



INDRAPRASTHA INSTITUTE *of*
INFORMATION TECHNOLOGY
DELHI

Tender for Supply and Installation of Wireless Access Points & Data networking work for IIITD AT OKHLA PHASE-III, NEW DELHI-110020

(IIITD/IT/NetworkingEquipments/05/2023-24)

INVITATION FOR BIDS

Indraprastha Institute of Information Technology -Delhi (IIITD), a State University created by an Act of Govt. of NCT of Delhi, invites sealed bids for **Tender for Supply and Installation of Wireless Access Points & Data networking** (as per specifications mentioned under Scope of Work below) for its campus at Okhla Phase-III New Delhi-110020 .

1. An amount of Rs.1,00,000/- (Rupees one lakh only) towards earnest money (EMD) must be deposited in the form of demand draft in favour of "IIIT-Delhi Collections" account, payable at New Delhi. No interest will be paid on the earnest money deposited by the bidder. Tender Document without earnest money will be summarily rejected. The EMD fee is exempted for MSMEs/NSIC registered suppliers (Certificate to be submitted for exemption).
2. The tender document can be downloaded from the Institute's web-site , may please deposit non-refundable Tender Document Fee of Rs.1,000/-+GST extra i.e.(Rs. 1,180/-) (Rupees One Thousand one Hundred Eighty only) in the form of Demand draft drawn in favour of IIIT-Delhi Collections", payable at New Delhi or may deposit Rs.1,180/-with the F&A division of the Institute and enclose the receipt with the filled up tender document. The tender fee is exempted for MSMEs/NSIC registered suppliers (Certificate to be submitted for exemption).
3. The last date for submission of bid is 30th May, 2023 up to 3:00 PM. The Technical bids shall be opened on the same day i.e. 30th May, 2023 up to 3.30. The Tender Document should be addressed to:

Registrar,

**Indraprastha Institute of Information Technology-Delhi Okhla Phase-III
(Behind Govind Puri Metro Station) New Delhi-110020.**

The document may be deposited in the Tender Box kept in the Store & Purchase department at the Room no. A 107, First Floor, Old Academic Block of the Institute. Bids received after 3:00 PM will not be accepted or considered under any circumstances.

Bidding Procedure:

1. Bids are invited in Two Bids System i.e. (1) Technical and (2) Financial.
Technical and Financial bids should be sealed separately and enclosed in a sealed envelope clearly indicating separately Technical Bid for "**Tender for Supply and Installation of Wireless Access Points & Data networking**" and Financial Bid for "**Tender for Supply and Installation of Wireless Access Points & Data networking**" addressed to Registrar IIIT-Delhi, Okhla Industrial Area Phase-III, New Delhi-110020.
2. Sealed quotations shall be received not later than 3.00 P.M. on 30th May, 2023. No bids will be accepted after this date & time under any circumstances. The Institute will not be responsible for any postal/courier delay and also for reasons beyond control of the Institute.
3. Technical bids must contain the EMD for specified amount, along with complete technical details as desired by this tender. Technical bids of all the bidders will be opened on pre scheduled date, time & venue. Technical bids without EMD will be summarily rejected. The financial bid will be opened after evaluation of the technical bid. Financial bid of only those meeting the requirement of the Institute will be opened and no representation in this regard will be entertained. The date, time of opening of financial bid will be communicated later.

Scope of Work

S.N.	Item Name	Quantity
1	Arista Wi-Fi Access point (AP-C230)	212
2	Arista Wi-Fi Access point (AP-O235)	8
3	Data points for Wi-Fi (cabling work)	200

Note- All hardware, software & Licenses warranty & support should be for minimum 60 months

Technical Specifications (Supply & Installation)

1: Indoor Wi-Fi Access Point (Qty-212)

