



NATIONAL INSTITUTE OF TECHNOLOGY KARNATAKA, SURATHKAL
NOTICE INVITING TENDER (N.I.T)
(UPDATED ON 17-7-2019)

Tender Notification	CCC/SRVRS/doc4 dated
Estimated amount put to Tender	Rs 6000000/-
E M D Amount	Rs 120000/- (2% of Estimated cost)
Supply Period	Within 3 weeks (See page 10)
Last Date for submission of tender	(on or before) 7-8-2019 4PM
Address for Submission of Tender	Office of the Chairman, Central Computer Centre , NITK Surathkal , Srinivasnagar PO , DK, Karnataka , PIN 575025
Date of opening of technical bid	8-8-2019 , 3PM
Date of opening of financial bid	Will be notified later



NATIONAL INSTITUTE OF TECHNOLOGY KARNATAKA, SURATHKAL
CENTRAL COMPUTER CENTRE
NOTICE INVITING TENDER (N.I.T)

The National Institute of Technology Karnataka, Surathkal (in short-NITK, Surathkal) is an autonomous body under Ministry of HRD Govt. of India, imparting Technical Education and engaged in Research Activities. It is proposed to procure the equipments for the departmental academic/ research activities. Sealed Tenders are invited for the following services in two cover system (i.e., Technical bid and financial bid) subject to the following terms and conditions, from the reputed bidders so as to reach this office on or before scheduled date and time. The tender (Technical bid) will be opened on the specified day in the presence of bidders or their authorized agents who may choose to be present. The financial bid of only such bidders whose technical bid is accepted shall be opened later similarly on a pre-informed date.

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Date of opening of financial bid	Will be notified later

*Note: Bids will NOT be received after **the deadline of (on or before) 7-8-2019 4PM**. Bidders are hereby advised to ensure that their bids reach the address as mentioned above well before the deadline.*

Sd/-

Chairman
Central Computer Centre

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Important Note

1. This version (updated on 17-7-2019) of the tender document supersedes all the previous versions if any of the tender document.
 2. The bidders are advised to follow this document while bidding.
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1 Introduction

1.1 Objective

NITK wishes to identify a **SERVERS FOR CCC** for the Central Computer Centre. Sealed Tenders are invited from reputed firms for the Servers for CCC.

1.2 Procedure

A **two-stage** procedure will be adopted for evaluation of tenders submitted in response to this Notice Inviting Tender. Minimum qualification or background in terms of revenue, work experience and

technical expertise expected from the bidder to participate in the bidding process shall be as given elsewhere in this document.

The **technical bid** shall be evaluated in terms of the Specifications, commitments and capability of the bidder in performing similar assignments etc.

The **commercial bid** shall contain the financials pertaining to the services required for maintaining of the network. Commercial bid of only those bidders who pass the technical bid evaluation shall be considered for evaluation.

Successful bidder shall be that bidder who has submitted the lowest *qualified bid*.

1.3 Need to Maintain Confidentiality

1. All data found in this document and associated documents are considered to be confidential information.
2. Further, data gathered as a result of meetings and walk-through visits is considered to be confidential information. This confidential information shall not be distributed outside of organizations directly related to the contractor without expressed, written approval from NITK Surathkal.

2 Submitting the bids

The bid should be submitted in two cover system — Technical Bid and Financial Bid as given below.

2.1 Technical Bid

The bidder should give details of their technical soundness and provide list of customers of previous services to Universities, Institutes or Government Departments/ Undertakings/ public sectors with contact details. The details of the bidder/ profile should be furnished along with the copy of all related documents. This envelope should be sealed and duly super-scribed as **Envelope No. 1 :Technical Bid**. Full name and address of the agency should also be mentioned on envelope and should be addressed to The Director, NITK, Surathkal. The following documents must be enclosed:

2.1.1 Documents needed for technical bid

1. **Documentary proof and compliance report as per section 4 that the Specifications for the servers and switches are matching to the specifications given elsewhere in this document.**
2. **Unpriced** copy of the financial bid with terms and conditions.
3. Proof that the bidder has 5 years experience (Ref 3.3.1)
4. Proof that the bidder is certified ISO 9001
5. Proof that 3 similar supply and installations costing not less than Rs 25 lakhs are carried out within the last two years.
6. Licence certificate for supplying the goods.
7. List of Owner/partners of the firm and their contact numbers
8. Income tax PAN number.

