



**NATIONAL INSTITUTE OF TECHNOLOGY**

**RAIPUR – 492 010, CHHATTISGARH**

## Open (Advertised) Tender for the Replacement of Faulty Network Devices in the Institute Main Building and for the Extension of Campus LAN to Shivrath Hostel at NIT Raipur

**Department: Central Computer Center**

**Enquiry No: NITRR/CCC/OT/2023/1528**

**Date: 04/09/2023**

### **Important Dates**

To

| Event                                | Date                                                                      | Time           |
|--------------------------------------|---------------------------------------------------------------------------|----------------|
| Last Date of submission of quotation | 16/10/2023                                                                | Upto 18:00 Hrs |
| Technical bid Opening date           | 18/10/2023                                                                | At 16:00 Hrs   |
| Price (financial) bid Opening        | To be Informed to technically successful bidders by e-mail and telephone. |                |

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.**

-SD-

**Registrar**

National Institute of Technology, Raipur

Enclosed:

- (1) Bid Document - Instructions to bidders - containing detailed terms and conditions.
- (2) Bidder's Eligibility Criteria - Annexure 1
- (3) Acceptance of tender terms & conditions-Annexure 2
- (4) List of Goods and/or Services – Annexure 3
- (5) Scope of Work with Detailed Functional & Technical Specifications of Equipment– Annexure 4
- (6) Price Schedule for goods/ services being offered from India – Annexure 5
- (7) Deviation statement form - Annexure 6
- (8) Bidder information & check list – Annexure 7

**BID DOCUMENT****INSTRUCTIONS TO BIDDERS**

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. Bidders / Tenderers 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. Please note that in this tender the bidder has to quote for all the items and/or services provided in annexure 3.**

- **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 the 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 E-tendering systems, in the 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 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. Tenders have to be submitted only online at <https://www.tenderwizard.com/NITR> . All documents in support of eligibility criteria and technical compliance, etc. are also to be scanned and uploaded along with the tender documents. Tender sent by any other mode will not be accepted.
12. **PRE-BID SITE SURVEY:**  
The pre-bid site survey is mandatory. If the firm does not conduct the pre-bid site survey, then its bid shall not be considered. Pre-bid site survey is to be carried out on the 7<sup>th</sup> day or immediate next working day (if the 7<sup>th</sup> day happens to be a holiday) from the date of this advertisement (which is considered as 1<sup>st</sup> day).
13. **PRE-BID QUERIES:**  
If a bidder has any technical queries then email can be sent to [cccnetproj@nitr.ac.in](mailto:cccnetproj@nitr.ac.in) . In case of any commercial queries, email can be sent to [storenpurchase@nitr.ac.in](mailto:storenpurchase@nitr.ac.in), [asstreg.str@nitr.ac.in](mailto:asstreg.str@nitr.ac.in). No queries will be entertained on or after the 15<sup>th</sup> day from the date of this advertisement (which is considered as 1<sup>st</sup> day).
14. **Amendment of Bidding Documents**
  - Corrigendum and/or Addendum, if any, for the tender, shall form part of the Tender Document. All Corrigendum and/or Addendum 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 and/or addendum and/or other amendments to the tender without fail and submit their offer accordingly. NIT Raipur will not be responsible for ignorance of an issued corrigendum and/or addendum and/or amendment.

- 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 posted on the website of the Institute and all prospective bidders/tenderers are expected to surf the website before submitting their bids to take cognizance of the amendments. Bidders/Tenderers who have submitted their bids before publishing the amendment may revise their bid incorporating the amendments before the last date of tender.
- In order to allow prospective Bidder/Tenderers 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 post the revised date on the website of the Institute.

15. **Custom duty:** NIT Raipur has registration in Department of Scientific & Industrial Research (DSIR). However, the same is not applicable for this project.

16. **Bid Security / Earnest Money (EMD)**

The Bidder/Tenderer shall furnish, as part of its bid, a bid security. **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 to be submitted shall be INR 35,000/- or the bidder needs to submit a valid MSME certificate or bid securing declaration as in GFR 2017.

In the case of foreign bidders/tenderers, the bid security shall be submitted either by the principal or by the Indian agent and in the case of indigenous bidders/tenderers, the bid security 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 released within one month of submission of PBG.
- **The firms registered with DGS&D & NSIC, MSME 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 the exemption certificate is not found suitable for exemption then the bid will not be considered in any case.**
- In place of a bid security or EMD, the bidder can sign a bid securing declaration accepting that if they withdraw or modify their bids during the period of validity, or if they are awarded the contract and they fail to sign the contract, or to submit a performance security before the deadline defined in the request for bids document, they will be suspended for two years from being eligible to submit bids for contracts with the Institute.
- **The bid security may be forfeited** 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.

#### 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, datasheets, manuals, guides, brochures, leaflets, etc.
- ii. A compliance statement showing the compliance of the item quoted by you with that of the 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 implicitly or explicitly indicated in the techno-commercial part.**

#### 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 the same is applicable and if it is required.
  - The bidder should enclosed proof of turnover by way of Audited Balance Sheet/Auditor's certificate if the same is applicable and if it is required.
  - The bidder should enclosed Photocopy of PAN card issued in the name of the bidder's firm.

- All the supporting documents as required in Annexure – 1 under Bidder's Eligibility Criteria.

**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-2).**
- **The bidders must have to upload compliance sheets in the format mentioned under Scope of Work with Detailed Technical Specifications of Items (As per Annexure-4)**

**Part II: Price Bid**

(Format in Annexure – 5)

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.***

- Tenderer shall indicate very clearly item-wise prices with reference to their technical offer.
- The bidders should quote their offer/rates in clear terms without ambiguity.
  - In case of any discrepancy between the rates in figures and that in words, the rate in words will be accepted as correct.
  - 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**

- The Bidder/Tenderer shall indicate **unit prices in the prescribed format only.**
- Prices indicated on the price-schedule form shall be entered separately in the following manner:

**(a) For Goods being offered from India in INR**

- The price of the goods/ services 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 5**)
- Conditional discount, if any, offered by the bidder shall not be considered at the time of evaluation.

**23. Responsiveness of Bids**

- 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:
  - 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.
- (iii) 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 and/or services price shall be calculated FOR NIT Raipur. The lowest bid (i.e., the L1 bid) will be decided by the price of the goods and/or services quoted 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:** Bidders are required to quote all-inclusive unit prices of the goods and/or services which shall include the packing, forwarding, freight, transportation, insurance charges, etc. in accordance with the price bid format / template. Government taxes need to be mentioned separately as mentioned in the price bid format / template.

- 25. The Institute reserves the right to conduct pre-dispatch inspection of goods and the vendor must facilitate it at NIT Raipur's cost for pre-dispatch inspection.
- 26. **Warranty:** The warranty for supplied active devices should be 1 year from the date of supply.
- 27. **Terms of Payment:** 100% payment on completion of supply, installation, configuration, integration and testing of the supplied items and documentation.

### Note:

- 1. The nomenclature used for the item description in the invoices(s), and the delivery challan etc. should be identical to that used in the contract.
- 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.

28. **Performance Security:** The successful bidder has to furnish "Performance Security of 5% of the ordered value in Indian Rupee", in the form of Account Payee Demand Draft / Fixed Deposit / Online Payment 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 15 days of intimation of the work order, failing which the successful bidder's 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.

