

Expression of Interest

(Exclusively open to Central/ State Government Nodal Agencies)

For

**Supply, Installation and commissioning of Campus Wi-Fi at Odisha
University of Agriculture and Technology, Bhubaneswar, Sambalpur,
Berhampur, and Bhawanipatna Academic Campuses**



**Odisha University of Agriculture and Technology,
Bhubaneswar, 751003, Odisha**

Expression of Interest (EoI) for Supply, Installation and commissioning of Campus Wi-Fi at Odisha University of Agriculture and Technology, Bhubaneswar, Sambalpur, Berhampur, and Bhawanipatna Academic Campuses

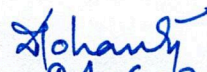
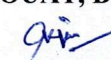
Odisha University of Agriculture and Technology (OUAT) invites sealed Expression of Interest (EoI) from interested Central Govt./ State Govt. Agencies/Organizations for “Supply, Installation and commissioning of Campus Wi-Fi at Odisha University of Agriculture and Technology, Bhubaneswar, Sambalpur, Berhampur and Bhawanipatna academic campuses”. The EoI Document containing the details of criteria, submission requirement, objective, scope of work etc. can be downloaded from the website www.ouat.ac.in.

Further details, if any, may be obtained from The Director, PME, Odisha University of Agriculture and Technology, Bhubaneswar-751003 during working hours. **Last date for submission of EoI is 22 July, 2024 up to 5pm.** Sealed envelope marked to **The Registrar, Odisha University of Agriculture and Technology, Bhubaneswar-751003**, containing EoI with all relevant documents may be submitted mentioning “Supply, Installation and commissioning of Campus Wi-Fi at Odisha University of Agriculture and Technology, Bhubaneswar, Sambalpur, Berhampur, and Bhawanipatna Academic Campuses” on the top of the envelope.

Calendar of Events

Sl. No.	Events	Date & Time
1.	EoI Publishing Date	26.06.2024
2.	Document Download Start Date	26.06.2024
3.	Pre-Bid Meeting	03.07.2024
4.	Document Download End Date	20.07.2024
5.	Last Date of Submission	22.07.2024
6.	EOI Opening Date (Technical)	23.07.2024.
7.	Publication of Technical Bid Qualifiers	29.07.2024
8.	EOI Opening Date (Financial)	30.07.2024
9.	Tentative Date of Offer Letter	31.07.2024

Encl.: EoI Document.


24.6.24
Registrar
OUAT, Bhubaneswar-751003


Expression of Interest (EOI) For Supply, Installation and commissioning of Campus WiFi at Odisha University of Agriculture and Technology, Bhubaneswar, Sambalpur, Berhampur, and Bhawanipatna Academic Campuses

Sl. No.	Particulars	Details
1	Name of the Client	Odisha University of Agriculture and Technology, Bhubaneswar-751003
2	Date of Issue of EOI	26.06.2024
3	Pre-Bid Meeting	03.07.2024
4	Pre-Bid Clarification Date	03.07.2024
5	Last Date of Submission	22.07.2024
6	EOI Opening Date (Technical)	Will be intimated to the bidders through Email.
7	Publication of Technical Bid Qualifiers	Will be displayed in the University Website/ Notice Board
8	EOI Opening Date (Financial)	Will be intimated to the Technically qualified bidders separately through Email.
9	Tentative Date of Offer Letter	31.07.2024
10	Expected date of commencement of assignment	Within one Month of Selection of Agency
11	Bid document Fee (Non-Refundable)	Rs. 5000/- (Rupees Five Thousand) only in shape of DD favouring "Comptroller, OUAT, Bhubaneswar" drawn in any scheduled commercial bank payable at Bhubaneswar.
12	Earnest Money Deposit (EMD)* *Refundable subject to satisfactory performance & compliance to laid down conditions.	Rs. 10,00,000/- (Rupees Ten Lakh only) in shape of DD favouring "Comptroller, OUAT, Bhubaneswar" and drawn in any scheduled commercial bank payable at Bhubaneswar.
13	Security Deposit	Successful bidder will have submit the 10% of supply order value in the form of Demand Draft / Irrevocable Bank Guarantee within 15 days of the receipt of Work Order
14	Postal Address for submission of Proposal and mode of Submission	The Registrar, OUAT, Bhubaneswar-751003. Proposals to be submitted through Speed Post/ Registered Post/ Courier only and bid submitted through any other mode and late bid will be rejected.
15	Website to download bid document.	www.ouat.ac.in .

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About OUAT:

Odisha University of Agriculture and Technology (OUAT) located in Bhubaneswar, Odisha, India was established in 1962. It is dedicated to education, research, and extension in agriculture, horticulture, veterinary science, agricultural engineering, and allied sciences. OUAT offers undergraduate, postgraduate, and doctoral programs in various disciplines related to agriculture and technology. The University plays a crucial role in the development of agriculture of the state.

Scope of Work:

To provide a paperless green environment by digitalizing through Optical Fiber Cable Structured LAN network and Campus Wi-Fi System in 04 academic campuses at Bhubaneswar, Sambalpur, Berhampur & Bhawanipatna. This project aims to facilitate and provide better infrastructure facilities such as Local Area Network/Wide Area Network infrastructure, e-Mail/Internet access, e-facilitation and digital empowerment of students, faculties and other stakeholders.

Terms & Conditions:

- The firm should be State/ Central Govt. owned/ Public Sector Organisation/ agency.
- The firm should have office in Odisha.
- The firm should have prior experience of executing similar projects/ assignments in the State or at National level.
- The purchaser reserves the right to revise the terms and conditions as & when needed and also can reject any or all the bids.
- EoI to be submitted as per two Bid system.
 1. Envelop-1: Sealed envelop containing Technical Bid, Bid Processing Fee and all documents superscribed as “**TECHNICAL BID**” on the frontside top of the envelop.
 2. Envelop-2: Sealed envelop containing Financial indicating details of price, taxes and levies etc. and superscribed as “**FINANCIAL BID**” on the frontside top of the envelop.