9. GST Details.
10. Name and Contact Address of the Bidder with e-mail address
11. List of customers with contact details: Reference Letter /Phone Number / Contact address of three places or more where you have carried out similar work (Networking projects only).
12. The extract of the Balance sheet, Profit & Loss A/c., Trade or Manufacturing A/c for the last 3 years should be enclosed as proof with the relevant information highlighted.
13. The bidder must give the following **declaration, contract and certificate** in the business letter head and/or with business seal. If these are not given, the bid shall be treated as non-responsive and rejected.

a) **Declaration**

(To be provided by the bidder in the business letter head and/or with business seal)

I/we have not tampered/modified the tender forms in any manner. In case, if the same is found to be tampered/modified, I/we understand that my/our tender will be summarily rejected and full Earnest money deposit will be forfeited and I/we am/are liable to be banned from doing business with NITK, Surathkal and/or prosecuted.

Signature of the Bidder :

Name and Designation :

Business Address :

Seal of the Bidder's Firm

Place:

Date :

b) **Contract Form**

(To be provided by the bidder in the business letter head and/or with business seal)

i. **Contract**

(Name of the Supplier's Firm) hereby abide to supply the items in the delivery schedule (mentioned in the section 5 in the page 14 of the tender document) for supplying the items if the purchase order is awarded.

ii. The items will be supplied conforming to the specifications stated in the tender document without any defect and deviations.

iii. Warranty will be given for the items supplied for the period mentioned in the tender document and service will be rendered to the satisfaction of NITK, Surathkal during this period.

Signature of the Bidder :

Name and Designation :

Business Address :

Seal of the Bidder's Firm

Place:

Date :

c) **Certificate**

(To be provided by the bidder in the business letter head and/or with business seal)

This is to certify that we are not blacklisted by any of the Central Government Department and any State Department / PSU / Banks & Financial institutions on account of corrupt or

fraudulent practices. Further, we understand that such blacklisting if any discovered in the future shall be a disqualification and shall result in the tender being rejected irrespective of the processing status of the tenders.

Signature of the Bidder :

Name and Designation :

Business Address :

Seal of the Bidder's Firm

Place:

Date :

14. EMD in original form valid for minimum six months, through Bank Guarantee or Demand Draft only drawn on any scheduled bank in favour of Director NITK, Surathkal, payable at Surathkal should be submitted. EMD shall bear no interest. Any bid not accompanying with EMD is liable to be treated as non-responsive and rejected *except for those firms who are eligible for exemptions as per existing rules.*
15. The bidder must include a print out of this tender document duly signed and stamped on all pages together with their bid.

The above documents should be furnished in the technical bid envelope.

2.2 Commercial bid

The bidder should submit their financial bid in Envelope 2 as per the price schedule format given in Section 5 in page 14 of this document. The rate should be quoted both in words and figures. All the pages of the financial bid should be signed affixing the seal. All corrections and overwriting should be initialed. This envelope should be duly superscribed as **Envelope No. 2 : Financial bid**. Full name and address of the agency should also be mentioned on the envelope and should be addressed to **The Director, NITK, Surathkal**.

2.3 How to Submit

Both the Envelopes No. 1 and 2 should be kept in another separate envelope duly superscribed with the following details.

1. Tender Notification Number : CCC/SRVRS/doc4 dated
2. FACILITY MANAGEMENT – NETWORKS, NITK SURATHKAL
3. Not to Open before (Last Date for submission of tender): (on or before) 7-8-2019 4PM

Mention **KIND ATTENTION : CHAIRMAN, CCC PH: 0824 2473057** and submit at the address given in the Notice Inviting Tender.

Last Date for submission of tender : **(on or before) 7-8-2019 4PM**

Note: NITK Surathkal will not be responsible for non-receipt /non delivery of the bids due to wrong addresses / postal delays / courier delays or any other similar reasons.

