

**DAYALBAGH EDUCATIONAL INSTITUTE
DAYALBAGH, AGRA-282005**

Notice Inviting tenders

Limited tender No: DEI/Sc/Phy&Comp/CMM/TDR-22

Date: 11-02-2020

Sealed tenders are invited from the Manufacturer/Authorized Dealer/ Suppliers for the following:

Specification of Items		
S.No.	Item Description	Quantity
1	Cisco ISR Router for BGP	1

The tenderer shall be required to submit the Earnest Money Deposit (EMD) for an amount of **Rs. 36,000/-** by way of demand drafts/banker's cheque/FDRs which is refundable and a non-refundable tender fee for an amount of **Rs. 200/- (Rupees two hundred only)** by Cash or Demand draft. The demand drafts shall be drawn in favour of "**Registrar, Dayalbagh Educational Institute, Agra**" payable at Agra. The demand drafts (validity 45 days beyond final bid) for earnest money deposit & tender fee must be enclosed in the envelope containing the bid documents addressed to:

**"The Registrar
Dayalbagh Educational Institute,
Dayalbagh, Agra – 282005,
Uttar Pradesh"**

Note: Central Purchase Organization, Small Scale Industries/ National Small Scale Industries Corporation shall be exempted from payment of Earnest Money Deposit. Tenderers seeking exemption should enclose a self attested photocopy of valid registration certificate with NSIC.

(The Earnest Money will be liable to be forfeited if quotation is not honored or if contract is not signed with the Institute, after the award is made to the Tenderer)

1. Time and last date of submission of the Bid: 11.00 am on 3.03.2020
2. Time of Bid Opening: 11.30 am on 3.03.2020
3. Venue of Bid Opening: Conference Hall, CAO, Dayalbagh Educational Institute in the presence of bidders who want to be present at the time of opening of bid.

Interested bidders may post (at the above address) or put the tender documents completed in all respect and other requisite documents in the tender box kept in the General Section, CAO, Dayalbagh Educational Institute, Dayalbagh, Agra- 282005. The bidders are also informed that they may come personally or send their representative to be present at the time of opening of bid. Please note that tender box shall be opened at the time mentioned above irrespective of whether bidders himself or any of their representative are present or not. The tenders shall not be entertained after this deadline under any circumstances what so ever. For more details please visit the Institute's website <http://www.dei.ac.in>. or contact Prof. C. M.Markan-9557790100.

**Registrar
Dayalbagh Educational Institute**

Part A (Router)

Specification of Cisco ISR Router:

1. The Router should have a Performance of 1 Gbps
2. The Router should support future Performance Upgrade to 2 Gbps
3. The Router should support modular architecture
4. The Router should support a fabric which will allow high-bandwidth module-to-module communication without compromising routing performance
5. The Router should support a single software image containing all of the feature sets which can be activated with a software license
6. The Router should support 4 onboard WAN or LAN 10/100/1000 ports
7. The Router should support hosting of 3rd Party & custom applications on a server module which can be easily integrated in to the router
8. The Router should support dedicated Data Plane and Control Plane DRAM
9. The Router should support minimum 4 GB Default DDR2 ECC RAM
10. The Router should support 8 GB Default flash memory
11. The Router should support Internal: AC, DC, and PoE Power-supply options
12. The Router should support Voice DSP's
13. The Router should support DSP Module slots ports
14. The Router should support Local Conferencing
15. The Router should support Local Survivability functionality
16. The Router should support Generic routing encapsulation (GRE)
17. The Router should support Point-to-Point Protocol (PPP)
18. The Router should support Multilink Point-to-Point Protocol (MLPPP)
19. The Router should support IPv4/IPv6 Dual Stack
20. The Router should support Static routes, OSPF, BGP, IS-IS
21. The Router should support Policy-Based Routing (PBR) for Traffic Management
22. The Router should support Multicast Internet Group Management Protocol (IGMPv3)
23. The Router should support Virtual Router Redundancy Protocol (VRRP)
24. The Router should support OSPF Graceful Shutdown
25. The Router should support ZBFW (Zone-Based Policy Firewall)
26. The Router should support IOS Firewall - FTP ALG Support
27. The Router should support Multi-VRF Support (VRF lite)
28. The Router should support MPLS Virtual Private Networks (VPN)
29. The Router should support advanced application inspection and control
30. The Router should support DMVPN Configuration using FQDN
31. System should able to support by Separating the control plane from the data plan and integrating the WAN and branch networks into a single end-to-end framework that uses policies to manage traffic.
32. System should able to support centralized authentication system to authenticate network elements of control plane, data plane and NMS management tool.
33. System should able to support Zero Touch Provisioning of CPE device re-respective of any location.