General Terms & Conditions:

- In case, after Pre-bid meeting (wherever applicable) any modification(s)/ addition(s)/ deletion(s) or any alternation in the requirement(s)/ specification(s) etc. is required, the same will be published on the website **www.ouat.ac.in** within the next 7 days. Therefore, all the bidders are advised to visit our website before filling/submitted their bids. No separate advertisement/information will be published in this regard in the Newspapers or any other location or any other mode of communication will be adopted.
- The successful bidder will submit the Performance Security@5% (as per O.M. 8952/F-FIN-COD-MISC-0007-2019 of Govt. of Odisha, dt. 18-03-2021) of supply order in the form of Demand Draft / Bank Guarantee in the name of “Comptroller, OUAT, Bhubaneswar” within 15 days of the receipt of Work Order. The validity of Demand Draft / Performance Security should be 90 days beyond the warranty period and it will be retained during the entire period

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of Warrantee as Security Deposit and will be returned after the satisfactory completion of the Warrantee period without interest within three months after expiry of warrantee period.

- EMD of the bidder(s) and Performance Security of successful bidder may be forfeited, if the bidder withdraws or amends or derogates from the tender in any respect.
- This tender will remain valid upto 180 days from the issue of tender notification.
- In case the item(s) are fabricated/ finished in the campus, the Contractor/Agency shall ensure the protection of their items at site from fire, floodwater, moisture etc. or any kind of damage at their own cost.
- The OUAT, Bhubaneswar will not compromise with the quality & standard of the material. At any stage, if it is found that bidder has supplied inferior quality or different specification than as specified in the supply order, payment shall be withheld till the supplier replace the defective/inferior machine/equipment/instrument. In case the bidder fails to fulfill all the obligations as laid down in this tender document, then payment shall be held up and performance security may be forfeited.
- The supplier will provide three years on-site warranty, and under warrantee period all the damages shall be repaired/replaced by the supplier at their own cost and risk. If equipment/instruments has any manufacturing defects, the same will be preferably replaced with a new one, or repaired up to client satisfactions. No sub-standard material will be accepted.
- The rates quoted by the bidder shall be complete for supply, installation, commissioning and placing of the finished items as per the specification(s) and shall be inclusive of all applicable tax, duties loading, unloading, packing, transportation and installation etc and nothing extra/additional shall be payable on these rates.
- The rates for Comprehensive Annual Maintenance Charges (CAMC) need to be quoted for additional 7 years beyond the warranty period.
- In any case, if tenders are not opened due to any reason, the EMD shall be returned to all bidders.
- Conditional Tender will not be accepted.
- Tender without, Bid Processing Fees, EMD/Bid Security Declaration will be summarily rejected.
- The Institute can ask any clarifications & documents at any stage of the procurement depending upon the circumstances to ascertain quality of material used in manufacturing of items.
- All the documents attached with the technical bid should be properly tagged, numbered, signed and stamped by the competent authority.
- EMD shall be forfeited in the following cases: -
 - If the Bidder withdraws or amends, impairs or derogates from the tender in any respect within the period of validity of this tender.
 - If the bidder having been notified of the acceptance of his tender by the Buyer during the period of its validity, fails to supply, install and commission the equipments/instruments.
 - If the Bidder fails to furnish the required Performance Security
 - If the Bidder fails to sign the agreement within 15 days of issue of Work Order/ Offer Letter.
 - Fails to respond to queries by OUAT, Bhubaneswar.

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Terms and Conditions for Equipment/Instruments:

- All equipments/ instruments should be compatible with proper voltage supply. Equipment/ instruments with exact technical specification including electrical wiring for interconnection of the equipment up to main supply point should be facilitated by the bidder/supplier.
- The equipment/machineries to be supplied should be of brands of National or International repute.
- The equipment shall consist of all accessories, consumables for testing and toolbox in all respects to be provided to run the equipment smoothly and must be compatible with the existing networking equipments.
- All equipments/instruments should be supplied and installed at site by the supplier. Any requirement of unloading, lifting etc. will be arranged by the suppliers. The supplier must integrate the supplied equipments/instruments to the existing network for smooth functioning.
- All transport charges for shifting, fitting will be borne by the bidder.
- The make and model of the equipments/instruments should not be more than 2 years old.
- The University reserves all rights to accept or reject any or all tenders in part or full without assigning any reason thereof. Dispute if any, shall be put before the Vice Chancellor, OUAT who shall be the sole arbitrator and decision taken by the arbitrator shall be binding on both parties.

Insurance and Medical:

- i. It shall be the responsibility of the agency to insure their staff and equipment against any exigency that may occur while carrying out the project activities. Agency will also take insurance cover for third party liability, which might occur due to damages caused to their manpower, equipments/instruments etc. OUAT shall not be responsible for any such damages.
- ii. Medical facilities (as per law) for professional including insurance of the professional related to the project will be provided by the Agency.

Applicable Law and Jurisdiction:

This contract, including all matters connected with this contract, shall be governed by the India laws, both substantive and procedural, for the time being in force and shall be subject to the exclusive jurisdiction of High Court of Odisha, if required.

Venue & Deadline for submission of proposal

Application form completed in all respects as specified in the EOI, must be submitted to the Registrar, OUAT, Bhubaneswar on or before Dt. 22.07.2024, 5:00 pm.

Validity of Offer:

The offer for EoI as per this document shall be valid for a period of 6 months (180 days) initially which may be extended further if required by OUAT.

Eligibility Criteria:

EoI Documents have been uploaded on the website www.ouat.ac.in and may be downloaded from the website. The bidders are expected to examine all instructions, forms, eligibility criteria and other details in the EoI document carefully. Failure to furnish complete information as mentioned in the EoI document or submission of a proposal not substantially responsive to the EoI documents in every respect will be at the Bidder's risk and may result in rejection of the proposal.

