



भारतीय  
प्रौद्योगिकी  
संस्थान  
काशी हिन्दू विश्वविद्यालय



INDIAN  
INSTITUTE OF  
TECHNOLOGY  
BANARAS HINDU UNIVERSITY

IIT(BHU)/IPCell/2024-25/TCCF/EoI/327

22.08.2024

**EXPRESSION OF INTEREST (EOI)  
FOR  
SUPPLY, INSTALLATION, INTEGRATION, AND COMMISSIONING  
OF  
THIN CLIENT-BASED COMPUTING FACILITY (TCCF)  
AT IIT (BHU), VARANASI**

The Indian Institute of Technology (Banaras Hindu University) [IIT (BHU)] invites Expressions of Interest (EOI) from eligible, qualified, and capable OEMs (or bidders, if the bidder is not the OEM) to establish (Supply, Installation, Integration, and Commissioning) a Thin Client-based Computing Facility (TCCF). A detailed description of the proposed TCCF can be found in Annexure-I.

Expressions of Interest (EOI) must be submitted through the CPP portal only for the implementation of the TCCF. The EOI, along with the required documents, must be submitted no later than **September 6, 2024, 5:00 PM**. The EOI document can be downloaded from the IIT (BHU) website: <https://www.iitbhu.ac.in/tenders/> and Central Public Procurement Portal <http://eprocure.gov.in/eprocure/app>.

**(A) Terms & Conditions:**

1. The OEMs interested in bidding for the TCCF should have a well-established manufacturing unit or research and development lab, either in India or abroad.
2. If the bidder is not the OEM, they should possess valid authorization certificates from the OEMs of specified components of the TCCF for this specific EOI. The authorization letter from the OEM must clearly state that the bidder is authorized to respond to this EOI, reference number **IIT(BHU)/IPCell/2024-25/TCCF/EoI/327 dated 22.08.2024**. The letter should also highlight that it shall remain valid for a minimum period of **180 days** from the date of opening of the EOI.
3. The bidder should submit a single proposal to establish (supply, install, integrate, and commission) the TCCF at IIT (BHU) Varanasi.
4. The bidder should have at least 3 years of experience in establishing (supplying, installing, integrating, and commissioning) a minimum of 200-terminal client TCCF in a single order at IITs, NITs, IIITs, or similar institutions of national importance or research laboratories.
5. The bidder should be ISO certified.
6. The OEMs interested in bidding for the TCCF quoted by the bidder should have local Technical Assistance Centre (TAC) support in India, including online support, next business day delivery, a toll-free number, and a Returned Materials Authorization (RMA) depot in India.

7. The OEMs interested in bidding for the TCCF quoted by the bidder should have been in business operations continuously in the country at-least for a period of five (05) years with positive net worth in last three financial years (2020-21, 2021-22 & 2022-23). Higher experience will be preferred.
8. The bidder should submit all the required standard reports and certificates relevant to the proposed TCCF; failing which, the bidder will be disqualified from participation in the EOI. The OEM will be required to provide a comprehensive performance warranty of at least 5 years from the date of commissioning the TCCF.
9. The EOI proposal should include supporting documents related to all the products required for the establishment of the proposed TCCF.
10. After the evaluation of the EOI proposals, only the shortlisted bidders will be invited to give a detailed presentation on the proposed TCCF, taking into consideration the existing network infrastructure at IIT (BHU).
11. The EOI submitted shall remain valid for acceptance for a period of **180 days** from the date of opening.
12. IIT (BHU) reserves the right to cancel this call for EOI at its sole discretion at any time during the purchase process.

**(B) Important dates:**

1. For any clarification, please write to: [chair.lan@iitbhu.ac.in](mailto:chair.lan@iitbhu.ac.in), latest by **31.08.2024**.
2. Last date of submission of EOI bid: **06.09.2024 (up to 5:00 pm)**
3. Opening of EOI bids: **09.09.2024 at 3:30 pm** in Ground Floor, Committee Room, Admin. Building, IIT (BHU), Varanasi. Representatives of EOI bidders may be present during the opening of the EOI bids. No further notice will be sent to this effect.