29. **Delivery period:** Delivery of items should be made within **120 days** from the date of order placement.

30. **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 concerned department with copy of Purchase order and other relevant details.

31. **Delayed delivery (Liquidated damages):**

Any delay by the contractor/bidder in the performance or the delivery obligations shall render him/her liable to any of the following penalties:

- a) In the event of contractor's failure to supply the said items of acceptable quality and specifications within the original delivery period given in the purchase order, NIT Raipur shall be at liberty to recover liquidated damages to be levied @ 0.5% of the order value per week or part thereof subject to a maximum of 10% of the total order value.
- b) Forfeiture/encashment of the performance bank guarantee/earnest money.
- c) Liquidated damages shall be calculated on the total contract value comprising of value of complete equipment and installation & commissioning charges for a site. The supply shall be taken as complete only after the last installment of supply has been made.
- d) After a delay of more than 8 weeks, NIT Raipur reserves the right to cancel the purchase order and buy the items from any other vendor, at bidder's risk and cost. Any losses caused to NIT Raipur on this account shall be recoverable from bidder.
- e) In case of delay due to site not ready condition / delay in customs etc. which cannot be reasonably attributable to the system integrator then in such condition LD shall not be imposed. However, prior information has to be provided for the same.
- f) If the payment due against a phase extends beyond 30 days for reasons which cannot be reasonably attributable to the system integrator, the period beyond this till realization of payment will not be counted towards imposition of liquidated damages.

32. **Installation time:** The system integrator must perform the supply, installation, configuration, repairs etc. as needed within 120 days from the date of purchase order failing which order

may be cancelled and EMD may be forfeited.

33. **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.
34. **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.
35. **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.
36. **Force Majeure:**  
If at any time, during the continuance of this contract, the performance in whole or in part by either party or any obligation under this contract shall be prevented or delayed by reason of any war, or hostility, acts of the public enemy, civil commotion, sabotage, fires, floods, explosions, epidemics and pandemics, quarantine restrictions, strikes, lockouts or act of God (hereinafter referred to as events) provided notice of happenings of any such eventuality is given by either party to the other within 21 days from the date of occurrence thereof, neither party shall by reason of such event be entitled to terminate this contract nor shall either party have any such claim for damages against the other in respect of such nonperformance or delay in performance, and deliveries under the contract shall be resumed as soon as practicable after such event may come to an end or cease to exist and the decision of the purchaser as to whether the deliveries have been so resumed or not shall be final and conclusive provided further that if the performance in whole or part of any obligation under this contract is prevented or delayed by reason of any such event for a period exceeding 90 days either party may at his option, terminate the contract provided also that if the contract is terminated under this clause, the Purchaser shall be at liberty to take over from the Successful Tenderer at a price to be fixed by the purchaser with mutual consent which shall be final all unused, undamaged and acceptable materials bought out components and stores in course of manufacture in possession of the Successful Tenderer at the time of such termination of such portions thereof as the purchaser may deem fit excepting such materials bought out components and goods as the Successful Tenderer may with the concurrence of the Purchaser select to retain.
37. **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.
38. Any disputes arising out of this enquiry shall be dealt in the Raipur jurisdiction.
39. Bidder has to sign all the pages of this tender and enclose it with the bid.

**-SD-**  
**Registrar**  
NIT-Raipur

## **List of Annexure**

1. Bidder's Eligibility Criteria – Annexure 1
2. Acceptance of tender terms & conditions-Annexure 2
3. List of Goods and/or Services – Annexure 3
4. Scope of Work with Detailed Functional & Technical Specifications of Equipment– Annexure 4
5. Price Schedule for goods being offered from India – Annexure 5
6. Deviation statement form - Annexure 6
7. Bidder information & check list – Annexure 7

## Annexure 1

### 1.0 BIDDER'S ELIGIBILITY 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) should be submitted                                                                           |                     |
| 2.     | The bidding firm must provide organization details such as PAN and GST registration certificates                                                                                                                                   | Signed and Sealed Copy of necessary certificates should be submitted                                                                                                             |                     |
| 3.     | The bidding firm shall be ISO 9001 & 27000 certified                                                                                                                                                                               | Signed and Sealed Copy of ISO certification should be submitted                                                                                                                  |                     |
| 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 should be submitted                                                                                                                            |                     |
| 5.     | The active network devices and UPS 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 to this extent should be submitted on the manufacturer's letter head under its sign and seal.                                                                           |                     |
| 6.     | The network components (active and passive) and UPS should be from ISO 9000 certified manufacturers.                                                                                                                               | Documentary proof of ISO certification should be submitted                                                                                                                       |                     |
| 7.     | The manufacturers of the active network devices should have Service Center(s) based in India for offering post-sales technical support                                                                                             | A list of minimum three authorized service centers of the manufacturer along with their addresses should be submitted on the manufacturer's letter head under its sign and seal. |                     |
| 8.     | The bidding firm should be authorized by the manufacturer of network devices for participation in this tender                                                                                                                      | Authorization certificate issued by the manufacturer on the manufacturer's letter head under its sign and seal                                                                   |                     |
| 9.     | In case End-Customer demands for an Onsite demonstration, the bidder must comply with the requirements for the same mentioned below*                                                                                               | Undertaking for the same should be provided including the declaration that the bid shall be disqualified if the PoC fails.                                                       |                     |
| 10.    | The Bidder must ensure the proposed switches shall integrate with the existing LAN devices and NMS etc.                                                                                                                            | The bidder must submit a letter from the manufacturer(s) of active network devices regarding the same.                                                                           |                     |

**\*Requirements for On-site / Proof-of-Concept Demonstration:** The technically qualified bidders may be asked with prior notification from NIT Raipur to demonstrate the products quoted against the tender, their compliance to the technical specifications / features, and their compatibility and integration with the existing setup during the technical evaluation stage of the tender. All the required hardware / software and any other infrastructure for the PoC demonstration should be sourced by the bidder and / or manufacturer at their own cost. Specific details of the PoC demonstration shall be communicated later. It should be noted that the successful qualification of the PoC demonstration is required; however, the same does not guarantee any order confirmation from NIT Raipur, which is also dependent on multiple other factors, e.g., L-1 bid, as mentioned in the tender document. The bidder must conduct the PoC demonstration unconditionally at the designated time and venue and without any cost implication to NIT Raipur.

## Annexure 2

### **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 & conditions of Tender.

**Tender ref.No.: NITRR/CCC/OT/2023/\_\_\_\_\_**

**Dated \_\_\_\_\_**

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 30 (including all documents like annexure, schedules etc.) which form part of the tender document and I/we shall 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 or 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 3

#### **List of Goods and/or Services to be Procured under Tender**

Following is the list of goods and/or services (express or implied) which are to be procured under this tender.

