



**NATIONAL INSTITUTE OF TECHNOLOGY  
RAIPUR – 492 010, CHHATTISGARH**

**Open (Advertised) Tender for Supply, Installation, Testing, Commissioning, and  
Integration of a Cluster of Virtual Machines across Physical Nodes (Servers)**

**Department:** Central Computer Center

**Enquiry No:** NITRR/CCC/OT/2020/925

**Date:** 11/01/2020

**Important Dates**

To

| Event                                | Date                                                               | Time           |
|--------------------------------------|--------------------------------------------------------------------|----------------|
| Last Date of submission of quotation | 03/02/2020                                                         | Upto 18:00 Hrs |
| Technical bid Opening date           | 05/02/2020                                                         | At 16:00 Hrs   |
| Price (financial) bid Opening        | To be informed to technically successful bidder by mail and phone. |                |

Dear Sir

We intend to purchase the commodities & services specified in this document and invite quotations in accordance with the terms and conditions detailed in the bid document. If you are interested, kindly submit your offer with prices and complete terms within the time mentioned above through our e-tender portal [www.tenderwizard.com/NITR](http://www.tenderwizard.com/NITR). **Tender will be accepted online only & no other mode will be accepted.**

Yours sincerely,

**Registrar**  
National Institute of Technology,  
Raipur

Enclosed:

- (1) Bid Document - Instructions to bidders - containing detailed terms and conditions.
- (2) Bidder Qualification Criteria-Annexure-0
- (3) Acceptance of terms & conditions of tender-Annexure 1
- (4) List of Equipment's/machines/commodity etc. (Bill of Quantities) - Annexure 2
- (5) Technical Specification – Annexure 3
- (6) Technical Compliance Format- Annexure 4
- (7) Price Bid Format in INR – Annexure 5
- (8) Price Bid Format in of imported items in currency other than INR -Annexure 6
- (9) Deviation statement form - Annexure 7
- (10) Bidder information & check list- Annexure 8

**BID DOCUMENT**

### **INSTRUCTIONS TO BIDDERS**

1. Please go through the enclosed “bid document” carefully for other bidding instructions.
1. **IMPORTANT NOTE:** Being a Two-Part Tender (techno-commercial and price bid), fax quotations will not be accepted. Please ensure your offers are received on or before tender due date and time. Bidder/ Tenderer are requested to download the tender documents from our website ([www.nitr.ac.in](http://www.nitr.ac.in)) & e-tendering portal i.e. [www.tenderwizard.com/NITR](http://www.tenderwizard.com/NITR) and submit tender fee of amount 1180/- (inclusive of GST) through online mode in our e-tendering portal i.e. [www.tenderwizard.com/NITR](http://www.tenderwizard.com/NITR). **Kindly note that if any bidder wants to quote for more than one item in the tender then he has to pay tender fee only once at first and for later he will be exempted to pay tender fee for another items(have to select exempted option on payment page). If any vendor paid more than one tender fee in case of multiple items then the excess payment will not be reversed, so please be careful while submitting the bid.**
  - **Quotations received without tender fee will not be considered.**
  - No request for extension of the due tender date will be considered.
  - In the event any date indicated above is declared as holiday, the next working day at Institute shall be considered as the due date for receiving & opening of tenders.
  - The bids shall be opened on date and time as mentioned above. The bidders may send their authorized representatives to attend the bid opening, if they so desire.
  - Bids received after the deadline of receipt indicated above, shall not be taken in to consideration.
  - **(a) In the tender, either the Indian agent on behalf of the Principal/OEM or Principal/OEM itself can bid but both cannot bid simultaneously for the same item/product in the same tender. In the event of simultaneous bidding by both Principal/OEM and Indian agent; the bid submitted by the Indian agent will not be considered.**

**(b) If an agent submits bid on behalf of the Principal/OEM, the same agent shall not submit a bid on behalf of another Principal/OEM in the same tender for same item/product. In the event, an agent submits the bids on behalf of more than one Principal/OEM for the same item in same tender, then all such bids will not be considered.**
2. The bid should remain valid for a period of **180 days** from the date of opening. In case your offer has a different validity period that should be clearly mentioned in the quotation. Validity period may also be extended without change in bid prices, if required on mutually agreed basis only.
3. **Submission of bids: Bidders have to submit their bid through E-tendering mode only at website [www.tenderwizard.com/NITR](http://www.tenderwizard.com/NITR).**

