

**TENDER for Up- gradation of wireless network and installation of fiber optics cable  
Haryana Institute of Public Administration,  
Plot No. 76, Sector-18,  
Gurgaon**

Sr. No.	Name of Work	Tender Document Fee + e-Service Fee	EMD Fee	Approx. Value of the Items	Start date and time	Closing date and time
1	Upgradation and Extension of existing wireless network	Rs.200+Rs.1180 = Rs. 1380/-	NIL	15 Lakh	31.10.2022	15.11.2022
2	Installation of Fiber Cable.			50,000.00		

1. The Applicants/bidders have to complete 'Application/Bid Preparation & Submission' stage on scheduled time as mentioned above. If any Applicant/bidder failed to complete his/her aforesaid stage in the stipulated online time schedule for this stage, his/her Application/bid status will be considered as 'Applications / bids not submitted'.
2. Applicant/Bidder must confirm & check his/her Application/bid status after completion of his/her all activities for e-bidding.

**Envelope 1: Technical Bid**

The bidders shall upload the required eligibility & technical documents online in the Technical Bid.

**Envelope 2: Commercial Bid**

The bidders shall quote the prices in price bid format under Commercial Bid.

**Instructions to bidder on Electronic Tendering System**

**These conditions will over-rule the conditions stated in the tender documents, wherever relevant and applicable.**

**1. Registration of bidders on e-Procurement Portal: -**

All the bidders intending to participate in the tenders process online are required to get registered on the centralized e-Procurement Portal i.e. <https://etenders.hry.nic.in> Please visit the website for more details.

**2. Obtaining a Digital Certificate:**

**2.1** The Bids submitted online should be encrypted and signed electronically with a Digital Certificate to

establish the identity of the bidder bidding online. These Digital Certificates are issued by an Approved

Certifying Authority, by the Controller of Certifying Authorities, Government of India.

**2.2** A Digital Certificate is issued upon receipt of mandatory identity (i.e. Applicant's PAN Card) and Address proofs and verification form duly attested by the Bank Manager / Post Master / Gazettes Officer. Only upon the receipt of the required documents, a digital certificate can be issued

**2.3** The bidders may obtain Class-II or III digital signature certificate from any Certifying Authority or Sub certifying Authority authorized by the Controller of Certifying Authorities or may obtain information and application format and documents required for the issue of digital certificate from.

**2.4** Bid for a particular tender must be submitted online using the digital certificate (Encryption & Signing), which is used to encrypt and sign the data during the stage of bid preparation. In case, during the process of a particular tender, the user loses his digital certificate (due to virus attack, hardware problem, operating system or any other problem) he will not be able to submit the bid online. Hence, the users are advised **to keep a backup of the certificate** and also keep the copies at safe place under proper security (for its use in case of emergencies).

**2.5** In case of online tendering, if the digital certificate issued to the authorized user of a firm is used for

signing and submitting a bid, it will be considered equivalent to a no-objection certificate /power of attorney / lawful authorization to that User. The firm has to authorize a specific individual through an authorization certificate signed by all partners to use the digital certificate as per Indian Information Technology Act 2000. Unless the certificates are revoked, it will be assumed to represent adequate authority of the user to bid on behalf of the firm in the department tenders as per Information Technology Act 2000. The digital signature of this authorized user will be binding on the firm.

**2.6** In case of any change in the authorization, it shall be the responsibility of management / partners of the firm to inform the certifying authority about the change and to obtain the digital signatures of the new person / user on behalf of the firm / company. The procedure for application of a digital certificate however will remain the same for the new user.

**2.7** The same procedure holds true for the authorized users in a private/Public limited company. In this case, the authorization certificate will have to be signed by the directors of the company.