The goods and/or services must be inline with the detailed technical specifications and scope of work.

| S. No    | Description of Equipment/Sub-system/or Services                                                   | UoM   | Quantity |
|----------|---------------------------------------------------------------------------------------------------|-------|----------|
| <b>A</b> | <b>Enclosure &amp; Power Backup Management</b>                                                    |       |          |
| 1        | 19" network rack cabinet                                                                          | Nos   | 1        |
| 2        | 1 kVA online UPS with inbuilt battery backup                                                      | Nos   | 1        |
| 3        | Voltage Stabilizer for 1kVA online UPS                                                            | Nos   | 1        |
| <b>B</b> | <b>Active Components</b>                                                                          |       |          |
| 1        | Layer 2 Managed Gigabit 24 Port Network Access Switch as per mentioned technical specifications   | Nos   | 7        |
| 2        | Layer 2 Managed Gigabit 8 Port PoE Access Switch as per mentioned technical specifications        | Nos   | 1        |
| 3        | Wi Fi Access Points with additional controller licenses as per mentioned technical specifications | Nos   | 6        |
| 4        | 1G Uplink SFP Modules as per mentioned technical specification                                    | Nos   | 2        |
| <b>C</b> | <b>Passive Components</b>                                                                         |       |          |
| 1        | UTP Datapoints with Keystone, Faceplate & Backbox                                                 | Nos   | 6        |
| 2        | FO Termination - LIU (loaded)                                                                     | Nos   | 1        |
| 3        | 12Core SM FO Armoured Cable                                                                       | Mtrs  | 100      |
| 4        | UTP Patch Panel                                                                                   | Nos   | 1        |
| 5        | UTP Patch Cord (1m)                                                                               | Nos   | 12       |
| 6        | UTP Cat 6 Cable Reels ( 305Mtrs)                                                                  | Reels | 2        |
| 7        | Casing capping medium size (2m)                                                                   | Nos.  | 50       |
| 8        | 40mm HDPE (ISI marked)                                                                            | Mtrs  | 100      |
| 9        | Fiber Pigtails (1.5m)                                                                             | Nos   | 12       |
| 10       | Fiber Patch Cord                                                                                  | Nos   | 2        |
| <b>D</b> | <b>Services Components</b>                                                                        |       |          |
| 1        | Active Network Device Installation, Configuration, Testing and Commissioning                      | Nos   | 14       |
| 2        | Network rack cabinet installation                                                                 | Nos   | 1        |
| 3        | Online UPS & Voltage Stabilizer installation                                                      | Lot   | 1        |
| 4        | Fixing of UTP Data points                                                                         | Nos   | 6        |
| 5        | UTP Cabling through conduits (casing-capping)                                                     | Mtrs  | 350      |
| 6        | Trenching , HDPE laying & FO cabling with backfilling                                             | Mtrs  | 100      |
| 7        | UTP Patch Panel Fixing and Cable Termination                                                      | Nos   | 1        |
| 8        | Fiber Splicing                                                                                    | Nos   | 12       |
| 9        | LIU Fixing and Fiber Management                                                                   | Nos   | 1        |
| 10       | Feruling, Labeling, Documentation and Training                                                    | Nos   | 1        |
| 11       | Any other items/ services required to complete the project (a)___ (b)___                          | Lot   | 1        |

## Annexure 4

### Detailed Scope of Work and Technical Specifications with Compliance

#### SCOPE OF WORK:

Potential bidders should note that the purpose of the tender is to replace the faulty network active devices installed in different locations of the institute building, extension of LAN to Shivnath hostel and provisioning of Wi-Fi access points there in.

The successful bidder need to supply, configure, install and test the Network switches, Indoor Wi-Fi access points as given in the goods and services list. The IO points, Ups, Stabilizer mentioned in the item list should be supplied and installed at the specified locations. Laying of cables should be done as per requirement with proper ferruling and labeling.

Bidder should supply, install, configure, test and integrate the 24 port network access switch as mentioned in the list of materials at different locations of the institute as a replacement of existing failed device. The switch should integrate with the existing NMS for remote monitoring.

Bidder need to perform LAN extension to Shivnath girl's hostel and to provide WiFi connections therein. The 8 port network switches, Wi-Fi access points and other items mentioned in the list of material needs to be supplied, installed, configured, test and integrate by the bidder.

Bidder need to create a network distribution point inside the Shivnath hostel at a suitable location in which 8 port network switch, UPS, patch panel, LIU etc items will be installed and Wi-Fi connections will be provided.

The fiber cable from network distribution point is available at the concrete chamber which is just outside the hostel boundary opposite of road. Bidder needs to check this fiber first and then take this fiber cable inside the hostel, join the supplied fiber cable if required and terminate the fiber cable to this network rack LIU.

Bidder needs to identify optimum location to place Wi-Fi access points in different locations of this hostel and to perform necessary cabling, IO fixing and Wi Fi mounting works so that each room of this hostel get required Wi-Fi coverage.

IO fixing, structured cable laying through casing capping, rack installation, active device installation, configuration, testing, commissioning, cable termination with ferruling and labeling and other services as mentioned in the list of goods and services are in the scope of bidder.

Any transportation, manpower requirement, etc. which will be required to complete the project will be in the bidders scope.

The bidder will provide all document which are essential for operations and maintenance of the completed work.

The exact installation locations will be provided by CCC. It is bidder's responsibility to make the complete system functional. The detailed service requirements are mentioned below.

**SERVICE REQUIREMENTS**

| S. No. | Description                                                                                                                                                                                                                                                                                                                    | Compliance (Yes/No) |
|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|
| 1.     | Bidder needs to supply items which meet the provided technical specification                                                                                                                                                                                                                                                   |                     |
| 2.     | Installation must be done by a service engineer of the bidder/ OEM                                                                                                                                                                                                                                                             |                     |
| 3.     | Exact installation locations will be provided by Central Computer Center, NIT Raipur                                                                                                                                                                                                                                           |                     |
| 4.     | The bidder will be responsible for transportation, handling, and installation etc of the items to the specified installation location.                                                                                                                                                                                         |                     |
| 5.     | The network active device should meet the compliance sheet as per technical specifications and it should integrate with existing NMS for live remote monitoring.                                                                                                                                                               |                     |
| 6.     | The supplied indoor access point should be integrated with the existing Wi-Fi controller. If the supplied indoor Wi-Fi access point does not integrate with the existing Wireless Controller then bidder need to supply Wireless Controller of given specifications with no additional cost.                                   |                     |
| 7.     | It will be the bidder's responsibility to configure, test and integrate the supplied network items with the existing network without any ambiguity.                                                                                                                                                                            |                     |
| 8.     | The HPDE conduits, Casing Capping used for structured cabling should be from ISI make.                                                                                                                                                                                                                                         |                     |
| 9.     | Ferruling and labeling should be done for all passive works                                                                                                                                                                                                                                                                    |                     |
| 10.    | All the installation must be done by the service engineer of the bidder/ OEM.                                                                                                                                                                                                                                                  |                     |
| 11.    | During the warranty period, Service engineer must be available on the site, i.e., the institute within 4 hours of reporting a problem for problem diagnosis and troubleshooting.                                                                                                                                               |                     |
| 12.    | During the warranty period, an identical spare must be made available on the site within 8 hours of reporting a problem till the failed device is repaired and re-installed to ensure minimum disruption in services.                                                                                                          |                     |
| 13.    | Institute reserves the right to test the claimed technical parameter of the supplied devices. Manufacturer or bidder may send their engineer during the test. Supplier agrees that no payment will be made if the devices are found defective on arrival or does not comply with the claims or develops faults during testing. |                     |
| 14.    | Service engineer should do preventive maintenance during warranty period if required.                                                                                                                                                                                                                                          |                     |

