



**NATIONAL INSTITUTE OF FASHION TECHNOLOGY,  
Bengaluru.**

OPEN TENDER DOCUMENT

FOR

**Supply and Installation of Wi-Fi and LAN**

TO

NIFT CAMPUS

**FORM No: Open Tender No.11/Academic Wi-Fi System/2018-19**

**Receipt No. & Date of Issue:** \_\_\_\_\_

Tender form issued to \_\_\_\_\_

Time schedule for tender process:

<b>Date of publication of tender notification</b>	<b>17.02.2019</b>
<b>Sale of tender document commences from</b>	<b>18.02.2019</b>
<b>Last date for Sale of tender document</b>	<b>11-03-2019 up to 2.00 hrs</b>
<b>Last date for receipt of duly filled in tenders</b>	<b>11-03-2019 up to 3.00 hrs</b>
<b>Date and time of the opening tenders</b>	<b>11-03-2019 up to 3.30 hrs</b>

**Note:** This tender document contains **15 pages** and bidders are requested to sign on all the pages and enclose according to technical / price bid. The Technical bid & the Price bid should be sealed by the bidder in separate covers duly subscribed & both these sealed covers are to be put in a bigger cover which should also be sealed & duly super scribed as **"Supply and Installation of Wi-Fi and LAN"**

**NIFT CAMPUS, C.A. Site No. 21, 16<sup>th</sup> Cross, 27<sup>th</sup> Main Road, Sector – I,  
H.S.R. Layout, Bengaluru – 560 102**

Phone: 91-80- 2255 2550 to 55 Fax no. 91 80 2255 2566

E-mail: [nift.bengaluru@nift.ac.in](mailto:nift.bengaluru@nift.ac.in),

Tender document link - <http://www.nift.ac.in/bengaluru/tenders>

## **PREAMBLE / INTRODUCTION**

National Institute of Fashion Technology (NIFT) is a premier educational institution set up under an Act of Parliament and functioning under the aegis of the Ministry of Textiles, Govt. of India. The Bengaluru Centre has been set up since August 1997 with undergraduate and postgraduate programmes.

## **TENDER NOTICE:**

NIFT invites sealed Tenders under **Two Bid systems for Supply and Installation of Wi-Fi System** to NIFT Bengaluru as per the quantity and specification mentioned in the price bid. The tender bids duly-filled in all respects enclosing necessary documents may be addressed to **The Director, NIFT, No. 21, 16<sup>th</sup> Cross Street, 27<sup>th</sup> Main Road, Sector – 1, HSR Layout, Bengaluru – 560 102** so as to reach on or before **3.00 PM, 11<sup>th</sup> March 2019** or the tender may be dropped in Tender Box.

## **MODE OF SUBMISSION**

**A.** Tenders should be addressed to the Director, NIFT Bangalore by designation only.

**B.** Tender should be submitted in the following by **two separate covers.**

**i) Technical Bid    ii) Price Bid**

The above mentioned two sealed envelopes should bear the name and complete postal address of the bidder. Sealed envelopes containing Technical Bid and Price Bid should be placed in a bigger envelop super-scribed **"Supply and Installation of Wi-Fi and LAN"**. This bigger envelop, bearing the name & complete postal address of the bidder.

Tenderers furnishing Technical Bid and Price Bid in a single cover / same cover will be summarily rejected.

**C(i)** Tender document can be submitted in person specified in the tender notice ie. on or before **03.00 pm on 11<sup>th</sup> March 2019**. Such tenders may be dropped in the **TENDER BOX** kept at the placed at 'A' Block of NIFT, Bengaluru Centre.

**National Institute of Fashion Technology**  
**CA Site No.21, 16<sup>th</sup> Cross, 27<sup>th</sup> Main Road, Sector-1,**  
**HSR Layout, Bengaluru – 560 102**

**C(ii)** Alternatively, the tenderer who prefers to submit the tender through post can dispatch the same through Registered Post or Courier so as to reach the above address on or before the due date and time specified in the Tender Notice. Tenders received after the due date and time, for what so ever reasons will not be considered and the Director, NIFT Bangalore, will not be liable or responsible for the same.

**C(iii)** Tender should be submitted in the prescribed Tender Document only.

**Technical Qualifying Criteria:**

The Firm should have all the necessary registrations of the Govt. under the Shops and Establishment Act, PAN Number, GST Registration (enclose the documents)

The cost of tender document is **Rs.590/-** (Non - refundable). The tender document can be obtained at NIFT, Bengaluru by paying the fees through Cash or Demand Draft/Banker's Cheque drawn in favour of NIFT payable at Bengaluru.