### **3. Online Viewing of Detailed Notice Inviting Tenders:**

The bidders can view the detailed N.I.T and the time schedule (Key Dates) for all the tenders floated through the single portal eProcurement system on the Home Page at

<https://etenders.hry.nic.in>

#### 4. Download of Tender Documents:

The tender documents can be downloaded free of cost from the eProcurement portal <https://etenders.hry.nic.in>

#### 5. Key Dates:

The bidders are strictly advised to follow dates and times as indicated in the online Notice Inviting Tenders. The date and time shall be binding on all bidders. All online activities are time tracked and the system enforces time locks that ensure that no activity or transaction can take place outside the start and end dates and the time of the stage as defined in the online Notice Inviting Tenders.

<https://etenders.hry.nic.in>

**NOTE:-** Bidders participating in online tenders shall check the validity of his/her Digital Signature Certificate before participating in the online Tenders at the portal <https://etenders.hry.nic.in>. For help manual please refer to the 'Home Page' of the e-Procurement <https://etenders.hry.nic.in>.

### PART-I

#### Technical BID

#### ELIGIBILITYPARAMETES

Ser No	Description	Remarks
1.	Name of the Supply Agency	
2.	Address along with Phone No	
3.	Registration/License No.	
4.	Financial Position (annual turnover from Rs. 20 Lacs or above. (Copy enclosed)	
5.	Experience (Minimum 3 years) in the relevant field	

#### Note:

- I. The opened technical bids shall be evaluated by a Technical Evaluation Committee (TEC) constituted for the purpose. The Committee will recommend the most suitable proposal for acceptance of the competent authority. Successful bidders will be informed of the decision.
- II. Such clarification on the technical aspects of the bid would not entitle the Bidder to change or cause any change in the substance of the bid submitted or price quoted. Also it will not imply that bidder's bid has been accepted for further processing.

## PART-II

### Financial Bid

Rates to be quoted including GST or any other charges etc.

Sl. No.	Item Details	Quantity
01	Up-gradation of existing Ubiquiti wireless setup at HIPA Gurgaon, Access Point should be dual band (2.4Ghz and 5Ghz) and Wifi 6 standard <b>(Make and Model of Wireless Access Points: Ubiquiti U6 Pro)</b> <b>Warranty: 03 years onsite warranty and support for another two years (on chargeable basis) i.e., 10 % of total cost</b> <b>*Refer to table for details of site Annexure -I</b> <b>5% of the total bid amount (before tax) shall be retained as Security deposit till the period of warranty)</b>	31
02	Installation of Fiber Optics cable between 1. Server Room and Hostel Building. -01 2. Server Room and Guest House-01 3. Installation of Giga Media Convertors and integrating with HIPA network. - 2 pair	

Note: **Bidders are compulsory to visit site physically before filling of tender.**

#### **Terms and Conditions:**

1. Online bids under two bid systems will be accepted for the work.
2. Offers can be quoted on a lump sum amount basis which includes all the charges at FOR destination.
3. The Tender offer should be valid up to 30 days.
4. The supply order will only be placed after approval by the purchase committee/ competent authority as may be intimated. Payment against Bill invoice shall be released within 60 days only after receipt of store. No interest will be paid on the delayed payment of stores.
5. The successful bidder for any reason fails to supply the items as per time schedule, specification etc., the undersigned will have the right to cancel the order and forfeit the security deposit available with the HIPA
6. The EMD of unsuccessful bidders shall be refunded
7. Arbitration: In the event of any dispute arising between both the parties i.e HIPA and Party, under these conditions or any conditions contained in the Work Order or in connection with this contract, the same shall be referred to the sole arbitration of the Director General, HIPA or some other persons appointed by him. The award of the arbitrator shall be final

and binding on both the parties to this contract.

8. Jurisdiction: The order executed will be subject to Indian law and local courts at **Haryana** only.
9. Director General, HIPA will reserve the right to accept or reject any or all the quotations received without assigning any reasons whatsoever.