**TECHNICAL SPECIFICATIONS****1. 19" Network Rack Cabinet**

| S. No. | Parameter          | Specification                                  | Compliance (Yes/ No) |
|--------|--------------------|------------------------------------------------|----------------------|
| 1.     | Basic Frame        | Steel                                          |                      |
| 2.     | Construction       | Welded / CKD                                   |                      |
| 3.     | Top & Bottom Cover | Welded to Frame with Cable entry exit cut outs |                      |

|     |                         |                                          |  |
|-----|-------------------------|------------------------------------------|--|
| 4.  | Front Door              | Lockable Door with Steel Frame and Glass |  |
| 5.  | 19" Mounting Angle      | Formed Steel                             |  |
| 6.  | Std. Equipment Mounting | DIN Std. 10mm Sq. Slots                  |  |
| 7.  | Standard Finish         | Powder coated                            |  |
| 8.  | standard color          | Grey & Off White OR Black                |  |
| 9.  | Rack Standard           | Conforms to DIN 41494 or equivalent      |  |
| 10. | U space (1U = 44.45mm)  | Min 15U with 550x400                     |  |
| 11. | Usable Space (mm)       | 15U                                      |  |
| 12. | Fan Space               | 1 / 2 fan mount provision                |  |
| 13. | Grounding               | Grounding & Bonding Options              |  |
| 14. | Static Load             | 15-20kg                                  |  |
| 15. | PDU                     | Horizontal PDU with 4 sockets            |  |

## 2. 1KVA ONLINE UPS

| S. No. | Parameter              | Specification                                                                                                                                                                                                                   | Requirement                                                                                                                                                                                                                                                                                                                          | Compliance (Yes/No) |
|--------|------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|
| 1.     | Capacity               | VA/W                                                                                                                                                                                                                            | 1000VA/800W                                                                                                                                                                                                                                                                                                                          |                     |
| 2.     | AC Input Parameters    | Nominal Input Voltage<br>230V signal phase 2 wire + G,<br>Variation<br>Input Power factor<br>Input Frequency                                                                                                                    | 150V-290V<br><br>≥0.95<br>50Hz ± 5%                                                                                                                                                                                                                                                                                                  |                     |
| 3.     | DC Output (Rectifier)  | UPS Capacity 1kVA                                                                                                                                                                                                               | DC Output (Nominal)                                                                                                                                                                                                                                                                                                                  |                     |
| 4.     | Output Parameters      | Output Voltage (Nominal)<br>Voltage Stability<br>Frequency (Free Running/<br>Battery)<br>Frequency (Synchronized to<br>Mains)<br>Harmonic Distortion<br>Efficiency<br>Power factor<br>Overload<br>Crest factor<br>Transfer Time | 230V AC Single Phase<br>±2% for DC Input variation<br>& Output load variations<br>50Hz ± 0.05Hz (Crystal<br>Controlled)<br>50Hz ± 5Hz<br><3% (for linear loads) & <<br>5% (for non-linear loads)<br>≥85%<br>0.8 lagging to unity<br>110% for > 30 sec<br>150% for > 3secs<br>≥3:1<br>Mains to battery = 0ms<br>Mains to bypass < 5ms |                     |
| 5.     | Battery Backup         | 15 Minutes                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                      |                     |
| 6.     | Indicators/ Alarm      | UPS Line mode/ Battery Mode/ Bypass Mode/ Fault Mode                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                      |                     |
| 7.     | Ambient Conditions     | <ul style="list-style-type: none"> <li>Operating Temp.: 0 °C 40 °C,</li> <li>Storage Temp.: 0 °C-50 °C,</li> <li>Relative Humidity: 95 % RH</li> <li>Operating Altitude: 1500 meters</li> </ul>                                 |                                                                                                                                                                                                                                                                                                                                      |                     |
| 8.     | Display and Monitoring | Digital LCD Metering                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                      |                     |

|     |                   |                                          |  |
|-----|-------------------|------------------------------------------|--|
| 9.  | Optional Features | By Pass Switch, Serial RS 232 Interface, |  |
| 10. | Warranty          | As per work order                        |  |

### 3. Voltage Stabilizer

| S. No. | Parameter                       | Specification                                                                                                                                          | Requirement                                     | Compliance (Yes/No) |
|--------|---------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------|---------------------|
| 1.     | Capacity                        | VA/W                                                                                                                                                   | Should be able to support minimum 1000W of load |                     |
| 2.     | AC Input Parameters             | Nominal Input Voltage<br>230V signal phase                                                                                                             | 140V-290V                                       |                     |
| 3.     | AC Output Parameters            | 230V signal phase                                                                                                                                      | 230V                                            |                     |
| 4.     | Under Voltage Protection        | Yes                                                                                                                                                    |                                                 |                     |
| 5.     | Over Voltage Protection         | Yes                                                                                                                                                    |                                                 |                     |
| 6.     | Auto start                      | Yes                                                                                                                                                    |                                                 |                     |
| 7.     | Ambient Conditions (preferable) | <ul style="list-style-type: none"> <li>Operating Temp.: 0 °C 40 °C,</li> <li>Storage Temp.: 0 °C-50 °C,</li> <li>Relative Humidity: 95 % RH</li> </ul> |                                                 |                     |
| 8.     | Display and Monitoring          | Digital Display                                                                                                                                        |                                                 |                     |
| 9.     | Mounting                        | Wall Mounted                                                                                                                                           |                                                 |                     |
| 10.    | Warranty                        | As per work order                                                                                                                                      |                                                 |                     |

### 4. NETWORK DEVICES: Layer 2 Managed Gigabit 24 Port Network Access Switch

| S. No. | Technical Specifications                                                                                                                                                                  | Compliance (Yes/No) |
|--------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|
| 1      | Switch should offer Wire-Speed Non-Blocking Switching & Routing Performance at Layer 2 & Layer 3.                                                                                         |                     |
| 2      | Switch should have Twenty Four (24) 1GbE RJ45 ports and Four (4) 10GbE SFP Slots                                                                                                          |                     |
| 3      | Access Switch should support Stacking up to 8 Switches with more than 40 Gbps stacking bandwidth per Switch.                                                                              |                     |
| 4      | Switching Bandwidth: Should provide Non-Blocking switch fabric capacity of 128 Gbps or more.                                                                                              |                     |
| 5      | Forwarding Capacity: Should provide wire-speed packet forwarding of 96 Mpps or more.                                                                                                      |                     |
| 6      | Switch should support 4K Active VLANs                                                                                                                                                     |                     |
| 7      | Switch should support 12K MAC addresses or more.                                                                                                                                          |                     |
| 8      | Switch should support IP multicast snooping with support for IGMP v1, v2, v3 and MLD v1 & v2                                                                                              |                     |
| 9      | Switch should support Jumbo Frames (up to 9K bytes)                                                                                                                                       |                     |
| 10     | Switch should support minimum 1K IPv4 Routes or more                                                                                                                                      |                     |
| 11     | Switch should support Basic IPv4 and IPv6 Static Routing, ECMP, Host Routes, Virtual Interfaces, Routed Interfaces, Route Only and Routing between directly connected subnets from Day 1. |                     |

