



# NATIONAL INSTITUTE OF TECHNOLOGY, DURGAPUR

Department- Information Technology

MAHATMA GANDHI AVENUE  
DURGAPUR –713 209, WEST BENGAL, INDIA

## TENDER NOTICE

**BID REFERENC:NITD/HOSTEL/WiFi/Feb/2017/01**

**Date: 20.02.2017**

Contact: +919434788094/9434788126

Email: suvamoy.nitdgp@gmail.com

rajat.mahapatra@ece.nitdgp.ac.in

**Bid Submission Closing Date and Time: 20.03.2017, 11:30AM**

**Date of Techno-Commercial Opening: 20.03.2017, Time: 12 Noon**

**Date of Price Bid Opening: 24.03.2017, Time: 12 Noon**

**Quotation in Sealed Cover super scribed the Tender No. & Date, must reach within due date**

Sealed quotation is invited from experienced agencies for the work of installing Wireless Network in the Following Hostels of National Institute of Technology Durgapur:

1. Hall-1
2. Hall-3
3. Hall-9
4. Hall-11

Your submission must include two separate envelopes

1) **Technical Bid:** Must contains

a. **The design and layout plan along with the Table-1 in Annexure-II.**

b. Description of the items with data sheet.

c. Authorization certificates (if any).

d. Credential report like; work order of similar type of work.

e. Self-attested valid VAT Certificate, PAN card, Sales Tax registration certificate and any other necessary certificates required to execute the work.

2) **Price Bid:** Containing the number of items, unit price inclusive tax, installation charge etc. The format is as per **Annexure-I**.

The bidders are requested to follow the guideline as below:

### 1. Price Bid:

- a. The contract shall be for the full quantity as described in **Annexure-II & III**. Corrections, if any, shall be made by crossing out, initialing, dating and rewriting.
- b. The rates quoted by the bidder shall be fixed for the duration of the contract and shall not be subject to adjustment on any account.
- c. The bid price must be quoted in **Indian Rupees**.

### 2. Validity of Quotation:

- a. Quotation shall remain valid for a period of **90 days** after the deadline date specified for submission.

### 3. Bid Evaluation:

- a. **A meeting will be scheduled prior to the techno commercial opening.**
- b. **The Techno-Commercial bid-opening will be scheduled prior to the opening of the price bid.**
- c. **The price bid will be opened on the scheduled date. NIT Durgapur shall evaluate and compare the quotations which will be substantially responsive i.e.**
  - i. Qualified in the Techno-Commercial opening.
  - ii. Properly signed.
  - iii. Properly formatted and

iv. Conforms to the terms and conditions.

**4. Award of Contract:**

- a. NIT Durgapur will award the contract to the bidder whose quotation has been determined to be substantially responsive, commercially and technologically acceptable and who has offered the lowest evaluated quotation price.
- b. Notwithstanding the above, NIT Durgapur reserves the right to accept or reject any quotations and to cancel the bidding process and reject all quotations at any time prior to the award of contract.
- c. The bidder whose bid is accepted will be notified of the award of contract by NIT Durgapur prior to expiration of the quotation validity period. The terms of the accepted offer shall be incorporated in the purchase order.

**5. Description of the Work:**

- a. The brief description of the work and users statistic is available in **Annexure-II**.
- b. The specification of the Items is available in **Annexure-III**.
- c. Bidders are requested to visit the respective Halls prior to the PreBid meeting.

**6. Delivery shall be made at the respective Halls of NIT, Durgapur.**

- 7. Payment shall be made immediately within 30 days after satisfactory installation, commissioning and acceptance of the good.**
- 8. Comprehensive onsite warranty shall be applicable to the supplied goods for a period of at least 12 months from the date of installation.**
- 9. The successful bidder must submit before the release of payment, a valid bank guarantee on any nationalized bank of 5% of the order value towards Performance Security during the warranty period. Else, 95% of the payment will be released retaining 5% of the order value towards Performance Security during the warranty period will be blocked.**

**10. Liquidated Damage** will be applicable at the rate of 2.5% per month. NIT Durgapur has the right to cancel the purchase order when LD accumulates to 10%.

**11. A bank draft or bank guarantee worth RS: 35,000/- (Thirty Five Thousand) payable to "NIT Durgapur" at Durgapur will be enclosed with the bid by the bidder towards the Earnest Money Deposit (EMD). The EMD shall remain valid for a period of 90 days.**

**12. Settlement of any dispute will be made under the jurisdiction of Durgapur Court.**

**13. The bid document must be signed and sealed and enclosed with the bid as a token of acceptance of all terms and conditions in the bid document by the bidder.**

**14. The items must be delivered within 60 days from the date of placement of purchase order at the respective department.**

**15. Comprehensive onsite warranty for at least 12 months from the date of satisfactory installation shall be applicable for offered goods.**

**16. All other terms and conditions of GFR 2005 of the Government of India will be application.**

**17. Installation / commissioning / demonstration requirement:**

- a. Installation, commissioning, complete demonstration and successful running should be done at respective Halls of NIT Durgapur.