Essential Eligibility Criteria:

A bidder participating in the procurement process shall possess the following minimum pre-qualification/ eligibility criteria.

Pre-Qualification Evaluation Criteria			
Sl. No.	Criteria	Description of the Criteria	Documents to be Submitted
1	Legal Entity	<p>As specified under GFR 2017, the bidder must be a Public Sector Undertaking setup by the Centre or State Govt. to carryout I.T. related activities or any Central/State Govt. Organization/PSU which may be notified by the MeitY / MoE / or any other Ministry in the field of IT for such purpose. Relevant supporting documents may be furnished.</p> <p>Note: - Consortium of any kind shall not be acceptable for this project. Any deviation would lead to disqualification or termination of the same.</p>	<ol style="list-style-type: none">1. Valid copy of certificate of Incorporation and registration certificates.2. Copy of GST registration.3. Income Tax/PAN Number from the respective Government Department.4. Documents of local bidder to be submitted as per formats attached along with Work Order + Project completion/Completion certificate /Partial completion Certificate (Mile stone completion Certificate)
2	Turnover	<p>The Govt. Organization/ PSU should have average annual financial turnover of Rs.200 crores in IT/ICT/ITES related activities during last three consecutive balance sheet (i.e. FY 2021-22, 22-23 & 23-24 duly audited by competent authority/ agency. Relevant supporting documents i.e., CA Certificate must be furnished at the time of application.</p>	<ul style="list-style-type: none">- Audited Balance Sheets- CA Certificate
3	Technical Capability	<p>The Govt. Organization/ PSU must have successfully completed at least one Wi-Fi/CAMPUS Wi-Fi project of value not less than the amount ₹5,00,00,000/-(Five Crores Only) for Central Govt. /State Govt. Educational Institution during last Five years preceding from the tender release date.</p>	<ul style="list-style-type: none">- Copy of the Work Order & Completion Certificates
4	Bidder Quality Certification	<p>The Govt. Organization/ PSU should have valid ISO9001, ISO20001 & ISO 27001, CMMI Level 3 Certificate as on date of submission of this RFP.</p>	<ul style="list-style-type: none">- Copies of the valid certificates.
5	Blacklisting	<p>The Govt. Organization/ PSU should not be under any Declaration of Ineligibility for corrupt and fraudulent practices issued by any Government or PSU in India.</p>	<p>Self-declaration Annexure</p>

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6	OEM Authorization	The Govt. Organization/ PSU must attach Manufactures Authorization certificate specific to this tender & Back-to- back support letter from OEMs for providing Comprehensive on-site support and services covered under this RFP. OR The Authorized Partner of OEM in India in case the OEM has no registered office in India.	OEM Manufacturing Authorization Form Annexure
7	Local Presence	The bidder should have an office in Odisha. However, if the presence is not there in the state, the bidder should give an undertaking for establishment of a project office, within one month of award of the contract.	Relevant Documents supporting office addresses/ Undertaking.
8	RFP fee	The bidder should submit RFP Bid Processing Fee of ₹5000/- (Five thousand Only) at the time of application.	The RFP document fee must be in favor of " Comptroller, OUAT, Bhubaneswar "
9	EMD	The bidder must have submitted the EMD of ₹10 Lakh in the shape of Bank Guarantee/Account Payee Demand Draft from any Nationalized / Scheduled Commercial Bank in favor of " Comptroller, OUAT, Bhubaneswar " The EMD should be valid for a minimum period of 150 days from the last date of submission of the Bid.	

Selection of Applicant:

1. The applicant will be selected based on verification and testimonials submitted and field visit to assess the ability of applicant to deliver the required services.
2. Short listed applicants will be invited for a detailed presentation before the University level scrutiny committee.
3. The selected applicant shall be invited for finalization of Service Level Agreement.

Selection Process:

1. Technical Bid Evaluation
2. Financial Bid Evaluation and selection of Bidder
3. Bidder Scoring maximum in Technical Bid and lowest in the Financial Bid shall be given 100 percentile and other Bidders will be evaluated accordingly.
4. Final bidder selection shall be done taking into account 70% of percentile score of Technical Bid and 30% of percentile score of Financial Bid.

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Technical Evaluation Criteria

In order to facilitate the technical proposal evaluation, the technical criteria laid down along with the assigned weights have been presented in subsequent section. The marking scheme presented here is an indication of the relative importance of the evaluation criteria. Bidders securing a minimum of 60% marks in the technical evaluation will only be considered for further financial bid evaluation. Bids or Tenders which do not secure the minimum specified technical score will be considered technically non-responsive and hence debarred from being considered for their financial bid opening.

Sl. No.	Technical Eligibility	Marks	Max Marks
1	The bidder must have Average Annual Turnover in last 3 financial years		10
	More than Rs 1500Cr.	10	
	More than Rs 500 Cr & Less than Rs 1000Cr.	7	
	Less than Rs 500Cr.	4	
2	The Bidder must be a Profit-making Company in last 5 Years	5	5
3	The bidder must have successfully completed at least one project of Wi-Fi/Campus Wi-Fi Networking of value not less than the amount ₹10,00,00,000/-(Ten Crores Only) in Central Govt./ State Govt. in Indian education domain only during last Seven years preceding from tender release date.		15
	3 Wi-Fi Projects worth Rs. 10 Cr each or 1 Wi-Fi Project worth Rs.100 Cr	15	
	2 Projects worth Rs. 10 Crore more	10	
	1 Projects worth Rs. 10 Crore more	5	
4	The bidder must have Experience in commissioning of Campus Wi-Fi in Govt. Educational institutes during last Seven years preceding from tender release date.		5
	Number of Campuses = 1 or more with experience of Wi-Fi network	5	
5	The bidder must have below certificates:		15
	ISO9001	3	
	ISO20001	3	
	ISO27001	3	
	CMMi Level 3	6	
6	The bidder should have at least 100 Telecom/IT Engineer on its Payroll with at least 40 Resources with OEM Certified ITIL/ CCNA/ JNCA / CCNP/ MCSE and 10 Resources with PMP Certification.		5
7	The bidder has to provide Proof of Concept (POC) Demonstration of their offered solution		15
8	Presentation on the proposed solution capturing the major features:		30
	a. Understanding of the Project b. Detailed Work-plan and Methodology c. Proposed Project Deployment and Monitoring d. Operation & Maintenance Support Plan based on their previously executed projects.		
TOTAL			100