**(C) Disqualifier:**

1. Non-compliance with any eligibility criteria listed in terms & conditions.
2. Any falsification of supporting data/ claim /proofs /documents provided in the EOI proposal.

## Annexure-I

### **Proposed TCCF:**

The institute is interested in creating a TCCF with up to 150 clients per cluster, totalling up to 500 clients across different departments, to provide computational capability for undergraduate labs. The detailed specifications are described below:

- Thin Client (includes but is not limited to):
  - Thin client device, keyboard and mouse bundle, and monitor.
  - The TCCF should have virtualisation or shared computing software to allow up to 150 - 500 concurrent users to share a host computer or server.
  - Users should be able to securely login and run the OS and applications using zero or thin clients using virtualisation or shared computing-based software that supports recent and/or popular OS versions.
  - The solution should support full-HD graphics, motion, and full-screen videos in all common and popular file formats, with an audited response time.
  - The client terminal should support commonly used ports, including HDMI and VGA display ports, USB, RJ45 (and/or optical port), audio in/out ports, and optionally an external Wi-Fi antenna.
  - Configuring user USB, audio, resolution, video, etc.
  - Monitor mounting bracket and anti-theft gadget should be included along with the access device.
- TCCF built-in features (included but not limited to):
  - The Rack/ Tower Server should support up to 150 - 500 concurrent clients without performance degradation and at peak performance.
  - Secure user isolation
  - IP virtualization on managed network
  - Complete administrator visibility
  - Creating and managing user accounts and passwords
  - Monitoring and controlling end-user client terminals
  - Broadcasting the administrator's desktop to end users
  - Controlling the privacy and visibility of disk partitions to users
  - Provision of daily incremental and weekly full backups of the TCCF
  - Web camera and microphone support for online meetings or other applications
  - The software stack proposed by the bidder must be clearly offered in perpetual or annual licensing models.
  - Security software should be enterprise-grade with automatic updates.
  - System uptime should be 99.9% available, except for scheduled maintenance.
  - Guaranteed QoS with minimum bandwidth and maximum latency audit

**FORMAT-1**

<b>Bidder's Compliance Sheet</b>			
<b>Parameter</b>	<b>Compliance Requirement</b>	<b>Remarks</b>	<b>Enclosures (if any)</b>
OEM or Bidder is the original manufacturer	Yes/No		
Valid authorization certificate from OEM	Yes/No		
Single proposal for complete TCCF setup	Yes/No		
Years of experience in setting up TCCFs (Min 3 years)	Number of years		
Previous TCCF setups of at least 200 terminals	Yes/No		
ISO certification status	Yes/No		
Existence of Local TAC support in India	Yes/No		
Years of continuous business operation (Min 5 years) Format-5 to be certified & validated by Chartered Accountant (CA) of the bidder's organization Comprehensive performance warranty (Min 5 years)	Yes/No Number of years		
All supporting documents included	Yes/No		
EOI proposal validity period (Min 180 days)	Number of days		
Thin client device, keyboard, and mouse included	Yes/No		
Support for Full-HD graphics and full-screen videos	Yes/No		
Server capability for up to 150 - 500 concurrent clients	Yes/No		
Enterprise-grade security software with automatic updates	Yes/No		
System uptime guarantee of 99.9%	Percentage		
Guaranteed Quality of Service (QoS)	Yes/No		
Network and hardware specifications meet requirements The firm should not be blacklisted by any Central Govt. / State Govt. / PSU/Govt. Bodies PAN and GST Registration Certificates The applicant shall be a firm/ company/ partnership/ proprietorship firm registered under the Indian Companies Act, 1956/ the partnership Act, 1932 etc.	Yes/No  Yes/No		

Signature of the applicant

[Full name of applicant]

Stamp.....