34. System should able to support centralized single plane of management system to allow device configuration, Policy provisioning, Software updates and assurance capabilities
35. System should able to support centralized single plane of management system to allow device configuration, Policy provisioning, Software updates and assurance capabilities
36. System should able to support secure overlay fabric with all the SD-WAN software elements without direct route peering
37. System should able to support secure overlay fabric management protocols to in order simplify control plane processing such as routing and secure keys distribution
38. System should able to support any kind of transport such MPLS, Broad Band and Wireless WAN (3G and 4G)
39. System should able to support secure communication between NMS, Control plane, Data plane and Centralized authentication server
40. System Should able to support of network elements to deploy any kind of topologies such as any-to-any, Hub-spoke and Partial mesh.
41. System should able to support regional internet exists, to improve internet performance and availability
42. System should able to support of current network infrastructure, which operating with underlay infrastructure. Non-disruptive integration into existing networks with full interoperability with existing routing hardware and routing protocols
43. System should able to support Multiple WAN Links utilization and detecting blackouts & brownouts by supporting active / active load balancing & Fast session failover
44. System should able to support network service insertion & chaining to expand the agility and utility of the network
45. System should able to support Network/App/ Service Policy enforcement either by centralized controller influences all locations, Regional Specific Policy and Each location enforces its own policies.
46. Support end-to-end segmentation to securely isolate, Intranet departments, Guest WiFi traffic and Business Partner traffic within a single appliance.
47. System should able to support of SaaS/IaaS/PaaS applications need to have efficient routes to the cloud to achieve requisite application latencies.
48. System should able to support of Scalability & High availability Architecture.
49. Router shall have support of SaaS user apps experience by providing optimal connectivity, Quality of service Scores , path selection and apps performance visibility solution should able to expose a northbound API that allows for programmatic control of your controller
50. System should able to offer by deploying either On-Prem or cloud hosting of all the SD-WAN software components
51. Solution vendor shall a have support business model to maintain SD-WAN software elements that are deployed in the cloud

52. System Should able to support SD-WAN software elements as a hypervisor agnostic in Virtual environment, dedicated physical appliance for Edge routers and VNF .
53. Solution should able to provide an abstraction of policy orchestration between control, data and application policies.
54. Operationally Solution shouldn't be impacted , if any data plane routers got isolated from Control & Management Plane reachability
55. Solution should able to support NAT traversal for internet transport exists. All the SD-WAN software/Hardware elements should able support PKI based authentication with signed certificate.
56. Solution should able to support end-to-end packet classification, marking and bandwidth allocation
57. The solution shall support hybrid branches which have a WAN connection to an MPLS IP VPN and a second WAN connection to the internet.