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FORMATS FOR SUBMISSION
FORMAT- 1
APPLICANT'S EXPRESSION OF INTEREST

To,

The Registrar,
Odisha University of Agriculture and Technology,
Bhubaneswar-751003

Sub: Submission of Expression of Interest for "Supply, Installation and commissioning of Campus Wi-Fi at Odisha University of Agriculture and Technology, Bhubaneswar, Sambalpur, Berhampur, and Bhawanipatna Academic Campuses

Sir,

In response to the Invitation for Expressions of Interest (EoI) published on ___ for the above purpose, we would like to express interest to the above proposed task. As instructed, we are submitting the following documents in sealed envelopes for needful:

- a) Applicant's Expression of Interest as per Format-1.
- b) Application as per Format-2 with relevant documents
- c) Technical Bid (Format-3)
- d) Financial Quotation (Format-4)
- e) Power of Attorney in favour of Authorized Signatory with long and short signatures of Authorized person [in case of Agencies/Organizations]

Sincerely Yours,

Encl.: As above.

Date:

Signature of the applicant
[Full name of applicant]

FORMAT-2
APPLICANT'S PROFILE

Sl. No	Particulars	Information furnished by the applicant
1.0	Name and address of the applicant (IN BLOCK LETTERS):	
2.0	Address for communication (telephone/mobile number):	
3.0	Have already delivered such services to any individuals/agencies/organization? No. of years of Experience in this aspect; Provide nature of services provided and details of customers;	
5.0	Technical support personnel available to handle this project;	
6.0	Previous Performance; Customer Reviews Awards Certifications	
7.0	Annual turnover of last 3 years and shall submit relevant financial audit documents attested by chartered accountant.	

I hereby declare that the information furnished in the application is true to the best of my knowledge and belief.

Encl.: As stated above

Signature of the applicant
Full name of the applicant
Stamp & Date



FORMAT- 3
TECHNICAL BID

Sl. No	Particulars		Information to be furnished by the applicant		
1.	Name of the Bidder with complete postal address				
2.	Details of Bid Processing Fee		DD No.....Date..... Rupees..... Bank.....		
3.	Details of Earnest Money Deposit		DD No.....Date..... Rupees..... Bank.....		
5.	Full Address of the Registered Office	 Tel. No.Fax..... Email.....		
6.	Full Address of the Operating / Branch Office at Bhubaneswar	 Tel. No.Fax..... Email.....		
7.	Name and Tel. No. of Authorized Officer/ Person to liaise with Field Office(s).			
8.	PAN / GIR No. (Attach self-attested copy)			
9.	GST No. (Attach self-attested copy)			
10.	Financial Year		Amounts (in Crores)		
	2021-22				
	2022-23				
11.	Net worth		Amounts (in Crores)		
	2021-22				
	2022-23				
12.	Sl. No.	Details of Contract	Name of the Client, Address, Tel No. & Fax No.	Amount of Contract (Rs. In Crores)	Duration of contract
13.	GST return for last 3 years (2021-22, 2022-23, 2023-24)				
	Sl. No.	Returns	GST No.	Year	
	1.			2021-22	
	2.			2022-23	
3.			2023-24		
14.	Experience in campus Wi-Fi No.				
	No. of campus Wi-Fi Completed				
15.	Certification				
	ISO 9001				
	ISO 20001				
	ISO 27001				
	CMMi Level 3				

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FORMAT-4
FINANCIAL QUOTATION

PROPOSAL FOR WI-FI SETUP AT OUAT, BHUBANESWAR						
OUAT, BHUBANESWAR						
SL No	Item Description*	Specifications	UoM	Qty.*	Unit Price (Rs.)	Total Price (Rs.)
1	Indoor Access Point	Gigabit Ethernet port with PoE PD USB port, Up to 1874 Mb/s throughput 2x2 MU-MIMO, 2 x 5.7 dBi internal antennas Ceiling mountable, Power consumption: 16.5 W	Nos	377		
	Outdoor Access Point	Dual radio, 5 GHz 802.11ac 4 x 4 MIMO and 2.4 GHz 802.11n 2 x 2 MIMO. It has four spatial stream Multi User (MU) - 5 GHz MIMO for up to 1,733 Mb/s wireless data rate.	Nos	30		
2	Managed PoE switch with 8 x 10/100/1000 Base-T & 2 x Gigabit SFP Port	Power consumption:150.2 W maximum, 11.7 W idle Switching capacity:20Gbps Throughput:14.88Mpps, maximum Memory processor ARM: Cortex-A9 @ 800 MHz 512 MB SDRAM, 256 MB flash 1.5 MB packet buffer PoE capability:124 W Class 4 Management features: Instant On Portal, Web browser, SNMP Manager	Nos	88		
3	Wireless LAN Controllers	Maximum APs (licenses):512 Concurrent SSL sessions: 4,096 Firewall throughput (Gbps): 20 Wired Bridged throughput (Gbps): 20 VLANs: 4,094; Active Firewall Sessions (Concurrent sessions): 2,015,291; Dimensions: 4.4 cm x 44.2 cm x 33.4 cm; Operating temperature: 0° C to 40° C Input voltage range: 100 VAC to 240 VAC Output voltage: +12VDC, 29.16A AC power supply: 350 watts AC input voltage: 100 VAC to 240 VAC AC input current: 5-2.5A AC input frequency: 50-60 Hz	Nos	2		
4	9U Wall Mount Rack with all accessories		Nos	88		
5	12U Wall Mount Rack with all accessories		Nos	22		
6	Cat-6 UTP Cable		Mtr.	21000		
7	Layer-2 PoE switch with 24 x 10/100/1000 Base-T & 4 x Gigabit SFP Port	Ethernet interfaces: 10BASE-T ports: RJ-45 connectors, 2-pair Category 3, 4, or 5 Unshielded Twisted Pair (UTP) cabling, Gigabit Ethernet ports: 24 ports Uplink interfaces: 4 SFP+ PoE + power budget: 195W Forwarding bandwidth: 64 Gbps Switching bandwidth: 128 Gbps	Nos	24		
8	1 KVA OFF-LINE UPS with surge protector		Nos	110		
9	SM Gigabit SFP Transceiver for above switch		Nos	28		
10	Electrical termination Charges including supply of Switches & Sockets		No	115		