Date:

**FORMAT – 2**

**APPLICANT'S EXPRESSION OF INTEREST**

To,  
Registrar  
IIT (BHU), Varanasi

**Sub: Submission of Expression of Interest For Supply, Installation, Integration and Commissioning of Thin Client based Computing Facility (TCCF) at IIT (BHU), Varanasi.**

Dear Sir,

In response to the Invitation for Expressions of Interest (EOI) published on DD.MM.YYYY for the above purpose, we would like to express interest to carry out the above proposed task. As instructed, we attach following documents:

1. Organizational Details (Format-3)
2. Experience in related fields (Format-4)
3. List of experts on payroll (Format-5)
4. Financial strength of the organization (Format-6)
5. Declaration (Format-7)

Encl.: As above.

Sincerely Yours,

Signature of the applicant

[Full name of applicant]

Stamp.....

Date:

Note: This is to be furnished on the letter head of the organization.

**FORMAT – 3**

<b>S. No.</b>	<b>Organizational Contact Details</b>
1.	Name of Organization
2.	Main area of business
3.	Type of Organization Firm/ Company/ partnership firm registered under the Indian Companies Act, 1956/ the partnership Act, 1932 etc.
4.	PAN (Attach self-attested copy)
5.	GST No. (Attach self-attested copy)
6.	E.P.F. Registration No. (Attach self-attested copy)
7.	E.S.I. Registration No. (Attach self-attested copy)
8.	Whether the firm has been blacklisted by any Central Govt. / State Govt./PSU/ Govt. Bodies / Autonomous? If yes, details thereof.
9.	Address of registered office with telephone no. & fax
10.	Contact Person with telephone no. & e-mail ID

Enclosure: -

1. Copy of Certificate of Incorporation.
2. Undertaking in respect of 4 above.

Signature of the applicant

[Full name of applicant]

Stamp.....

Date:

**FORMAT – 4**

<b>Experience in Related Fields</b>					
Overview of the past experience of the Organization in all aspects related to Supply, Installation, Integration and Commissioning of Thin Client based Computing Facility (TCCF)					
S. No.	Items	Number of Assignments during last 3 years	Order Value of each assignment in Rs. (Enclose copy of each order)	Mention the name of Client/ Organization (Enclosed completion certificates)	Remarks, if any
1	Experience related to Supply, Installation, Integration and Commissioning of Thin Client based Computing Facility (TCCF)				
Decision of Evaluating Committee in ascertaining “similar nature” and “similar assignment” will be final.					
Signature of the applicant Full name of applicant Stamp & Date					

**FORMAT – 5**

<b>List of experts/consultants on payroll</b>				
S. No.	Name	Designation	Qualification	Relevant Experience
1.				
2.				
3.				
4.				
5.				
6.				

Signature of the applicant  
Full name of applicant  
Stamp & Date



**FORMAT – 6**

<b>Financial Strength of the Organization</b>					
S. No.	Financial Year	Whether profitable Yes/NO	Annual net profit (in Crores of Rs.)	Overall annual turnover (in Crores of Rs.)	Annual turnover from only required services rendered (in Crores of Rs.)
1	2020-21				
2	2021-22				
3	2022-23				

Note: Please enclose auditor's certificate in support of your claim.

Signature of the applicant

[Full name of applicant]

Stamp.....

Date:

**FORMAT -7**

**Declaration**

We hereby confirm that we are interested in competing for the Services to undertake the task related to related to Supply, Installation, Integration and Commissioning of Thin Client based Computing Facility (TCCF).

All the information provided herewith is genuine and accurate.

Authorized Person's Signature.

Name and Designation:

Date of Signature:

Note: The declaration is to be furnished on the letter head of the organization.

Signature of the applicant

[Full name of applicant]

Stamp.....

Date: