


Government eProcurement System		Government eProcurement System	
Tender Details		Tender Details	
		Date : 24-Jun-2025 11:05 AM Print	
Basic Details			
Organisation Chain	Council of Scientific and Industrial Research IHBT-Palampur - CSIR Purchase -IHBT - CSIR		
Tender Reference Number	4/5(53)25-Pur		
Tender ID	2025_CSIR_239038_1	Withdrawal Allowed	Yes
Tender Type	Open Tender	Form of contract	EOI
Tender Category	Goods	No. of Covers	1
General Technical Evaluation Allowed	No	ItemWise Technical Evaluation Allowed	No
Payment Mode	Not Applicable	Is Multi Currency Allowed For BOQ	No
Is Multi Currency Allowed For Fee	No	Allow Two Stage Bidding	No
Cover Details, No. Of Covers - 1			
Cover No	Cover	Document Type	Description
1	Fee/PreQual/Technical/Finance	.pdf	Expression of Interest (EOI) for supply of In-situ Root Analyzer/Image System
Tender Fee Details, [Total Fee in ₹ * - 0.00]		EMD Fee Details	
Tender Fee in ₹	0.00	EMD Amount in ₹	0.00
Fee Payable To	Nil	EMD Fee Type	fixed
Tender Fee Exemption Allowed	No	EMD Payable To	Nil
Fee Payable At	Nil	EMD Exemption Allowed	No
		EMD Percentage	NA
		EMD Payable At	Nil
Work /Item(s)			
Title	Expression of Interest (EOI)		
Work Description	Expression of Interest (EOI) for supply of In-situ Root Scanner/ Image System		
Pre Qualification Details	Please refer tender document		
Independent External Monitor/Remarks	NA		
Tender Value in ₹	NA	Product Category	Equipments (Hospital / Lab)
Contract Type	Tender	Sub category	NA
Location	CSIR-IHBT, Palampur (HP)	Bid Validity(Days)	90
Pre Bid Meeting Address	CSIR-IHBT, Palampur (HP) India	Period Of Work(Days)	60
Should Allow NDA Tender	No	Pincode	176061
		Pre Bid Meeting Date	08-Jul-2025 11:30 AM
		Bid Opening Place	CSIR-IHBT, Palampur (HP)/Online mode
		Allow Preferential Bidder	No
Critical Dates			
Publish Date	24-Jun-2025 11:00 AM	Bid Opening Date	15-Jul-2025 03:00 PM
Document Download / Sale Start Date	24-Jun-2025 11:00 AM	Document Download / Sale End Date	14-Jul-2025 03:00 PM
Clarification Start Date	24-Jun-2025 05:00 PM	Clarification End Date	07-Jul-2025 03:00 PM
Bid Submission Start Date	09-Jul-2025 03:00 PM	Bid Submission End Date	14-Jul-2025 03:00 PM
Tender Documents			
NIT Document	S.No	Document Name	Description
	1	Tendernotice_1.pdf	NIT for Expression of Interest (EOI) for supply of In-situ Root Analyzer/Image System
Document Size (in KB)	1440.35		
Work Item Documents	S.No	Document Type	Document Name
	1	Tender Documents	EOIRootScanner.pdf
Document Size (in KB)	1424.58		
Tender Inviting Authority			
Name	Stores and Purchase Officer		
Address	CSIR-IHBT, Palampur (HP) India		

 <p>सोल्सभादेभार CSIR भारत का नवोद्यम इंजन The Innovative Engine of India</p>	<p>सी.एस.आई.आर - हिमालय जैवसंपदा प्रौद्योगिकी संस्थान CSIR-INSTITUTE OF HIMALAYAN BIORESOURCE TECHNOLOGY (वैज्ञानिक तथा औद्योगिक अनुसंधान परिषद्/ Council of Scientific & Industrial Research) पोस्ट बॉक्स नं.06, पालमपुर-176061/ Post Box No.06, Palampur-176061 (हिमाचल प्रदेश/Himachal Pradesh), भारत/India e-MAIL: spo@ihbt.res.in, Phone: 91-1894-230425</p>	 <p>CSIR-IHBT INDIA 1983 उत्तम नवोद्यम का नवोन्मेष हब Innovation Hub for Better Tomorrow</p>
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EXPRESSION OF INTEREST (E.O.I)

for

Supply of “In-situ Root Scanner/ Image System”

EXPRESSION OF INTEREST (EOI)

CSIR- Institute of Himalayan Bioresource Technology (CSIR – IHBT) Palampur, HP, India is one of the premier laboratories under Council of Scientific and Industrial Research, an autonomous body under Department of Scientific and Industrial Research (Government of India), New Delhi.

Situated among pristine environ in the lap of Dhauladhar ranges, CSIR-IHBT is the only laboratory of the Council of Scientific and Industrial Research in the State of Himachal Pradesh (H.P.), India. Institute has a focused research mandate on bioresources for catalysing bioeconomy in a sustainable manner.

The institute has: state-of the art laboratories; remote sensing and mapping facilities; internationally recognised herbarium; animal house facility; pilot plants in nutraceuticals, essential oil and herbals; farms and polyhouses. The young and dynamic team of scientists propel the research and work dedicatedly to discover and find solutions to new challenging problems faced by the society. International collaborations further strengthen scientific interactions at a global scale. Promoting industrial growth through technological interventions is a constant endeavour and several technologies developed by the institute are transferred to industries. For socio- economic upliftment, regular training programmes and advisory services are rendered to farmers, floriculturists, tea planters and small entrepreneurs involved in food processing sector. Institute has been recognised as one of the Incubation Centres by MSME GoI and in the area of Affordable Health Care by DSIR. Institute encourages industries to share the technological problems faced them, such that efforts could be made in developing a viable solution. Confidentiality is strictly maintained.

Work on plant adaptation studies and high altitude medicinal plants are further strengthened by the field lab "Centre for High Altitude Biology (CeHAB) situated at Ribling in Lahaul & Spiti district of H.P. Through this centre, institute disseminates technologies by way of trainings and demonstrations that could transform the economy of the region and help in solving unique challenges faced by them. Institute fosters student-scientist interaction and school children are welcome to visit the Institute. Post graduate students can do project and sharpen their research skills at CSIR- IHBT. Young researchers are welcome for to do Ph.D in cutting edge areas under the able guidance of expert faculty. Institute passionately contribute its bit in the development of society, industry and environment.

With the above back ground, An Expression of Interest (EOI) is initiated at CSIR- IHBT with the prospective manufacturers, their authorized channel partners or agents/suppliers and system integrators to discuss with the Technical Committees on the aspects of utility, technology, feature, literature, design, technical parameters, clientele and other related issues of the equipment and material for the following item to be procured for CSIR-IHBT

Sl.No.	File/Ref. No.	Item Description
01	4/5(53)25-Pur	In-situ Root Scanner/ Image System

1. The address for submission of document and for obtaining further information:

Stores & Purchase Officer
CSIR – IHBT, Palampur -176061,
Himachal Pradesh (INDIA)
Tel. 91-01894-230425 / e-mail : spo@ihbt.res.in

2. The Bidding document can be downloaded free of cost directly from Central Public Procurement Portal (CPPP) of Government of India website <http://etenders.gov.in/eprocure/app> and CSIR-IHBT website www.ihbt.res.in

3. **Schedule for submission:** The prospective bidders should adhere to due dates specified in Tender Details corresponding to this Tender. The Schedule for Submission of proposals and Opening of proposals is as follows, through portal etenders.gov.in

Date & Time of Submission of proposals		Date and Time of Opening of proposals	
Date	Time (IST)	Date	Time (IST)
16th July 2025	15:00 Hrs	17th July 2025	15.00 Hrs

4. **PRESENTATION BY BIDDERS. Presentation by bidders** is scheduled for 08.07.2025, from 11.30 A.M onwards. Venue is CSIR- IHBT – Purchase Section meeting room/J.C Bose Conference Hall. **Interested bidders are requested to send email to spo@ihbt.res.in confirming their willingness for making their presentation, on or before 07.07.2025, 3.00 p.m.** Bidders will be allotted time slots to make presentations

- a. on their products profile in brief
- b. detailed specifications and
- c. technical capabilities.

5. The bidders' representatives who will make the presentation should possess all the technical details of the machinery, its capacity, complete information on the company, previous experience, various technologies involved, service centres available in India /abroad and financial capabilities to execute project. The representatives should be capable enough to answer all queries of the Technical Sub Committee.
6. The Technical Sub Committee (TSC) shall finalize specifications after knowing/obtaining details about relevant/available technology in the market suiting to the requirement and R&D needs of our Laboratory.
7. For evaluating the responses, CSIR-IHBT may call for further presentations of their case in person

or Presentation can be considered via Skype/Video Conferencing also.

8. The Director, CSIR- Institute of Himalayan Bioresource Technology (CSIR – IHBT) Palampur HP, India reserves the right to accept or reject any or all EOI Notification/tenders/offers or withdraw the Notice at any stage of processing without assigning any reason whatsoever, such an event would not cause obligation of any kind to CSIR- IHBT

Stores & Purchase Officer

1. **INTRODUCTION**

CSIR IHBT is planning to procure a In-situ Root Scanner/ Image System (Quantity: 1) suitable for Studying root architecture, biomass allocation, and depth profiling in different soil and cropping systems and other R&D activities of the institute.