4. Financial Bid (Microsoft Excel File) is to be downloaded from website [www.tenderwizard.com/NITR](http://www.tenderwizard.com/NITR) and then is to be filled, saved and uploaded (through digital signature) on the same website and not to be submitted in hard copy at all.
5. The Financial Bid (after filling the rates) should neither be scanned & uploaded, nor, the hard copy of the same should be submitted to NIT Raipur office
6. **The complete Tender document can be viewed and downloaded only from the website([www.tenderwizard.com/NITR](http://www.tenderwizard.com/NITR)) & [www.nitr.ac.in](http://www.nitr.ac.in) during the tender sale period. The intending bidders should submit the tender documents sale price & tender processing fee, through e-payment, at the time of making online request.**
7. Complete tender papers, duly accompanied with receipts of e-payment of tender cost, EMD shall be received online as per date and time mentioned. Tender shall be opened through Etendering systems, in presence of bidders or their authorized representatives.
8. Complete tender documents must be submitted as per schedule **through E-Tendering mode only at website [www.tenderwizard.com/NITR](http://www.tenderwizard.com/NITR) .**
9. Tenderers are advised to complete all submission related work well before Time and date for submission of tender online. Any request for modification in the time/date of submission of tender due to tenderer's failure to submit his offer, will not be accepted.
10. **To participate in the E-tender, it is mandatory for the bidders to have user ID & password, which has to be obtained by submitting an annual registration charges of Rs. 2000/- +GST @ 18% to ITI, through e-payment. Also it is mandatory for all bidders to have class 3 digital signature certificates from any of the CCA (Controller of Certifying Authority, India) or if any support required on DSC, Please contact to Helpdesk No. 011-49424365.**
11. The bid along with necessary documents should be uploaded only on the [www.tenderwizard.com/NITR](http://www.tenderwizard.com/NITR) portal as per guidelines mentioned in the portal. Tender have to be submitted only online at <https://www.tenderwizard.com/NITR> . All documents in support of eligibility criteria etc. are also to be scanned and uploaded along with the tender documents. Tender sent by any other mode will not be accepted.
12. **Clarification of bidding documents:** If a prospective bidder requires any clarification in regard to the bidding documents, they may mail to [storenpurchase@nitr.ac.in](mailto:storenpurchase@nitr.ac.in)(for commercial terms) and [cccsys2@nitr.ac.in](mailto:cccsys2@nitr.ac.in) (for Technical queries) at least 10 days before the deadline for receipt of bids. No queries will be entertained after this deadline.
13. **Amendment of Bidding Documents**
  - Corrigendum, if issued any for the tender, shall form part of the Tender Document. Corrigendum will be posted on NIT RAIPUR website ([www.nitr.ac.in](http://www.nitr.ac.in))&[www.tenderwizard.com/NITR](http://www.tenderwizard.com/NITR) portal. Bidders/Tenderers are requested to visit NIT RAIPUR website regularly and note the corrigendum / amendments to the tender without fail and submit the offer accordingly. NIT RAIPUR will not be responsible for ignorance of corrigendum.

- At any time prior to the deadline for submission of bids, the Institute may, for any reason, whether at its own initiative or in response to a clarification requested by a prospective Bidder/Tenderer, modify the bidding documents by amendment. The same would also be hosted on the website of the Institute and all prospective bidders/tenderer are expected to surf the website before submitting their bids to take cognizance of the amendments. Bidder/Tenderer who has submitted bids before publishing the amendment may revise their bid incorporating the amendments before the last date of tender.
  - In order to allow prospective Bidder/Tenderer's reasonable time in which to take the amendment into account in preparing their bids, the Institute, at its discretion, may extend the deadline for the submission of bids and host the changes on the website of the Institute.
14. **Custom duty:** The NIT Raipur has registration in Department of Scientific & Industrial Research (DSIR). However, the same is not applicable in this project.
15. **Bid Security (BS)/ (Earnest Money, EMD)**
16. The Bidder/Tenderer shall furnish, as part of its bid, a bid security (BS). **The EMD/Bid security should be submitted online only through e-tendering portal i.e. [www.tenderwizard.com/NITR](http://www.tenderwizard.com/NITR).** The EMD amount will be Rs. 1.10 Lakhs.
- In the case of foreign bidders/tenderers, the BS shall be submitted either by the principal or by the Indian agent and in the case of indigenous bidders/tenderers; the BS shall be submitted by the manufacturer or their specifically authorized dealer/Bidder/Tenderer.
    - The bid security shall be in Indian Rupees & should be paid only through e-payment in tenderwizard portal i.e. [www.tenderwizard.com/NITR](http://www.tenderwizard.com/NITR).
    - The bid security should be submitted in its original form. Copies shall not be accepted.
    - *Any bid without EMD or bid not secured in accordance with above will be rejected by the Institute as non-responsive.*
    - The bid security of unsuccessful Bidder/Tenderer will be discharged /returned as promptly as possible but not later than 30 days after the expiration of the period of bid validity or placement of order whichever is later.
    - The successful Bidder/Tenderer's bid security will be discharged upon the Bidder/Tenderer furnishing the performance security.
    - **The firms registered with DGS&D & NSIC, if any, are exempted from payment of bid security provided such registration includes the goods and services they are offering.**
    - **The firm must ensure their eligibility for exemption from submission of EMD & Tender Fee, in case of submission of EMD & Tender Fee Exemption Certificate i.e. NSIC, MSME etc. If exemption certificate not found suitable for exemption then the bid will not be considered in any case.**
    - **The bid security may be forfeited:**
      - (a) If a Bidder/Tenderer withdraws or amends or impairs or derogates its bid during the

period of bid validity specified by the Bidder/Tenderer on the Bid Form; or

#### 17. Sealing and Marking of Bids:

In a two-bid system All Bidders/Tenderers are requested to follow carefully the following instructions before preparing their offer.

##### **Part I: Technical& Commercial Bid**

##### **Part - (a) Technical**

- i. This part should contain detailed specifications of the items quoted by you along with technical literature and leaflets.
- ii. A compliance statement showing the compliance of the item quoted by you with that of item tendered by us should be prepared and enclosed to this.
- iii. Any other information called for in the tender related to technical and commercial specifications can also come in this part.
- iv. **Prices should NOT be indicated in this cover.**

##### **Part - (b) Commercial terms: (WITHOUT PRICE)**

- i. The commercial terms applicable for the items quoted by you should be indicated in this part.
- ii. If any compliance statement is called for the commercial terms/contractual terms and conditions, the same is to be attached in this part.
- iii. ***Prices should NOT be indicated in this part. However, a copy of the price bid (without prices) must be enclosed in this part to enable to understand whether all the items required to be quoted by you have been quoted in the price bid.***
- iv. The Commercial terms such as delivery terms, delivery period, payment terms, Warranty, validity of the offer, installation & commissioning, duties and taxes etc., shall come into this.
- v. The required EMD should be enclosed.
- vi. The Tenderer/ bidder need to submit the following certificates along with the Tender Documents to confirm their eligibility in this part :
  - Proof of establishment of Firms/shop/business/Goods & Service Tax registration in REG-06 Format certificate should be enclosed.
  - Proof of registration with any other central government organization (if applicable)
  - Photocopies of purchase orders received from any central govt. organization to the firm (if applicable), if required.
  - The bidder should enclosed proof of turnover by way of Audited Balance Sheet/Auditor's certificate, if required.
  - The bidder should Photocopy of PAN card issued in the name of the bidder's firm.
  - Any other commercial document asked for.

