

UNIVERSITY OF KALYANI



Centre for Information Resource Management

NOTICE INVITING TENDER

Tender Ref. No. KU/Adm. /Ext. & Redn./July -2017

Date: July 03, 2017

Sealed tenders are invited **EXTENSION & REDUNDANCY OF CAMPUS NETWORKING**, University of Kalyani from reputed vendors having valid up to date Trade License, I.T., VAT, Service Tax and Professional Tax clearance certificate and experience for at least last two years for supplying similar type of items.

Tender documents may be downloaded from the University website www.klyuniv.ac.in and the same after filled up must be submitted in a sealed envelope addressed to **System-in-Charge,CIRM, University of Kalyani, Kalyani- 741235.**

Interested bidders should submit their bid with DD of Rs 1,000/- for items as per Annexure-A. DD will be drawn on any nationalized bank having service branch at Kalyani and be issued in favour of "University of Kalyani" payable at Kalyani.

Last date of receiving tender document either by hand or by post: 12/07/2017 up to 4 p.m.

- For specifications of the above items please refer **Annexure-A** of the Tender Documents.
- For furnishing basic information about the bidder, please refer **Annexure- B** of the Tender Document
- For submission of Quotation, Bidder must follow the Price Bid Format vide **Annexure – C** of the Tender Document.
- Bidders must comply the Terms and Conditions as mentioned in the **Annexure-D** of the Tender Document.
- Bidder must submit Undertaking form as mentioned in the **Annexure-E** of the Tender Document.

Sd/-

System-in-Charge(Offg.)
Centre for Information Resource Management
University of Kalyani, Kalyani -741235

ANNEXURE- A

Technical Specification Extension & Redundancy of Campus Network

A. 24 Port Managed Switch:

Feature	Description
Model	Fully Managed layer 2 24 Port Switch
Port	24 RJ-45 autosensing 10/100 ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-TX); Duplex: half or full 2 autosensing 10/100/1000 ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-TX, IEEE 802.3ab Type 1000BASE-T); Duplex: 10BASE-T/100BASE-TX: half or full; 1000BASE-T: full only 2 fixed Gigabit Ethernet SFP ports 1 dual-personality (RJ-45 or USB micro-B) serial console port
Memory & Processor	<ul style="list-style-type: none">• ARM9E @ 800 MHz• 128 MB flash• Packet buffer size: 1.5 MB dynamically allocated• 256 MB DDR3 DIMM
Latency	<ul style="list-style-type: none">• 100 Mb Latency: < 1.7 μs• 1000 Mb Latency: < 1.1 μs
Throughput	up to 9.5 Mpps
Switching capacity	12.8 Gbps
Stacking capabilities	<ul style="list-style-type: none">• Virtual• 16 switches
Switch Management	<ul style="list-style-type: none">• Network Management• IMC - Intelligent Management Center• Command-line interface• Web browser• Configuration menu• Out-of-band management (serial RS-232C or micro USB)• IEEE 802.3 Ethernet MIB• Repeater MIB• Ethernet interface MIB
Input voltage	100 - 127 / 200 - 240 VAC, rated
Power consumption	14.7 W (maximum)
Safety	UL 60950-1; CAN/CSA 22.2 No. 60950-1; EN 60825; IEC 60950-1; EN 60950-1
Emission	FCC Class A; EN 55022/CISPR-22 Class A; VCCI Class A
Warranty	Limited Lifetime Warranty

B. 48 Port Managed Switch:

Feature	Description
Model	Fully Managed layer 2 48 Port Switch
Port	48 RJ-45 autosensing 10/100 ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-TX); Duplex: half or full 2 autosensing 10/100/1000 ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-TX, IEEE 802.3ab Type 1000BASE-T); Duplex: 10BASE-T/100BASE-TX: half or full; 1000BASE-T: full only 2 fixed Gigabit Ethernet SFP ports 1 dual-personality (RJ-45 or USB micro-B) serial console port
Memory & Processor	<ul style="list-style-type: none">• ARM9E @ 800 MHz• 128 MB flash• Packet buffer size: 3 MB dynamically allocated• 256 MB DDR3 DIMM
Latency	<ul style="list-style-type: none">• 100 Mb Latency: < 7.4 μs• 1000 Mb Latency: < 2.3 μs
Throughput	up to 77.3 Mpps
Switching capacity	104 Gbps
Stacking capabilities	<ul style="list-style-type: none">• Virtual• 16 switches