3 Important Information to the Bidder

3.1 General Instructions

1. The tender will be acceptable only from the actual firm bidding. In case of any default noted, the EMD will be forfeited even if pre-qualified.
2. Incomplete or conditional tender will be rejected. A bidder must bid for all items specified in the schedule. Partial bidding will be treated as incomplete and will be rejected.
3. Performance Security of 5 % of contract value in terms of Bank Guarantee by scheduled banks shall be given by the successful bidder for two quarters. *The EMD shall be released after receipt of performance security from successful bidder.*
4. Validity of bids: The rate quoted should be valid for the tenure of the Service Level Agreement. No claim for escalation of rate will be considered after opening the Tender.
5. Clarification of Tender Document:
A prospective bidder requiring any clarification of the Tender Document may communicate in writing to the email ccprocurement@nitk.edu.in on or before 24-7-2019. The compiled response will be uploaded as an annexe to the notification before the last date. There will not be an in person pre-bid conference. No communication will be entertained after this specified date from the bidders or their principals until the tendering process is completed. Violation of this can result in bid rejection.
The Institute can however, ask for clarifications if any, and the bidders are expected to respond. Lack of response from them will enable the Institute to arrive at its own decision about such bids.
6. Amendment of Tender document: At any time prior to the last date for receipt of bids, Institute reserves the right for any reason whatsoever, whether at its own initiative or in response to a clarification requested by prospective bidder, modify the Tender document by an amendment. Such amendments if any, shall be duly uploaded to the Institute website. The bidders are hereby advised to watch the Institute website for any such updates.
7. Institute reserves the right to extend the last date for the receipt of bids at its own discretion.
8. The bids shall be written in English language and any information printed in other language shall be accompanied by an English translation, in which case for the purpose of interpretation of the bid, the English translation shall govern.
9. The Institute reserves the right of (i) accepting any bid other than the lowest (ii) rejecting all the bids (iii) accepting or rejecting any Bid, without assigning any reason thereof. No correspondence in this regard will be entertained. The decision of the Institute Purchase Committee shall be final in all matters of tender and purchase.
10. The Institute reserves the right to cancel or reduce the quantity included in the schedule of requirements at any time after acceptance of the tender without a notice. The Contractor/Supplier shall have no claim to any payment of compensation or otherwise whatsoever, on account of any profit or advantage which he might have derived from the execution of the work/supply in full but he did not derive in consequence of the foreclosure of the whole or part of the works/supply.

11. In case of dispute, the matter will be subject to Mangalore Jurisdiction only.
12. The rates quoted shall be all inclusive. However, Service charges and other levies shall be indicated clearly. GST and/or other duties legally leviable and intended to be claimed should be distinctly shown in the tender.
13. The Financial bid shall be in general in the format of Price Schedule (section 5 in 14) given in this document.
14. Details of services expected , approximate quantity and other details are mentioned elsewhere in this document.
15. GST Registration Number and its validity should be indicated. Documentary evidences be supplied/ attached to the tender documents.
16. **Important points about bid evaluation:**
 - a) Conditional bids shall be summarily rejected.
 - b) The bids will be examined to determine whether they are complete, whether any computational errors have been made, and whether the bids are generally in order.
 - c) All rates shall be indicated both in words and figures. Where there is difference between the rates quoted in words and figures, rate quoted in words will prevail.
 - d) Errors in financial bid will disqualify the bid except when the purchase committee decides to condone such errors by resolving it as given below:

Arithmetical errors found if any will be rectified on the following basis: If there is a discrepancy between the unit price and the total price that is obtained by multiplying the unit price and quantity, the unit price shall prevail and the total price shall be corrected. If the Bidder does not accept the correction of the errors, such bids will be rejected. If there is a discrepancy between words and figures, then amount in words will prevail.
 - e) The decision to condone such errors is the prerogative of the purchase committee and no communications shall be entertained in this regard by any of the bidders or their competitors.
 - f) The committee can ask for clarifications if any and the bidders may answer them. Lack of response from them will enable the committee to arrive at its own decision about such bids. No further communications shall be permitted.

3.2 Important matters related to Financial Bid

1. The rates should be quoted for preferably FOR destination from supply within India.
2. In case of import both CIF and/ or FOB rate should be quoted. All components of expenditure to arrive at Bangalore need to be explicitly specified.
3. The institute is eligible for customs duty exemption
4. The rate quoted should be on unit basis. Taxes and other charges should be quoted separately, considering exemptions if any.
5. Rates quoted should be inclusive of Testing, commissioning and Installation of equipment.