Looking forward to receiving your quotations, and thanks you for your interest in this work. **The bid may be submitted to the tender box in the Dept of ECE, NIT Durgapur.**



**Dr. Rajat Mahapatra**  
Chairman Hostel WiFi Committee  
Dept. of ECE, NIT Durgapur,  
West Bengal, India



**Dr. Suvamoy Changder**  
Convener Hostel WiFi Committee  
Dept. of CA, NIT Durgapur,  
West Bengal. India

**PRICE BID**

Sl.No.	Item	Unit Price (inclusive TAX)	Quantity				Total Price
			Hall-1	Hall-3	Hall-9	Hall-11	
<u>1</u>	WiFi Access Point						
<u>2</u>	POE Switch (24 Port)						
<u>3</u>	4U Rack						
<u>4</u>	CAT 6 Cable (B0x)						
<u>5</u>	Wireless Hardware Controller						
<u>6</u>	Cable Laying (including PVC, Flex pipe, RJ connectors, other accessories)						
<u>7</u>	Installation Charge						
<u>8</u>	Maintenance One year Compulsory (if inclusive, put N/A)						
<u>9</u>	Electric Points (if required, specify)						
<u>10</u>	Metal Casing (optional)						
<u>11</u>	Additional maintenance of 2 years (Optional)						

Maintenance: Includes the warranty of the active items and maintenance of the passive components.



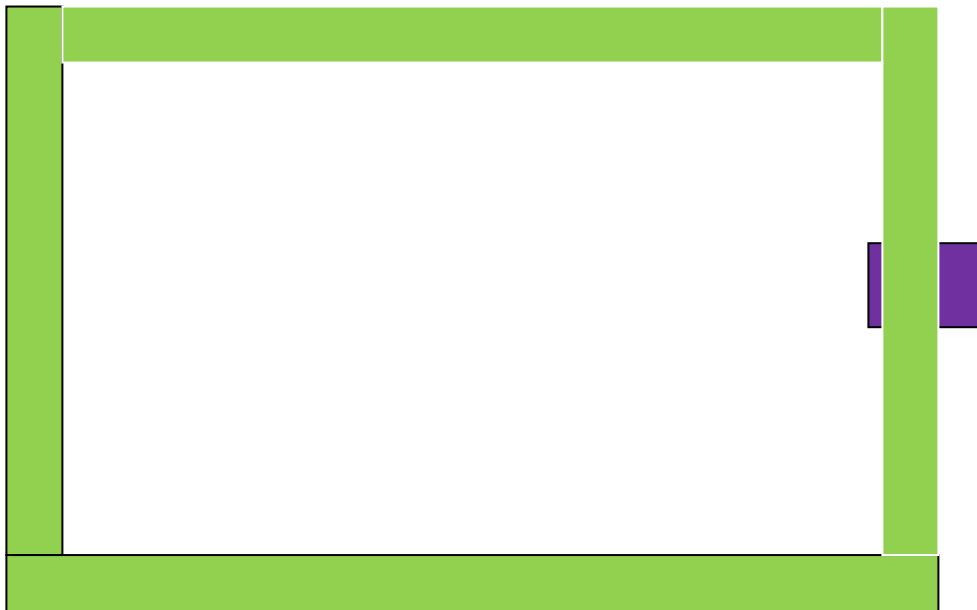

Table 1: Estimated Passive Items (Tentative)

Sl.No.	Name of the Building	Location	No. of room	No of students	Access Point	24 Port Ethernet Switch (Unmanaged) <sup>1</sup>	POE Switch (24 ports)	4 U RACK	Wireless Hardware Controller		
1	Hall 1	Ground Floor									
		Block 1	8	32	2	Available in hostel			2		
		Block 2	16	64	4						
		Block 3	16	64	4						
		1st Floor									
		Block 1	14	56	4						
		Block 2	16	64	4						
		Block 3	16	64	4						
		2nd Floor									
		Block 1	14	56	4						
		Block 2	16	64	4						
		Block 3	16	64	4						
		3rd Floor									
		Block 3	16	64	4						
2	Hall 3	Ground Floor									
		Block 1	8	32	2	Available in hostel			2		
		Block 2	16	64	4						
		1st Floor									
		Block 1	14	56	4						
		Block 2	16	64	4						
		2nd Floor									
		Block 1	14	56	4						
Block 2	16	64	4								
3	Hall 9	Ground Floor	31	124	8	1+1 (Optional)			2		
		1st Floor	47	188	8						
		2nd Floor	31	124	8						
		3rd Floor	31	124	8						
4	Hall 11	Ground Floor	38	152	8	1			2		
		1st Floor	39	156	8						
		2nd Floor	39	156	8						
		3rd Floor	39	156	8						
		4th Floor	39	156	8(Optional)						
		5th Floor	39	156	8(Optional)						
Grand Total			605	2420	124+30(Optional)*	2+1 (Optional)			8		