Switch Management	<ul style="list-style-type: none"> • Network Management • IMC - Intelligent Management Center • Command-line interface • Web browser • Configuration menu • Out-of-band management (serial RS-232C or micro USB) • IEEE 802.3 Ethernet MIB • Repeater MIB • Ethernet interface MIB
Input voltage	100 - 127 / 200 - 240 VAC, rated
Power consumption	59.5 W (maximum)
Safety	UL 60950-1; CAN/CSA 22.2 No. 60950-1; EN 60825; IEC 60950-1; EN 60950-1
Emission	FCC Class A; EN 55022/CISPR-22 Class A; VCCI Class A
Warranty	Limited Lifetime Warranty

C. Distribution Switch:

Feature	Description
Model	Layer 3 Intelligent Modular Switch, 6-slot chassis supporting v2 zl and v3 zl2 modules (6 Open Module Slots)
Port	6 open module slots Supports a maximum of 144 auto-sensing 10/100/1000 ports or 144 SFP ports or 48 SFP+ ports or 48 HPE Smart Rate Multi-Gigabit or 12 40GbE ports, or a combination
Latency	<ul style="list-style-type: none"> • 10 Gbps Latency: < 1.8 μs • 1000 Mb Latency: < 2.8 μs
Power supplies	Power supplies 2 power supply slots 2 power supply required
Fan tray	Includes: 1 x J9831A 1 fan tray slot
Memory and processor	<ul style="list-style-type: none"> • Freescale P2020 dual core @ 1.2 GHz • 16 MB flash • 1 GB SD Card • 4 GB DDR3 SODIMM
Throughput	up to 571.4 Mpps
Switch Management	<ul style="list-style-type: none"> • Network Management • IMC - Intelligent Management Center • Command-line interface • Web browser • Configuration menu • Out-of-band management (RJ-45 Ethernet) • SNMP manager • Out-of-band management (serial RS-232C or micro USB)
Routing/Switching capacity	960 Gbps
Switch fabric speed	1015 Gbps
Routing table size	10000 entries (IPv4), 5000 entries (IPv6)
MAC address table size	64000 entries
Input voltage	100 - 127 / 200 - 240 VAC, rated
Power consumption	59.5 W (maximum)
Safety	CSA 22.2 No. 60950; UL 60950; IEC 60950; EN 60950
Emission	FCC part 15 Class A; EN 55022/CISPR 22 Class A
Warranty	Limited Lifetime Warranty

D. Distribution Switch Module:

Feature	Description
Model	24P 1GBE SFP V3 ZL2 Module
Number of Tota Expansion Slots	24 Port
Expansion Slot Type	SFP (mini-GBIC)
Media Type Supported	Optical Fiber

Ethernet Technology	Gigabit Ethernet
Network Technolog	1000Base-X
Application / Usage	Data Networking Optical Network
Throughput	up to 77.3 Mpps
Maximum Data Transfer Rate	1 Gbit/s
Warranty	Limited Lifetime Warranty

E. Optical Transceivers MiniGibic Module:

Feature	Description
Model	Gigabit-LX-LC Mini-GBIC
Type	One 1000Base-LX port (IEEE 802.3z Type 1000Base-LX) Connector: LC Duplex: full
Cabling	<ul style="list-style-type: none"> Type: either single-mode or multimode 9/125 μm (core/cladding) diameter, low metal content, single-mode fiber-optic, complying with ITU-T G.652 and ISO/IEC 793-2 Type B1 62.5/125 μm or 50/125 μm (core/cladding) diameter, graded-index, low metal content, multimode fiber-optic, complying with ITU-T G.651 and ISO/IEC 793-2 Type A1b or A1a, respectively (a mode conditioning patch cord may be needed in some multimode fiber installations) Maximum distance: 10 km (single mode) or 550 m (multimode)
Warranty	Limited Lifetime Warranty