	Part Number	Description	Qty
1.0	ISR4451-DNA	Cisco ISR 4451 (4 GE, 3 NIM, 2 SM) with DNA Support	1
1.1	SL-4450-NA	Network Advantage License for Cisco 4450-DNA	1
1.2	PWR-4450-AC	AC Power Supply for Cisco ISR 4450 and ISR4350	2
1.3	CAB-CONSOLE-RJ45	Console Cable 6ft with RJ45 and DB9F	2
1.4	MEM-FLSH-8G	8G eUSB Flash Memory for Cisco ISR 4430	1
1.5	FL-44-PERF-K9	Performance on Demand License for 4400 Series	2
1.6	MEM-4400-DP-2G	2G DRAM (1 DIMM) for Cisco ISR 4400 Data Plane	1
1.7	POE-COVER-4450	Cover for empty POE slot on Cisco ISR 4450	1
1.8	FL-44-BOOST-K9	Booster Performance License for 4450 Series	1
1.9	FL-44-HSEC-K9	U.S. Export Restriction Compliance license for 4400 series	2
1.10	MEM-44-4G	4G DRAM (1 x 4G) for Cisco ISR 4400	1
1.11	NIM-BLANK	Blank faceplate for NIM slot on Cisco ISR 4400	1
1.12	SM-S-BLANK	Removable faceplate for SM slot on Cisco 2900,3900,4400 ISR	1
1.13	SISR4400UK9-169	Cisco ISR 4400 Series IOS XE Universal	1
1.14	DNA-SUBS-EAD	Subscription: Enterprise Agreement and Distribution	1
1.15	DNA-P-1G-P-3Y	DNA Premier OnPrem License, Agg 2G, 3Y	1
1.16	Initial Term - 36.00 Months Auto Renewal Term - 0 Months Billing Model - Prepaid Term		1
1.17	C1-ISRWAAS-2500-T	Cisco ONE ISRWAAS RTU Term License for 2500 connections	1

1.18	Initial Term - 36.00 Months Auto Renewal Term - 0 Months Billing Model - Prepaid Term		1
1.19	C1-VWAAS-6000-T	Cisco ONE VWAAS RTU for 6000 Connections Term Lic	2
1.20	Initial Term - 36.00 Months Auto Renewal Term - 0 Months Billing Model - Prepaid Term		1
1.21	SDWAN-DNA-A	Cisco DNA Advantage for DNA Center	1
1.22	Initial Term - 36.00 Months Auto Renewal Term - 0 Months Billing Model - Prepaid Term		1
1.23	SVS-DNA-P-PRE	Embedded Support - Cisco DNA Premier On Premise Lic	3
1.24	Initial Term - 36.00 Months Auto Renewal Term - 0 Months Billing Model - Prepaid Term		2
1.25	PWR-4450-AC/2	AC Power Supply (Secondary PS) for Cisco ISR 4450	1
1.26	CON-SNT-FCM1600K	SNTC-8X5XNBD Cisco Firepower Management Center 1600 C	1
1.27	SM-X-6X1G=	SM-X module with 6-port dual-mode GE / SFP	1

Part B – Installation and testing

	Part Number	Description	Qty
1.0	Subnet	We required 2*/24 public IP subnet to implement BGP	1
1.1	Implementation	Onsite Installation, configuring inside campus network and outside network flow.	1
1.2	Commissioning / testing	Testing and Commissioning of hole network	1
1.3	Support	At list 3-year support on side	1

Note:

- Transportation cost of all material will be borne by the bidder.
- Successful bidder shall accord facility for inspection/testing of material at their site by a team of institute engineers before start of delivery, if deemed necessary
- After BGP implementation both link will be in use as active/active mode and if any link will be down than complete traffic will be shift on other available link, The BGP Support for Nonstop Routing (NSR) with Stateful Switchover (SSO) feature enables provider edge (PE) routers to maintain Border Gateway Protocol (BGP) state with customer edge (CE) routers and ensure continuous packet forwarding during a Route Processor (RP) switchover or during a planned In-Service Software Upgrade (ISSU) for a PE router there drops may be come in milliseconds and its depends upon ISPs switchovers function.

General Terms & Conditions

Note: Bidders must submit the following primary information/documents with the quotation. Bidders will have to indicate these particulars in their quote failing which the offer may be rejected. Please do produce the related documents whenever required by the Institute.