**No tender document fee, if downloaded from the website.**

Technical Bid should contain Earnest Money Deposit (EMD) of an amount of **Rs.1,75,000/-** in the form of bank Demand Draft / Pay Order in favour of NIFT, payable at Bengaluru. This Earnest Money Deposit (EMD) will not bear any interest. Firm should enclose Balance Sheet / IT Return for the latest year.

**The Tenderer should provide warranty/guarantee and Free Service for a period of minimum one year from the date of installation.**

**TENDER TERMS & CONDITIONS:**

The rate offered must be filled in the proforma of the tender form. Any correction should be initialed by the tenderer in the price bid attached with this document.

Tender Document fee is **Rs.590/-** per document. No tenderer shall be issued more than one tender form.

No tender document fee, if downloaded from the website. NIFT, website link - <http://www.nift.ac.in/bengaluru/tenders>

The rate quoted in the price bid must be inclusive of all taxes and F.O.R. NIFT Office premises and these rates will be valid for 60 days from the date of opening of tender document.

Last date of receipt of sealed tender documents is **3.00 pm on 11.03.2019.**

Tenderer shall enclose a demand draft/pay order of any Scheduled Bank/Axis Bank/ HDFC Bank/ IDBI Bank/ICICI Bank amount of **Rs.1,75,000/-** in favour of NIFT, payable at Bengaluru as the non-interest bearing Earnest Money Deposit. Tender document without EMD shall be rejected.

The EMD of unsuccessful bidders will be refunded within 15 working days of opening of price bid except lowest 2 bidders. Tenderers who satisfy the technical conditions stipulated in the tender document and who have enclosed all the documents / supplied materials required will alone be considered as qualified Tenderers after the technical evaluation. The tenders of such qualified Tenderers alone will be considered for "Opening the Price Bid in Envelope B". **For the items mentioned in Price Bid, the lowest price quoted is the criterion for selection.** However, NIFT reserves the right of placing the orders to any of the Tenderers.

The successful tenderer will have to deposit 5% to 10 % of the total bid amount as performance security deposit. Part of this amount will be adjusted against the EMD deposited by the tenderer along with the tender form. The balance amount will have to be deposited by the successful tenderer within 5 working days of the receipt of the Purchase Order by a Demand Draft in favour of NIFT, payable at Bengaluru at any branch of Scheduled Bank/Axis Bank/ HDFC Bank/ IDBI Bank/ICICI Bank failing which the Purchase Order will be treated as cancelled and the EMD amount will be liable to be forfeited. The successful bidder's Security Money will be retained till the supplier supplies the ordered quantity/quality and it will be returned to the successful bidder on receipt of performance security.

The Performance Security should remain valid for a period of sixty days beyond the date of completion of all contractual obligations of the supplier including warranty obligations.

Bid security will be refunded to the successful bidder on receipt performance security.

No tenderer will be allowed to withdraw the tender rates after opening of the tender. If any tenderer withdraws the rates the EMD amount deposited by him will be forfeited and he will be disqualified from participating in any future tender of the Institute.

Rates should be offered unconditionally and if rates are submitted with any condition the tender liable to be rejected.

If the tenderer fails to supply the ordered quantity within scheduled period, the Institute will have, right to purchase the ordered quantity, which the supplier could not supply within scheduled time limit from any other alternate sources and the contract will be liable to be terminated and the Security Deposit will be liable to be forfeited. The Institute will have the right to impose penalty for the delay of the supply of ordered quantity and to recover the excess amount the Institute has been forced to pay for purchase of material from the alternate sources from any dues payable to the supplier.

NIFT reserves the right to reject any or all tender documents without assigning any reason thereof.

The agency should enclose self-attested copies of GST registration and letter of allotment of PAN/PAN Card under the Income Tax Act failing which tender will be liable to be rejected. Tenderer will have to produce all these original documents at any time demanded by the Institute.

**Wi-Fi,LAN system** will be supplied and installed with minimum 1-year guarantee from the date of verification / installation & acceptance by NIFT.

The defective **Wi-Fi system** shall be replaced by the agency without any additional charge during guarantee period of supplied items. The replacement will have to be carried out within 7 days of the intimation being received from the Institute.

Payment of the supply will be released after verification and satisfactorily completion of order.

Tenderer must sign along with company seal on each and every page of the tender document as token of the acceptance of tender conditions.

If any malafide intention is observed by NIFT, the agency shall not be eligible for further tenders.

Tenderer must have to quote item wise rates, consolidated rates will not be considered and tender will be liable to be rejected.