##### **Note:**

- Technical Specifications and terms & conditions as above should be very clearly reflected item-wise with reference to the items called for in the tender.
- Please note that the PRICE SHOULD NOT BE indicated in this part.
- **The bidders must have to upload acceptance of tender terms & conditions**

- **duly sealed & signed in e-tendering portal(As per Annexure-I).**
- **The bidders must have to upload compliance sheets in the format mentioned under technical specification in Annexure-3.**

## **Part II: Price Bid**

The prices applicable for the items, item-wise in response to the tender shall come into this part in the prescribed format only. ***Bid will be rejected if rates are not quoted in the prescribed format.***

- i. Tenderer shall indicate very clearly item-wise prices with reference to their technical offer.
18. The bidders should quote their offer/rates in clear terms without ambiguity.
  19. In case of any discrepancy between the rates in figures and that in words, the rate in words will be accepted as correct.
  20. Each bidder shall submit only one bid. A bidder, who submits more than one bid, shall be disqualified and considered non-responsive.

### **21. Bid Prices**

- (i) The Bidder/Tenderer shall indicate **unit prices in the prescribed format only**,
  - (ii) Prices indicated on the price-schedule form shall be entered separately in the following manner:
    - (a) **For Goods being offered from India in INR**
      - i. The price of the goods quoted should be FOR NIT RAIPUR inclusive of all taxes( GST, Custom etc), charges for inland transportation, insurance and other local services required for delivering the goods at the desired destination as specified in the price schedule form, installation, commissioning, training charges etc , if any. **(Annexure 4)**
22. Conditional discount, if any, offered by the bidder shall not be considered at the time of evaluation.

### **23. Responsiveness of Bids**

- (i) Prior to the detailed evaluation, the Institute will determine the substantial responsiveness of each bid to the bidding documents. For purposes of this clause, a substantive responsive bid is one, which conforms to all terms and condition of the bidding documents without material deviations, reservations or omissions. A material deviation, reservation or omission is one that:
  - (a) affects in any substantial way the scope, quality, or performance of the Goods and Related Services specified in the Contract; or

- (b) limits in any substantial way, inconsistent with the Bidding Documents, the Institute's rights or the Bidder/Tenderer's obligations under the Contract;  
or
- (c) if rectified, would unfairly affect the competitive position of other bidders/tenderers presenting substantially responsive bids.
- (ii) The Institutes' determination of a bid's responsiveness is to be based on the contents of the bid itself without recourse to extrinsic evidence.
- (i) If a bid is not substantially responsive, it will be rejected by the Institute and will not subsequently be made responsive by the Bidder/Tenderer by correction of the material deviation, reservation or omission.

#### 24. Evaluation and comparison of bids

- (i) The Purchaser shall evaluate each bid that has been determined, up to this stage of the evaluation, to be substantially responsive.
- (ii) To evaluate a Bid, the Purchaser shall only use all the factors, methodologies and criteria defined below. No other criteria or methodology shall be permitted.
- (iii) The bids shall be evaluated on the following basis which shall be arrived as under:

##### **For goods being offered from India.**

Goods & services price will be calculated FOR NIT Raipur. Lowest bid (L1) will be deciding by the price of the goods quoted should be FOR NIT RAIPUR inclusive of all taxes(GST & Custom Duty, etc), charges for inland transportation, installation, commissioning, training charges, insurance and other local services required if any for delivering the goods at the desired destination as specified in the price schedule Price Bid format

**Note:** *Where there is no mention of packing, forwarding, freight, transportation, insurance charges, taxes etc. such offers shall be REJECTED as incomplete.*

#### 25. Clearance and delivery

On arrival of shipment/consignment, the supplier is required to arrange custom clearance and transportation of the consignment up to NIT RAIPUR premises. The Tenderer/ bidder will do all types of clearance work and **formalities to deliver/provide the equipment at the site of installation. The expenses incurred will be reimbursed on actual basis not exceeding the quoted amount.** Institute will provide all types of documentary support including Customs Duty exemption certificate, if applicable. The custom duty, demurrage (in case of delay in release of custom duty to the custom department by NIT Raipur) and government taxes/levies (if any) will be paid extra by the buyer after as per term of payment. **Principals will themselves have to procure any requisite permission from the Govt. of country of origin of equipment.**

- 26. The Institute reserves right to conduct pre-dispatch inspection of goods and the vender must facilitate it at NIT Raipur's cost for pre-dispatch inspection.

27. **Warranty Period:** The warranty period should be **minimum 1 year with spares part or as mentioned in technical specifications (whichever is higher) from the date of installation with satisfactory performance as per specifications.** For standard items which carry warranty of more than one-year, standard warranty shall be applicable.

28. **Terms of Payment:** The method and conditions of payment to be made to the Supplier under this Contract shall be as follows:

**Payment for Goods and Services offered from India:**

Payment for Goods and Services supplied from within India shall normally be made in Indian Rupees, as follows: 100% payment will be made in account payee cheque or Draft/online Transfer using RTGS to the Supplier normally within thirty (30) days after the successful installation and commissioning of equipment's subject to submission of performance security, if any.