1. Trade License/Company Registration No.
2. Goods / Service Tax Regn. No.
3. Income Tax PAN No.
4. Firm's Bank A/c details
5. Bidders are requested to quote rate(s) per unit(s) only in the recognized Accounting units otherwise your quotation will not be accepted.
6. Cost of items shall include installation, support and troubleshooting.
7. Warranty and Support: for Hardware and Software should be explicitly mentioned.
8. Bidders should be OEM/Authorized partner/Authorized dealer of OEM.
9. Bidders should quote rates as per details/specifications mentioned in notice inviting Tender. The Institute reserves the right to place order for each job to single/separate vendor(s) if necessary.
10. Bidders should quote rates on FOR/Free Delivery at the sites specified in the Notice inviting Tender, inclusive of all charges else should mention estimated cost of packing, forwarding, insurance and freight by Rail/Road/Post etc. as the case may be.
11. Bidders must indicate if their rate is inclusive of Taxes and duties, if any.
12. In case opening date of Tender happens to be holiday, tender will be received and opened on the next working day at the same time and same place. Quotation received after the closing date will not be entertained and revision in the price will render the bid invalid. Quotation should indicate clearly the period of Validity, preferably not less than 45 days.
13. In case of an offer for items having multiple options, you should clearly indicate item-specific price(s). Please quote separate item-wise rate(s), when quotation has been asked for so. For every offer, packing and forwarding charges, Taxes etc. should be shown separately.
14. Bids will be evaluated after equated comparison of offers upon calculating all tax/duty/cess/surcharge/discount/packing/transportation costs, other charges with price and non-compliance of technical and commercial terms will render a bid liable for rejection.
15. Bidders will have to submit Bills/Invoices on dispatch of stores, if ordered, to this office in triplicate duly pre-receipted (and stamped for amount over Rs. 5000/-) and supported by the relevant delivery documents for audit and payment directly in your bank account through RTGS/NEFT. Generally, payments can be expected within one month and are made against acceptance of supplies/ jobs completed and in deserving cases, against shipment documents.
16. No insurance charges are allowed unless otherwise specified and agreed to by us. In the absence of any specific instructions, it will be the responsibility of the supplier to ensure a consignment against transit risk at his own expense if he so desires.
17. The Institute is not bound to accept the lowest rate or any other offer and the acceptance of the offer is entirely at the discretion of the Committee.
18. All purchases are subject to the approval of the Governing Body of the Institute.

19. The Institute reserves the right to select certain items in single or multiple units and reject the others or all as mentioned in the schedule and to revise or alter the specifications before acceptance of any tender and accept or reject any or all tenders, wholly or partly or close the tender without assigning any reason whatsoever.
20. The Bidder shall be required to submit the amount of **Earnest Money Deposit (EMD)** by way of demand drafts/banker's cheque/FDRs as mentioned in the Notice Inviting Tender which is refundable and a non-refundable **Tender Fee** for an amount of **Rs 200/-** (Rupees two hundred only) by way of demand drafts/banker's cheque. The demand drafts shall be drawn in favour of **“Dayalbagh Educational Institute, Agra”** payable at **Agra**. The bidders may seal technical and financial bids separately and put these two sealed envelopes in a bigger envelop, super-scribed with tender number and due date of submission on it. **Bids are invited under single stage bidding system.**
21. The demand drafts (validity 45 days beyond final bid) for earnest money deposit & tender fee must be enclosed in the envelope containing the Technical bid.
 - a.) The firm(s) that are registered with the National Small Industries Corporation (NSIC) / or Small-Scale Industries (SSI) are exempted from furnishing the EMD. Self-attested photocopy of the valid registration certificate must be enclosed with their bid.
 - b.) The demand drafts for EMD & tender fee must be enclosed in the envelope containing the technical/price bid and super-scribed with tender number and due date of submission on it. Any technical/price bid is found without the demand drafts of EMD and tender fee will be rejected. The Institute will not be liable to pay any interest on such an amount. The EMD shall be forfeited, if the Bidder withdraws its bid during the period of validity of Tender.
22. Arbitration and Laws: In case of any dispute or difference arising out of or in connection with the tender conditions / order and Contract, the Institute and the Supplier will address the dispute / difference for a mutual resolution and failing which, the matter shall be referred for arbitration to a sole Arbitrator to be appointed by the Institute. The Arbitration shall be held in accordance with the provisions of the Arbitration and Conciliation Act, 1996 and the venue of arbitration shall be at Agra only. The resolution of the Arbitrator shall be final and binding on both the parties.
23. Jurisdiction: The courts at Agra alone will have the jurisdiction to try any matter, dispute or reference between parties arising out of this tender /contract. It is specifically agreed that no court outside and other than Agra court shall have jurisdiction in the matter.
24. Customs Duty & Excise Duty: Please note that the Dayalbagh Educational Institute, Agra, Uttar Pradesh other than Hospital is registered with the DSIR for purpose of availing Customs Duty Exemptions in terms of Notification No.51/96-CUSTOMS dated 23.7.1996, Notfn. No.47/2017-Integrated Tax (Rate) dated 14-11-2017 and Notfn. No.45/2017-Central Tax (Rate) dated 14-11-2017, Notfn. No.45/2017-Union Territory Tax (Rate) dated 14-11-2017 & Notfn. No.9/2018-Central Tax (Rate) dated 25-01-2018, Notfn. No.9/2018- Union Territory Tax (Rate) dated 25-01-2018 as amended from time to time, for research purpose only, the bidders are, however, requested to quote accordingly for relevant supplies.