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11	OFC Termination Charges		No	4		
12	6 Core SM 9/125um double sheath Unitube Outdoor Cable		Mtr.	1000		
13	LC-LX Duplex Fiber Patch Cord Sm 9/125um-3mtr		No	40		

PROPOSAL FOR WI-FI SETUP AT COLLEGE OF AGRICULTURE & COLLEGE OF HORTICULTURE, CHIPLIMA						
CENTRAL LOCATION (ADMINISTRATIVE BUILDING, COLLEGE OF AGRICULTURE)						
SL No	Item Description*	Specifications	UoM	Qty.*	Unit Price (Rs.)	Total Price (Rs.)
1	NGFW for 500 concurrent users Advanced Gateway Security Suite Bundle For 3 Years Ransomware Protection	Firewall throughput: 2.6 Gbps Threat Prevention throughput 1.2 Gbps IPsec VPN throughput: 1.1 Gbps Gbps Max concurrent sessions: 200,000 New sessions per second 34,000 Virtual systems: 1/2 Interface Modes: L2, L3, tap, virtual wire (transparent mode), VLANs:802.1Q VLAN tags per device/per interface: 4,094/4,094, Aggregate interfaces (802.3ad), LACP, Routing: OSPFv2/v3 with graceful restart, BGP with graceful restart, RIP, static routing	No	1		
2	Layer-2 PoE switch with 24 x10/100/1000 Base-T & 4 x Gigabit SFP Port	Total System Ports: 28 x Gigabit Ethernet RJ-45 Ports: 24 x Gigabit Ethernet SFP Ports: 4 x SFP CPU: 800 MHz ARM Layer 3 Interface: Configuration of Layer 3 interface on physical port, Link Aggregation (LAG), VLAN interface, or loopback interface Classless Inter-domain Routing (CIDR): Support for classless inter-domain routing	No	3		
3	SM Gigabit SFP Transceiver for above switch	1 x 1000 Mbit/s with LC connector Network size - length of cable Single mode fiber (SM) 9/125 μm: 0 - 20 km (Link Budget at 1310 nm = 0 - 10,5 dB; A = 0,4 dB/km; D = 3,5 ps/(nm*km))	No	5		
4	Indoor Access Point	Gigabit Ethernet port with PoE PD USB port, Up to 1874 Mb/s throughput 2x2 MU-MIMO, 2 x 5.7 dBi internal antennas Ceiling mountable, Power consumption: 16.5 W	No	13		
5	Outdoor Access Point	Dual radio, 5 GHz 802.11ac 4 x 4 MIMO and 2.4 GHz 802.11n 2 x 2 MIMO. It has four spatial stream Multi User (MU) - 5 GHz MIMO for up to 1,733 Mb/s wireless data rate.	No	2		
6	6 KVA ON-LINE ups With (6 * 100 AH Battery) 2 Hour back up at rated load with 3 years warranty, Battery life = 2 Years	Capacity: 600 VA / 4800 W Phase: Single phase with ground Frequency Range: 46Hz ~ 54Hz @ 50Hz system 56Hz ~ 64Hz @ 60Hz system Output Voltage: 220/230/240VAC AC Mode: 84% Battery Mode:83% Overload AC Mode 100% ~ 105%: 10min, 105% ~ 125%: 1min, >125% : 1sec Battery Mode 100% ~ 105%: 30sec, 105% ~ 125%: 10sec, >125% : 1sec	No	1		

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7	12U Wall Mount Rack With all accessories		No	2		
8	24 Port Patch Panel Cat-6 UTP Keystone Loaded		No	3		
9	Information Outlet Cat-6 UTP Shuttered Single Port		No	65		
10	Patch Cord Cat-6 UTP Molded 1.5mtr		No	150		
11	Cat-6, 4 Pair, UTP		Mtr.	2400		
12	Cat-6, 4 Pair, STP		Mtr.	600		
13	Cable Conduit		Mtr.	400		
14	Power Cable (3 Core)		Mtr.	150		
15	Electrical termination Charges including supply of Switches & Sockets		No	2		
16	12 Core SM 9/125um double sheath Unitube Outdoor Cable		Mtr.	5460		
17	LC-LX Duplex Fiber Patch Cord Sm 9/125um-3mtr		No	25		
18	OFC Termination Charges		No	6		
ADMINISTRATIVE BUILDING, COLLEGE OF HORTICULTURE						
1	Layer-2 PoE switch with 24 x 10/100/1000 Base-T & 4 x Gigabit SFP Port	Total System Ports: 28 x Gigabit Ethernet RJ-45 Ports: 24 x Gigabit Ethernet SFP Ports: 4 x SFP CPU: 800 MHz ARM Layer 3 Interface: Configuration of Layer 3 interface on physical port, Link Aggregation (LAG), VLAN interface, or loopback interface Classless Inter domain Routing (CIDR): Support for classless inter domain routing	No	2		
2	SM Gigabit SFP Transceiver for above switch	1 x 1000 Mbit/s with LC connector Network size - length of cable Single mode fiber (SM) 9/125 μ m: 0 - 20 km (Link Budget at 1310 nm = 0 - 10,5 dB; A = 0,4 dB/km; D = 3,5 ps/(nm*km))	No	3		
3	Indoor Access Point	Gigabit Ethernet port with PoE PD USB port, Up to 1874 Mb/s throughput 2x2 MU-MIMO, 2 x 5.7 dBi internal antennas Ceiling mountable, Power consumption: 16.5 W	No	13		
4	Outdoor Access Point	Dual radio, 5 GHz 802.11ac 4 x 4 MIMO and 2.4 GHz 802.11n 2 x 2 MIMO. It has four spatial stream Multi User (MU) - 5 GHz MIMO for up to 1,733 Mb/s wireless data rate.	No	2		
5	1 KVA ON-LINE ups With (3 * 42 AH Battery) 2 Hour back up at rated load with 3 years warranty Battery life = 2 Years	Capacity: 1000 VA LB 16A Usage/Application: Power Backup, Battery Type: Depending on the capacity of external batteries Phase: Single phase with ground	No	2		
6	12U Wall Mount Rack With all accessories		No	2		