**Note:**

1. The nomenclature used for the item description in the invoices(s), packing list(s) and the delivery note(s) etc. should be identical to that used in the contract. The dispatch including the name of the transporter should also be mentioned in the Invoice(s)
2. The above documents should be received by the Purchaser before arrival of the Goods and, if not received, the Supplier will be responsible for any consequent expenses.

29. **Performance Security (PS):**The successful bidder has to furnish "**Performance Security of 10% of the ordered value in Indian Rupee**", in the form of Account Payee Demand Draft, / Fixes deposit and/or unconditional Bank guarantee en-cashable on demand from the Director, NIT, Raipur, from a nationalized Bank with validity period of sixty (60)days beyond the date of completion of all contractual obligations of supplier including guarantee/ warranty obligations. The Performance Security is to be furnished in favor of the Director, National Institute of Technology, Raipur, within Fifteen days of intimation, failing which his bid security will be forfeited.

The performance security will be discharged by the Purchaser and returned to the Supplier not later than 60 days following the date of completion of the Supplier's performance obligations, including any warranty obligations.

30. **Delivery period:** Delivery should be made within **60 days** from the date of order of placement of goods offered.

31. **Releasing request for EMD/Bid Security and Performance Bank Guarantee(PBG):-**

(i) Request for releasing of EMD should be addressed to Store and Purchase Section at NIT Raipur and will be released after checking the required compliances for releasing.

(ii) Request for releasing of Performance Bank Guarantee after expiry of the validity of the PBG should be addressed to the Head of concern department with copy of Purchase order and other relevant details.

32. **Delayed delivery:** Maximum one month extension in delivery period may be given on the receipt of written request of the successful vendor; however liquidated damage at the rate of 0.5% per week or part thereof will be recovered from the firm of the value of undelivered goods. Request for extension in delivery period should be made before the last date of supply as mentioned in Purchase Order.

**Non delivery beyond extended period:** If the Tenderer fails to execute the order within the delivery period as mentioned above the order may be cancelled and EMD will be forfeited by the institute.

33. **Installation time:** The Company must install the equipment within a reasonable time from the date of delivery of the equipment at NIT Raipur failing which order may be cancelled and EMD may be forfeited. However, necessary requirement for installation of goods/equipment will be provided by institute.

34. **Copy Right:** The copyright in all drawings, documents, and other materials containing data and information furnished to the Purchaser by the Supplier herein shall remain vested in the Supplier, or, if they are furnished to the Purchaser directly or through the Supplier by any third party, including suppliers of materials, the copyright in such materials shall remain vested in such third party.

35. **Right to use Defective Goods:** If after delivery, acceptance, installation and within the guarantee and warranty period, the operation or use of the goods proves to be unsatisfactory, the Purchaser shall have the right to continue to operate or use such goods until rectifications of defects, errors or omissions by repair or by partial or complete replacement is made without interfering with the Purchaser's operation.

36. **Site preparation and installation:** The Purchaser is solely responsible for the construction of the equipment sites in compliance with the technical and environmental specifications defined by the Supplier. The Purchase will designate the installation sites before the scheduled installation date to allow the Supplier to perform a site inspection to verify the appropriateness of the sites before the installation of the Equipment, if required. The supplier shall inform the purchaser about the site preparation, if any, needed for installation, of the goods at the purchaser's site immediately after notification of Award / Purchase Order / Agreement.

35. **Force Majeure:**

- (i) Notwithstanding the Clauses relating to extension of time, penalty and Termination for Default the Supplier shall not be liable for forfeiture of its performance security, liquidated damages or termination for default, if and to the extent that, its delay in performance or other failure to perform its obligations under the Contract is the result of an event of Force Majeure.
- (ii) For purposes of this Clause, "Force Majeure" means an event or situation beyond the control of the Supplier that is not foreseeable, is unavoidable, and its origin is not due to negligence or lack of care on the part of the Supplier.

Such events may include, but not be limited to, acts of the Purchaser in its sovereign capacity, wars or revolutions, fires, floods, epidemics, quarantine restrictions, and freight embargoes.

- (i) If a Force Majeure situation arises, the Supplier shall promptly notify the Purchaser in writing of such conditions and the cause thereof within 21 days of its occurrence. Unless otherwise directed by the Purchaser in writing, the Supplier shall continue to perform its obligations under the Contract as far as is reasonably practical and shall seek all reasonable alternative means for performance not prevented by the Force Majeure event.
- (iv) If the performance in whole or in part or any obligations under the contract is prevented or delayed by any reason of force majeure for a period exceeding 60 days, either party may at its option terminate the contract without any financial repercussions on either side.

**36. Defective Equipment:**

- (i) If any of the equipment supplied by the Tenderer is found to be substandard, refurbished, unmerchantable or not in accordance with the description /specification or otherwise faulty, the institute will have the right to reject the equipment or its part. The prices of such equipment shall be refunded by the Tenderer with 18% interest if such payments for such equipment have already been made to him.
- (ii) All damaged or unapproved goods shall be returned at suppliers' cost and risk and the incidental expenses incurred thereon shall be recovered from the supplier. Defective part in equipment, if found before installation and/or during warranty period, shall be replaced within 45 days on receipt of the intimation from this office at the cost and risk of supplier including all other charges.

