

# EXPRESSION OF INTEREST (EOI) FOR ESTABLISHMENT OF CAMPUS LAN

Eoi No: GKV/NOC/18-19/49

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# **Expression of Interest (EOI) for Campus LAN**

Gurukula Kangri Vishwavidyalaya, Haridwar invites Expression of Interest (EOI) from reputed Firms for Campus LAN. The EOI document is available on [gkv.ac.in/eoi\\_network.pdf](http://gkv.ac.in/eoi_network.pdf). Interested firms may submit their EOI latest by 02.03.2019 (upto 2:00 PM) to the Registrar, Gurukula Kangri Vishwavidyalaya, Haridwar-249404

Registrar

## Introduction

Gurukula Kangri Vishwavidyalaya, Haridwar [GKV] is interested in setting/ upgrading its Local Area Network (LAN).

Expression of Interest (EOI) proposal is invited in sealed envelope from reputed firms for the above campus LAN to be implemented in phases. The EOI along with relevant documents must be submitted to **The Registrar, Gurukula Kangri Vishwavidyalaya, Haridwar (Uttarakhand) – 249404** latest by **02.03.2019 (upto 2:00 pm)** by mentioning *Expression of Interest (EOI) for Supply, Installation, Integration, Commissioning and Managing of GKV Campus Wide Local Area Network* on envelope.

## General Terms and Conditions

1. The Expression of Interest must be accompanied with duly filled in Information sheets and sufficient documentary evidence. Expression of Interest with incomplete Information or insufficient documentary evidence shall be liable to be rejected.
2. GKV reserves the right to modify, expand, restrict, scrap, and re-float the Expression of Interest.
3. **Formal Tender/Bid (Technical and Financial bids) will be invited later from the eligible/qualifying firms based on the EOI submitted and presentation thereof. Physical presence of the firm's representative shall be mandatory at the time of presentation of solution in response of EOI submitted before the committee. No EOI shall be considered in the absence of detailed technical presentation and complete solution in front of the committee on the dates decided by GKV.**
4. GKV reserves the right to restrict the number of short-listed firms, as deemed fit and necessary, to be called for presentation based on fulfilment of pre-qualification criteria.
5. To assist in the examination of EOI, the competent authority reserves the right to seek clarifications on the plan submitted by the bidder.
6. EOI document cost: Cost of the EOI document is to be paid by way of an a/c payee **demand draft for an amount of Rs.5000/- drawn in favour of Registrar, GKV**. EOI cost is non-refundable and non-transferable. Alternatively, intending bidders may download the complete set of EOI document from GKV website ([www.gkv.ac.in/eoi\\_network.pdf](http://www.gkv.ac.in/eoi_network.pdf)) and submit the same duly signed on all pages by the bidders along with demand draft for EOI document cost. **Necessary Tender Fee as well as EMD will be required when the NIT will be issued to the shortlisted vendors and the amount will be announced/informed later.**
7. Clarification, if any, about the requirement can be obtained by visiting Department of Computer Science with prior information.
8. It will be the sole discretion of GKV to or not to incorporate any changes in the requirement based on feedback/input/suggestions received during the presentation/discussion. The decision of the GKV regarding acceptability of any suggestion shall be final in this regard.
9. Disputes, if any, shall be resolved mutually or shall be referred for arbitration to the Head of the Institution and his decision shall be final and binding on the firms. If arbitration fails, the dispute arising out of this shall be subjected to Jurisdiction - courts of Haridwar only.
10. **Only shortlisted vendors who have participated in the EOI will be allowed to finally submit their quotation (technical and financial). Those who have not been shortlisted in EOI will not be allowed to submit their quotation and the quotation received from any such vendor will be rejected. Hence all the prospective bidders are requested to participate in EOI.**
11. The firm (OEM/ System Integrator) is required to do the site survey and submit the complete solution with EOI including design, drawing. The survey shall be carried out with prior permission of GKV authorities. This includes cabling plan, network structure plan, network design and complete solution.

