



# NATIONAL INSTITUTE OF TECHNOLOGY ROURKELA – 769 008, ODISHA

## ADVERTISED TENDER

Department: Computer Centre

Tender Notice No: NITR/PW/CC/2022/12

Dated: 28/06/2022

To

### Important Dates

**Bidding through**  
e-Procurement Portal of Ministry of  
Education, Govt. of India (e-Wizard)  
<https://mhrd.euniwizarde.com>

Event	Date	Time
Pre-bid Conference	<b>08/07/2022</b>	<b>03:00 PM</b>
Last Date of submission of bid	<b>19/07/2022</b>	<b>11:00 AM</b>
Date of Opening of techno-commercial bid	<b>20/07/2022</b>	<b>11:00 AM</b>

Dear Sir,

We intend to purchase the commodities specified below and invite quotations in accordance with the terms and conditions detailed in the bid document. If you are interested, kindly send your offer with prices and complete terms within the time mentioned above.

For any queries kindly contact to:

**Attention:**  
**Prof. Manish Okade,**  
**Department of Computer Centre**  
**NATIONAL INSTITUTE OF TECHNOLOGY**  
**ROURKELA – 769 008, ODISHA, India**  
**Phone: (0661) – 246-2671**  
**E-mail: [hod-cc@nitrkl.ac.in](mailto:hod-cc@nitrkl.ac.in)**

Yours sincerely,

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Prof. Manish Okade,  
Dept. Of Computer Centre

**Encl:**

- (1) Schedule of requirement, specifications, dates etc.**
- (2) Bid document containing detail terms and conditions.**

**1. Schedule of requirements**

SL.NO	Description of Goods/Service	Quantity
1.	<b>Procurement, Installation, Commissioning of Unified Threat Management Appliances at NIT Rourkela with three years warranty and subscription (As per Annexure – I)</b>	<b>1 Unit</b>

**2. Specifications and allied Technical Details**

**As per Annexure – I**

**3. Format of Quotation**

It is a two-part bid with separate techno-commercial and price bids.

4. The bid should be submitted through <https://mhrd.euniwizarde.com/>

5. Quotation should be valid for a period of **90 days** from the date of opening of techno-commercial bid.

**6. Some important dates:-**

i.	<b>Pre-bid Conference</b>	<b>Date: 08/07/2022</b>	<b>Time: 03:00 PM</b>
ii.	<b>Last date for submission of bid</b>	<b>Date: 19/07/2022</b>	<b>Time: 11:00 AM</b>
iii.	<b>Opening of techno-commercial bid</b>	<b>Date: 20/07/2022</b>	<b>Time: 11:00 AM</b>

**7. Warranty: Three Years** standard warranty.

**8. Eligibility Criteria of the Bidder:**

- i The bidder must have valid authorization from the OEM specific to this tender. Documentary proof regarding this must be attached.
- ii The bidder should be a Private/Public Limited company registered under the Companies Act, 1956 or a registered firm. The company/firm should be in existence for more than 5 years as on date. Copy of Certificate of incorporation/commencement should be submitted.
- iii The bidder must have GST registration and would be charged at applicable rate. GST details should be submitted.
- iv The average annual financial turnover of the tenderer for last three consecutive financial years ending on 31<sup>st</sup> March, 2021 should be minimum Rs. 20 crore (Rupees Twenty Crore). Copy of Audited Balance Sheet and P/L Account for Financial Years 2018-19, 2019-20, 2020-21 to be submitted.
- v The bidder/OEM must have supplied similar Solution in any Govt./PSU/Educational Institute/Corporate in India in the last 3 years ending on 31<sup>st</sup> March 2021 and must submit scanned copies of the Purchase Order.
- vi Considering primary support from the bidder, the bidder should have office cum service support setup of 24x7 customer support service for smooth support in Eastern India. Supporting documents like office address and phone number along with escalation matrix must be submitted.
- vii Bidder must submit a declaration on their letter head that they are not black listed in any Govt. body, undertaking, and PSU or Autonomous bodies. If found the declaration is false their offer will be out rightly rejected and subjected to their EMD amount will be forfeited.

- viii The Vendor shall provide the following information with the bid to provide background information on vendor to Tender Committee:
- a **The list of clients** (contact details of a person phone/mob. no. with e-mail ids should be attached) where the bidder/OEM had supplied the similar type of materials (as mentioned in schedule of requirements) with successful installation in last five years.
  - b **Delivery Period:** within 90 days from the date of placement of the Purchase Order.
  - c **Customer Support:** 24x7 hours.
  - d Possible quicker availability of the vendor when problem occurs.
  - e **Mode of handling complains** (whether by fault ticket/ complain even by email or by phone etc.)
  - f **Validity period:** 90 days from the date of opening of techno-commercial bid.
  - g Any other points may deemed fit by the committee at time of technical evaluation of bid documents.
  - h Details of hardware/software along with Part Numbers must be included in the offer.
  - i Details of Technical Specification and other specifications so as to enable technical assessment of the proposal.
  - j The bidder should have valid ISO certificate. Valid certificate must be attached.
  - k The security device must be of enterprise class and a declaration from the OEM should be submitted.
  - l The quoted products should not be under end of sales or end of support in next five years from the date of submission.
  - m Emergency response team should be available on 24 x 7 basis from OEM directly in case of malfunctioning of the device and changes in its functionalities. Documentary proof from OEM must be submitted.
  - n The installation would be deemed as complete, when all the components (hardware, software and accessories etc.) are supplied, installed and implemented as per the technical specification and integrated with the existing campus network and all the features as mentioned in the technical specifications in the tender are demonstrated and/or implemented to the satisfaction of NIT Rourkela.
  - o **Warranty & Maintenance:** The vendor should give warranty for three years from the final installation date of the security device. During the warranty period, the vendor will undertake the comprehensive maintenance of the security device (hardware, software and accessories supplied by them).
  - p A write up on deployment planning, manpower support for this tender, service and maintenance capability, mitigation of risks or breakdown and replacement capability, with the escalation support matrix proposed for the Institute. Vendors must indicate their sales and support service center in India and their plan to address issues about service.
9. **Bid Security (EMD) and Tender Cost: EMD (Earnest Money Deposit)** need to be submitted through online portal only for **INR 3,00,000/- (Rupees Three Lakh Only)** and Tender cost (Non-refundable) through online mode for **INR 1000/- (Rupees One Thousand Only)**. The EMD (Earnest Money Deposit) of unsuccessful bidders will be returned to them at the earliest and latest on or before the 30<sup>th</sup> days after the award of the contract. EMD shall bear no interest. Any bid without accompanying with EMD & Tender Cost is liable to be treated as non-responsive and rejected.

**10. Performance Security: 3% of contract value** should be deposited to the Institute within 15 days from the date of issue of Purchase Order, in shape of Demand Draft (DD)/Bank Guarantee in favor of "Director, NIT Rourkela" payable at Rourkela from any Scheduled Commercial Bank except Co-operative and Gramin bank. And Performance Security should remain valid for a period of 60 days beyond the date of completion of all contractual obligations of the supplier including warranty obligation. EMD (Earnest Money deposit) amount of successful bidder will be returned after the receipt of performance security in case of award of contract to successful bidder.

**11. Technical Evaluation Criteria:**

- i The tender shall be evaluated as per the tender clause no.8 and as per **Annexure – I**. Bids are invited from OEM or authorized vendor. Authorized vendor will submit the bid specific OEM MAF along with bid document. Authorized Vendor or Original Equipment Manufacturer (OEM) should have own service center in India. The authorized vendor OEM must enclose details of their infrastructure with reference to locations and technical manpower, availability of inventory spares etc. A valid GST registration certificate of Authorized Vendor or OEM should be submitted along with bid.
- ii Scanned copies of the technical brochure of the above equipment and accessories (**Annexure \_I**) given in the quotation must be included in the technical bid.
- iii Point wise compliance along with any deviation of the mentioned specification (**Annexure - I**) must be indicated along with technical documents.

**12. Financial Bid Evaluation Criteria:**

Final Price Comparison for the award of contract to decide lowest price (L1) will be made based on the overall prices quoted for the item in Price Bid (BOQ).

**13.** Please send your quotations through e-Procurement Portal of M/S ITI Limited <https://mhrd.euniwizarde.com>

**14.** For technical details, you may contact

<p><b>Prof. Manish Okade</b> <b>Department of Computer Centre</b> <b>National Institute of Technology, Rourkela – 769 008.</b> <b>Phone: (0661) – 246-2671</b> <b>E-mail: <a href="mailto:hod-cc@nitrkl.ac.in">hod-cc@nitrkl.ac.in</a></b></p>
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**NB:** *Please furnish your Dealership Certificate (must) and Proprietary Nature Certificate (If applicable)*



# NATIONAL INSTITUTE OF TECHNOLOGY ROURKELA – 769 008, ODISHA

## BID DOCUMENT

### 1. Instructions to the bidders

- 1.1 Bids are invited on behalf of the Director, National Institute of Technology (NIT), Rourkela – 769008, Odisha, from the intending bidders for supply of the goods/stores/ equipment's for the Institute as detailed in the enquiry letter.
- 1.2 The bidders should quote their offer/rates in **BOQ** in clear terms without ambiguity.
- 1.3 In case of any discrepancy between the rates in figures and that in words, the rate in words will be accepted as correct.
- 1.4 The last date for receipt of the bid is marked in the enquiry.
- 1.5 The Bid should be uploaded in MOE Portal <https://mhrd.euniwizarde.com> Please follow the guideline of the site.
- 1.6 If a prospective bidder requires any clarification in regard to the bidding documents, he may make a request the concerned officer or faculty member at least 15 days before the deadline for receipt of bids.
- 1.7 Bids received after the deadline of receipt indicated in Para 1.4 above shall not be taken into consideration.
- 1.8 Each bidder shall submit only one bid. A bidder, who submits more than one bid, shall be disqualified and considered nonresponsive.
- 1.9 (In respect of high value plant, machinery etc. of a complex and technical nature). The bids may be submitted in two parts, viz., techno-commercial bid and financial bid.
- 1.10 The bidder has to sign in full at all pages of the scanned part of the bidding document. No over-writing in those pages is acceptable.
- 1.11 If any bidder does not fulfill the technical specification, he/she eligibility will be cancelled even if his/her price got L1 status.
- 1.12 Bidders registered with any of the following agencies/ bodies as per Public procurement policy for Micro & Small Enterprises (MSE) order 2012 are exempted categories from payment of EMD provided that the registration Certificate issued by any one of these below mentioned agencies must be valid as on close date of tender. Micro small or medium enterprises who have applied for registration or renewal of registration with any of these agencies/bodies but have not obtained the valid Certificate as on close date of tender are not eligible for exemption.
  - i) Khadi and Village Industries Commission (KVIC)
  - ii) National Small Industries Corporation (NSIC)
  - iii) Any other body specified by Ministry of MSME/GOI

### 2. INSTRUCTIONS FOR ONLINE BID SUBMISSION

The bidders are required to submit soft copies of their bid electronically on the ITI e-Wizard Portal using valid Digital Signature Certificates. Below mentioned instructions are meant to guide the bidders for registration on the e-Wizard Portal, prepare their bids in accordance with the requirements and submit their bids online on the e-Wizard Portal. For more information, bidders may visit the ITI e-Wizard Portal <https://mhrd.euniwizarde.com>

## 2.1 REGISTRATION PROCESS ON ONLINE PORTAL

- a. Bidders to enroll on the e-Procurement module of the portal <https://mhrd.euniwizarde.com> by clicking on the link "Bidder Enrollment". Enrolment on the e-wizard Portal.
- b. The bidders to choose a unique username and assign a password for their accounts. Bidders are advised to register their valid email address and mobile numbers as part of the registration process. These would be used for any communication from the e-Wizard Portal. Bidders to register upon enrolment their valid Digital Signature Certificate (Only Class III Certificates with signing + encryption key usage) issued by any Certifying Authority recognized by CCA India (e.g. Sify / TCS / nCode / eMudhra etc.), with their profile.
- c. Bidder must provide the details of PAN number; registration details etc. as applicable and submit the related documents. The user id will be activated only after submission of complete details. The activation process will take minimum 24 working hours. After completion of registration payment, you can also send your acknowledgement copy on our help desk mail id [ewizardhelpdesk@gamil.com](mailto:ewizardhelpdesk@gamil.com) for activation of your account.
- d. A bidder should register only one valid DSC. Please note that the bidders are responsible to ensure that they do not lend their DSCs to others, which may lead to misuse. Foreign bidders are advised to refer "DSC details for Foreign Bidders" fir Digital Signature requirements on the portal.
- e. Bidder then logs in to the site through the secured log-in by entering their user ID / password and the password of the DSC / eToken.

## 2.2 TENDER DOCUMENTS SEARCH

- a. Various built in options are available in the e-Wizard Portal to facilitate bidders to search active tenders by several parameters. These parameters include Tender ID, organization, location, date, value, etc.
- b. There is also an option of advanced search for tenders, wherein the bidders may combine a number of search parameters such as organization name, a form of contract, location, date, other keywords etc. to search for a tender published on the Online Portal.
- c. Once the bidders have selected the tenders they are interested in, they may download the required documents / tender schedules. These tenders can be moved to the respective '**Interested Tenders**' folder. This would enable the Online Portal to intimate the bidders through SMS / e-mail in case there is any corrigendum issued to the tender document.
- d. The bidder should make a note of the unique Tender ID assigned to each tender, in case they want to obtain any clarification / help from the Helpdesk.

## 2.3 BID PREPARATION

- a. Bidder should take into account any corrigendum published on the tender document before submitting their bids.
- b. Please go through the tender advertisement and the tender document carefully to understand the documents required to be submitted as part of the bid.
- c. Please note the number of covers in which the bid documents have to be submitted, the number of documents - including the names and content of each of the document that need to be submitted. Any deviations from these may lead to rejection of the bid.
- d. Bidder, in advance, should get ready the bid documents to be submitted as indicated in the tender document / schedule and generally, they can be in PDF / XLS / PNG etc. formats. Documents in PDF format with maximum single file size of 100 Mb can be uploaded.

## **2.4 BID SUBMISSION**

- a. Bidder to log into the site well in advance for bid submission so that he/she uploads the bid in time i.e. on or before the bid submission time. Bidder will be responsible for any delay due to other issues.
- b. The bidder to digitally sign and upload the required bid documents one by one as indicated in the tender document.
- c. Bidders must pay required payments (Form fee, EMD, Tender Processing Fee etc.) as mentioned before submitting the bid.
- d. The Tender Processing Fee(TPF) to be paid by bidder will be governed as per rules of e-wizard portal. Any queries regarding the same will be dealt by e-wizard helpdesk.
- e. Bidder to select the payment option mode as specified in the Schedule (EMD/FORM FEE Section) to pay the form fee/EMD wherever applicable and enter details of the instrument.
- f. The details of the Earnest Money Deposit (EMD)/Cost of tender document submitted physically to the Dept. and the scanned copies furnished at the time of bid submission online should be the same otherwise the Tender will be summarily rejected.
- g. A standard BOQ format has been provided with the tender document to be filled by all the bidders. Bidders to note that they should necessarily submit their financial bids in the prescribed format and no other format is acceptable.
- h. The server time (which is displayed on the bidders' dashboard) will be considered as the standard time for referencing the deadlines for submission of the bids by the bidders, opening of bids etc. The bidders should follow this time during bid submission.
- i. All the documents being submitted by the bidders would be encrypted using PKI encryption techniques to ensure the secrecy of the data, which cannot be viewed by unauthorized persons until the time of bid opening.
- j. The uploaded tender documents become readable only after the tender opening by the authorized bid openers.
- k. Upon the successful and timely submission of bids, the portal will give a successful bid submission message & a bid summary will be displayed with the bid no. and the date & time of submission of the bid with all other relevant details.
- l. Kindly have all relevant documents in a single PDF file.
- m. The off-line tender shall not be accepted and no request in this regard will be entertained whatsoever.
- n. Bid documents may be scanned with 100 dpi with black and white option which helps in reducing size of the document. For the file size of less than 1 MB, the transaction uploading time will be very fast.

## **2.5 AMENDMENT OF BID DOCUMENT**

At any time prior to the deadline for submission of proposals, the NIT Rourkela reserve the right to add/modify/delete any portion of this document by issuance of a Corrigendum, which would be published on the website and will also be made available to the all the bidder who have been issued the tender document. The Corrigendum shall be binding on all bidders and will form part of the bid documents.

## 2.6 INSTRUCTION TO BIDDERS

- a. Process for Bid submission through ITI E-wizard portal is explained in Bidder Manual. Bidders are requested to download Bidder Manual from the home page of website <https://mhrd.wuniwizarde.com>. Steps are as follows:

(Home Page       Downloads       Bidders Manual)

- b. The tenders will be received online through portal <https://mhrd.euniwizarde.com> in the technical bids, the bidders are required to upload all the documents in pdf format.
- c. Possession of Valid Class III Digital Signature Certificate (DSC) in the form of smart card/ e-Token in the company's name is a prerequisite for registration and participating in the bid submission activities through <https://mhrd.euniwizarde.com> Digital Signature Certificates can be obtained from the authorized certifying agencies, details of which are available on the web site <https://mhrd.euniwizarde.com> under the link 'DSC help'
- d. Tenderers are advised to follow the instruction provided in the 'User Guide and FAQ' for the e-submission of the bids online through the ITI e-Wizard Portal for e-Procurement at <https://mhrd.euniwizarde.com>.
- e. The bidders has to **"Request the tender"** to portal before the **"Date for Request tender document"**, to participate in bid submission.
- f. Any queries relating to the tender document and the terms and conditions contained therein should be addressed to the Tender Inviting Authority for a tender or the relevant contact person indicated in the tender.
- g. All entries in the tender should be entered in online Technical & Commercial Formats without any ambiguity.
- h. Any order resulting from this e-tender shall be governed by the terms and conditions mentioned therein.
- i. No deviation to the technical and commercial terms & conditions allowed.
- j. The tender inviting has the right to cancel this e-tender or extend the due date of receipt of the bids.
- k. e-Procurement support any queries relating to the process of online bid submission or queries relating to e-Wizard Portal in general may be directed to the **24x7 e-Wizard Helpdesk. The contact number for the helpdesk is 011-49606060, 23710092, 23710091, Shri Chandan Kumar (+91-9355030604)**

### Email Support:

For any eProcurement Application Service Requests and Technical issues related to Document Uploads, Tender Publishing, Issue of Corrigendum, Encryption/Decryption Key issues, Bid Evaluation, Bidder Login issues, New Registration issues, Key Uploads, DSC Key installation, Bid Submission, system users may please mail to [support@euniwizarde.com](mailto:support@euniwizarde.com) / [helpdeskeuniwizarde@gmail.com](mailto:helpdeskeuniwizarde@gmail.com)

## 3. Conditions of the bid:

- 3.1 The rates quoted should preferably be net, inclusive of all taxes and duties, packing, forwarding, freight, Insurance and all other incidental charges. In case these charges are quoted extra in addition to the quoted rates, the amount thereof or Ad Valorem rate must be specified. Packing, forwarding, freight etc., when quotes separately are reimbursable at actuals. If external agencies are employed, their receipts must be enclosed with the invoice.



- 3.2 Duties and Taxes are to be quoted separately. Ad Valorem rates thereof should be clearly indicated with reference to the relevant Acts and Rules.

**It may be noted that the Institute is availing custom duty exemption in terms of Notification No. 51/96 – Customs dt. 23.07.1996, Notification No. - 28/2003- Customs dt. 01.03.2003, Notification No. 43/2017 Customs dt. 30.06.2017 & Notification No. 47/2017- Integrated Tax (Rate) dt. 14.11.2017, Notification No- 10/2018 – Integrated tax (Rate) dt. 25/01/2018 & Notification No. - 45/2017- Central tax (Rate) dt. 14.11.2017, Notification No. - 45/2017- Union Territory Tax (Rate) dt. 14/11/2017 & Notification No. 9/2018- Central Tax(Rate) dt 25.01.2018, Notification No. 9/2018 - Union Territory Tax (Rate) dt 25.01.2018, as amended from time to time for research purposes only [Vide DSIR, Ministry of Science and Technology, Government of India, Registration No.: TU/V/RG- CDE (227)/2021, dated: 08.10.2021]**

- 3.3 The goods are required to be delivered at the indenting Department of NIT, Rourkela, and must be reached within **90 days** from the date of placement of the supply of order under the risk and arrangement of the bidder and offers with delivery beyond the above period shall be treated as unresponsive. In case the delivery time is higher, the same must be mentioned clearly in the quotation.
- 3.4 The bid should remain valid for a period of **90 days** from the date of opening of techno-commercial bid. In case your offer has a different validity period that should be clearly mentioned in the quotation.
- 3.5 Conditional discount, if any, offered by the bidder shall not be considered at the time of evaluation.
- 3.6 The goods offered should strictly conform to the specification and technical details mentioned in Annexure-I.
- 3.7 The Institute may like to conduct pre-dispatch inspection of goods, where applicable.
- 3.8 Period of guarantee/warranty, where applicable, should be specified in the bid.
- 3.9 If the successful bidder, on receipt of the supply order, fails to execute the order within the stipulated period, in full or part, it will be open to the Director, NIT Rourkela to recover liquidated damage from the firm at the rate of 1 percent of the value of undelivered goods per month or part thereof, subject to a maximum of 5 percent of the value of undelivered goods. Alternatively, it will also be opened to the Director, to arrange procurement of the required goods from any other source at the risk and expenses of the bidder.
- 3.10 The successful bidder may be required to execute a contract, where applicable.
- 3.11 The bidder has to furnish up to date GST and Income Tax Clearance Certificate along with the bid.
- 3.12 Purchase order /Work order shall be placed on the bidding firms(s). In case of deviation to this, if any, the bidding firm should produce any such sufficient documents/credentials i.e, Agreements. MOUs, Arrangements etc. With the third party/OEM to satisfy the buyer. A consent letter form the third party/OEM to that effect must be enclosed along with the bidding documents.
- 3.13 Payment (100 percent) will be made by Account Payee Cheque/Bank Draft, within 30 days from the date of receipt of the goods in good condition or receipt of the bill, commissioning of equipment, where applicable, whichever is later/latest.
- 3.14 State Bank of India is the sole Banking partner for NIT Rourkela for operation of LC (Letter of Credit).
- 3.15 In the event of any dispute arising out of the bid or from the resultant contract, the decision of the Director, NIT, Rourkela shall be final.
- 3.16 The bid document/resultant contract will be interpreted under Indian Laws.

#### **4. Scope of Work:**

- i. The scope of the work includes supply, successful installation/integration/migration and commissioning of the one Security device by replacing the existing Check Point 13500 firewall and maintenance of the entire solution for a period of three years in terms of onsite comprehensive warranty and necessary subscription charges.

- ii. The participating bidders are requested to visit the site during pre-bid for a clear understanding of the existing setup as selected bidder must be able to migrate the path from existing Check Point 13500 to the new security device within six hours on an Institute holiday.
- iii. Prior to the delivery a pre installation document has to be prepared by the selected bidder in coordination with the trained Institute nominated Network/System Engineers such that entire project can be completed within two weeks of the delivery.
- iv. Time taken from the date of purchase order to the date of commissioning and smooth migration from existing setup to new setup is the essence of the project. Entire project has to be completed without disturbing the regular operation of Institute network.
- v. The warranty period will start after the acceptance of the installation and certification by Head, Computer Centre, NIT Rourkela (i.e. from the date of commissioning).
- vi. The acceptance of the installation and certification by the Head, Computer Centre, NIT Rourkela are subject to meeting all functionalities specified in Annexure-I.
- vii. Replacement of defective equipment and shipment of the same should be the responsibility of the selected vendor without any financial commitment from NIT Rourkela. The same has to be completed within five working days.
- viii. In case of any future expansion / up-gradation necessary changes in the configuration has to be done by the selected vendor for smooth integration / migration.
- ix. All necessary documentation related to time-to-time configuration has to be done by the selected vendor.
- x. The vendor will be liable for any hardware and software up-gradation for maintenance without any extra cost during warranty period.
- xi. The vendor should supply all required hardware and software to meet the requirement of this project. Part bid will not be entertained.
- xii. The vendor has to resolve any hardware/software problem during installation and integration of the security device with the existing Campus Network.
- xiii. Certification should be that the UTM device must be in the Leader quadrant of Gartner Network Firewall report of 2019 or beyond.
- xiv. The proposed device should not reach end of support for the next 5 years.
- xv. Proof of Concept (POC) must be a criteria in the technical bid. The OEM's or their authorized bidders must be willing to carry out POC at NIT Rourkela Data Centre for a period of three weeks with their UTM device which they are bidding for selection.
- xvi. OEM's or their authorized bidders must be willing to keep their UTM device which has undergone POC operational at NIT Rourkela Data Centre until Purchase Order (PO) is issued.
- xvii. The bidder has to arrange hands-on training for Institute nominated Network/System Engineers for a period of five days at free of cost. Selected Vendor can also arrange demo boxes at NIT Rourkela and conduct the onsite training to the Institute nominated Network/System Engineers for five days (exclusive of time taken to setup the Proof of Concept).
- xviii. The bidder should have valid ISO Certification. The security device must be of enterprise class and declaration from OEM should be submitted. The quoted products should not be under end of sales or end of support in next five years from the date of submission.
- xix. The Institute reserves the right to cancel/reject any or all offers and may cancel the tender at any stage without assigning any reason thereof.

## TECHNICAL SPECIFICATION

Sl. No.	General Requirements	Compliance (Yes / No)
1	The proposed solution must be a hardware appliance. The appliance should be rack mountable. Mounting kit should be provided by the bidder.	
2	The bidder must specify Make, Model, Quantity, OS version and Supporting software packages the proposed solution.	
3	The proposed solution must be in Gartner's Leader Quadrant for last three years including current year (2021-22) for Enterprise Firewall. It must be recognized by global analysts for highest network security effectiveness. Bidder must attach Gartner Certificate.	
4	The proposed solution should be ICSA/NSS Lab certified or equivalent with minimum 90% security effectiveness as per last report. Certificates should be attached.	
5	The proposed solution should be a <b>Next Generation Firewall (NGFW)</b> to facilitate multi-application environment. It should be able to provide gateway level protection as well as server farm protection.	
6	The proposed solution should support current network traffic as well as future growth. It should be capable of managing minimum 15,000 users and 40,000 devices (Desktop/Laptop/TAB/Mobile/iPAD).	
7	The proposed solution must have Firewall, Application visibility and control, IPS, URL filtering, Anti-virus, Anti-malware, Antispam and Email security, Anti-bot, DDoS protection, real-time Zero-day threat prevention feature and IPSEC VPN and SSL VPN from day one.	
8	The proposed solution must be capable of managing multiple ISP links. Presently the Institute is having 7 (seven) ISP links. It may increase in future.	
9	The proposed solution must be capable of managing Internet bandwidth more than 15 Gbps. Current bandwidth is 5 Gbps. It may increase in future.	
10	The proposed solution must be a latest one with minimum 10 years life time. It must have support (hardware and software) for next 10 years.	
11	The proposed OEM must have support centres and Spare depot in India.	
	<b>Hardware and Interface Requirements</b>	
12	The proposed appliance must be supplied with minimum 12 X 1G RJ45 ports, minimum 8 X 10G SFP+ ports (populated with Short Range optical transceivers from same OEM) and minimum 4 X 40G QSFP ports (populated with Short Range optical transceivers from same OEM).	
13	The proposed appliance must be supplied with minimum 1 TB HDD or 450 GB SSD based internal storage. Must support RAID1 from day one.	
14	The proposed appliance must be supplied with minimum 128 GB RAM from day one.	
15	The current requirement is for single hardware box. However the Proposed appliance must support HA mode (Active-Active and Active-Passive HA mode) from Day one, for further addition in future	
16	The proposed appliance must have dual/redundant power supply units and fan modules from day one.	

	<b>Performance Requirements</b>	
17	The proposed solution should provide minimum 50 Gbps or more NGFW throughput after enabling Firewall features, Application control, IPS and logging. Performance test report must be attached.	
18	The proposed solution should provide minimum 20 Gbps or more Threat Prevention throughput after enabling Firewall features, IPS, Anti-virus, Anti-bot, URL filtering and Malware Inspection. It should have future scalability and capability to deliver minimum of 50 Gbps Threat Prevention throughput.	
19	The proposed solution should provide minimum 50 Gbps or more IPS throughput with bidirectional scanning enabled for network traffic.	
20	The proposed solution should provide minimum 10 Gbps or more IPSEC VPN throughput.	
	<b>Note: Throughput will be considered according to the performance of the proposed solution after completion of POC. Performance of the proposed solution will be tested after enabling all functionalities (Firewall, Application Visibility and Control, URL Filtering, IPS, Threat Prevention i.e. Antivirus &amp; Anti-Malware, Anti-Bot, Antispam &amp; Email Security, VPN) of the appliance.</b>	
20	The proposed solution should support minimum 35 million concurrent sessions.	
21	The proposed solution should support minimum 500,000 new connections per second.	
	<b>NGFW Requirements</b>	
22	The proposed NGFW should support unlimited or more than 10000 firewall policies.	
23	The proposed solution should support creating access rules with IPv4 & IPv6 objects simultaneously from day one.	
24	The proposed solution should support routing protocols like Static, RIP (v1/v2), OSPF (v2/v3), BGP (v4), etc.	
25	The proposed solution should support manual NAT.	
26	The proposed solution should support DHCPv6.	
27	The proposed solution should support Multicast protocols like IGMP, PIM, etc.	
28	The proposed solution should supports SNMP Versions 1, 2c and 3.	
29	The proposed solution should support security policies based on group names in source or destination fields or both.	
30	The proposed solution should support capability to limit bandwidth on basis of apps/groups, Networks, Ports, etc.	
31	The proposed solution should support Stateful firewall inspection.	
32	The proposed solution should support FQDN policy based routing.	
33	The proposed solution should support policy based routing.	
34	The proposed solution should be capable of automatically providing the appropriate inspections and protections for traffic sent over non-standard communications ports.	
35	The proposed solution should be able to link Active Directory and LDAP user names to IP addresses related to suspected security events.	
36	The proposed solution should have the capability of detecting and	

	preventing a wide variety of threats (e.g., malware, network probes/reconnaissance, VoIP attacks, buffer overflows, P2P attacks, etc.). It should not allow clients contacting malware infected domains	
37	The analyzer / reporting solution must provide multiple downloadable report output types or formats, such as PDF, Excel, HTML, and CSV.	
38	The proposed solution should support authentication protocols like LDAP, RADIUS and have support for NGFW passwords, Smart Cards, token-based products like Secure ID, LDAP-stored passwords, RADIUS or TACACS+ authentication servers and X.509 digital certificates.	
39	The proposed solution should have detection and prevention capabilities for DNS tunneling attacks.	
40	Anti-virus application of the proposed solution must be able to inspect SSL encrypted traffic and prevent access to malicious websites. It must also be able to stop incoming malicious files.	
41	The proposed solution should have a real-time capability to eliminate unknown threats and remove exploitable content, including active content and embedded objects and deliver safe content to the users.	
42	The proposed solution must support multiple mechanisms for issuing alerts (e.g., SNMP, e-mail, SYSLOG).	
	<b>Management, Logging and Reporting Requirements</b>	
43	Proposed solution must be provided with hardware / Software based management solution capable of managing atleast 5 NGFW gateways or more from day one. <b>Software based management solution is preferred.</b>	
44	The proposed solution should have complete customization of overviews and reports generation for every logged event in every security field	
45	The proposed solution must include a graphical monitoring interface that provides an easy way to monitor gateways status, Bandwidth utilization on each interface, etc.	
46	The proposed solution must include an automatic packet capture mechanism for IPS events to provide better forensic analysis	
47	The proposed solution must provide the following system information for each gateway: OS, CPU usage, memory usage, all disk partitions and % of free hard disk space.	
48	The proposed solution must detect Denial of Service (DoS) attacks correlating events from all sources.	
49	Upon malicious files detection, the proposed solution should generate a detailed report for each one of the malicious files. The details report should include (but not limited to) Screen Shots, timelines, registry key creation/modifications, file and process creation, network activity detected, etc.	
50	The proposed solution should prevent installation of malicious programs without the user's consent and unintentional downloads of files or bundled software onto a computer device.	
51	The proposed solution should have URL Filtering policies for LDAP users, AD users, User groups, Machines and IP address/range.	
52	The proposed solution should have full-path categorization of URLs only to block required categories of the malicious malware path not the full domain or website.	
53	The proposed solution should support Round-Robin and Weighted load balancing mechanisms.	

54	The proposed solution should support Captive Portal and Client Authentication Agent authentication mechanisms for newly connected users before they are granted access to network resources.	
55	The proposed solution should support authentication protocols such as LDAP, Radius, Token-based solutions, Kerberos, etc.	
56	Should be able to integrate with <b>LDAP</b> for user authentication through Captive Portal and Client Authentication Agent.	
	<b>Installation Requirements</b>	
57	The proposed solution must be installed in the Data Centre of NIT Rourkela by experts / certified professionals of the OEM.	
	<b>Warranty and License Requirements</b>	
58	The proposed solution must be supplied with 3 years Premium Support bundle including parts & labour with 24x7x365 days TAC support, RMA, software updates and subscription update support.	
59	The solution should be proposed with 3 years subscription licenses for (i) NGFW, (ii) IPS, (iii) Antivirus, (iv) Anti Spyware, (v) Anti Malware (vi) Antispam & Email Security, (vii) Anti Botnet, (viii) URL Filtering, (ix) Application Control and <b>(x) Zeroday Protection (optional)</b> .	
	<b>Training Requirements</b>	
60	5 days on site training must be given by OEM after successful installation of the solution.	