6. Payment: No advance payment will be made. Payment will be made only after the supply of the item in good and satisfactory condition.
7. Guarantee and Warranty period should be specified for the complete period conforming to the relevant sections of this tender document.
8. Time of supply and installation of items should be specified conforming to the relevant sections of this tender document.
9. In case of dispute, the matter will be subject to Mangalore Jurisdiction only.

3.3 Bidder Eligibility Criteria

To be eligible, a bidder has to meet the following criteria.

1. The bidder shall have experience of at least 5 years in the field of Information Technology. This shall include specific experience in any or all of Design, Engineering, Integration, Operations, Maintenance & Consultancy in IT Networking independently, or as part of a large IT Infrastructure Project.
2. The bidder shall have adopted appropriate quality systems (ISO 9001) and adhere to standards and best practices. The bidder / employees of the bidder should have appropriate expertise in design, engineering, integration, operations and management of IT Information Systems / Networking Infrastructure.
3. The bidder shall have executed at least 3 similar works, each costing not less than Rs 25 lakhs each, during the last 2 years, in the supply and installation of similar equipments, as part of a IT Infrastructure Project belonging to Government or large Public Sector/Private Sector Organizations. In addition to these, the bidder's experience in executing similar works costing about 25 lakhs may be given as a list with details.
4. Bidder has to be a profit making organization in each of the last 3 years. The bidder's sales turn over in terms of earning from Design, Supply, Integration, Operation & Maintenance or Consultancy in IT Systems, Networking Solutions & related Services within India should be at least Rs.1 Crore or above in each of the last three financial years.
Extract of the audited balance sheet for the last three years is required to submitted with the technical bid with the relevant information highlighted.
5. The bidder should be capable of executing projects involving supply, installation and maintenance of large servers.
6. A certificate is to be submitted by the bidder that they have not been black listed by any Govt./Semi Govt. organization or department. Please see 2.1.1.13 in page 5.
7. The bidder will have to submit GST details along with the technical bid.
8. For the items being supplied in the rate contract and AMC replacements (if any) the bidder should be an authorized partner of the manufacturer of networking products and should have adequate facilities, manpower and staff for installation, testing, commissioning and after sales service.
9. The bidder will have to arrange for all the testing equipment & tools required for installation, testing & maintenance etc.

10. The bidder should supply a list of customers where they have carried out projects of this nature. Documentary proof in this regard should be submitted.

4 Schedule of Requirements, Specifications and Allied Details

Item(s) Name to be Procured	Servers for CCC
Type	Equipment
Brief Specifications of the Item(s)	Please see the details listed below
Quantity	5
Any other details/requirement	As specified in the details listed below
Warranty Period	7 Years
Delivery Schedule expected after release of Purchase/Work order (in Weeks)	Within three weeks
EMD (in Rupees)	Rs 120000/- (2% of Estimated cost)
Performance Security to be given by Successful Bidder after release of Purchase Order (in Rupees)	5% of the Total contract value excluding the Service Taxes in the Purchase Order

4.1 Specifications for the High End Servers - CCC

1. Make & Model : To be specified by supplier. The brand quoted and the vendor should not be black listed in any of Govt, Semi Govt or similar entities.(Self attested declaration should be submitted with respect to same)
2. ISO Certification : Manufacturing facility/brand should be ISO 9001:2008, ISO 14001:2004 & ISO/IEC 27001: 2013 certified.
3. Chipset : Lewisburg PCH Intel C621 or better
4. Configured CPU : 2 no's x Intel Xeon Gold 6230 2.1G, 20C/40T,10.4GT/s, 27.5M Cache, Turbo, HT (125W) DDR4-2933 (Supports Up to two Intel Xeon Scalable processors, up to 28 cores per processor).
5. Memory slots : 24 DDR4 DIMM slots RDIMMS& LR DIMMS supporting speeds up to 2666MT/s. Optionally support up to 12 DIMM & 12 NVDIMM
6. Memory configured : 8 no's x 64GB RDIMM 2933MT/s Dual Rank RAM,(Total 512GB RAM) , scalable to 1.5TB
7. Disks supported : Front drive bays: Up to 16 x 2.5" SAS/SATA/SSD, , Up to 8 x 3.5" SAS/SATA
8. RAID Controller : 12Gbps PCIe 3.0 with RAID 1, 5, 6,10, 50; RAID with pass through enabled.
9. Disks configured : 2 no's x 800GB SSD SAS MU 12Gbps 512 2.5in Drive,3.5in HYB CARR, and 6 no's x 8TB 7.2K RPM NLSAS 12Gbps 512e 3.5in Hot-plug Hard Drive (Total:48TB capacity)
10. DVD writer : DVD RW
11. I/O slots : Up to 8x PCIe Gen3 Slots