12. All the cost towards the submission of EOI and thereafter preparation of design, layouts and submission of hard copies to GKV shall be borne by the bidder and no claim towards this shall be entertained by GKV.

### **Pre-qualification Criteria**

EOI bids will primarily be evaluated on the basis of Prequalification Criteria. The Evaluation Committee will carry out a detailed evaluation of the proposals, only those who qualify all prequalification criteria, are eligible for evaluation of technical proposals.

<b>S. No.</b>	<b>Basic Requirement</b>	<b>Specific Requirements</b>	<b>Documents Required</b>
(i)	Legal Entity	<p>The bidder should be a Private/ Public Limited company registered under the Companies Act, 1956 or a registered firm. The company should be in existence for more than 5 years as on 31.03.2018.</p> <p>The company must be registered with appropriate authorities for all applicable statutory duties/taxes.</p>	<p>Valid documentary proof of:</p> <ul style="list-style-type: none"> <li>• Certificate of incorporation</li> <li>• Copy of Memorandum of Association</li> </ul> <p>Valid documentary proof of:</p> <ul style="list-style-type: none"> <li>• GST registration number.</li> <li>• Income Tax registration/PAN number</li> </ul>
(ii)	Annual Turnover	The bidder should have annual turnover of at least Rs. 2 Crores (Each year) for the last three financial years from IT & ITES business.	Certified copy of the audited statement of accounts (PL Account & Balance Sheet, Certificate from Chartered accountant, as a proof of annual turnover stated.
(iii)	Net Worth, profitability	<p>The bidder company should have positive net worth at least for last three financial years</p> <p>The bidder should be a profit making organization for at least three years during last five years.</p> <p>Solvency certificate of Rs. 2 crores from a schedule bank is required.</p>	Certified copy from the C.A has to be enclosed.
(iv)	Certifications	The bidder should be ISO 9001 and ISO 27001 Quality certifications from an accredited and internationally reputed / renowned firm.	Copies of ISO certificates

(v)	Technical Capability	<p>The bidder must have successfully completed a networking project of <b>any one of the following category in last five years:</b></p> <p>One similar project with order value of Rs.1 Crores.</p> <p>Two similar projects with order value of Rs. 50 Lakhs.</p> <p>Three similar projects with order value of Rs. 20 Lakhs.</p> <p>Six similar projects with order value of Rs. 10 Lakhs.</p> <p>(similar projects means orders having switching, routing, wired and wireless components)</p> <p>The bidder should have at least 5 numbers certified technical personnel on its payroll and must be qualified as B.C.A./ B.Tech/ M.C.A. with minimum relevant experience of 2 years.</p>	<p>Copy of the Work Order along with completion certificate from the competent authority. Also share address, mobile number &amp; email of clients.</p> <p>Documentary evidence from HR must be submitted.</p>
(vi)	OEM Criteria	OEM should have direct presence in India for at-least last 5 years.	
(vii)	Blacklisting	Applicants must not be under a declaration of ineligibility for corrupt and fraudulent practices issued by Govt. of India/ State Govt.	Affidavit duly notarized to be submitted
(viii)	Consortiums/JV	Consortiums/JV bidding is not allowed.	

### **Existing LAN Infrastructure**

GKV has a LAN setup of academic area, administrative area and hostels on radio backbone as per following:

- Network Cabling: Building to building is radio based and within the building is copper (mostly UTP cat6 cable).
- All buildings in academic area, administrative area and hostels are connected through a radio links to UTM in Computer Centre, GKV.
- I/O nodes in the buildings and hostel are connected to switch. Most of the switches are unmanaged.