NIFT Bengaluru reserves the right to change the quantity / upgrade the criteria / drop any item or part thereof / extension of delivery date at any time before placing the purchase order.

The successful bidder will have to **supply the Wi-Fi system ordered within 30 days** of the issuance of the purchase order, failing which the firm will have to bear the entire cost of the alternate arrangement or the fine as decided by the NIFT.

**Illustrated pamphlets containing all the Technical Details, Specification of the tendered items should be sent along with the tender. Failure to send detailed pamphlet, brochure, and drawing may result in the rejection of tender.**

**Warranty / Guarantee:** Tender should give minimum one-year warranty / guarantee and free service from the date of supply.

In the event of failure of the successful tenderer to supply and to deliver the IT-Items within the stipulated time, without prejudice to other remedies under the contract, a penalty equivalent to 0.5% (Half Percent) of the value of delayed goods will be levied per week up to a maximum of 5% of the contract value. If requested by the tenderer, it is the discretion of the Director, NIFT Bengaluru to grant extension of time with penalty/without penalty.

In case of any dispute raised by the supplier, a representation will be made only by the authorized representative of the supplier and the decision of the Director NIFT – Bengaluru will be binding on the supplier.

In case of any dispute the Jurisdiction of Court will be Bengaluru.

**Details of EMD (to be attached with the Tender Document):**

EMD Amount	Rs.1,75,000/-
In favour of & payable at	NIFT payable at Bengaluru.
DD / Pay Order No. & Date	
Drawn on (name of the Bank)	

**Last Date of issuing of Tender : up to 02.00 pm, 11.03.2019.**

**Last Date of Submission of Tender: on or before 03.00 pm 11.03.2019.**

**Note:**

Tenders not accompanied with above information & documents in support of the same may be summarily rejected.

**PART – I TECHNICAL BID**

Name of the Tenderer : \_\_\_\_\_

Address :  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Pin Code No.: \_\_\_\_\_

Tel. No. : \_\_\_\_\_

Mobile No. : \_\_\_\_\_

Fax No. : \_\_\_\_\_

Email. : \_\_\_\_\_

Status of the Company : \_\_\_\_\_

(Pls. Tick mark as applicable) : Proprietor/Partnership/Company

S.No.	Registration Under	Proof requires Yes / No	Page No.
1	Shop and Establishment		
2	PAN Card No.		
3	GST Registration No../ Sale Tax No.		
4	Annual turn Over		
5	Copy of IT return		
6	List of Clients		
7	This tender document contains <b>10 pages</b> and bidders are requested to sign on all the pages. The Technical bid & the Commercial bid should be sealed by the bidder in separate covers		

### **UNDERTAKING**

I hereby undertake that the information provided above and elsewhere in the tender is true and the tender is liable to rejection if the same is found to be false or the information is found to have been suppressed by me.

Further, we agree to provide minimum one year free service from the date of supply of IT-Items.

**Place:**

**Date:** **Signature with full name & Seal of the Tenderer**

**Mob:**



**PART – II PRICE BID**  
**Wi-Fi Systems-Items - Quantity**

Sl. No	Item required with specification	Required Qty.	Rate per Unit Rs.	Installation, transport, labour, civil work if any and other charges per unit	GST (%)	Grand Total Rs.
1	<b>RACK</b>	<b>8 Nos</b>				
2	<b>OFC CABLE</b>	<b>900 RMT</b>				
3	<b>OFC Termination Box LIU</b>	<b>9 Nos</b>				
4	<b>UTP Cable</b>	<b>4880 RMT</b>				
5	<b>OFC PATCH CARD</b>	<b>10 Nos</b>				
6	<b>Fibre Transceivers</b>	<b>10 Nos</b>				
7	<b>Network Outlet Box</b>	<b>70 Nos</b>				
8	<b>Network Jack Panel</b>	<b>8 Nos</b>				
9	<b>Network Patch Cord</b>	<b>125 Nos</b>				
10	<b>Old Network Setup Trouble Shooting Work</b>	<b>1 L/s</b>				
11	<b>POE Switch</b>	<b>7 Nos</b>				
12	<b>WIFI - License</b>	<b>60 Nos</b>				
13	<b>WIFI - ACCESS POINT</b>	<b>60 Nos</b>				

14	Structure Cabling	As per Annexure				
Grand Total						
Grand Total Rupees in words:						

**Note :** The installation, civil work and labour, will be paid on actuals.

The total amount mentioned above is inclusive of all tax and other charges as mentioned in annexure to supply and to install at NIFT Bangalore.