|    |                                                                                                                                                           |  |
|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| 12 | Switch should support Dynamic IPv4 & IPv6 Routing protocols (OSPFv2 and OSPFv3) and Layer 3 Multicast Routing Protocols from Day 1.                       |  |
| 13 | Switch should support RADIUS, username/password for Authentication, Authorization and Accounting (AAA) with Local User Accounts and Local User Passwords. |  |
| 14 | Switch should support secure communications to the management interface and system through SSL, Secure Copy and SNMPv3                                    |  |
| 15 | Switch should support IP Source Guard, DHCP snooping, DHCPv4, DHCPv6 and Dynamic ARP Inspection.                                                          |  |
| 16 | Switch should support IPv4 and IPv6 ACLs with up to 500 rules per ACL and a minimum of 6K rules per system (Standalone Switch or Stack).                  |  |
| 17 | Switch should support Byte and packet based broadcast, multicast, and unknown-unicast limits with suppression port dampening.                             |  |
| 18 | Switch should support IPv6 Router Advertisement (RA) Guard.                                                                                               |  |
| 19 | Switch should support Flexible Authentication with 802.1x Authentication and MAC Authentication.                                                          |  |
| 20 | Switch should support manageability using Controller from the same OEM. Controller to be quoted along with the switches.                                  |  |
| 21 | Switch should provide Integrated Standard based Command Line Interface (CLI), Telnet, TFTP, HTTP access to switch management/monitoring                   |  |
| 22 | Switch should support NetFlow or sFlow or equivalent                                                                                                      |  |
| 23 | Mounting Option: 19" Universal rack mount ears                                                                                                            |  |
| 24 | All categories of Switches & Switch OS should be from same OEM                                                                                            |  |

## 5. LAYER 2 MANAGED GIGABIT 8 PORT POE ACCESS SWITCH

| S. No. | Technical Specifications                                                                                                                                                                  | Compliance (Yes/No) |
|--------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|
| 1      | Switch should offer Wire-Speed Non-Blocking Switching & Routing Performance at Layer 2 & Layer 3.                                                                                         |                     |
| 2      | Switch should have eight (8) 1GbE RJ45 ports and Two (2) 1/10GbE SFP Slots                                                                                                                |                     |
| 3      | Access Switch should support Stacking up to 8 Switches with more than 20 Gbps stacking bandwidth per Switch.                                                                              |                     |
| 4      | Switching Bandwidth: Should provide non-Blocking switch fabric capacity of 56 Gbps or more.                                                                                               |                     |
| 5      | Forwarding Capacity: Should provide wire-speed packet forwarding of 42 Mpps or more.                                                                                                      |                     |
| 6      | Switch should support 4K Active VLANs                                                                                                                                                     |                     |
| 7      | Switch should support 16K MAC addresses or more.                                                                                                                                          |                     |
| 8      | Switch should support IP multicast snooping with support for IGMP v1, v2, v3 and MLD v1 & v2                                                                                              |                     |
| 9      | Switch should support Jumbo Frames (up to 9K bytes)                                                                                                                                       |                     |
| 10     | Switch should support minimum 300 Routes or more                                                                                                                                          |                     |
| 11     | Switch should support Basic IPv4 and IPv6 Static Routing, ECMP, Host Routes, Virtual Interfaces, Routed Interfaces, Route Only and Routing between directly connected subnets from Day 1. |                     |
| 12     | Switch should support ISATAP from day one                                                                                                                                                 |                     |
| 13     | Switch should support Dynamic IPv4 & IPv6 Routing protocols (OSPFv2 and OSPFv3) and Layer 3 Multicast Routing Protocols from Day 1.                                                       |                     |

|    |                                                                                                                                                           |  |
|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| 14 | Switch should support RADIUS, username/password for Authentication, Authorization and Accounting (AAA) with Local User Accounts and Local User Passwords. |  |
| 15 | Switch should support secure communications to the management interface and system through SSL, Secure Copy and SNMPv3                                    |  |
| 16 | Switch should support IP Source Guard, DHCP snooping, DHCPv4, DHCPv6 and Dynamic ARP Inspection.                                                          |  |
| 17 | Switch should support IPv4 and IPv6 ACLs with up to 2k rules per ACL and a minimum of 2K rules per system (Standalone Switch or Stack).                   |  |
| 18 | Switch should support Byte and packet-based broadcast, multicast, and unknown-unicast limits with suppression port dampening.                             |  |
| 19 | Switch should support IPv6 Router Advertisement (RA) Guard.                                                                                               |  |
| 20 | Switch should support Flexible Authentication with 802.1x Authentication and MAC Authentication.                                                          |  |
| 21 | Switch should support manageability using Controller from the same OEM. Controller to be supplied along with the switches.                                |  |
| 22 | Switch should provide Integrated Standard based Command Line Interface (CLI), Telnet, TFTP, HTTP access to switch management/monitoring                   |  |
| 23 | Switch should support NetFlow or sFlow or equivalent                                                                                                      |  |
| 24 | All ports should support 802.3af and 802.3at POE standards                                                                                                |  |
| 25 | Total POE budget should be 124 watts                                                                                                                      |  |
| 26 | The Switch & OS should be from same OEM                                                                                                                   |  |

## 6. INDOOR WI-FI ACCESS POINTS

| S. No. | Technical Specifications                                                                                                                       | Compliance (Yes/No) |
|--------|------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|
| 1.     | The access point should be capable to offer IEEE 802.11ac Wave 2 standard with an assured throughput 1.1 Gbps or more.                         |                     |
| 2.     | Should support dual band as 2.4 or 5GHz with embedded antenna                                                                                  |                     |
| 3.     | Support IEEE 802.11a/b/g/n/ac 2x2 MIMO                                                                                                         |                     |
| 4.     | The AP should be operated in standalone as well as controller-based environment.                                                               |                     |
| 5.     | Should have feature to create multiple virtual AP on the same physical device to configure the different security policies for each virtual AP |                     |
| 6.     | Should have feature to allocate the equal bandwidth for all the connected users to ensure consistent performance for all users                 |                     |
| 7.     | AP should be offering automatic channel selection to restrict interference                                                                     |                     |
| 8.     | Should support Multiple BSSIDs, VLAN tagging                                                                                                   |                     |
| 9.     | Should support automatic channel selection to avoid overlapping of the channel                                                                 |                     |
| 10.    | Support RF load balancing to increase the performance and support WDS and WMM                                                                  |                     |
| 11.    | Should have option Band Steering and support 802.11k, 802.11v, and 802.11r for Fast roaming                                                    |                     |
| 12.    | Should have mechanism to detect the Neighbor AP and client isolation                                                                           |                     |

|     |                                                                                                                                                                                        |  |
|-----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| 13. | Should support Authentication, Accounting and 802.1x, WPA, MAC address and Captive Portal                                                                                              |  |
| 14. | Should support the mechanism to Hide and ignore/restrict for specific SSID                                                                                                             |  |
| 15. | CE, RCM, FCC, Wi-Fi certified, UL60950-1, EN 55024, EN 55032, EN 61000-4-2, EN 61000-4-6, EN 61000-4-11                                                                                |  |
| 16. | Operating Temperatures: 0°C to 50°C                                                                                                                                                    |  |
| 17. | Should be operated as 802.3at or 802.3af standard                                                                                                                                      |  |
| 18. | Bidder shall ensure that the proposed AP/s shall seamlessly integrate with the existing Wireless Controller without any additional hardware / Software / 3rd interfacing applications. |  |