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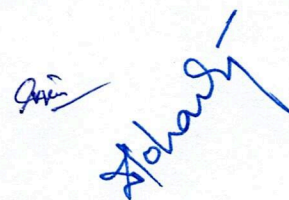
7	24 Port Patch Panel Cat-6 UTP Keystone Loaded		No	2		
8	Information Outlet Cat- 6 UTP Shuttered Single Port		No	48		
9	Patch Cord Cat-6 UTP Molded 1.5mtr		No	96		
10	Cat-6, 4 Pair, UTP		Mtr.	1600		
11	Cable Conduit		Mtr.	300		
12	Power Cable (3 Core)		Mtr.	30		
13	Electrical termination Charges including supply of Switches & Sockets		No	2		
14	OFC Termination Charges		No	1		
COLLEGE OF AGRICULTURE NEW TEACHING BLOCK						
1	Layer-2 PoE switch with 24 x10/100/1000 Base-T & 4 x Gigabit SFP Port	Total System Ports: 28 x Gigabit Ethernet RJ-45 Ports: 24 x Gigabit Ethernet SFP Ports: 4 x SFP CPU: 800 MHz ARM Layer 3 Interface: Configuration of Layer 3 interface on physical port, Link Aggregation (LAG), VLAN interface, or loopback interface Classless Inter domain Routing (CIDR): Support for classless inter domain routing	No	1		
2	SM Gigabit SFP Transceiver for above switch	1 x 1000 Mbit/s with LC connector Network size - length of cable Single mode fiber (SM) 9/125 μ m: 0 - 20 km (Link Budget at 1310 nm = 0 - 10,5 dB; A = 0,4 dB/km; D = 3,5 ps/(nm*km))	No	1		
3	Indoor Access Point	Gigabit Ethernet port with PoE PD USB port, Up to 1874 Mb/s throughput 2x2 MU-MIMO, 2 x 5.7 dBi internal antennas Ceiling mountable, Power consumption: 16.5 W	No	12		
4	Outdoor Access Point	Dual radio, 5 GHz 802.11ac 4 x 4 MIMO and 2.4 GHz 802.11n 2 x 2 MIMO. It has four spatial stream Multi User (MU) - 5 GHz MIMO for up to 1,733 Mb/s wireless data rate.	No	2		
5	1 KVA ON-LINE ups With (3 * 42 AH Battery) 2 Hour back up at rated load with 3 years warranty Battery life = 2 Years	Capacity: 1000 VA LB 16A Usage/Application: Power Backup Battery Type: Depending on the capacity of external batteries Phase: Single phase with ground	No	1		
6	12U Wall Mount Rack With all accessories		No	1		
7	24 Port Patch Panel Cat-6 UTP Keystone Loaded		No	1		
8	Information Outlet Cat- 6 UTP Shuttered Single Port		No	10		
9	Patch Cord Cat-6 UTP Molded 1.5mtr		No	43		
10	Cat-6, 4 Pair, UTP		Mtr.	600		
11	Cable Conduit		Mtr.	400		
12	Power Cable (3 Core)		Mtr.	30		

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13	Electrical termination Charges including supply of Switches & Sockets		No	1		
14	OFC Termination Charges		No	1		
GIRLS HOSTEL COMPLEX (MAHESWARI, GHANTESWARI & SAMALESWARD)						
1	Layer-2 PoE switch with 24 x10/100/1000 Base-T & 4 x Gigabit SFP Port	Total System Ports: 28 x Gigabit Ethernet RJ-45 Ports: 24 x Gigabit Ethernet SFP Ports: 4 x SFP CPU: 800 MHz ARM Layer 3 Interface: Configuration of Layer 3 interface on physical port, Link Aggregation (LAG), VLAN interface, or loopback interface Classless Inter domain Routing (CIDR): Support for classless inter domain routing	No	4		
2	SM Gigabit SFP Transceiver for above switch	1 x 1000 Mbit/s with LC connector Network size - length of cable Single mode fiber (SM) 9/125 μ m: 0 - 20 km (Link Budget at 1310 nm = 0 - 10,5 dB; A = 0,4 dB/km; D = 3,5 ps/(nm*km))	No	5		
3	Indoor Access Point	Gigabit Ethernet port with PoE PD USB port, Up to 1874 Mb/s throughput 2x2 MU-MIMO 2 x 5.7 dBi internal antennas Ceiling mountable Power consumption: 16.5 W	No	15		
4	Outdoor Access Point	Dual radio, 5 GHz 802.11ac 4 x 4 MIMO and 2.4 GHz 802.11n 2 x 2 MIMO. It has four spatial stream Multi User (MU) - 5 GHz MIMO for up to 1,733 Mb/s wireless data rate.	No	4		
5	1 KVA ON-LINE ups With (3 * 42 AH Battery) 2 Hour back up at rated load with 3 years warranty Battery life = 2 Years	Capacity: 1000 VA LB 16A Usage/Application: Power Backup Battery Type: Depending on the capacity of external batteries Phase: Single phase with ground	No	4		
6	12U Wall Mount Rack With all accessories		No	4		
7	24 Port Patch Panel Cat-6 UTP Keystone Loaded		No	4		
8	Information Outlet Cat-6 UTP Shuttered Single Port		No	17		
9	Patch Cord Cat-6 UTP Molded 1.5mtr		No	34		
10	Cat-6, 4 Pair, UTP		Mtr.	900		
11	Fiber Cable Conduit		Mtr.	800		
12	Power Cable (3 Core)		Mtr.	60		
13	Electrical termination Charges including supply of Switches & Sockets		No	1		
14	OFC Termination Charges		No	3		