S.No.	Access Point Specification	Compliance (Yes/No)
1	Wi-Fi AP devices and the solution must support the following protocols: IEEE 802.11a/b/g, IEEE 802.11n, IEEE 802.11ac (WAVE 2), IEEE 802.11ax, 802.11i, 802.11 r/k/v.	
2	The Access Point should support BLE radio	
3	Should have at least 1 x 100/1000/2500/5000 interface RJ45/SFP interface.	
4	Proposed AP must support POE+ i.e. 802.at to power up the AP with full functionality and have capability to work with reduced functionality on PoE i.e 802.af.	
5	Proposed AP must support minimum 0.6 Gbps on 2.4 GHz radio and 2.4 Gbps on 5GHz radio.	
6	The AP shall Support 4x4:4 on 5GHz and 2x2:2 on 2.4GHz.	
7	AP Should support following WiFi 6 Features from day 1: 1. UL & DL MU-MIMO 2. UL & DL OFDMA 3. Target Wake Time 4. BSS Coloring	
8	The AP must support the following authentication methods: WPA/WPA2-AES, PSK, authentication and AES encryption and 802.1x/EAP and unauthenticated (open) mode, Radius CoA.	
9	AP must support Tri-radio (3 or more radios) configuration with 2 radios for Wi-Fi Access (2.4GHz and 5Ghz radio)and 3rd Dual band radio for scanning .	
10	The device must be able to provide Wi-Fi access with 24/7 wireless intrusion prevention (WIPS) both operating simultaneously.	
11	WIPS,WIDS, RRM, WiFi functionality should continue to work even when link between AP and controller/management server goes down	
12	Proposed AP must support minimum transmit power of 23dbm on both 2.4 and 5GHz radio.	
13	AP Should support web-based management GUI as well as CLI for configuration, monitoring and reports.	
14	Support Wall mounting & ceiling mount options with included accessories from day 1	
15	AP should be WiFi Alliance certified. Certificates need to be provided at a time of bid.	

16	WPA3 Enterprise with 192 bit encryption	
17	The AP must Support WPA3, WPA3 Transition Mode, OWE and OWE transition Mode	
18	Wi-Fi APs and the system should have ability to set SSIDs as bridge or NAT.	
19	AP shall support 20/40/80/160 MHz channel width in 5GHz band.	
20	AP shall support 20/40 MHz channel width in 2.4GHz band.	
21	Proposed AP must have antenna gain of minimum 3 dBi for both 2.4 GHz and 5 GHz bands.	
22	AP must support STBC	
23	Proposed Access point should support self healing Mesh technology	
24	The AP shall support application visibility, traffic shaping, QoS per SSID.	
25	AP should be able to tunnel traffic to remote location using protocols like VxLAN/EoGRE/IPSec or equivalent.	
26	RoHS complaint and UL 2043	
27	APs shall be compliant with all applicable national regulations.	
28	Proposed AP / Solution should support Layer3, Layer4 and Application firewall.	
29	Mechanism for physical device locking using padlock / Kensington lock or equivalent.	
30	Proposed AP should support Rx sensitivity of -98dbm	
31	The AP shall support operating temperature of 0° C to +40° C.	
32	All licences should be provided with the devices for the mentioned features. The licences should be perpetual in nature of should be provided for 7yr on day-1 in case of subscription-based licencing. Hardware warranty 60 months.	

Note- For any warranty replacement any charges like Custom duty etc. will be borne by the bidder/vendor. We need next business day hardware replacement.

2: Outdoor Wifi Access Point (Qty-8)

S.No.	Access Point Specification	Compliance (Yes/No)
1	Wi-Fi AP devices and the solution must support the following protocols: IEEE 802.11a/b/g, IEEE 802.11n, IEEE 802.11ac (WAVE 2), IEEE 802.11ax, 802.11i, 802.11 r/k/v.	
2	The Access Point should support BLE radio	
3	Should have at least 1 x 100/1000/2500/5000 interface RJ45/SFP interface.	
4	Proposed AP must support POE+ i.e. 802.at to power up the AP with full functionality and have capability to work with reduced functionality on PoE i.e 802.af.	
5	Proposed AP must support minimum 0.6 Gbps on 2.4 GHz radio and 2.4 Gbps on 5GHz radio.	
6	The AP shall Support 4x4:4 on 5GHz and 2x2:2 on 2.4GHz.	
7	AP Should support following WiFi 6 Features from day 1: 1. UL & DL MU-MIMO 2. UL & DL OFDMA 3. Target Wake Time 4. BSS Coloring	