**Place:**

**Date:**

**Mob:**

**(Signature with full name & Seal of the Tenderer)**

**Annexure****Specification for the above Wi-Fi Items**

WiFi Network Systems - NIFT								
SI No	Provision of WFI - Active Network In NIFT Campus Bangalore		Qty		Supply Unit Price	Total Amount	Installation Unit Price	Total Amount
1	RACK	Supply Installation testing & commissioning of 9U Industrial Standard Wall Mount rack with front glass door lockable, Fans 90 Cfm 230 Vac, PDU Horizontal 15/5Amp with 6 Schokets, Cantilever Tray-1U, Horizontal PVC Cable Manager and Hardware front panel Mtg. including 3 years free comprehensive warranty period and cost of petty material required to complete the work upto the entire satisfaction of Engineer In Charge.	8	Nos		0		0
2	OFC CABLE	Supply Installation testing & commissioning of 6 Core SM OFC - Corrugated Steel tape Armored, Loose-tube, Gel-filled, 50/125 micron OS3 SM, HDPE Pipe Under Floor digging road cutting refilling Charges including 2 years free comprehensive warranty period and cost of petty material required to complete the work upto the entire satisfaction of Engineer In Charge.	900	RMT		0		0
3	OFC Termination Box LIU	Supply Installation testing & commissioning of Black, 12F, 1U, SC OS3, Loaded with, Splice tray, Couplers & 1.5 mtr Pigtails including cost with Splicing charges ,Providing & fixing, Splicing of SC Style Pigtail MM ,OTDR Testing & Documentation of Fiber including the cost of petty material required to complete the work upto the entire satisfaction of Engineer In Charge.	9	Nos		0		0

4	<b>UTP Cable</b>	Supply and Installation of CAT6 UTP 23 AWG cable in existing PVC conduit/PVC channel complete in all respect with all labour and material required to complete the job in all respect	4880	RMT		0		0
5	<b>OFC PATCH CARD</b>	Supply Installation testing & commissioning of SC-SC Style Single Mode 50/125 micron Duplex Patch Cord, OS3 - 3 Meter including 2 years free comprehensive warranty period and cost of petty material required to complete the work upto the entire satisfaction of Engineer In Charge	10	Nos		0		0
6	<b>Fibre Transceiver s</b>	Supply and installation of Single Mode Media Connectors 10/100/1000 Speed including 2 years free comprehensive warranty period and cost of petty material required to complete the work upto the entire satisfaction of Engineer In Charge	10	Nos		0		0
7	<b>Network Outlet Box</b>	Supply Installation testing & commissioning of SL Series Category 6 Modular Jacks, 1 Port British Style Shuttered Faceplate (3*3) PVC Back Box including 2 years free comprehensive warranty period and cost of petty material required to complete the work upto the entire satisfaction	70	Nos		0		0
8	<b>Network Jack Panel</b>	Supply Installation testing & commissioning of 24Port Fully loaded Straight Jack pannel, including 3 years free comprehensive warranty period and cost of petty material required to complete the work upto the entire satisfaction of Engineer In Charge	8	Nos		0		0
9	<b>Network Patch Cord</b>	Supply Installation testing & commissioning of Category 6 Patch Cord 4feet, including 2 years free comprehensive warranty period and cost of petty material required to complete the work upto the entire satisfaction of Engineer In Charge.	125	Nos		0		0

10	<b>Old Network Setup Trouble Shooting Work</b>	Supply and Installation of Existing Network point testing point treble shuoting Required Cat-6 UTP information outlets face plate supply cable drssing work casing capping supply charges 100x100 PVC cable Raceways, Cable Tyes Ferulling labling in all Campus Damaged Information outlets, Face Plates, Jack panels Cable Should Change	1	L/s		0		0
11	<b>POE Switch</b>	Supply Installation testing & commissioning of 24 Port POE Access 10/100/1000 speed Support Switch with the 2 years free comprehensive warranty period and 24x7 direct OEM TAC Support including cost of petty material required to complete the work upto the entire satisfaction of Engineer In Charge having following technical specifications :	7	Nos		0		0
12	<b>WIFI - License</b>	Supply Installation testing & commissioning of AP Management License with 2 years comprehensive warranty period including cost of petty material required to complete the work upto the entire satisfaction of Engineer In Charge.	60	Nos		0		0
13	<b>WIFI - ACCESS POINT</b>	Supply Installation testing & commissioning of Indoor Access Point with secure Mounting Bracket and with 2 Year free comprehensive warranty period including cost of petty material required to complete the work upto the entire satisfaction of Engineer In Charge having following technical specifications :( Asper below All Mounting accessories Included)	60	Nos		0		0
<i>The Access Point should have 2 auto MDX, auto-sensing 10/100/1000 Mbps RJ-45, with POE support on one port, and one USB port. AP should be IOT ready from day 1.</i>								
<i>The APs should support the IEEE 802.11a, 802.11b, 802.11g , 802.11n &amp; 802.11ac Wave2 standards. It should support minimum 3 MU-MIMO clients simalteniously.</i>								
<i>The AP must support Dual Band Concurrent Operation - 2.4GHz and 5GHz.</i>								