2. **OBJECTIVE**

The objective of this EOI is to receive complete technical proposals, detailed specifications of various machinery / process involved, study drawings, study plan layouts, understand various technologies and processes involved, understand bidder capabilities to execute such supplies and then finalize specifications, list of machinery / items etc and also set eligibility criteria for bidders etc.

3. **SCOPE OF SUPPLY**

Details about specific R&D application needs and general requirements of the instrument are provided below. However, the exact detailed technical requirements and specifications will be finalized in discussion with the expert committee

Application Needs (representative): In-situ Root Scanner/ Image System should be capable of performing

- 1) Accurate scanning of plant root system by non-destructive method
- 2) High-resolution digital color images of roots, root hairs, and mycorrhizae in the soil
- 3) Allowing observation of root growth and behavior over time.
- 4) Able to detect the timing of new growth or dormancy
- 5) Capable to visualize the interaction between roots and the soil

Tentative basic requirements are given below:

1. The instrument should produce high resolution image with the minimum scanner resolution of 20 million pixels.
2. The scanner within the tube should be rotated at 360-degree to scan all horizontal and vertical roots of plants around the tube.
3. The maximum scanning speed should have 30-150 seconds depending on scanning resolution.
4. The image resolution should be ranging from 400-600DPI or better.
5. Scanner should have with USB interface for connecting to computer for root images.
6. The dimensions of scan head should be ranged from 30-34 cm long and 5-6 cm diameter or better.

7. Standard Clear Tube (for installation in field) with 5-6 cm inner diameter, 90-100cm length to cover the maximum area of root zone/rhizosphere.

8. Scanner should be portable and convenient to transport and insert into root tubes

9. Allows observation of root growth and behavior over multiple growing seasons

10. Software

- The software should have the integrated image enhancement feature, automated "Snap to Root" functionality and time-series root analysis feature
- The software should be able to detect or measures root length, area, volume, & diameter of root within the rhizosphere.

11. Additional Accessories-

- 1) Auger: 2 No's with 2-3" diameter 24-34" length
- 2) standard clear tubes with end caps: 20 Nos.
- 3) Laptop with latest operating system and preloaded software for data processing

12. Control computer/laptop

The system should be supplied with a laptop/PC/handheld PC with factory-loaded pre-installed software. The configuration of the PC should be equivalent or better to the following specs: Intel Core i7, 32 GB RAM, 1TB SSD, and compatible latest licensed Windows operating system (64 bit).

13. Warranty

Minimum 2-year unconditional comprehensive on-site warranty on the complete system including accessories should be provided for the continuous operation of the instrument.

14. Installation and Commissioning

- 1) Installation and commissioning should be at CSIR-IHBT site. The expenditure involved in it will be borne by the supplier.
- 2) Necessary pre-installation advice should be enclosed along with the technical bid.

15. Application Training

On-site training (from operating the instrument to complete architecture determination) after the successful installation should be provided. This training must be provided by an application scientist and the training must be on basic and advance capabilities.

The exact detailed technical requirements and specifications will be finalized in discussion with the committee

MANDATORY CRITERIA/ CLAUSE FOR SELECTION OF BIDDER

- Minimum, 1-2 order copies of executed In-situ Root Scanner/ Image System should be provided by the -bidders from any Indian universities/research organizations/Govt. Institutes.
- The bid must be supported with order copies of end user name and contact details with date and supply year.
- Bidders must quote the complete functional system.

4. Eligibility Criteria

Technical

1. Original Equipment Manufacturers (OEMs) / Authorized Agent who have proven expertise in successful supply and installation criteria of In-situ Root Scanner/ Image System. **The bidder should have successfully supplied and installed at least one In-situ Root Scanner/ Image System of similar specifications, in the last 2 years as on the date of bid submission. Documentary evidence to this effect shall be attached to the EOI / Proposal.**

Commercial

1. The bidder should not have been black listed / holiday listed by any other CSIR laboratory, or by any other R&D organization or by Government of India. A self-declaration letter in this regard must be enclosed.

2. Proposals

1. Technical

- a) Detailed specifications of various machinery / instruments involved supported by technical brochures / data sheets in English. The Bidder shall provide the complete technical information (without any IP related material) with specific OEM name, Model Number etc.
- b) Write up / detailed brochure / datasheets on the technologies / techniques involved.
- c) Electrical requirements – voltage, frequency, single phase / three phases, total power consumption in kwh.
- d) Requirement of special foundation / flooring for each machine. If required, then clear details.
- e) Plant lay out drawing in English. Dimensions must be in Metric (mm / cm / Metres).
- f) Other utilities required
- g) Backup power supply like diesel generator requirements
- h) Total space for plant requirements

2. Bidder Information

- a) Company information – Status of bidder, registration certificate, and detailed write up about bidder history.
- b) Details of Personnel – Details of all key technical, commercial and service personnel.
- c) Details of Production capacity, location of factory involved in production of machinery etc.