37. Any disputes arising out of this enquiry shall be dealt in the Raipur jurisdiction.

**Registrar**  
NIT-Raipur

**List of Annexures**

1. Bidder's Qualification Criteria - Annexure 0 including Appendix-I and Appendix-II
2. Acceptance of tender terms & conditions-Annexure-1
3. List of Goods and Services – Annexure 2
4. Technical Specifications of Goods and Services – Annexure 3
5. Price Schedule for goods being offered from India – Annexure 4
6. Deviation statement form - Annexure 5
7. Bidder information & check list – Annexure 6

## Annexure 0

### 1.0 BIDDER'S QUALIFICATION CRITERIA

| S. No. | Description of Parameters                                                                                                                                                                                                                                                                                                                                                                           | Supporting Document                                                                                                                                                                           | Compliance (Yes/No) |
|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|
| 1.     | The bidding firm should be registered under the Indian Companies Act, 1956 and/or any subsequent amendment(s) thereof                                                                                                                                                                                                                                                                               | Signed and Sealed Copy of Registration Certificate/GST Certificate(REG-06 Format)                                                                                                             |                     |
| 2.     | The bidding firm must provide organization details such as PAN and GST registration certificates                                                                                                                                                                                                                                                                                                    | Signed and Sealed Copy of necessary certificates                                                                                                                                              |                     |
| 3.     | The bidding firm must be ISO 9001:2015 certified                                                                                                                                                                                                                                                                                                                                                    | Signed and Sealed Copy of ISO certification                                                                                                                                                   |                     |
| 4.     | The bidding firm must declare that there is no lawsuit pending against the Proprietor/Partners/Directors and the company has not been blacklisted in the last 5 years or in the period of its existence, if less than 5 years                                                                                                                                                                       | Affidavit on Rs. 100/- Stamp Paper                                                                                                                                                            |                     |
| 5.     | The servers and interconnection network switches quoted should not be declared End of Life at the time of delivery and the manufacturer(s) should support the products quoted for at least 5 years                                                                                                                                                                                                  | A letter on manufacturer(s) letterhead to this extent should be attached                                                                                                                      |                     |
| 6.     | The servers and interconnection network switches should be from ISO 9000 certified manufacturers.                                                                                                                                                                                                                                                                                                   | Documentary proof of ISO certification should be provided                                                                                                                                     |                     |
| 7.     | The manufacturers should have local TAC (Technical Assistance Centre) based in India for offering post-sales technical support                                                                                                                                                                                                                                                                      | TAC addresses of manufacturers of servers and interconnection switches should be provided by the bidder                                                                                       |                     |
| 8.     | The bidding firm should be authorized by the manufacturer(s) of servers and interconnection network switches for participation in this tender                                                                                                                                                                                                                                                       | Manufacturer(s) authorization certificate containing reference to this tender on his letterhead                                                                                               |                     |
| 9.     | In case End-Customer demands for an Onsite demonstration, the bidder must comply with the requirements of <b>Appendix-I</b>                                                                                                                                                                                                                                                                         | Undertaking for the same should be provided along with declaration that the bid shall be disqualified if the PoC fails.                                                                       |                     |
| 10.    | The bidding firm should comply with the requirement of arranging standby servers of configuration as mentioned in <b>Appendix – II</b> for deploying and testing the application before making it live within one week of placing the work order. The provisioning of standby servers is temporary and can be taken away by the bidder after the new servers have been installed and migration done | Undertaking for the same should be provided failing which institute reserves the right to deduct 25% of the amount payable under the project and also forfeit the performance bank guarantee. |                     |

**APPENDIX-I : ON-SITE DEMONSTRATION & PROOF OF CONCEPT (PoC)**

The technically qualified bidders may be asked with prior notification from NIT Raipur to demonstrate the products quoted against the tender and its compliance to the technical specifications / features during the technical evaluation stage of the tender. All the required hardware / Software and other infrastructure should be sourced by bidder and /or manufacturer at their own cost. Specific details of the PoC or Demonstration details shall be communicated later. The successful qualification of PoC does not guarantee any Order confirmation from NIT Raipur and the Bidder has to conduct the same with no Time & Cost implication to NIT Raipur.

**APPENDIX-I I: STANDBY ARRANGEMENT OF SERVERS FOR DEPLOYMENT AND TESTING**

The supplies under this project should not exceed sixty days. The bidding firm should comply with the requirement of arranging at least three standby servers for deploying and testing the application before making it live within one week of placing the work order. The standby servers should have minimum 16 CPU cores, 64GB RAM and 8 TB HDD. The migration from the standby to the new servers should be carried out without downtime. The standby servers can be taken away by the bidder after the new servers have been installed and migration done.

**Annexure1****Acceptance of terms & conditions of tender(Must be on Letter Head)**

Date:

To,

The Registrar,

National Institute of Technology,

Raipur-492010(Chhattisgarh)

Subject: Acceptance of Terms &amp; conditions of Tender.

**Tender ref. No.: NITRR/CCC/OT/2020/925****Dated 11/01/2020**

Dear Sir,

1. I/We have downloaded/obtained the tender document(s) for the above mentioned Tender enquiry no. from the website [www.tenderwizard.com/NITR](http://www.tenderwizard.com/NITR) or [www.nitr.ac.in](http://www.nitr.ac.in).
2. I/We hereby certify that I/we have read entire terms & conditions of the tender documents from Page 01 to 22 (including all documents like annexure, schedules etc.) which form part of the tender document and I/we shall be abide by the terms & conditions/clauses contained therein.
3. The corrigendum(s) issued from time to time by NIT Raipur to have also been taken into consideration, while submitting this acceptance letter.
4. I/We hereby unconditionally accept the tender conditions of above mentioned tender document(s)/corrigendum(s) in totality/entirely.
5. In case any provisions of this tender are found violated, NIT Raipur shall be at liberty to reject this tender/bid including the forfeiture of the full said earnest money deposit absolutely and we shall not have any claim/right against NIT Raipur in satisfaction of this condition.
6. I/We confirm that we or our proprietor/Director/Partner have not been blacklisted or debarred or declared ineligible for corrupt/fraudulent practices either indefinitely or for a particular period of time by any Government or other agency. I/we further declare that no criminal case is registered on pending against the firm/company or its owner/partners/directors anywhere in India. Also there are no contractual restrictions or legal disqualifications or other obligations which prohibit the applicant from entering into tender process.