F. LC-SC OFC Single Mode Patch Cord :

Feature	Description
Type	1 Meter Fiber, Singlemode Duplex, LC/SC
Specification	<ul style="list-style-type: none"> Cable Diameter: 2.0mm duplex zipcord Low back reflection and insertion loss Premium quality UPC ceramic ferrule for best performance Cable Material: PVC Fiber Type: Single-mode 9/125 Insertion Loss (Typical): 0.15 dB Insertion Loss (Maximum): 0.30 dB Return Loss (SM): ≤ -50 dB (UPC) Operational Temperature: -20°C to $+70^{\circ}\text{C}$ 100% Fully Tested RoHS Compliant Please contact us for different colors or jacket types

G. LC-SC OFC Multi Mode Patch Cord:

Feature	Description
Type	1 Meter Fiber, Multimode 62.5/125, Duplex, LC/SC
Specification	<ul style="list-style-type: none"> Cable Diameter: 2.0mm duplex zipcord Low back reflection and insertion loss Premium quality ceramic ferrule for best performance Cable Material: PVC Fiber Type: Multimode 62.5/125 (OM1) Insertion Loss (Typical): 0.15 dB Insertion Loss (Maximum): 0.30 dB Operational Temperature: -20°C to $+70^{\circ}\text{C}$ 100% Fully Tested RoHS Compliant

H. CAT 6 UTP Cables:

Feature	Description
Type	UTP Cables
Features	Category 6 Unshielded Twisted Pair 4 pair 100 Ohm cable shall be compliant with ANSI/TIA/EIA-568-B.2-1 upto 600 Mhz. Category 6 UTP cables shall extend between the work area location and its associated telecommunications closet and consist of 4 pair, 23 AWG, UTP Non Plenum cable jacket. The 4 pair Unshielded Twisted Pair cable should be UL Listed and ETL Certify. Zero-Bit error throughput test as per IEEE standards verified by ETL The 4 pair Unshielded Twisted Pair cable should be RoHS Compliant .
Mechanical Characteristics	Construction: 4 twisted pairs separated by internal X shaped, 4 ch annel, full separator. Half shall not be accepted. Conductor Solid Copper Insulator Polyethylene Delay Skew : 35 ns MAX Jacket PVC Attenuation : 22.8dB/100m at 250MHz, 29.4dB/100m at 400MHz, 39dB/100m at 600MHz

I. Cat-6 UTP Patch Cord:

Feature	Description
Type	Unshielded Twisted Pair, Category 6, TIA / EIA 568-B.2
Conductor	24 AWG 7 / 32, stranded copper
Length	2mtr.
Plug Protection	Matching colored snag-less, elastomeric polyolefin boot
Category	Category 6
Terminals	Phosphor Bronze, 50 micron gold plating over selected area and gold flash over remainder, over 100 micron nickel under plate
Jacket	PVC
Insulation	Flame Retardant Polyethylene

J. I/O Box with Faceplate:

Features	<ul style="list-style-type: none"> ✓ Surface Mount Face Plate & Back Box with CAT6 Work Area Data I/O Outlet (RJ45) adhering to ETL Verification program for compliance with TIA568B.2-1 ✓ Category 6, TIA568.B.2-1 – 600MHz ✓ Information Outlet should be UL Listed and I/O box should be RoHS Compliant
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K. Wall Mount Rack:

Feature	Description
Type	6U Wall mount Network Rack
Cooling	Roof mounted fan housing units with exhaust axial type fans of 6U rack mounted fan trays with 2/4 fan capacity to take care of heat pockets at specific locations. These units can be mounted any where all along the height of the cabinet.
Power Module	A/c power distribution box in 2U height (5 point)
Front panel mounting hardware	A set of hardware comprises of cage nut M6, captive screw M6, plastic cup washer provided in a packet of 20 sets. These are required to mount rack mount equipments onto the cabinet

ANNEXURE-B

BASIC INFORMATION ABOUT THE BIDDER

1.	Name of the Bidder	
2.	Address with telephone/ Mobile No.	
3.	Type of the Organisation (whether sole Proprietorship/ Partnership/ Private Limited for Cooperative body/ Welfare Trust etc.) (attach proof)	
4.	Name, Address & Phone Number of the Proprietor/ Partners/ Directors of the Agency with whom communication (if required) shall be made	
5.	PAN Number (a copy of PAN Card must be enclosed)	
6.	Registration Number (a copy of Registration certificate must be enclosed):	
10.	Trade License number (a copy of supportive document must be enclosed)	
11.	Experience a. Total number of years engaged with the trade under Tender (please enclose copy of work order of previous activities made in past 2 years)	
12.	Particulars of bank draft of Rs.1,000/- (a) Bank Draft Number: (b) date: (c) Drawn on:	
13	Average Annual Turnover for last 3 years(Please enclose Audited P/L Account for 2013-14,2014-15 & 2015- 16)	2013-14: Rs. 2014-15: Rs. 2015-16 : Rs.