12. GPU Support : Upto 3 DW and 6 SW GPU cards
13. Ethernet ports : Broadcom 57412 Dual Port 10GbE SFP+ & 5720 Dual Port 1GbE BASE-T rNDC and Broadcom 5719 Quad Port 1GbE BASE-T Adapter, PCIe Full Height
14. Certification and compliances : Microsoft Windows Server, Hyper-V, VMWare, Red Hat Enterprise Linux (RHEL), SUSE Linux Enterprise Server (SLES)
15. Power Supply : 1+1, 750W Platinum rated redundant Power Supply
16. SD Modules slots : Dual SD Module slots supporting redundant configuration
17. Management integration : Support for integration with Microsoft System Center, VMware vCenter, BMC Software
18. Power & temperature : Real-time power meter, graphing, thresholds, alerts & capping with historical power counters Temperature monitoring & graphing
19. Pre-failure alert : Should provide predictive failure monitoring & proactive alerts of actual or impending component failure for fan, power supply, memory, CPU, RAID, NIC, HDD
20. Configuration & management :
 - a) Real-time out-of-band hardware performance monitoring & alerting
 - b) Agent-free monitoring, driver updates & configuration, power monitoring & capping, RAID management, external storage management, monitoring of FC, HBA & CNA & system health
 - c) Out-of-band hardware & firmware inventory
 - d) Zero-touch auto configuration to auto deploy a baseline server configuration profile
 - e) Automated hardware configuration and Operating System deployment to multiple servers
 - f) Zero-touch repository manager and self-updating firmware system
 - g) Virtual IO management / stateless computing
 - h) Support for Redfish API for simple and secure management of scalable platform hardware
21. LCD panel : Should display system ID, status information and system error error code followed by descriptive text. LCD background should light up in different colours during normal system operation & error conditions.
22. HTML5 support : HTML5 support for virtual console & virtual media without using Java or ActiveX plugins
23. Server security :
 - a) Should have a cyber resilient architecture for a hardened server design for protection, detection & recovery from cyber attacks
 - b) Should protect against firmware which executes before the OS boots
 - c) Should provide effective protection, reliable detection & rapid recovery using:
 - i. Silicon-based Hardware Root of Trust
 - ii. Signed firmware updates

- iii. Secure default passwords
 - iv. Configuration and firmware drift detection
 - v. Persistent event logging including user activity
 - vi. Secure alerting
 - vii. Automatic BIOS recovery
 - viii. Rapid OS recovery
 - ix. System erase
 - d) Configuration upgrades should be only with cryptographically signed firmware and software
 - e) Should provide system lockdown feature to prevent change (or “drift”) in system firmware image(s) & prevent malicious modification of server firmware
24. Intrusion alert : Intrusion alert in case chassis cover being opened
25. Operating System : Ubuntu Linux Server 18.04 or later.
26. Warranty : 7 years:
- a) Part, Labour, On-site comprehensive OEM warranty with 24x7x365 remote hardware support.
 - b) In case of HARDWARE breakdown, service calls must be attended by OEM engineer directly.
 - c) Post installation, 7 year part, labour onsite product warranty should reflect in the support web site of the OEM.

Note: Required documents, printed technical data sheet, White paper and Brochure to be enclosed for evaluation alongwith the Technical Bid substantiating the claims. The same must be available in the web site of the brand for verification.

