount of the guarantee in words and figures), and we undertake to pay you, upon your first written demand declaring the supplier to be in default under the contract and without cavil or argument, any sum or sums within the limits of (amount of guarantee) as aforesaid, without your needing to prove or to show grounds or reasons for your demand or the sum specified therein.

We hereby waive the necessity of your demanding the said debt from the supplier before presenting us with the demand.

We further agree that no change or addition to or other modification of the terms of the contract to be performed there under or of any of the contract documents which may be made between you and the supplier shall in any way release us from any liability under this guarantee and we hereby waive notice of any such change, addition or modification.

This guarantee shall be valid until the ..... day of ....., 20.....

(Signature of the authorized officer of the Bank)

.....
Name and designation of the officer

.....
Seal, Name & Address of the Issuing Branch of the Bank

Note:
Whenever, the bidder chooses to submit the Performance Security in the form of Bank Guarantee, then he should advise the banker issuing the Bank Guarantee to immediately send by Registered Post (A.D.) an unstamped duplicate copy of the Guarantee directly to the Purchaser with a covering letter to compare with the original BG for the correctness, genuineness, etc.

Tender No.:

Annexure - N

Acceptance Certificate

PO No.				Date:	
Sub:	Certificate of Supply, Installation, Commissioning, Training and Acceptance of Goods & Services				
1	This is to certify that the equipment as detailed below has/have been received in good condition along with all the standard and special accessories (subjec to remarks in Para 2). The same has been installed, commissioned and accepted.				
(a)	Contract No.				
	Date				
	Value				
	Mode of Shipment				
(b)	Description of the Equipment				
(c)	Name of the Consignee	CSIR-CFTRI, Mysore			
(d)	Scheduled date of Delivery of the Consignment to the Laboratory/Institute				
(e)	Details of LC Established				
	Date of Establishment	Date of Shipment	Date of Expiry		
(f)	Actual date of receipt of Consignment by the Laboratory/Institute				
	Date of Shipment	Date of Receipt at CSIR-CFTRI			
(g)	Scheduled date for completion of Installation, Commissioning and acceptance				
(h)	Actual date of completion of Installation, Commissioning and acceptance				
(i)	Penalty for Late Delivery (at Laboratory / Institute level) Rs.				
(j)	Penalty for Late Installation, Commissioning and Acceptance (at Laboratory / Institute level) Rs.				
2	Details of accessories/items not yet supplied and recoveries to be made on that account				
Sr. No.	Description			Amount to be recovered	
3	The acceptance test has been done to our entire satisfaction. The Supplier has fulfilled his contractual obligations satisfactory - Yes				
	OR				
	The Supplier has failed to fulfill his contractual obligations with regard to the following:				
Sr. No.	Description			Amount to be recovered	
The amount of recovery on account of failure of the supplier to meet his contractual obligations is as indicated at Para 3					
4	Liquidated Damages/Penalty Percentage				
	No. of Days / Weeks delayed			Amount to be recovered	
5	Warranty Details				
6	Training, if any			COMPLETED/ NOT COMPLETED (attach training Certificate/document, if any)	
7	Details of Performance Security submitted in the form of Bank Guarantee / Demand Draft				
	BG No.	Date	Amount in Rs.	Valid till	% of BG
For Purchaser (Indenting Officer)			For Purchaser (Project Leader)		
Signature			Signature		
Name			Name		
Designation			Designation		
Name of the Laboratory/Institute	CSIR-CFTRI		Name of the Laboratory/Institute	CSIR-CFTRI	
Date			Date		
For Supplier					
Signature					
Name					
Designation					
Name of the Supplier					
Date					

CHAPTER- 9

Check List

Tender No.	CFTRI/74295/26-27	
Sr. No.		
1	Approximate weight & dimension of the Consignment	Approximate dimensions of the consignment
2	Indian Customs Tariff No. and HSN No. (ICT & HSN No.)	
3	Country of Origin	
4	Type of Supplier	
5	Mode of Shipment By Air /Road	
6	Delivery Term (INCO Term), as the case may be if supplied from abroad	
7	Delivery Schedule including Supply, Installation, Commissioning, Training & Acceptance	
a)	Delivery of the Item as per Chapter-4/BoQ [In weeks / Days / Months] from the date of PO/ establishment of LC	
b)	Installation & Commissioning from the date of Delivery of item [In weeks/Days/Months]	
c)	Training from the date of Installation & Commissioning of item [In weeks/Days/Months]	
d)	Acceptance from the date of Training [In weeks/Days/Months]	
8	Installation & Commissioning (if any) Quoted Price inclusive	Yes/No
9	Training (if any) Quoted Price inclusive	Yes/No
10	Payment Term	
11	Currency of Bid/Quotation	
12	Statutory Levies [GST/IGST or any other taxes, duties] % of tax to be mentioned.	

13	Bidder GST No.	
14	Bidder Bank Details along with Cancelled cheque	
15	Insurance Coverage as per GCC/SCC Clause No.2.17.1	
16	Warranty	
17	Agree to submit Performance Security as per GCC/SCC Clause No.2.13.1	
18	Validity of offer as per Tender document	
19	Order to be placed [Full address, Tel #, Fax #, Email Id, Contact Person]	
20	Any other	
21	Total Price quoted as per BoQ/Price Schedule/List of Deliverables inclusive of tax	Yes/No (Price not to be revealed)
22	Self-declaration (Annexure-L), if country of Origin is Foreign, Bidders may provide the details, as per GOI Procurement Policies (DIPP Order No.P-45021/2/2017-PP (BE-II).	