## 7. ON PREMISE WIRELESS CONTROLLER\*

| S. No. | Technical Specifications                                                                                                                                                                                                                                                                                                                                                            | Compliance (Yes/No) |
|--------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|
| 1      | On Premise Controller for Network Management:<br>For better manageability, a on prem managed solution which allows Network administrator to manage the entire network from NOC.                                                                                                                                                                                                     |                     |
| 2      | Basic Configurations Management Support:<br>-AP model, firmware version, MAC address, public IP, date the AP was added, date of the latest revision.<br>-Modification of AP names.<br>-Choose IP Schema from DHCP, STATIC or PPPoE.<br>-Reboot AP.<br>-Remote firmware upgrades.<br>-Easily move the AP from one group to another.<br>-Easily move the AP from one site to another. |                     |
| 3      | Radio Configurations Management Support:<br>-Change radio mode (802.11b, 802.11g, 802.11b/g/n).<br>-Select channel or choose the 'Auto' mode.<br>-Set Tx Power.<br>-Choose the channel width: 20 or 40 or 80 MHz.<br>-Control 2.4 GHz and 5GHz radios independently.                                                                                                                |                     |
| 4      | SSID Configurations:<br>-Enable up to 8 SSIDs per each access point.<br>-Create new SSIDs, open or public (WEP, WPS2-PSK, external splash page with or without Radius AAA).<br>-Make an SSID invisible.<br>-Isolate clients.<br>-Set bandwidth limits.                                                                                                                              |                     |
| 5      | Network Mode:<br>Select Network mode: Each SSID or LAN port connects to the Internet.<br>Bridge mode: SSID and or LAN port can individually be bridged through the WAN port.<br>Router mode: SSIDs and or LAN port can individually be routed through WAN port, activating NAT and DHCP. It is possible to have a single DHCP server per each SSID, if needed.                      |                     |
| 6      | TCP/IP:<br>Manually configure static IP addressing, specifying IP, Subnet Mask, Gateway, Primary DNS server, and Secondary DNS server. Alternatively, enable dynamic IP addressing (DHCP client).                                                                                                                                                                                   |                     |

|    |                                                                                                                                                                                                                                                                                                                                                      |  |
|----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| 7  | Access Point Statistics:<br>Real-time status of the access point and last heartbeat.<br>Status of the AP during the previous seven days, with exact date and time per issue.<br>Real-time Load % on RAM/CPU, drop and error rates.<br>Number of connected clients and aggregated download and upload bitrate.<br>History of configuration revisions. |  |
| 8  | Client Statistics:<br>Access point name to which the client is connected.<br>Client Hostname.<br>Client IP Address.<br>Client IP & Mode.<br>SSID.<br>MAC address.<br>Session duration.<br>Sent and received bytes Signal strength (dBm).                                                                                                             |  |
| 9  | Guest Network Management:<br>Voucher Based Access(Single/Bulk voucher generation)<br>Self Sign-on Based Access<br>SMS/OTP Based Access                                                                                                                                                                                                               |  |
| 10 | Reporting: Store management data, client data, and user activity logs indefinitely so you can create and export reports containing historical data if needed.                                                                                                                                                                                        |  |

\*Bidder needs to supply the on premise wireless controller if the quoted Indoor/ Outdoor Wi-Fi access point does not work with the existing Wireless Controller in no additional cost.

#### 8. Gigabit Fiber SFP Module:

| S. No. | Technical Specifications |              | Compliance (Yes/No) |
|--------|--------------------------|--------------|---------------------|
| 1.     | Fiber Type               | SMF          |                     |
| 2.     | Connector Type           | LC           |                     |
| 3.     | Maximum Distance         | 10 km        |                     |
| 4.     | Wavelength (nm)          | 1310         |                     |
| 5.     | Transmission Rate        | 1Gbps        |                     |
| 6.     | Locking Mechanism        | Self Locking |                     |
| 7.     | Temperature              | 0°C to 70°C  |                     |

#### 9. UTP Data points (Back Box, Face plate, Keystone)

| S. No. | Technical Specifications                                                                                                                                                                                                                                                                                                                   | Compliance (Yes/No) |
|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|
| 1.     | Cat 6 Data Gate Plus jack shall be designed to maintain clean and secure connections. RJ-45 jack shall have “spring-loaded shutter” which protects it from dust and contaminants as well as provides tactile feedback –the spring-loaded shutter shall pop out an improperly seated patch cord–all with single-handed plug-in and removal. |                     |

|    |                                                               |  |
|----|---------------------------------------------------------------|--|
| 2. | Wire terminal : 200 termination cycles                        |  |
| 3. | Modular Jack : 750 mating cycles                              |  |
| 4. | Plastic Housing :Polycarbonate, UL94V-0 rated or equivalent   |  |
| 5. | IDC Contact Plating : Tin/Lead Plate                          |  |
| 6. | Faceplate: Square shuttered plate with 1/2/4 port. 86 x 86 mm |  |
| 7. | ROHS/ELV Compliant                                            |  |

#### 10. 12U Light Interface Unit

| S. No. | Technical Specifications                                                                                                     | Compliance (Yes/No) |
|--------|------------------------------------------------------------------------------------------------------------------------------|---------------------|
| 1.     | Fiber Management Shelf: Configurable Fiber drawer is a 1U rack mount unit for storing and terminating incoming fiber cable   |                     |
| 2.     | Using range of 6 Pak Plates fiber system can be configured to suit all fiber applications.                                   |                     |
| 3.     | Management rings within system to accommodate excess fiber cordage behind the trough adapters and maintain fiber bend radius |                     |
| 4.     | Sliding drawer for ease of reconfiguring fibers                                                                              |                     |
| 5.     | Rugged steel construction finished in attractive                                                                             |                     |
| 6.     | Accommodates 2 x 12 fiber Splice Trays                                                                                       |                     |
| 7.     | Size (mm) : 45mm H x 485mm W x 255mm D                                                                                       |                     |
| 8.     | Optical Fiber Adapter Plates Loded : LC Duplex 6 Fiber SM Adapter Plate                                                      |                     |
| 9.     | LIU Should be provided with Lock & Key                                                                                       |                     |
| 10.    | No of Adapter Plate Req : As per Requirement                                                                                 |                     |
| 11.    | Pigtail : LC, Single mode, 9/125 $\mu$ m qty depend on Connection                                                            |                     |
| 12.    | ROHS Compliant                                                                                                               |                     |

#### 11. 12 core SM FO Armoured Cable

| S. No. | Technical Specifications                                                                                                                                                                                                 | Compliance (Yes/No) |
|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|
| 1.     | OS2 Type, Single Mode, 12-Core, 9/125 $\mu$ m, Armored, Unitube, Gel Filled Cable complying to ISO/IEC 11801:2002 – 2nd Edition, ITU-T REC G 652D, suitable for use in direct burial, outdoor ducts and backbone cabling |                     |
| 2.     | Corrugated Steel Tape Armour of thickness > 0.125mm                                                                                                                                                                      |                     |
| 3.     | Attenuation<br>$\leq 0.34$ dB/km at 1310 nm<br>$\leq 0.22$ dB/km at 1550 nm                                                                                                                                              |                     |
| 4.     | Max. Tensile Strength Short Term: 1000N or Better                                                                                                                                                                        |                     |
| 5.     | Max. Crush Resistance Short Term: 2000N/10CM or Better                                                                                                                                                                   |                     |
| 6.     | Operating Temperature: -10 to +70°C                                                                                                                                                                                      |                     |
| 7.     | Numerical Aperture: 0.14 or Better                                                                                                                                                                                       |                     |
| 8.     | Core/Mode Field ( $\mu$ m): 9.2 or Better                                                                                                                                                                                |                     |
| 9.     | Max. Bending Radius (During Installation): 20 x Overall Diameter or Better                                                                                                                                               |                     |
| 10.    | Two Steel Wires OR FRP Rod OR Aramid Yarns Beneath Corrugated Steel                                                                                                                                                      |                     |