**\*16 APs in Hall-1 and 14 APs in Hall-9 already exist. Therefore at least 94 APs will be procured.**

**<sup>1</sup> In the 7<sup>th</sup> column, the 24 port ethernet switches may be unmanaged GB switch with two numbers of trans-receivers each.**

## Hall – 11 Meghnad Saha



**Ground Floor:- 38 Rooms**

**1<sup>st</sup> Floor :- 39 Rooms**

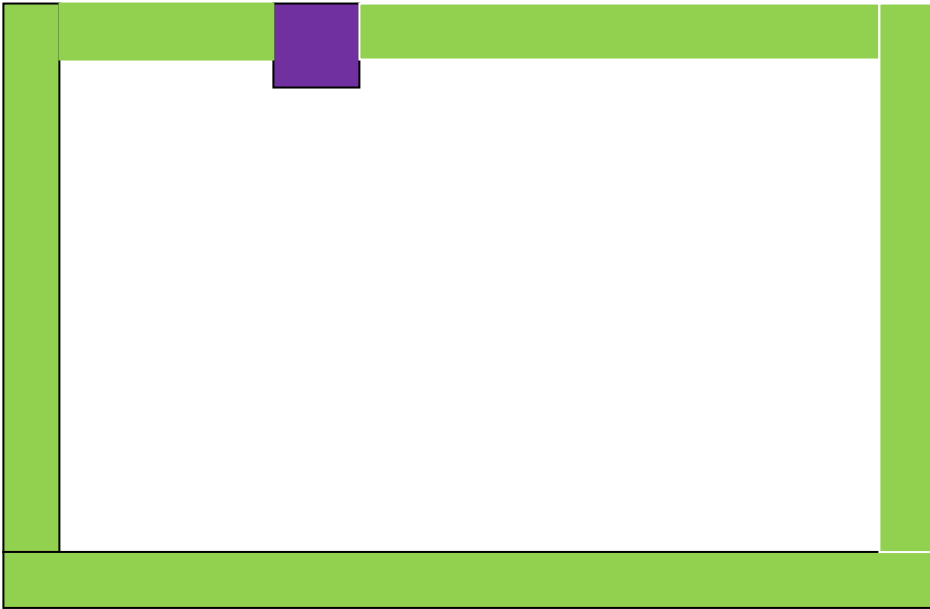
**2<sup>nd</sup> Floor :- 39 Rooms**

**3<sup>rd</sup> Floor :- 39 Rooms**

*L. M.*

*Sehangda*

## Hall – 9 S. N. Bose Hall



**Ground Floor: - 31 Rooms@ 4 Students, 5 Aps exist**

**1<sup>st</sup> Floor: - 47 Rooms@ 4 Students, 3 APs exist**

**2<sup>nd</sup> Floor: - 31 Rooms@ 4 Students, 3 APs exist**

**3<sup>rd</sup> Floor: - 31 Rooms@ 4 Students, 3 APs exist**

*R. M.*

*Sehangda.*

HALL-3 Tagore HALL

**Block --- 1**

Total wings = 3 (8 rooms@wings)

Total wings = 2 (6 rooms@wings) + Common Room



**Block --- 2**

Total Wings = 3 (8 rooms@wings)

Total Wings = 3 (8 rooms@wings)



*R. M.*

*Sehangde*

# HALL - 1 Netaji Subhash Hall

## BLOCK-1

Common room

Total wings = 3 (8 rooms@wings)



## BLOCK-2

Total wings = 3 (8 rooms@wings)

Total wings = 3 (8 rooms@wings)



## BLOCK-3

Total wings = 4 (8 rooms, 2Aps exist@wings)

Total wings = 4 (8 rooms, 2Aps exist@wings)