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GUEST HOUSE & BOYS HOSTEL COMPLEX (VEER SURENDRA SAI & GANGADHAR)						
1	Layer-2 PoE switch with 24 x 10/100/1000 Base-T & 4 x Gigabit SFP Port	Total System Ports: 28 x Gigabit Ethernet RJ-45 Ports: 24 x Gigabit Ethernet SFP Ports: 4 x SFP CPU: 800 MHz ARM Layer 3 Interface: Configuration of Layer 3 interface on physical port, Link Aggregation (LAG), VLAN interface, or loopback interface Classless Inter domain Routing (CIDR): Support for classless inter domain routing	No	3		
2	SM Gigabit SFP Transceiver for above switch	1 x 1000 Mbit/s with LC connector Network size - length of cable Single mode fiber (SM) 9/125 μ m: 0 - 20 km (Link Budget at 1310 nm = 0 - 10,5 dB; A = 0,4 dB/km; D = 3,5 ps/(nm*km))	No	4		
3	Indoor Access Point	Gigabit Ethernet port with PoE PD USB port Up to 1874 Mb/s throughput 2x2 MU-MIMO 2 x 5.7 dBi internal antennas Ceiling mountable Power consumption: 16.5 W	No	10		
4	Outdoor Access Point	Dual radio, 5 GHz 802.11ac 4 x 4 MIMO and 2.4 GHz 802.11n 2 x 2 MIMO. It has four spatial stream Multi User (MU) - 5 GHz MIMO for up to 1,733 Mb/s wireless data rate.	No	4		
5	1 KVA ON-LINE ups With (3 * 42 AH Battery) 2 Hour back up at rated load with 3 warranty Battery life = 2 Years	Capacity: 1000 VA LB 16A Usage/Application: Power Backup Battery Type: Depending on the capacity of external batteries Phase: Single phase with ground	No	3		
6	12U Wall Mount Rack with all accessories		No	3		
7	24 Port Patch Panel Cat-6 UTP Keystone Loaded		No	3		
8	Information Outlet Cat-6 UTP Shuttered Single Port		No	32		
9	Patch Cord Cat-6 UTP Molded 1.5mtr		No	20		
10	Cat-6, 4 Pair, UTP		Mtr.	1700		
11	Cable Conduit		Mtr.	1400		
12	Power Cable (3 Core)		Mtr.	100		
13	Electrical termination Charges including supply of Switches & Sockets		No	3		
14	OFC Termination Charges		No	3		



PROPOSAL FOR WI-FI SETUP AT COLLEGE OF AGRICULTURE, BHAWANIPATNA

SL No	Item Description*	Specifications	UoM	Qty*	Unit Price (Rs.)	Total Price (Rs.)
1	NGFW for 300 concurrent users Advanced Gateway Security Suite Bundle For 3 Years Ransomware Protection	Firewall throughput: 2.6 Gbps Threat Prevention throughput 1.2 Gbps IPsec VPN throughput: 1.1 Gbps Gbps Max concurrent sessions: 200,000 New sessions per second 34,000 Virtual systems: 1/2 Interface Modes: L2, L3, tap, virtual wire (transparent mode) VLANs:802.1Q VLAN tags per device/per interface: 4,094/4,094 Aggregate interfaces (802.3ad), LACP Routing: OSPFv2/v3 with graceful restart, BGP with graceful restart, RIP, static routing	No	1		
2	Layer-2 PoE switch with 24 x10/100/1000 Base-T & 4 x Gigabit SFP Port	Total System Ports: 28 x Gigabit Ethernet RJ-45 Ports: 24 x Gigabit Ethernet SFP Ports: 4 x SFP CPU: 800 MHz ARM Layer 3 Interface: Configuration of Layer 3 interface on physical port, Link Aggregation (LAG), VLAN interface, or loopback interface Classless Inter domain Routing (CIDR): Support for classless inter domain routing	No	12		
3	SM Gigabit SFP Transceiver for above switch	1 x 1000 Mbit/s with LC connector Network size - length of cable Single mode fiber (SM) 9/125 μm: 0 - 20 km (Link Budget at 1310 nm = 0 - 10,5 dB; A = 0,4 dB/km; D = 3,5 ps/(nm*km))	No	10		
4	Indoor Access Point	Gigabit Ethernet port with PoE PD USB port Up to 1874 Mb/s throughput 2x2 MU-MIMO 2 x 5.7 dBi internal antennas Ceiling mountable Power consumption: 16.5 W	No	45		
5	Outdoor Access Point	Dual radio, 5 GHz 802.11ac 4 x 4 MIMO and 2.4 GHz 802.11n 2 x 2 MIMO. It has four spatial stream Multi User (MU) - 5 GHz MIMO for up to 1,733 Mb/s wireless data rate.	No	6		
6	6 KVA ON-LINE ups With (6 * 100 AH Battery) 2 Hour back up at rated load with 3 warranty Battery life = 3 Years	Capacity: 600 VA / 4800 W Phase: Single phase with ground Frequency Range: 46Hz ~ 54Hz @ 50Hz system 56Hz ~ 64Hz @ 60Hz system Output Voltage: 220/230/240VAC AC Mode: 84% Battery Mode:83% Overload AC Mode 100% ~ 105%: 10min, 105% ~ 125%: 1min, >125% : 1sec Battery Mode 100% ~ 105%: 30sec, 105% ~ 125%: 10sec, >125% : 1sec	No	1		
7	1 KVA ON-LINE ups With (3 * 42 AH Battery) 2 Hour back up at rated load with 3 years warranty Battery life = 2 Years	Capacity: 1000 VA LB 16A Usage/Application: Power Backup Battery Type: Depending on the capacity of external batteries Phase: Single phase with ground	No	8		
8	12U Wall Mount Rack With all accessories		No	9		