**(Seal & Signature of the bidder)**

**Annexure 2****List of Goods and Services to be Procured Under Tender**

| S.NO | DESCRIPTION OF MATERIAL                                                                              | UNITS   | QUANTITY |
|------|------------------------------------------------------------------------------------------------------|---------|----------|
| 1    | Servers as per subsection 3.0.1 of Technical Section.                                                | Nos     | 06       |
| 2    | Interconnection Switches as per sub-section 3.0.2 of Technical Section                               | Nos     | 02       |
| 3    | Virtualization Platform as per subsection 3.0.3 of Technical Section with one year technical support | Lumpsum | 01       |
| 4.   | Cost of Provisioning Additional Servers as per Appendix –II for three months duration initially      | Lumpsum | 01       |
| 5.   | Installation, Testing, Commissioning and Integration of the above                                    | Lumpsum | 01       |

## Annexure 3

### 3.0 Technical Specifications

#### 3.0.1 SERVERS

| S. No. | PARAMETERS                  | SPECIFICATION                                                                                                                                                                                                                                 | COMPLIANCE<br>(Yes/No) |
|--------|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|
| 1.     | Form factor                 | 1U/2U rack form factor                                                                                                                                                                                                                        |                        |
| 2.     | Processor                   | AMD EPYC 7302P 16C 155W 3.0GHz Processor. Should be able to support processors up to 64 cores                                                                                                                                                 |                        |
| 3.     | Memory                      | 128GB. Preferably 64GB and minimum 32GB identical memory modules to be supplied.                                                                                                                                                              |                        |
| 4.     | Memory Support              | Up to 1TB with 16 x 64GB RDIMMs                                                                                                                                                                                                               |                        |
| 5.     | Memory protection           | ECC, SDDC, Patrol/Demand Scrubbing, DRAM Address Command Parity with Replay, DRAM Uncorrected ECC Error Retry, Post Package Repair                                                                                                            |                        |
| 6.     | Interface for HDD           | SAS/NL SAS/SATA                                                                                                                                                                                                                               |                        |
| 7.     | Storage                     | 4 x 4TB NLSAS                                                                                                                                                                                                                                 |                        |
| 8.     | RAID Support                | 1,10, 5, 50, 6                                                                                                                                                                                                                                |                        |
| 9.     | RAID Cache                  | 2GB                                                                                                                                                                                                                                           |                        |
| 10.    | Network interface           | 4 port 1Gb RJ45 Ethernet & 2 port 10/25Gb SFP28                                                                                                                                                                                               |                        |
| 11.    | Optical drive bays          | Slim Internal DVD-RW Drive                                                                                                                                                                                                                    |                        |
| 12.    | PCI Expansion slots         | At least 2 Free Slots                                                                                                                                                                                                                         |                        |
| 13.    | Ports                       | Three USB 3.1 G1 (5 Gb/s) ports                                                                                                                                                                                                               |                        |
|        |                             | One VGA video port, one DB-9 serial port, and one RJ-45 1GbE systems management port.                                                                                                                                                         |                        |
| 14.    | Power supply                | Redundant Power Supply – Min. 750Watts Platinum rated.                                                                                                                                                                                        |                        |
| 15.    | Hot-swap parts              | Drives, power supplies, and fans.                                                                                                                                                                                                             |                        |
| 16.    | Systems management          | Management processor, system setup and firmware upgrades                                                                                                                                                                                      |                        |
| 17.    | Security features           | Power-on password, administrator's password, Trusted Platform Module, Administrator centralized infrastructure management, Manager centralized server power management, LED light based diagnostics for local failure detection and reporting |                        |
| 18.    | Operating systems supported | Microsoft Windows Server, Red Hat Enterprise Linux, SUSE Linux Enterprise Server, VMware ESXi                                                                                                                                                 |                        |
| 19.    | Homogeneity                 | All servers quoted must be identical in all configuration respects and should be from the same manufacturer                                                                                                                                   |                        |
| 20.    | Warranty                    | 3 years comprehensive                                                                                                                                                                                                                         |                        |