- d) Details of financial information about company in the last 3 years, like turnover, copies of audited balance sheet etc.
- e) Copy of solvency certificate from banker.
- f) Details of service setup in India.
- g) Self certified letter about holiday listing / black listing in bidder letter head.
- h) If dealer / authorized channel partner / distributor etc. Manufacturer authorization letter.
- i) Copies of Purchase orders / contracts of similar supply made in the last 2 years and the performance certificate from the respective clients.
- j) The Bidder shall indicate the timelines necessary for supply / installation / commissioning of the items under Scope of Work.

Similar Work Experience Details:

Sl. No.	Name of the work with location	Date & Ref.no of completion certificate (If available)	Date of startCost of work	Reference document (Work Order/ Work Completion Certificate) to be attached, mention page no

3. **Other Terms**

Purchase of EOI Document

The Expression of Interest document shall be downloaded from Central Public Procurement Portal (CPPP) of Government of India website <http://etenders.gov.in/eprocure/app> and CSIR-IHBT Website www.ihbt.res.in free of cost.

Clarifications on the EOI Document

Any clarification in the EOI document may be sent in writing to the following through email:

Stores & Purchase e-mail spo@ihbt.res.in

However, no extension of the time or date of EOI submitted will be provided on the ground that CSIR-IHBT has not responded to any query/clarification raised by any Bidder.

Amendment of Terms and Conditions of EOI

CSIR-IHBT may at its discretion or as a result of a query, suggestion or comment of an Bidder, may modify the EOI document by issuing an amendment or a corrigendum at any time before opening the EOI. Any such Addendum or Corrigendum will be

uploaded on CPPP Portal <http://etenders.gov.in/eprocure/app> and CSIR-IHBT's website and the same will be binding on all the Bidders, as the case may be.

CSIR-IHBT at its discretion may extend the due date of submission of EOI and the decision of CSIR-IHBT in this respect would be final and binding on the respondents. In the event of changes in the time schedule, CSIR-IHBT shall notify the same only through its CSIR-IHBT website www.ihbt.res.in. Interested Bidders are advised to check the above website regularly for corrigendum / addendum, if any, which will be published only in the web site.

No oral modification or interpretation of any provisions of this EOI shall be valid. Written communication shall be issued by CSIR-IHBT when changes, clarifications or amendments to the EOI document are deemed necessary by CSIR-IHBT at its sole discretion.

EOI submission should be in English language. EOI response should be free from correction, over writing, erasures etc. Duly authorized representative of the Applicant shall sign on each page of the EOI documents. EOI documents should be prepared in such a way so as to provide a straight forward, concise description of Applicant and capabilities to satisfy the requirements of this EOI.

If at any time during the examination, evaluation and comparison of EOI, CSIR-IHBT at its discretion can ask the Bidder for the clarification of its EOI. The request for clarification and the response shall be in writing. However, no post submission of EOI, clarification at the initiative of the Bidder shall be entertained.

Canvassing by respondents in any form, including unsolicited letters on EOI submitted or post corrections shall render their EOI response liable for summary rejection.

The cost or charges incurred in preparation and submission of EOI response shall not be entitled by any respondent.

Conditional offers will be summarily rejected. EOI which is found to be incomplete in content and / or attachments and / or authentication etc. is liable to be rejected.

No Agent/Agents or third party/parties are engaged by CSIR-IHBT in this process.

CSIR-IHBT is not responsible for any firm/agency expression or representing to express himself/herself/themselves to be the agent or third party representing CSIR-IHBT in this process.

It is advised to deal directly with CSIR-IHBT representative who is the signatory to this document. Disregard of any instruction may result in offer being ignored.

EOI that are incomplete in any respect or those that are not consistent with the requirements as specified in this document may be considered non-responsive and may be liable for rejection and no further correspondence will be entertained with such Bidders.

All cost and expenses associated with submission of EOI shall be borne by the Bidder while submitting the EOI. CSIR-IHBT shall have no liability, in any manner in this regard, or if it decides to terminate the process of short listing for any reason whatsoever.

NON-COMMITTAL EOI.

After short listing of bidders at this EOI stage, the second stage bidding may not be restricted to short listed bidders only and CSIR – IHBT may resort to Open / Global Tendering for further participation by potential bidders. This may please be noted by all concerned.

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