*R. M.*

*Sehangch.*



Technical -Specifications	
Item	Particulars
Wireless Accesses Point	<ul style="list-style-type: none"> <li>• Up to 10x the coverage and 15x the speed of 802.11g networks or better</li> <li>• Backward compatible to 802.11g devices while simultaneously providing faster wireless or better networking for 802.11n devices</li> <li>• Security features include WPA, WPA2, rogue AP detection and 802.</li> <li>• Can run on 802.3af PoE for easy placement in optimal locations- desktop, wall- mount or ceiling</li> <li>• Comprehensive SNMP functionality for advanced network management</li> <li>• Mounting kit provides for wall or ceiling placements</li> <li>• One (1) 10/100/1000BASE-T Gigabit Ethernet (RJ-45) port with Auto Uplink™ (Auto MDI-X) with IEEE 802.3af Power over Ethernet (PoE) support or better</li> </ul> <p><b>Note:- 12 Nos. of Wireless Access Point out of 94 must be compatible with UAP -3 ( EU ) uni- fi Wireless Access Point.</b></p>
Wireless Hardware Controller	<ul style="list-style-type: none"> <li>• Support model A/B/G/N,</li> <li>• Maximum AP Support 50 per controller , Default 20 AP or better,</li> <li>• Maximum Security Profiles ( SSID ) per profile group 8 per radio (2.4 GHz; 5 GHz) or better integrated DHCP server</li> <li>• Multiple DHCP server/pool can be added for different VLANs (up to 64)</li> <li>• AP load monitoring and overload prevention</li> <li>• Client redirection to lightly loaded neighboring APs</li> <li>• Seamless rapid mobility across VLAN and subnets</li> <li>• Includes 802.11i pre-auth and fast roaming</li> <li>• Fast roaming support across L2, and L3 for video, audio and voice over wireless client</li> <li>• WMM power save helps conserve battery power in small devices such as phones, laptops, PDAs, and audio players using IEEE® 802.11e mechanisms</li> <li>• Network usage statistics display plots of average received/transmitted network traffic per managed access point. Three different plots show Ethernet, Wireless 802.11 b/bg/ng and 802.11 a/na mode traffic separately</li> <li>• Switch 4-port 10/100/1000</li> <li>• 1 port for USB storage, More floor heat maps, Extended statistics history</li> </ul> <p><b>Note:- 2 Nos of Wireless Hardware Controller out of 8 must be compatible with UAP -3 ( EU ) uni- fi Wireless Access Point</b></p>
Network Enclosure	<ul style="list-style-type: none"> <li>• 4 U RACK Size : ( Height – 258 MM , Usable : 04U Width – 550MM , Usable: 19” , Depth –400MM , Usable – 350mm )</li> <li>• Construction : Welded</li> <li>• Front Door : Lockable Through Ended Glass Door</li> <li>• Basic Frame : Steel</li> <li>• Equipment Mounting : DIN Standard Slots</li> <li>• Mounting Angle : 19” Mounting Angle made of formed Steel</li> <li>• Standard Finish : Powder Coated</li> <li>• Static Load : Min 40 KGS or Higher</li> <li>• Rack Standard : Confirms to DIN 41494 or equivalent standard</li> </ul>
POE Switch	<p>POE Switch Speed 10/100/1000, No of Ports: 24 with 1000 BASE-T, 1000 BASE-T POE and CoS enabled.</p> <p>Bandwidth : 3.2 Gbps or Better. Standard dimension such that easily fit in the rack.</p>
Network Switch (un managed)	<ul style="list-style-type: none"> <li>• 24-port 10/100BASE Ethernet Switch with RJ-45 connectors Supports</li> <li>• Auto-negotiation of speed and duplex modes for each port Supports</li> <li>• Auto-MDI/MDI-X on each port,</li> <li>• Wire-speed reception and transmission Store-and-Forward switching</li> <li>• method Integrated address Look-Up Engine,</li> <li>• supports 8K MAC addresses</li> <li>• Supports 2.5Mbits RAM for data buffering</li> <li>• Broadcast storm protection</li> <li>• IEEE 802.3x flow control for full-duplex Back pressure flow control for Half-duplex</li> </ul>
UTP Cable	CAT-06 UTP Cable (Pure Copper) for Networking (Make- Digilink or equivalent)
Cable Laying Changes	Cable laying with PVC Pipe with ISO Certification , Flexi pipe , RJ Connectors and other Networking accessories as per the requirement, D-type metal saddle
Electric Points	With copper wiring, proper casing, standard ISI Plug and switch.
Installation Charges	Installation and commissioning charges for Switches , AP , WLL Hardware Controller and other hardware device
Metal Casing	Metal grid casing for the protection of the passive devices (Access point) from theft or damage