Registrar, DEI

Annexure-I

Financial Bid Format

Part A

	Part Number	Description	Qty	Unit Price	Total Price
1.0	ISR4451-DNA	Cisco ISR 4451 (4 GE, 3 NIM, 2 SM) with DNA Support	1		
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1.2	PWR-4450-AC	AC Power Supply for Cisco ISR 4450 and ISR4350	2		
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1.7	POE-COVER-4450	Cover for empty POE slot on Cisco ISR 4450	1		
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1.14	DNA-SUBS-EAD	Subscription: Enterprise Agreement and Distribution	1		
1.15	DNA-P-1G-P-3Y	DNA Premier OnPrem License, Agg 2G, 3Y	1		
1.16	Initial Term - 36.00 Months Auto Renewal Term - 0 Months Billing Model - Prepaid Term		1		

1.17	C1-ISRWAAS-2500-T	Cisco ONE ISRWAAS RTU Term License for 2500 connections	1		
1.18	Initial Term - 36.00 Months Auto Renewal Term - 0 Months Billing Model - Prepaid Term		1		
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1.21	SDWAN-DNA-A	Cisco DNA Advantage for DNA Center	1		
1.22	Initial Term - 36.00 Months Auto Renewal Term - 0 Months Billing Model - Prepaid Term		1		
1.23	SVS-DNA-P-PRE	Embedded Support - Cisco DNA Premier On Premise Lic	3		
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1.26	CON-SNT-FCM1600K	SNTC-8X5XNBD Cisco Firepower Management Center 1600 C	1		
1.27	SM-X-6X1G=	SM-X module with 6-port dual-mode GE / SFP	1		

Part B

	Part Number	Qty	Price
1.0	Subnet	1	
1.1	Implementation	1	
1.2	Commissioning / testing	1	
1.3	Support	1	

CHECK LIST

1. EMD of Rs. 36,000.00 (Thirty six thousand only) only by way of DD/Banker's Cheque/FDR No..... dated in favour of "**Registrar, Dayalbagh Educational Institute, Agra**" payable at Agra.
2. DD/CR No..... dated.....for Rs.200.00 (Two hundred) only in favour of "**Registrar, Dayalbagh Educational Institute, Agra**" payable at Agra towards cost of Tender Fee.
3. Details of firm, equipment, software, registration with tax authorities–Income Tax/Service Tax etc.
4. PO and Satisfactory report of qualifying projects (Minimum of two) handled by bidders in last 5 years giving date of start, date of completion, cost of project and delay if any attributable to bidder. (Staple all to make one doc).
5. Documents explaining Bidder's approach particularly to this cisco router project describing implementation strategies which may include topology, hardware to be deployed etc.
6. Declaration from the OEM that none of the quoted product will go End of Sale or End of Support for a period of at least five years.
7. Declaration by Agency that they shall be supplying genuine OEM products and any discrepancy.
8. Time schedule for complete development of total project in the form of BAR CHART. (This also has to be part of presentation).
9. Financial Bid in the prescribed Format as given in Annexure-I in a sealed envelope
10. The bid document along with its annexure downloaded from the web shall be duly signed on each page by the bidder and enclosed along with technical bid in the Envelope-1 and price bid in the envelop-2.
11. Any other documents.

NOTE: The Check- List shall be duly filled in, and should be submitted along with the Technical Bid.