Declaration

I solemnly declare that the information furnished above by me are true in the best of my knowledge and if subsequently it is found wrong the University will have every right to reject my tender/ terminate the contract.

Further, I undertake that I must follow the terms and conditions as per Annexure- D thoroughly and in case of any non-observance, I shall be bound to accept the decision of the University of Kalyani.

**Signature of the Bidder
(With Seal)**

PRICE BID FORMAT (To be prepared in Letter Head/Official Pad of the bidder)

PART – I: PRICE BID FOR SUPPLY OF ITEMS

Sl. No	Item Description	Name of the manufacturing Company	Brand Name (if any)	Basic Cost (Rs.)	VAT/GST (if any) to be charged (Rs.)	Other Charges & duty(Rs.) (if any)	Discount offered(if any) (Rs.)	Total quoted price (Rs.)

Total Quoted Price under PART I :

PART – II: PRICE BID FOR LAYING & INSTALLATION

Details of Charges	UNIT	UNIT PRICE(Rs.)	QUANTITY	QUOTED AMOUNT (Rs.) (Inclusive all Taxes)
Caseing & Laying				
I/O Impacting				
Rack Installation				
Other Charges(if any, to be mentioned clearly)				

Total Quoted Price under PART II :

Gross Total Price Quoted for both Part – I & II :

**Signature of the Bidder
(With Seal)**

TERMS AND CONDITIONS

1. Bid Price:

- a) Bid must be submitted properly. Corrections, if any, shall be made by crossing out accompanied with initial of the bidder and re writing.
- b) All duties, taxes and other levies payable by the contractor under the contract shall be included in the total price but should be indicated separately in the price bid.
- c) The rate quoted by the bidder shall be fixed for the duration of the contract and shall not be subject to adjustment on any account.
- d) Bidder must mention the name of manufacturer and model number for each of the item.
- e) Bidder must quote for all the items. Partial quotation will not be accepted and tender will be rejected in that case.

2. Bid should be submitted in a sealed envelope after mentioning the Tender Reference Number & Date and shall be addressed to:

System-in-Charge,CIRM, University of Kalyani, Kalyani- 741235.

3. Evaluation of Quotation: The Purchaser will evaluate and compare the quotations determined to be substantially responsive.

4. Cost of Tender: Interested bidders may submit their bid with DD of Rs 1,000/- for items as per Annexure-A. DD will be drawn on any nationalized bank having service branch at Kalyani and be issued in favour of “University of Kalyani” payable at Kalyani.

5. Award of Contract: The purchaser will award the contract to the bidder whose quotation has been determined to be substantially responsive both technically and commercially. Purchaser reserves the right to reject any or all the tender, wholly or partly, without assigning any reason thereof and shall not be bound to accept the lowest bid.

6. All essential items including cables, connectors, etc. needed for the smooth operation/installation of the equipment shall be assumed to have been included in the quoted price/items if these have not been quoted separately.

7. Documents of previous experience for similar trade, at least for last 2 years, must be submitted along with the tender.

8. Bidder must have adequate documents relating to Trade License and updated returns for Income Tax, Professional Tax, Service Tax and VAT.

9. Bidder must submit audited Profit & Loss Account Statement for last 3 years ending 2013-14 ensuring the average annual turnover for the said three years not below Rs.50 lakh

10. Time Schedule: The supply must be completed within 21 days from the date of receipt of the purchase order.

11. Installation, testing and commissioning & integration of the components/ equipment in our existing KU-LAN of the purchased items is to be done by supplier at our premises. Charges on account of installation and commissioning, if any, should be quoted separately. Otherwise it will be treated that all the charges for the same is included in quoted price.