**3.0.2: INTERCONNECTION NETWORK SWITCHES**

| S. No. | SPECIFICATION                                                                                                                                                                                                                                                                                                                                                                                                            | COMPLIANCE (Yes/No) |
|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|
| 1.     | <b>Port Density:</b> The switch should have minimum 16 Nos. x 1G/10G SFP+ ports with additional 2 x QSFP (40G) uplink ports. Servers should be able to connect with 10G Ports of these switches by min 3 metres direct attach or equivalent cable.                                                                                                                                                                       |                     |
| 2.     | The switch should support Active – Active Cluster switching technology using VSS or equivalent technology. The proposed VSS or equivalent technology should support high availability for both Layer 2 and Layer 3 (RIP, RIPng, OSPF, OSPF v3) including for IP Multicasting (PIM v4,PIM v6). Switches need to be supplied with Stacking Cables.                                                                         |                     |
| 3.     | The Virtual Switching System (VSS) / equivalent technology shall support virtualization of switch locally or over geographically diversified locations                                                                                                                                                                                                                                                                   |                     |
| 4.     | The Switches also need to connect with Data centre Core Switch by 40G link and the required Cable with other accessories need to be supplied from Day 1                                                                                                                                                                                                                                                                  |                     |
| 5.     | The switches should also seamlessly integrate with automated LAN Infrastructure in the institute to achieve centralized management / provisioning using SDN or equivalent technology.                                                                                                                                                                                                                                    |                     |
| 6.     | The switch should seamlessly integrate with existing core switch                                                                                                                                                                                                                                                                                                                                                         |                     |
| 7.     | <b>Performance:</b> Should have Minimum 480 Gbps switching bandwidth and Min. 357 Mpps Switch- forwarding rate. Switch Should support min 16K Mac and 4K configuration VLANs.                                                                                                                                                                                                                                            |                     |
| 8.     | <b>Layer 2 Features:</b> Should support STP, RSTP, MSTP, IGMP v1/v2/v3 snooping, STP root guard, Voice VLAN, LLDP-MED, MLD snooping (MLDv1 and v2), IEEE 802.3ac, IEEE 802.1v, PVST+ compatibility mode, VLANMirroring , Should support GARP VLAN Registration Protocol / GVRP, Q-in-Q, VLAN classification by protocol and port, IEEE 802.3ac VLAN tagging.                                                             |                     |
| 9.     | <b>Resiliency:</b> Should support IEEE 802.17/equivalent for sub 50ms ring protection in following scenario: single, dual fibre cuts in ring, Control Plane Prioritization (CPP), Loop Detection and Loop protection.                                                                                                                                                                                                    |                     |
| 10.    | <b>Routing:</b> Switch can Support static Routing, RIP, OSPFV3, PIMv4SM, DM and SSM, RIPng, ECMP, Policy-based routing etc                                                                                                                                                                                                                                                                                               |                     |
| 11.    | <b>Security:</b> Should support ACL, DHCP snooping, IP Source guard, Dynamic ARP Inspection (DAI), DoS attack blocking, Private VLAN, AAA, Authentication (MAC, Web and IEEE 802.1x), BPDU Protection, MAC address filtering and MAC address lockdown, Network Access and Control, Port-based learn limits (intrusion detection) or equivalent, SSLv2 and SSLv3, SSH, TACACS+, RADIUS Accounting and Authentication etc. |                     |
| 12.    | <b>QoS:</b> Policy-based QoS based classifying traffic based on MAC, Port,VLAN, Protocol, Tail drop for queue congestion control, IP precedence and DiffServ marking , Strict priority/ weighted round robin, Wire speed traffic classification with low latency specially for Video and VOIP application                                                                                                                |                     |

|     |                                                                                                                                                                                                                                                                                                                                                                                                      |  |
|-----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| 13. | <b>Management:</b> CLI, GUI, USB interface for taking backup of software release files configurations, sflow or equivalent, DDM – Optical digital diagnostic monitoring as per SFF – 8472 or equivalent, UDLN or equivalent, Device management over IPv6 networks with SNMPv6, Telnetv6, SSHv6 etc, RMON 4 groups, SNMPv3, Should Support DHCPv6, DNSv6, Ipv4 and Ipv6 dual stack, NTPv6 Server etc. |  |
| 14. | The switch shall have pro-active intelligence to create an ICMP polling for service reachability based on IP address and configure pro-active action upon loss or re-establishment of the service reachability                                                                                                                                                                                       |  |
| 15. | The switch should support in built Layer 1 monitoring capability for end to end security monitoring to avoid any eve drops or security breach on the Fiber uplink links.                                                                                                                                                                                                                             |  |
| 16. | Event-based triggers allow user-defined scripts to be executed upon selected system events based on Time, Date, day and Event based                                                                                                                                                                                                                                                                  |  |
| 17. | Compliances: RoHS and IEEE 802.3z Energy Efficient Ethernet (EEE) Compliance and UL, CE and TUV or equivalent certifications.                                                                                                                                                                                                                                                                        |  |
| 18. | All the Active Network components proposed should be from a single manufacturer and should integrate seamlessly with the Existing SDN Controller of the Campus Wide Network.                                                                                                                                                                                                                         |  |
| 19. | Warranty: 3 years comprehensive                                                                                                                                                                                                                                                                                                                                                                      |  |

### 3.0.3: VIRTUALIZATION PLATFORM

| S. No.   | PARAMETERS                                                                                                  | COMPLIANCE (Yes/No) |
|----------|-------------------------------------------------------------------------------------------------------------|---------------------|
| <b>1</b> | <b>VIRTUALIZATION PLATFORM</b>                                                                              |                     |
| 1.1      | Linux and Windows servers, 32- and 64-bit operating systems.                                                |                     |
| 1.2      | Support for the latest Intel and AMD server chip sets                                                       |                     |
| 1.3      | Performance should be comparable to bare-metal for real-world enterprise workloads.                         |                     |
| 1.4      | Management layer should contain all the capabilities to manage and monitor a software-defined architecture. |                     |
| <b>2</b> | <b>WEB-BASED MANAGEMENT INTERFACE</b>                                                                       |                     |
| 2.1      | Integrated - no need to install a separate management tool or any additional management node.               |                     |
| 2.2      | Fast and easy creation of VMs and containers                                                                |                     |
| 2.3      | Seamless integration and easy management of a whole cluster. Support for up to 32 cluster nodes from day 1. |                     |
| 2.4      | Subscription management via GUI.                                                                            |                     |
| 2.5      | Secure HTML5 console, supporting SSL.                                                                       |                     |
| <b>3</b> | <b>SOFTWARE-DEFINED STORAGE</b>                                                                             |                     |
| 3.1      | Shared storage such as FC, iSCSI or NFS.                                                                    |                     |
| 3.2      | Support for 32 storage definitions (cluster wide) from day 1.                                               |                     |
| <b>4</b> | <b>LIVE MIGRATION</b>                                                                                       |                     |
| 4.1      | Moving VMs from one physical host to another with virtually zero downtime                                   |                     |