8	The AP must support the following authentication methods: WPA/WPA2-AES, PSK, authentication and AES encryption and 802.1x/EAP and unauthenticated (open) mode, Radius CoA.	
9	AP must support Tri-radio (3 or more radios) configuration with 2 radios for Wi-Fi Access (2.4GHz and 5Ghz radio)and 3rd Dual band radio for scanning .	
10	The device must be able to provide Wi-Fi access with 24/7 wireless intrusion prevention (WIPS) both operating simultaneously.	
11	WIPS,WIDS, RRM, WiFi functionality should continue to work even when link between AP and controller/management server goes down	
12	Proposed AP must support minimum transmit power of 23dbm on both 2.4 and 5GHz radio.	
13	AP Should support web-based management GUI as well as CLI for configuration, monitoring and reports.	
14	Support Wall mounting & ceiling mount options with included accessories from day 1	
15	AP should be WiFi Alliance certified. Certificates need to be provided at a time of bid.	
16	WPA3 Enterprise with 192 bit encryption	
17	The AP must Support WPA3, WPA3 Transition Mode, OWE and OWE transition Mode	
18	Wi-Fi APs and the system should have ability to set SSIDs as bridge or NAT.	
19	AP shall support 20/40/80/160 MHz channel width in 5GHz band.	
20	AP shall support 20/40 MHz channel width in 2.4GHz band.	
21	Proposed AP must have antenna gain of minimum 3 dBi for both 2.4 GHz and 5 GHz bands.	
22	AP must support STBC	
23	Proposed Access point should support self healing Mesh technology	
24	The AP shall support application visibility, traffic shaping, QoS per SSID.	
25	AP should be able to tunnel traffic to remote location using protocols like VxLAN/EoGRE/IPSec or equivalent.	
26	RoHS complaint and UL 2043	
27	APs shall be compliant with all applicable national regulations.	
28	Proposed AP / Solution should support Layer3, Layer4 and Application firewall.	
29	Proposed AP should support Rx sensitivity of -98dbm	
30	The AP shall support operating temperature of -20° C to +65° C.	
31	The AP shall support IP67 weatherproofing	
32	All licences should be provided with the devices for the mentioned features. The licences should be perpetual in nature of should be provided for 7yr on day-1 in case of subscription-based licencing. Hardware warranty 60 months.	

Note- For any warranty replacement any charges like Custom duty etc. will be borne by the bidder/vendor. We need next business day hardware replacement.

3: Data Points for Wifi (Cabling works) (Qty-200)

For newly installed APs bidder need to do the passive cabling from the AP location to the rack for terminating the connection to switch through jack panel (I/O punch with face plate & box installation). The quantities shown are tentative and final payment to the selected bidder for the same will be made based on actual measurement of work done after completion of work. Data Points required in Different buildings & floors in the campus.

Bidder are advised to inspect and examine the site and its surrounding at their own cost and satisfy themselves before submitting their tenders as to the nature of the ground and sub-soil (so far as is practicable), the form and nature of the site, means of access to the site, the accommodation they may require and in general shall themselves obtain all necessary information as to risk, contingencies and other circumstances which may influence or affect their tender. A tenderer shall be deemed to have full knowledge of the site whether he inspects it or not and no extra charges consequent on any misunderstanding or otherwise shall be allowed. The tenderer shall be responsible for arranging and maintaining at own cost all materials, tools & facilities for workers and all other services required for executing the work unless otherwise specifically provided for in the contract documents. Submission of a tender by a tenderer implies that he has read this notice and all other contract documents and has made himself aware of the scope and specification of the work to be done, local condition and other factors having a bearing on the execution of the work.

SN.	Equipment	Approved Make	Bidder make	Qty	Compliance (Yes/No)
1	UTP CAT- 6 LAN Cable	AMP		12 Boxes (305 meters per box)	
2	PVC conduit 25 mm (including all cable tie & hardware)			3660 Meter	
3	CAT6 I/O Connector	AMP		400	
4	Face Plate with Shutters Almond color (Single Port)	AMP		200	
5	Back Box for Face Plate (H x W x D) 86 x 86 x 14.42 mm			200	
	Services				
6	UTP Cable Laying (Penta scanning report must be submitted for all data points)			3660 Meter	
7	Fixing of conduit (including all cable tie & hardware)			3300 Meter	
8	Installation of Data Points (Fixing of I/O Connector both side, Face plate & Back Box)			200 Data Points	

I /We hereby certify that the information furnished above is full and correct to the best of my/our knowledge.

Date:

Place:

**(Signature of the authorized Signatory)
Office Seal.**

Minimum Eligibility Requirement for technical bid:

- 1 Bidder should be OEM/Authorized Partner/service provider of the OEM. In case the bidder is an Authorized Partner or Service Provider a valid Agency-ship/Dealership Certificate (MAF specific to this tender for active component) to quote on behalf of OEM should also be enclosed along with the technical bid. A document in support of this must be enclosed. Bidder should also need to submit Technical Compliance on OEM Letterhead with signed and stamp with the Technical Bid.
- 2 OEM/bidders should have Sales and support office in Country. **A self-certified document in support of this must be enclosed.**
- 3 OEM/bidder should have service and support office in Delhi NCR. **A self-certified document in support of this must be enclosed.**
- 4 The warranty provided by the bidder should have a back-to-back arrangement with the OEM. **The declaration should be the part of a Letter of Authorization and signed by competent authority at the OEM.**
- 5 The bidder should be ISO 9001 or better certified. **A copy of ISO Certificates should be enclosed.**
- 6 The bidder should have support center with minimum 3 relevant support/network engineers. **A self-certified document in support of this must be enclosed.**
- 7 The vendor/OEM should be able to provide 24x7 NOC & Tele support of their own if required by IIITD at agreed terms. **A self-certified document in support of this must be enclosed.**
- 8 The bidder shall provide the Registration number of the firm along with the valid GST number with PAN Number allotted by the competent authorities. **A self-certified document in support of this must be enclosed.**
- 9 The bidder must not be blacklisted by Central Government, State Government or Government of Corporations in India. **A certificate or undertaking to this effect must be submitted.**
- 10 The bidder must be responsible for supply, deploy and support the infrastructure.
- 11 Bidders can seek clarifications, raise technical queries etc. related to Tender by 17-05-2023 via email to **rahulv@iiitd.ac.in**, **Yogesh@iiitd.ac.in** & for financial queries to e-mail **ajay@iiitd.ac.in**. The replay to clarifications sought or queries raised will be replied within 03 working days and uploaded on the website of the institute under **www.iiitd.ac.in** Based on this the bidders may submit bids as prescribed by the due date the time. No clarifications in any other form will be provided.

Following information must accompany the financial bid:

1	Name, address and telephone number of the firm/company	
2	Name of the contact person and contact details (mobile/telephone number etc.)	
3	Name of the Bank and full address	
4	Bank Account Number	
5	PAN & GSTIN (Attach self-certified copy)	
6	Copy of Partnership Deed/ Certificate of registration of company or any other document evidencing registration of the bidder	
7	Number of Years of Experience	
8	Details of DD towards: Tender Fee: EMD:	
9	Provide the previous PO's of the similar items work executed during last three years (attested copies of the Orders to be enclosed)	
10	List of service centers, nearest location of support centre.	
11	Turnover of the bidder in the financial years: 2020-21 2021-22 2022-23 Please attach CA certified copy of the turnover.	

I /We hereby certify that the information furnished above is full and correct to the best of my/our knowledge.

(Signature of the authorized Signatory)
Name:
Office Seal.

Date:
Place:

TERMS AND CONDITIONS

1. The financial bid should be valid for a period of not less than 60 days from the date of opening of bid.
2. Upon placing of the Purchase Order (PO), the successful bidder is required to submit performance Bank guarantee (PBG) equivalent to 3% of the PO value within 15 days of the date of PO, failing which the EMD amount will be forfeited and the bidder shall be notified as blacklisted. The PBG shall be valid for a period of 60 months from date of purchase order. No interest is payable on the PBG.
3. The product to be supplied & Installation within a period of 8 to 10 weeks from the date of the Purchase order by the Institute. The bidders who are not able to deliver & install the product within the mentioned timeline, need not to apply. If the supply is not done within the stipulated time, then the institute may have right to cancel the work order.
4. The bidder should have their own test and repair facility with certified engineers.
5. PBG will be realized by IIIT-D in case of termination of the contract for unsatisfactory performance and/or non-performance of the contract.
6. Bids will be opened in the presence of bidder's representatives, who choose to attend on the specified date and time. Only one representative shall be allowed to attend.
7. Sealed bid can be sent either by post or by messenger. The responsibility of delivery of bid lies entirely with the bidder.
8. 100% payment will be released only on satisfactory installation as per scope of work as certified by officer in charge of the Institute and after producing the GST invoice. Bidder does not agree to above payment terms are requested not to submit their bid.
9. Payment will be paid only if required SLA as mentioned in scope of work is met.
10. In the event of dispute, Director, IIIT-Delhi shall be the sole arbitrator and his decision shall be final and binding on both the parties.
11. IIIT-Delhi does not bind itself to accept the lowest or any other offer and reserves the right to accept or reject any or all the offers either in full or in part without assigning any reason.
12. In case the bidder is not able to execute the Work as per terms, EMD/PBG shall be forfeited.
13. The bidder should be Original Equipment Manufacturer (OEM) or authorized service provider of the OEM (attach documentary proof). The authorization issued by the OEM must be valid and enclosed.
16. Bidder must submit an attested copy of every page of the tender
17. Bidder should provide details of its support, certification to this effect from the OEM.
18. If vendor /OEM fails to meet the SLAs (next business day hardware replacement), a fine of 2000/- Rs per day for first seven days and @ Rs.5,000/- per day from 8th day onwards will be levied.
19. The selected bidder has to sign an agreement with IIITD on a stamp paper after issue of Purchase/Work order. The agreement is attached Annexure 'Y'

PROFORMA FOR FINANCIAL BID

[A]