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9	24 Port Patch Panel Cat-6 UTP Keystone Loaded		No	12		
10	Information Outlet Cat-6 UTP Shuttered Single Port		No	130		
11	Patch Cord Cat-6 UTP Molded 1.5mtr		No	200		
12	Cat-6, 4 Pair, UTP		Mtr.	5000		
13	Cat-6, 4 Pair, STP		Mtr.	405		
14	Cable Conduit		Mtr.	2900		
15	Power Cable (3 Core)		Mtr.	300		
16	Electrical termination Charges including supply of Switches & Sockets		No	10		
17	12 Core SM 9/125um double sheath Unitube Outdoor Cable		Mtr.	3500		
18	LC-LX Duplex Fiber Patch Cord Sm 9/125um-3mtr		No	15		
19	OFC Termination Charges		No	9		

PROPOSAL FOR WI-FI SETUP AT COLLEGE OF AGRICULTURE, RANGEILUNDA

SL No	Item Description*	Specifications	UoM	Qty.*	Unit Price (Rs.)	Total Price (Rs.)
1	NGFW for 300 concurrent users Advanced Gateway Security Suite Bundle For 3 Years Ransomware Protection	Firewall throughput: 2.6 Gbps Threat Prevention throughput 1.2 Gbps IPsec VPN throughput: 1.1 Gbps Gbps Max concurrent sessions: 200,000 New sessions per second 34,000 Virtual systems: 1/2 Interface Modes: L2, L3, tap, virtual wire (transparent mode) VLANs:802.1Q VLAN tags per device/per interface: 4,094/4,094 Aggregate interfaces (802.3ad), LACP Routing: OSPFv2/v3 with graceful restart, BGP with graceful restart, RIP, static routing	No	1		
2	Layer-2 PoE switch with 24 x10/100/1000 Base-T & 4 x Gigabit SFP Port	Total System Ports: 28 x Gigabit Ethernet RJ-45 Ports: 24 x Gigabit Ethernet SFP Ports: 4 x SFP CPU: 800 MHz ARM Layer 3 Interface: Configuration of Layer 3 interface on physical port, Link Aggregation (LAG), VLAN interface, or loopback interface Classless Inter-domain Routing (CIDR): Support for classless inter-domain routing	No	9		
3	SM Gigabit SFP Transceiver for above switch	1 x 1000 Mbit/s with LC connector Network size - length of cable Single mode fiber (SM) 9/125 μm: 0 - 20 km (Link Budget at 1310 nm = 0 - 10,5 dB; A = 0,4 dB/km; D = 3,5 ps/(nm*km))	No	10		
4	Indoor Access Point	Gigabit Ethernet port with PoE PD USB port Up to 1874 Mb/s throughput 2x2 MU-MIMO 2 x 5.7 dBi internal antennas Ceiling mountable Power consumption: 16.5 W	No	28		
5	Outdoor Access Point	Dual radio, 5 GHz 802.11ac 4 x 4 MIMO and 2.4 GHz 802.11n 2 x 2 MIMO. It has four spatial stream Multi User (MU) - 5 GHz MIMO for up to 1,733 Mb/s wireless data rate.	No	8		

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6	6 KVA ON-LINE ups With (6 * 100 AH Battery) 2 Hour back up at rated load with 3 warranty Battery life = 3 Years	Capacity: 600 VA / 4800 W Phase: Single phase with ground Frequency Range: 46Hz ~ 54Hz @ 50Hz system 56Hz ~ 64Hz @ 60Hz system, Output Voltage: 220/230/240VAC; AC Mode: 84%; Battery Mode:83% Overload AC Mode 100% ~ 105%: 10min, 105% ~ 125%: 1min, >125% : 1sec ; Battery Mode 100% ~ 105%: 30sec, 105% ~ 125%: 10sec, >125% : 1sec	No	1		
7	1 KVA ON-LINE ups With (3 * 42 AH Battery) 2 Hour back up at rated load with 3 years warranty Battery life = 2 Years	Capacity: 1000 VA LB 16A Usage/Application: Power Backup Battery Type: Depending on the capacity of external batteries, Phase: Single phase with ground	No	8		
8	12U Wall Mount Rack With all accessories		No	9		
9	24 Port Patch Panel Cat-6 UTP Keystone Loaded		No	9		
10	Information Outlet Cat-6 UTP Shuttered Single Port		No	85		
11	Patch Cord Cat-6 UTP Molded 1.5mtr		No	150		
12	Cat-6, 4 Pair, UTP		Mtr.	3500		
13	Cat-6, 4 Pair, STP		Mtr.	305		
14	Cable Conduit		Mtr.	2000		
15	Power Cable (3 Core)		Mtr.	300		
16	Electrical termination Charges including supply of Switches & Sockets		No	9		
17	12 Core SM 9/125um double sheath Unitube Outdoor Cable		No	3300		
18	LC-LX Duplex Fiber Patch Cord Sm 9/125um- 3mtr		No	22		
19	OFC Termination Charges		No	9		

* The items and quantity may vary as per the physical site verification.

** All applicable taxes, duties and other charges need to be shown separately

*** Quotations must include Facility Management Service (FMS) charges for a period of three years.

NB: The supplied equipments/ instruments must compatible with the existing network for integration.

Comprehensive Annual Maintenance Charge (CAMC) for all campuses beyond the warranty period

Year	Price (in Rs.)
4 th Year	
5 th Year	
6 th Year	
7 th Year	
8 th Year	
9 th Year	
10 th Year	

Signature *Signature*