## **Scope of Work**

The Scope of Work (SOW) for this Expression of Interest (EOI) includes:

- a) Site survey, planning & design for the proposed augmented Campus wide wired and wireless network at GKV for approximately 3000 total users with 1000 concurrent users the number of users in future may increase by another 500 users.
- b) Preparation and submission of technical solution document along with detailed Bill of Material (BoM) and Bill of Quantity (BoQ) with OEM part-code/numbers for all Active & Passive network components as well as dependencies like – Servers, OS & Applications Software, UPS, etc.
- c) Preparation of an estimate of the expenditure separately for the components a) to j) as detailed below.
- d) Option in design using exclusive rings for each active device in fail-safe, high-availability configuration.

### **Detailed Technical Scope of Work**

- a) The Proposed Network should be a Tiered LAN Network constituting of Core/Aggregation Switch, Distribution Switches and Access Switches supporting Distributed Routing and Switching as well as Distributed Control at all Tiers. All switches must be managed switches with support for web-based management/ command line interface/SNMP management, built-in QOS controls, ACLs for network security.
- b) The Connectivity between Core/Aggregation Switch and Distribution Switches shall constitute of 10Gbps optical links.
- c) Optical Network Backbone:
  - i. Detailed diagram for the Optical links should be included in the proposed solution. Centralized UPS power line is to be distributed along-with optical links.
  - ii. The backbone fiber optic cable should be terminated at a core/Aggregation switch in **Department of Computer Science**.
- d) Core/Aggregation Switch:

It is desired that the Core/ Aggregation Switch should have following features:

  - i. Core/Aggregation Switch should offer Wire-Speed & Non-Blocking Architecture.
  - ii. Core/Aggregation switch should have full IPv4 & IPv6 functionality.
  - iii. Core/aggregation switch should support 1 Gbps, 10 Gbps interfaces/links from day one.
- e) All Distribution switches shall be connected to Core/ Aggregation switch using 10Gbps links.
- f) Distribution Switches:

It is desired that the Distribution Switches should have following features:

  - i. Distribution Switches should offer Wire-Speed & Non-Blocking Architecture.
  - ii. Distribution Switches should have full IPv4 & IPv6 functionality.
  - iii. Distribution Switches should support 1Gbps and 10 Gbps interfaces/links.
- g) Access Switches:

It is desired that the Access Switches should have following features:

  - i. Access Switches should offer Wire-Speed & Non-Blocking Architecture
  - ii. Access Switches should have full IPv4 & IPv6 functionality.
  - iii. Access Switches should support a combination of 24-port and 48- ports switches having PoE+ and non-PoE ports as per requirement.
  - iv. Access Switches should support 1Gbps and 10 Gbps interfaces/links from day one.

- h) **Wireless Network:**  
The solution document should include complete survey details, heat-map and proposed location of Access Points based on user density for the controller based 802.11ac wireless network.
- i) **Network Management system (NMS)**
  - i. Web based user interface (secured).
  - ii. Should support full configuration, fault an performance management.
  - iii. Ability to present graphical view of the network.
  - iv. Should support various privilege levels.
  - v. Capability to view the network topology.
  - vi. The NMS should be able to manage all the active components, Wired and Wireless elements, of the network.
  - vii. The NMS should have the capabilities to support all the manageable elements in the existing Network irrespective of OEM.
- j) **User Authentication and Network Admission Control:**
  - i. The proposed solution shall provision 802.1x based RADIUS/AAA authentication for all users along with BYOD & network access/admission control for wired as well as wireless users.
  - ii. All new/guest users will be able to connect to Guest VLAN only, which gives portal asking for Registration and provides limited internet use (no social networking sites; and as decided by GKV). Registration request will be validated by the Network Administrator and legitimate users will get the login credentials through SMS/email.
  - iii. Users should not be able to add switches/APs to the access port at their own i.e. the device must be validated by the Network Administrator before its connection to the network.
  - iv. Users should not be able to create hotspots on their devices.

All servers, physical appliances, software and licenses required should be clearly mentioned in the solution document and included in the BoQ.