S.N.	Item Details	Rate (INR)	Qty	Amount (INR)
1	Arista Wi-Fi Access point (AP-C230)		212	
2	Arista Wi-Fi Access point (AP-O235)		8	
		Total Amount (INR)		
		Tax (18% GST)		
		All Inclusive Cost (INR)(With 18% GST)		

[B]

SN.	Equipment	Qty	Unit Rate	Total
1	UTP CAT- 6 LAN Cable	12 Boxes		
2	PVC conduit 25 mm (including all cable tie & hardware)	3660 Meter		
3	CAT6 I/O Connector	400		
4	Face Plate with Shutters Almond color (Single Port)	200		
5	Back Box for Face Plate (H x W x D) 86 x 86 x 14.42 mm	200		
	Services			
6	UTP Cable Laying (Penta scanning report must be submitted for all data points)	3660 Meter		
7	Fixing of conduit (including all cable tie & hardware)	3300 Meter		
8	Installation of Data Points (Fixing of I/O Connector both side, Face plate & Back Box)	200 Data Points		
		Total Amount (INR)		
		Tax (18% GST)		
		All Inclusive Cost(INR)(With 18% GST)		

Note : that the quantities shown for cabling work are tentative and final payment to the selected bidder for the same will be made based on actual measurement of work done after completion of work

[C]

Grand Total [A] + [B]	
-----------------------	--

- However, L1 bidder will be decided based on the grand total of all the items and their quantities as specified in the price bid format shown in Table-[C].

- Please note the price should be quoted for each of the item should be inclusive of all taxes/charges and installation at IIIT-Delhi Okhla Phase III, New Delhi.

-The Bidder may obtain price in Forex(USD) however the quote in financial Bid should be INR only.

-If any documents are required for availing custom duty exemption, the IIITD will provide the same. Please quote price accordingly.

Total Cost (all inclusive) of quantity mentioned above (in words) at IIIT-Delhi campus:

We accept that the rate quoted above shall remain valid for a period of 60 days from the last date of the tender document. It is certified that the rates quoted above are not more than the rates charged from any Central / State Govt. Deptt. / Institution / GeM.

(Signature and seal of the Bidder)

Annexure Y

ON NON JUDICIAL STAMP PAPER OF RS 100/-

AN AGREEMENT made on _____ day of _____ two thousand Twenty
One

BETWEEN

(Hereinafter called the contractor, which expression shall include its proprietor, partners, heirs, executors, administrators, legal representatives, successors and assignees) WITH REGISTERED ADDRESS.....of the one part

AND

The REGISTRAR Indraprastha Institute of Information Technology Delhi, Okhla Industrial Area Phase III, New Delhi - 110020 (hereinafter called the IIITD, which expression shall include its successors and assignees) of the other part.

Whereas the IIITD had invited Bids <Please write tender name> ; vide its Bid Document No. _____, which shall be deemed to be a part of this agreement; FOR THE SCOPE OF WORK/SUPPLY

Whereas the contractor submitted its TENDER Bid dated _____, a copy of the price bid, submitted by the contractor, is annexed hereto as Annexure;

Whereas the IIITD has accepted the Bid submitted by the contractor, on the terms and conditions mentioned in the IIITD's said Bid Document and conveyed its acceptance to the contractor; vide its letter No. dated _____, AND ANY OTHER CORRESPONDENCEwhich shall be deemed to be a part of this agreement;

Whereas the contractor is agreeable to the terms and conditions mentioned in the IIITD's said Bid document;

Whereas the contractor undertakes to comply with all relevant laws like Contract Labour (Regulation

and Abolition) Act, 1970; Employees' State Insurance and Miscellaneous Provisions Act, 1952; Employees' State Insurance Act, 1948; Minimum Wages Act, 1948; Payment of Bonus Act, 1972; Payment of Wages Act, 1936; Income Tax Act; GST Act etc. and to indemnify the IIITD from the contractor's acts of omission or commission, as regards the compliance with the relevant laws;

Whereas the contractor declares that he/she/it shall own all responsibility for any act of omission or commission, as regards the compliance with the relevant laws;

AND WHEREAS the IIITD is agreeable to make necessary payment to the Contractor, at the rates mentioned in the Annexure annexed hereto and as per the terms and conditions mentioned in the IIITD's said Bid Document;

In WITNESS whereof Shri (name), (designation), the authorized representative of the contractor, for and on behalf of the contractor, has hereunto set his hand and for and on behalf of the IIITD has hereunto set his hand.

(Signature of the authorized representative of the Contractor) Name and designation of the contractor's representative

In the presence of

1

2

(Signature of witnesses with full name and full address)

Registrar
for and on behalf of the IIITD

In the presence of

1

2