	<i>Should support 3 spatial streams on both radio bands for an aggregate capacity of 1.75 Gbps including 450Mbps on 2.4Ghz.</i>
	<i>The AP shall have a Minimum Rx Sensitivity of -100 dBm.</i>
	<i>The access points should be centrally managed. In some small isolated environments the AP should be able to function as a full-fledged stand-alone access point without the requirement of a controller.</i>
	<i>Security mechanisms should be in place to protect the communication between the Access Point controller and the Access Points.</i>
	<i>Since most radio interference come from the WLAN network itself the vendor should specify what mechanisms such as beam steering/ adaptive antenna technology/ beamforming are available in combination to focus the energy on the destination STA and minimize radio interference with the surrounding of the AP. The vendor should specify if the activation of such feature is still compatible with 802.11n spatial multiplexing.</i>
	<i>Since the WLAN network will be using an unlicensed band the solution should have mechanisms that reduce the impact of interference generated by other radio equipment operating in the same band.</i>
	<i>The access point should be able to detect clients that have dual band capability and automatically steer those client to use the 5GHz band instead of the 2.4GHz band.</i>
	<i>The antennas to be dual polarised and should be integrated inside the access point enclosure to minimize damage and create a low profile unit that does not stand out visually.</i>
	<i>The access point should support 802.1q VLAN tagging</i>
	<i>The access point should support WPA2 enterprise authentication and AES/CCMP encryption. AP should support Authentication via 802.1X and Active Directory.</i>
	<i>Implement Wi-Fi alliance standards WMM, 802.11d, 802.11h and 802.11e</i>
	<i>The Access Point should provide for concurrent support for high definition IP Video, Voice and Data application without needing any configuration. This feature should be demonstratable.</i>
	<i>Support RF auto-channel selection by the following methods: a) measuring energy levels on the channel; b) monitoring for 802.11 signal structures and; (c) detecting radar pulses. Other similar forms of smart selection shall also be accepted.</i>
	<i>Channel selection based on measuring throughput capacity in real time and switching to another channel should the capacity fall below the statistical average of all channels without using background scanning as a method.</i>
	<i>AP should provide minimum 23 dBm Radio output power for 2.4Ghz and 5Ghz both. (EIRP should be limited as per govt regulation for indoor AP's).</i>
	<i>Should support Transmit power tuning in 1dB increments in order to reduce interference and RF hazards .</i>

	<i>Device antenna gain (integrated) must be at least 3dBi and should provide automatic interference rejection of about 10dB.</i>						
	<i>Upto 16 BSSIDs per AP for multiple differentiated user services (e.g. voice).</i>						
	<i>Should support upto 500 clients per AP.</i>						
	<i>Should support IPv4 and IPv6 from day one.</i>						
	<i>The access point should support following security mechanism: WEP, WPA-PSK, WPA-TKIP, WPA2 AES, 802.11i.</i>						
	<i>System should support Authentication via 802.1X, local authentication database, support for RADIUS and Active Directory.</i>						
	<i>Mechanism for physical device locking using padlock /Kensington lock / equivalent.</i>						
	<i>Operating Temperature: 0°C - 40°C, Operating Humidity: upto 95% non-condensing.</i>						
	<i>Should be UL 2043 plenum rated and comply to WEEE/RoHS.</i>						
	<i>Should be EN 60601-1-2 Medical compliant.</i>						
	<i>Should be WPC approved; ETA certificate to be enclosed.</i>						
<b>14</b>	<b>Accessories for Network Cable Routing</b>	Supply and Installation of 1inch and 2inch PVC pipe 2mm thick Casing and capping, Flexible pipe with required screws, clamps cable ties tapes accessories Wall cutting chipping plastering Repointing charges included (Required Above all Network Cable Routing)	<b>1</b>	L/s		<b>0</b>	<b>0</b>

**Note - If any cable / casing / Civil / Electrical work required, the same will be paid on actuals.**

**Bill should be calculated based on actual quantity used.**