|     |                                                                                                             |  |
|-----|-------------------------------------------------------------------------------------------------------------|--|
|     | Tape may be provided as strength members                                                                    |  |
| 11. | Sheath: UV stabilized HDPE                                                                                  |  |
| 12. | Overall Cable Diameter: 9.5-9.9mm                                                                           |  |
| 13. | Should provide fiber protecting tube preferably of Polybutylene Terephthalate or Better                     |  |
| 14. | Should provide water blocking preferably of thixotropic gel (tube), petroleum jelly (interstices) or better |  |
| 15. | Mode Field Diameter at 1310nm: $9.2 \pm 0.4 \mu\text{m}$                                                    |  |
| 16. | Cladding Diameter: $125 \pm 1.0 \mu\text{m}$                                                                |  |
| 17. | Bandwidth: >1GHz-km at 1310nm                                                                               |  |
| 18. | Attenuation Discontinuity: Both Windows <0.1 dB                                                             |  |
| 19. | ROHS compliant                                                                                              |  |
| 20. | ISO/IEC 11801: 2002 – 2nd Edition, Type: OS2                                                                |  |
| 21. | ITU-T REC G652D specifications for low water peak fiber                                                     |  |

## 12. CAT6 Modular Patch Panel / Jack Panel loaded:

| S. No. | Technical Specifications                                                                                                                                                                                                                                                                                                                                                                                                                 | Compliance (Yes/No) |
|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|
| 1.     | 19" 24-port, loaded with jack, A key product used in both Category 6 link and channel gigabit Ethernet applications. The IDC section consists of V- shaped contacts that flex not fatigue when terminated. Each port features spring-loaded shutter and can be color coded to match jack outlets. Offering front and rear labeling options, the patch panel is constructed of good quality steel for additional strength and durability. |                     |
| 2.     | Ports : 24                                                                                                                                                                                                                                                                                                                                                                                                                               |                     |
| 3.     | Plastic Housing Jack Connector :Polycarbonate, UL94V-0 rated or equivalent                                                                                                                                                                                                                                                                                                                                                               |                     |
| 4.     | Contact Plating: 50μ" Gold/100μ" Nickel                                                                                                                                                                                                                                                                                                                                                                                                  |                     |
| 5.     | Front Connector interface : RJ45                                                                                                                                                                                                                                                                                                                                                                                                         |                     |
| 6.     | Circuit Identification Scheme : Icons on each of 24-ports                                                                                                                                                                                                                                                                                                                                                                                |                     |
| 7.     | Port Identification : 9mm or 12mm Labels on each of 24-ports (to be included in supply)                                                                                                                                                                                                                                                                                                                                                  |                     |
| 8.     | Height 1 U (1.75 inches)                                                                                                                                                                                                                                                                                                                                                                                                                 |                     |
| 9.     | ROHS/ELV Compliant                                                                                                                                                                                                                                                                                                                                                                                                                       |                     |

## 13. CAT6 UTP Patch Chords

| S. No. | Technical Specifications                                                                                           | Compliance (Yes/No) |
|--------|--------------------------------------------------------------------------------------------------------------------|---------------------|
| 1.     | Cat 6 U/UTP Patch Cords shall be designed to support data networks for 10/100BASE-T and 1000BASE-T amplifications. |                     |
| 2.     | Conductor : 24 AWG stranded copper wire                                                                            |                     |
| 3.     | Length : 1 & 2 Meter (as per list of material)                                                                     |                     |
| 4.     | RJ45 plug and boot material : Clear polycarbonate                                                                  |                     |
| 5.     | Outer Sheath : LS0H                                                                                                |                     |

|     |                                                                            |  |
|-----|----------------------------------------------------------------------------|--|
| 6.  | RJ45 plug dimensions compliant with : ISO/IEC 60603-7-4 and FCC 47 Part 68 |  |
| 7.  | Contact material : 0.35mm thick copper alloy                               |  |
| 8.  | MIN operating life :750 insertion cycles                                   |  |
| 9.  | Sheath Material : LSZH                                                     |  |
| 10. | ROHS/ELV Compliant                                                         |  |

#### 14. CAT 6 cable box 305m

| S. No. | Technical Specifications                                                                                                                                                                                                                                                                                         | Compliance (Yes/No) |
|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|
| 1.     | Category 6 Unshielded Twisted Pair 4-pair cable shall be compliant with ANSI/TIA/EIA-568-C.2 Transmission Performance Specifications for 4-Pair Category 6 Cabling                                                                                                                                               |                     |
| 2.     | Category 6 UTP cables shall extend between the work area location and its associated telecommunications closet and consist of 4-pair, 23 AWG, UTP with FR PVC jacket or LSZH.                                                                                                                                    |                     |
| 3.     | Supports ultra-high speed data networks such as Gigabit Ethernet (1000 Base T and 1000 Base-TX)                                                                                                                                                                                                                  |                     |
| 4.     | Cable jacket shall be FR PVC or LSZH                                                                                                                                                                                                                                                                             |                     |
| 5.     | Incorporates Central Spine maintaining pair separation during installation to ensure premium performance after installation                                                                                                                                                                                      |                     |
| 6.     | Construction: 4 Twisted Pairs separated by internal X-shaped, 4-channel, polymer spine / full separator. Half shall not be accepted.<br>Conductor: Solid Copper<br>Conductor Diameter: 0.56±0.005mm (23 AWG)<br>Insulator: Polyolefin<br>Jacket: FR PVC or LSZH Outer Diameter: 6.0±0.4mm Max. Temperature: 75°C |                     |
| 7.     | ROHS/ELV compliant                                                                                                                                                                                                                                                                                               |                     |

#### 15. Fiber pigtails

| S. No. | Technical Specifications                                      | Compliance (Yes/No) |
|--------|---------------------------------------------------------------|---------------------|
| 1.     | Cable - 900Micron Tight Buffered                              |                     |
| 2.     | Length - 1.5Mtrs                                              |                     |
| 3.     | Polishing - 100% Factory Tested and Guaranteed Performance    |                     |
| 4.     | Connector End: 1 X LC Connector S.M Zirconia ceramic ferrule. |                     |
| 5.     | Operating Temperature -10 Degrees to + 60 ° C                 |                     |
| 6.     | Sheath : LSZH                                                 |                     |
| 7.     | Min Bend radius : 30mm                                        |                     |
| 8.     | Retention Strength : 100N                                     |                     |
| 9.     | at 1310 nm $\leq$ 0.36 dB/KM                                  |                     |
| 10.    | at 1550nm $\leq$ 0.22 dB/KM                                   |                     |

|     |                |  |
|-----|----------------|--|
| 11. | ROHS Complaint |  |
|-----|----------------|--|