|          |                                                                                                                                                                                      |  |
|----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| <b>5</b> | <b>BACKUP AND RESTORE</b>                                                                                                                                                            |  |
| 5.1      | Full backups of VMs and containers                                                                                                                                                   |  |
| 5.2      | Live snapshot backups                                                                                                                                                                |  |
| 5.3      | Multiple schedules and backup storage                                                                                                                                                |  |
| 5.4      | All jobs from all nodes can be monitored via the GUI                                                                                                                                 |  |
| <b>6</b> | <b>VIRTUALIZED NETWORKING</b>                                                                                                                                                        |  |
| 6.1      | Bridged networking model                                                                                                                                                             |  |
| 6.2      | TCP/IP configuration                                                                                                                                                                 |  |
| 6.3      | IPv4 and IPv6 support                                                                                                                                                                |  |
| 6.4      | VLANs                                                                                                                                                                                |  |
| <b>7</b> | <b>VM TEMPLATES AND CLONES</b>                                                                                                                                                       |  |
| 7.1      | Deploying VMs from templates should be fast and comfortable, and if linked clones are used it should be possible to optimize the storage by using base images and thin-provisioning. |  |
| <b>8</b> | <b>HIGH-AVAILABILITY CLUSTER</b>                                                                                                                                                     |  |
| 8.1      | No single point of failure (no SPOF).                                                                                                                                                |  |
| 8.2      | Multi-master cluster                                                                                                                                                                 |  |
| 8.3      | Manage the HA settings for VMs and Containers via GUI.                                                                                                                               |  |
| <b>9</b> | <b>ROLE-BASED ADMINISTRATION</b>                                                                                                                                                     |  |
| 9.1      | User and permission management for all objects (VMs, storage systems, nodes, etc.)                                                                                                   |  |
| 9.2      | <b>Preferred Make:</b> Hyper-V, VMWare or equivalent.                                                                                                                                |  |

Seal & Signature of Bidder

## Annexure-4

**Price Schedule form:** Price Schedule for Goods Being Offered from India/Abroad in INR  
( Separate form to be used for each item offered)

**Name and Address of the Bidder/Tenderer:**

**Project Name:** Tender for Supply, Installation, Testing, Commissioning, and Integration of a Cluster of Virtual Machines Across Physical Nodes (Servers)

**Tender No.:**

| S. No.                                                                                                                       | Description of Material (A)                                                                          | Units (B) | Quantity (C) | Unit Price in INR (D) | HSN Code (E) | Applicable GST Percentage (F) | Unit Price with Tax in INR (G) | Total Price (H) In INR |
|------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|-----------|--------------|-----------------------|--------------|-------------------------------|--------------------------------|------------------------|
| 1                                                                                                                            | Servers as per subsection 2.0.1 of Technical Section.                                                | Nos       | 06           |                       |              |                               |                                |                        |
| 2                                                                                                                            | Interconnection Switches as per subsection 2.0.2 of Technical Section                                | Nos       | 02           |                       |              |                               |                                |                        |
| 3                                                                                                                            | Virtualization Platform as per subsection 2.0.3 of Technical Section with one year technical support | Lumpsum   | 01           |                       |              |                               |                                |                        |
| 4.                                                                                                                           | Cost of Provisioning Additional Servers as per Appendix –II for three months duration initially      | Lumpsum   | 01           |                       |              |                               |                                |                        |
| 5.                                                                                                                           | Installation, Testing, Commissioning and Integration of the above                                    | Lumpsum   | 01           |                       |              |                               |                                |                        |
| <b>Grand Total Price in INR</b>                                                                                              |                                                                                                      |           |              |                       |              |                               |                                |                        |
| <b>Grand Total Price in INR (in Words):</b>                                                                                  |                                                                                                      |           |              |                       |              |                               |                                |                        |
| <b>IMPORTANT NOTE:</b> Among the technically qualified bids, the L1 bidder will be evaluated on the Grand Total Price in INR |                                                                                                      |           |              |                       |              |                               |                                |                        |

**Note:**

- (a) Price should be all inclusive F.O.R. NIT Raipur & must be quoted in above prescribed format only.

Seal & Signature of Bidder

**Annexure-5****DEVIATION STATEMENT FORM**

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

| CLAUSE | DEVIATION | REMARKS<br>(INCLUDING<br>JUSTIFICATION) |
|--------|-----------|-----------------------------------------|
|        |           |                                         |
|        |           |                                         |
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|        |           |                                         |
|        |           |                                         |

Seal &amp;Signature of Bidder

**Annexure-6(Please put this annexure at the top of the tender document)**

### **Bidder's information & Check list**

1. **Name of the Firm:**
2. **Type of the firm:** (Proprietorship, Pvt Ltd, Public Ltd, Partnership etc.)
3. **Address of the firm:**
4. **Contact detail:**

|                   |                  |
|-------------------|------------------|
| <b>Phone No.:</b> | <b>Mob No. :</b> |
| <b>Fax No.</b>    | <b>E mail:</b>   |
5. **Name of the authorised signatory:**

- 6. EMD detail : Instrument No.** **Date :** **Amount:**
- Issuing Bank name & branch detail:**
- 7. Bank details of the firm:**
- Account No.:** **IFSC Code:**
- Name of the Bank:** **Branch:**

**Check List(Please enclose the copy of the following & tick as per applicability)**

- 1. Proof of registration of the firm/ GST Registration Certificate:**
- 2. PAN card in Firm's name:**
- 3. Proof of registration with any central govt. organisation (if required).**
- 4. Purchase orders issued by any central govt organisation (if required).**
- 5. Bank details of the firm in letter head of the organisation.**
- 6. Any other required document**

Seal &amp; Signature of Bidder