12. Vendor(s) supplying part/disjoint equipment should have the responsibility of integrating the same into the existing system/KULAN in consultation of other vendor(s) supplying part/disjoint equipments.
13. Standard OEM warranty for all the active components with up gradation facility.
14. The vendor should quote and be capable to supply all the necessary accessories for the equipment. However, the university has the right to procure a part or a whole of equipment.
15. **Warranty:** The manufacturer should give guarantee/warrantee for a period not less than one year. If the equipment installed at one location is subsequently shifted to another location, the warranty services shall continue to be provided at new location without any additional financial implications. Undertaking that during warranty period, if any defect in the supplied equipment is noticed by the Purchaser, the supplier or his representative shall rectify the defect or replace the defective item free of cost at the Purchaser's site at the earliest possible, latest within a period of 30 days of notification.

16. After Sales Service

- (i) The name and complete address of the company in India authorized by the manufacturer, to provide after sales service for the equipment should be mentioned. The appointed authorized service provider should be holding a valid certificate from the manufacturer to this effect.
 - (ii) The manufacturer should give an undertaking that after the warranty period, they shall provide spares and after sale service of the equipment in India for the normal life time of the equipment.
17. The bidder should have enough infrastructure as well as qualified personnel to maintain the highly sophisticated equipment as mentioned. ISO certificate (if any) should be enclosed with the tender documents.
 18. Validity of offer: A bidder should spell out in the tender that it shall remain valid for a minimum period of three months from the date of opening of the tender and during this period, the bidder shall not be entitled to revoke or cancel its offer.
 19. Place of delivery: **Office of CIRM, University of Kalyani, Kalyani, Nadia, West Bengal, India, PIN-741235.**
 20. **Payment be made after delivery of the items.**
 21. In case of any dispute, the University's decision will be treated as the final and conclusive. All legal actions are subject to Kolkata jurisdiction only.
 22. The tender documents shall be addressed and submitted to:
System-in-Charge, CIRM, University of Kalyani, Kalyani- 741235.
 23. Last date of receiving tender document 12th July, 2017 up to 4 p.m.
 24. No Tender Document will be received by the department after the above date irrespective of the mode of submission of tender document.

- 25. Quotation must be submitted through official pad of the bidder duly signed with seal and contact numbers of the respective person of the bidder concern.**
- 26. Quantity as stated hereinabove may subject to change at the time of issuing purchase order due to the fund crunch or for other valid reasons. University may place order partially phase wise depending on its budget.**
- 27. University may take decision about non-purchase of the said items even after selection of vendor due to its fund constraints.**
- 28. University of Kalyani reserves the right to relax any clause as stated hereinabove for Selection of suitable vender.**
- 29. Bidder must submit Undertaking as per Annexure- E in support of observance the Terms & Conditions as stated hereinabove.**

UNDERTAKING FOR OBSERVING TERMS & CONDITIONS REGARDING CAR HIRE CONTRACT (to be submitted by the bidder in their official pad/letter head duly signed with seal)

I/We, the undersigned, agree with the following Terms and Conditions:

1. That Bid will be valid at least for 3 months from the last date of submission of this tender.
2. That I/We will follow the guidelines framed by the University of Kalyani for Technical and Financial Bid Evaluation as well as the process of selection of vender.
3. That having examined the pre-qualification & other documents published in the N.I.T, I /we hereby submit all the necessary information and relevant documents for evaluation and in case of non-submission of any document, the decision taken by the University of Kalyani will be considered as Final.
4. That I have not ever been convicted of any offence making myself liable to be disqualified for entering into an Advertising Contract to any Govt. or Govt. undertaking Organization /Institution in the State of West Bengal or other State or States.
5. That no case is pending against me or against my firm in any criminal court of law in connection with any advertising activity or any contracts in relation thereto to the Govt. or Govt. undertaking Organization / Institution in the State of West Bengal or other State or States (If any case is pending, state the details).
6. That my concern has not yet been declared bankrupt by any banking or money lending agency duly licensed by neither RBI nor it has been considered doubtful by any Government concern so far as the solvency of the organisation is concerned.
7. That I/We declare that all the information and documents as we furnished and submitted are true and proper to the best of my knowledge and belief. I also declare that if any information subsequently found incorrect or false will it automatically render the tender submitted by me cancelled and make me liable for penal/legal action as per law of the country.
8. That after completion of all sorts of evaluation of this tendering process, If my concern is selected, I will agree to enter into a contract with the University for the period as to be determined by the University at the time of awarding contract to my/our organisation.
9. That I agree with all terms & conditions that have been mentioned in the NIT.

Signature of the Bidder with seal (if any)