**16. Fiber Patch cord**

| S. No. | Technical Specifications                                                                | Compliance (Yes/No) |
|--------|-----------------------------------------------------------------------------------------|---------------------|
| 1.     | Make and Type :LC to LC Duplex/Simplex tuned Fiber Optic Patch Cord 3 Mtr, 9/125 Micron |                     |
| 2.     | Cable Sheath : LSZH                                                                     |                     |
| 3.     | Cable Diameter :1.8 mm twin zip                                                         |                     |
| 4.     | Ferrule : Ceramic                                                                       |                     |
| 5.     | Buffer :Tight buffered                                                                  |                     |
| 6.     | Insertion Loss : MAX .3 db                                                              |                     |
| 7.     | Return Loss > 45 db                                                                     |                     |
| 8.     | Temperature Range : -10 Degree C to +60 Degree C                                        |                     |
| 9.     | ROHS Compliant                                                                          |                     |

**Seal & Signature of Bidder**

## Annexure-5

**Price Schedule form:** Price Schedule for Goods/Services Being Offered from India/Abroad in INR

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

**Project Name:**

**Tender No.:**

| S. No.   | Description of Goods and/or Services (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 |
|----------|---------------------------------------------------------------------------------------------------|-----------|--------------|-----------------------|--------------|-------------------------------|--------------------------------|------------------------|
| <b>A</b> | <b>Enclosure &amp; Power Backup Management</b>                                                    |           |              |                       |              |                               |                                |                        |
| 1        | 19" network rack cabinet                                                                          | Nos       | 1            |                       |              |                               |                                |                        |
| 2        | 1 kVA online UPS with inbuilt battery backup                                                      | Nos       | 1            |                       |              |                               |                                |                        |
| 3        | Voltage Stabilizer for 1kVA online UPS                                                            | Nos       | 1            |                       |              |                               |                                |                        |
| <b>B</b> | <b>Active Components</b>                                                                          |           |              |                       |              |                               |                                |                        |
| 1        | Layer 2 Managed Gigabit 24 Port Network Access Switch as per mentioned technical specifications   | Nos       | 7            |                       |              |                               |                                |                        |
| 2        | Layer 2 Managed Gigabit 8 Port PoE Access Switch as per mentioned technical specifications        | Nos       | 1            |                       |              |                               |                                |                        |
| 3        | Wi Fi Access Points with additional controller licenses as per mentioned technical specifications | Nos       | 6            |                       |              |                               |                                |                        |
| 4        | 1G Uplink SFP Modules as per mentioned technical specification                                    | Nos       | 2            |                       |              |                               |                                |                        |
| <b>C</b> | <b>Passive Components</b>                                                                         |           |              |                       |              |                               |                                |                        |
| 1        | UTP Datapoints with Keystone, Faceplate & Backbox                                                 | Nos       | 6            |                       |              |                               |                                |                        |
| 2        | FO Termination - LIU (loaded)                                                                     | Nos       | 1            |                       |              |                               |                                |                        |
| 3        | 12Core SM FO Armoured Cable                                                                       | Mtrs      | 100          |                       |              |                               |                                |                        |
| 4        | UTP Patch Panel                                                                                   | Nos       | 1            |                       |              |                               |                                |                        |
| 5        | UTP Patch Cord (1m)                                                                               | Nos       | 12           |                       |              |                               |                                |                        |
| 6        | UTP Cat 6 Cable Reels (305Mtrs)                                                                   | Reels     | 2            |                       |              |                               |                                |                        |
| 7        | Casing capping medium size (2m)                                                                   | Nos.      | 50           |                       |              |                               |                                |                        |
| 8        | 40mm HDPE (ISI marked)                                                                            | Mtrs      | 100          |                       |              |                               |                                |                        |
| 9        | Fiber Pigtails (1.5m)                                                                             | Nos       | 12           |                       |              |                               |                                |                        |
| 10       | Fiber Patch Cord                                                                                  | Nos       | 2            |                       |              |                               |                                |                        |
| <b>D</b> | <b>Services Components</b>                                                                        |           |              |                       |              |                               |                                |                        |
| 1        | Active Network Device                                                                             | Nos       | 14           |                       |              |                               |                                |                        |

|                                                                                                                              |                                                                            |      |     |  |  |  |  |  |
|------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------|------|-----|--|--|--|--|--|
|                                                                                                                              | Installation, Configuration, Testing and Commissioning                     |      |     |  |  |  |  |  |
| 2                                                                                                                            | Network rack cabinet installation                                          | Nos  | 1   |  |  |  |  |  |
| 3                                                                                                                            | Online UPS & Voltage Stabilizer installation                               | Lot  | 1   |  |  |  |  |  |
| 4                                                                                                                            | Fixing of UTP Data points                                                  | Nos  | 6   |  |  |  |  |  |
| 5                                                                                                                            | UTP Cabling through conduits (casing-capping)                              | Mtrs | 350 |  |  |  |  |  |
| 6                                                                                                                            | Trenching , HDPE laying & FO cabling with backfilling                      | Mtrs | 100 |  |  |  |  |  |
| 7                                                                                                                            | UTP Patch Panel Fixing and Cable Termination                               | Nos  | 1   |  |  |  |  |  |
| 8                                                                                                                            | Fiber Splicing                                                             | Nos  | 12  |  |  |  |  |  |
| 9                                                                                                                            | LIU Fixing and Fiber Management                                            | Nos  | 1   |  |  |  |  |  |
| 10                                                                                                                           | Feruling, Labeling, Documentation and Training                             | Nos  | 1   |  |  |  |  |  |
| 11                                                                                                                           | Any other items/ services required to complete the project (a)____ (b)____ | Lot  | 1   |  |  |  |  |  |
| <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 |                                                                            |      |     |  |  |  |  |  |

The grand total will be calculated by the sum of all the items mentioned in the price list.

\*L-1, i.e., successful bidder will be decided on the basis of Grand Total Price from those bidders whose bids are successful at the techno-commercial evaluation stage.

**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-6

### DEVIATION STATEMENT FORM

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

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

**Seal & Signature of Bidder**

**Annexure-7 (Please put this annexure at the top of the tender document)**

### Bidder's information & Check list

- |           |                                                                                         |                   |                  |                |
|-----------|-----------------------------------------------------------------------------------------|-------------------|------------------|----------------|
| <b>1.</b> | <b>Name of the Firm:</b>                                                                |                   |                  |                |
| <b>2.</b> | <b>Type of the firm:</b> <i>(Proprietorship, Pvt Ltd, Public Ltd, Partnership etc.)</i> |                   |                  |                |
| <b>3.</b> | <b>Address of the firm:</b>                                                             |                   |                  |                |
| <b>4.</b> | <b>Contact detail:</b>                                                                  | <b>Phone No.:</b> | <b>Mob No. :</b> |                |
|           |                                                                                         | <b>Fax No.</b>    | <b>E mail:</b>   |                |
| <b>5.</b> | <b>Name of the authorised signatory:</b>                                                |                   |                  |                |
| <b>6.</b> | <b>EMD detail : Instrument No.</b>                                                      | <b>Date :</b>     | <b>Amount:</b>   | <b>Issuing</b> |
|           | <b>Bank name &amp; branch detail:</b>                                                   |                   |                  |                |
| <b>7.</b> | <b>Bank details of the firm:</b>                                                        |                   |                  |                |
|           | <b>Account No.:</b>                                                                     | <b>IFSC Code:</b> |                  |                |
|           | <b>Name of the Bank:</b>                                                                | <b>Branch:</b>    |                  |                |

**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 organization (if required).**
- 4. Purchase orders issued by any central govt organization (if required).**
- 5. Bank details of the firm in letter head of the organization.**
- 6. Documents related Bidders Eligibility Criteria Annexure 1**

### Seal & Signature of Bidder