**Assistant Director (Admin)**

## Site details of device installation

Sl. No.	Location	Floor	AP Qty
01	Hostel Building	Ground Floor	01
		1st Floor	04
		2 <sup>nd</sup> Floor	04
		3 <sup>rd</sup> Floor	04
02	Guest House	Ground Floor	01
		1 <sup>st</sup> Floor	01
03	Office Building Ground Floor	Gandhi Hall	01
		Satya Sadan	01
		Outside JD Office	01
04	Office Building 1 <sup>st</sup> Floor	Accounts Section	02
		Library	01
05	Office Building 2 <sup>nd</sup> Floor		05
06	Office Building 3 <sup>rd</sup> Floor		05
		Total	31

### Terms for AMC

Onsite support shall cover all hardware components (except incase of physical damage).

Onsite support shall cover all software components (Software to be provided by HIPA)

Support shall be provided Monday to Saturday.

Standby equipment shall be provided in case of faulty equipment during the period of repair/replacement.

In case of default of services, HIPA shall have complete right to take appropriate action including termination of contract.

## UniFi6 Pro



## Mechanical

Dimensions	Ø197 x 35 mm (Ø7.76 x 1.38")
Weight	Without mount: 460 g (1.01 lb) With mount: 600 g (1.32 lb)
Enclosure material	Plastic
Mount material	SGCC steel
Weatherproofing	IP54

## Hardware

Management interfaces	Ethernet Bluetooth				
Networking interface	(1) GbE RJ45 port				
Button	Factory reset				
LED	White/blue				
Power method	PoE+				
Power supply	UniFi PoE switch 48V, 0.5A PoE adapter (optional)				
Supported voltage range	44 to 57VDC				
Max. power consumption	13W				
Max. TX power	<table border="1"> <tr> <td>2.4 GHz</td> <td>22 dBm</td> </tr> <tr> <td>5 GHz</td> <td>26 dBm</td> </tr> </table>	2.4 GHz	22 dBm	5 GHz	26 dBm
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MIMO	<table border="1"> <tr> <td>2.4 GHz</td> <td>2 x 2 (UL MU-MIMO)</td> </tr> <tr> <td>5 GHz</td> <td>4 x 4 (DL/UL MU-MIMO)</td> </tr> </table>	2.4 GHz	2 x 2 (UL MU-MIMO)	5 GHz	4 x 4 (DL/UL MU-MIMO)
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Throughput rate	<table border="1"> <tr> <td>2.4 GHz</td> <td>573.5 Mbps</td> </tr> <tr> <td>5 GHz</td> <td>4.8 Gbps</td> </tr> </table>	2.4 GHz	573.5 Mbps	5 GHz	4.8 Gbps
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Antenna gain	<table border="1"> <tr> <td>2.4 GHz</td> <td>4 dBi</td> </tr> <tr> <td>5 GHz</td> <td>6 dBi</td> </tr> </table>	2.4 GHz	4 dBi	5 GHz	6 dBi
2.4 GHz	4 dBi				
5 GHz	6 dBi				
Mounting	Wall/ceiling (included)				
Operating temperature	-30 to 60° C (-22 to 140° F)				
Operating humidity	5 - 95% noncondensing				
Certifications	CE, FCC, IC, MIC				

## Software

WiFi standards	802.11a/b/g WiFi 4/WiFi 5/WiFi 6
Wireless security	WPA-PSK, WPA-Enterprise (WPA/WPA2/WPA3)
BSSID	8 per radio
VLAN	802.1Q
Advanced QoS	Per-user rate limiting
Guest traffic isolation	Supported



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Concurrent clients	300+
Zero wait DFS	Yes* <small>*Supported with upcoming firmware versions</small>

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## Supported Data Rates

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802.11a	6, 9, 12, 18, 24, 36, 48, 54 Mbps
802.11b	1, 2, 5.5, 11 Mbps
802.11g	6, 9, 12, 18, 24, 36, 48, 54 Mbps
802.11n (WiFi 4)	6.5 Mbps to 600 Mbps (MCS0 - MCS31, HT 20/40)
802.11ac (WiFi 5)	6.5 Mbps to 3.4 Gbps (MCS0 - MCS9 NSS1/2/3/4, VHT 20/40/80/160)
802.11ax (WiFi 6)	7.3 Mbps to 4.8 Gbps (MCS0 - MCS11 NSS1/2/3/4, HE 20/40/80/160)

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