4.2 Specifications for the Interconnect Switch

1. Make and Model : To be specified by the supplier. The brand quoted and the vendor should not be black listed in any of Govt, Semi Govt or similar entities. (Self attested declaration should be submitted with respect to same)
2. ISO Certification : Manufacturing facility/brand should be ISO 9001:2008, ISO 14001:2004 & ISO/IEC 27001: 2013 certified.
3. Port Attributes : Minimum 12 x 10GBaseT, 3 x 100GbE QSFP28
4. Operating System: Network OS Enterprise Version
5. Switch Interconnect Cable : 10GbE, Copper Twinax Direct Attach Cable, 0.5 Meter
6. Performance : 630 Mpps
7. Routing : Full L2/L3 switching and routing
8. Standards Supported: (i) IEEE - 802.1, 802.3 (ii) RFC - IP, IPv4, IPv6, RIP, OSPF, IS-IS, BGP, Multicast, Security, Data Center Bridging, Network Management

9. Operating temperature : 32 deg F to 113 deg F (0 deg C to 45 degC)
10. Operating humidity : 10 to 85% (RH), non-condensing
11. Safety : UL/CSA 60950-L Second Edition, EN 60950-1 Second Edition, IEC 60950-1 Second Edition Including all National Deviations and Group Differences, EN 60825-1 Safety of Laser Products Part1
12. Power : 100 - 240 VAC 50/60 Hz
13. Management : CLI, SNMP, REST API's
14. Warranty : 7 years part, labour, On-site comprehensive OEM warranty with 24x7x365 remote hardware support. In case of HARDWARE breakdown, service calls must be attended by OEM engineer directly.

Note: *Required documents, printed technical data sheet, White paper and Brochure to be enclosed for evaluation alongwith the Technical Bid substantiating the claims. The same must be available in the web site of the brand for verification.*

4.3 Network Attached Storage

1. Make & Model : To be specified by supplier The brand quoted and the vendor should not be black listed in any of Govt, Semi Govt or similar entities. (Self attested declaration should be submitted with respect to same)
2. ISO Certification : Manufacturing facility/brand should be ISO 9001:2008, ISO 14001:2004 & ISO/IEC 27001: 2013 certified.
3. Type: Windows NAS appliance
4. Processor : Minimum Dual Intel Xeon Bronze 3106 1.7G, 8C/8T
5. Chassis : Chassis with up to 12 x 3.5" HDDs on BP, 4 x 3.5" HDDs on MP and 2 x 3.5" HDDs Flexbay
6. Memory: Total 32GB RDIMM, 2666MT/s, Single Rank 2666MT/s RDIMMs
7. Storage : 4TB 7.2K RPM SATA 6Gbps 512n 3.5in Hotplug Hard Drive * 6 Nos (20TB Usable after RAID 5 for Data) 600GB 10K RPM SAS 12Gbps 512n * 2 Nos (600GB Usable after RAID 1 for OS)
8. Power Supply: Dual, Hot-plug, Redundant Power Supply Operating System Windows Storage Server 2016 Standard
9. Rail Kit : ReadyRails Sliding Rails With Cable Management Arm
10. RAID Controller: RAID Controller, 2GB NV Cache,
11. Warranty : 7 years part, labour, On-site comprehensive OEM warranty with 24x7x365 remote hardware support. In case of HARDWARE breakdown, service calls must be attended by OEM engineer directly.

Note: *Required documents, printed technical data sheet, White paper and Brochure to be enclosed for evaluation alongwith the Technical Bid substantiating the claims. The same must be available in the web site of the brand for verification.*

5 Price Schedule

(The bidder must submit the bid in the general format shown below)

1. Cost must include the charges for the following:

SI No	Item	Qty	Rate	Total	Tax	Total with Tax
1	Server with Specifications as given above	5				
2	Interconnect Swich with Specifications as given above	1				
3	NAS with Specifications as given above	1				
4	Installation, Commissioning, Training Charges if any	Lumpsum				
	G.Total					

2. Service Taxes and Other Charges if any, (must be shown explicitly in percentages and/or lumpsum in figures)
3. Warranty : Five years on site from the date of installation.
4. Name and address of the Firm for placing purchase order (Must include Contact Person's name, Email and Phone number).
5. Details
Signature :
Name and Designation :
Business Address :
Seal of the Firm
Place:
Date :

END OF DOCUMENT.