

बिड दस्तावेज़ / Bid Document

बिड विवरण/Bid Details	
बिड बंद होने की तारीख/समय /Bid End Date/Time	14-10-2026 16:00:00
बिड खुलने की तारीख/समय /Bid Opening Date/Time	15-10-2026 16:00:00
बिड पेशकश वैधता (बंद होने की तारीख से)/Bid Offer Validity (From End Date)	180 (Days)
मंत्रालय/राज्य का नाम/Ministry/State Name	Gujarat
विभाग का नाम/Department Name	Science And Technology Department Gujarat
संगठन का नाम/Organisation Name	Gujarat Biotechnology University
कार्यालय का नाम/Office Name	Gujarat Biotechnology University
शिकायत निवारण के संपर्क विवरण/ Contact details of Grievance redressal	HOD Email id :registrar@gbu.edu.in Buyer Email id: sa@gbu.edu.in
वस्तु श्रेणी /Item Category	Hiring of Agency for IT Projects- Milestone basis
अनुबंध अवधि /Contract Period	5 Year(s)
एमएसएमई के लिए अनुभव के वर्षों और टर्नओवर से छूट प्रदान की गई है/MSE Relaxation for Years of Experience and Turnover	No
स्टार्टअप के लिए अनुभव के वर्षों और टर्नओवर से छूट प्रदान की गई है /Startup Relaxation for Years of Experience and Turnover	No
विक्रेता से मांगे गए दस्तावेज़/Document required from seller	Certificate (Requested in ATC),OEM Authorization Certificate,Additional Doc 1 (Requested in ATC),Additional Doc 2 (Requested in ATC),Additional Doc 3 (Requested in ATC),Additional Doc 4 (Requested in ATC) *In case any bidder is seeking exemption from Experience / Turnover Criteria, the supporting documents to prove his eligibility for exemption must be uploaded for evaluation by the buyer
क्या आप निविदाकारों द्वारा अपलोड किए गए दस्तावेजों को निविदा में भाग लेने वाले सभी निविदाकारों को दिखाना चाहते हैं? संदर्भ मेन् है/Do you want to show documents uploaded by bidders to all bidders participated in bid?	Yes (Documents submitted as part of a clarification or representation during the tender/bid process will also be displayed to other participated bidders after log in)
बिड लगाने की समय सीमा स्वतः नहीं बढ़ाने के लिए आवश्यक बिड की संख्या / Minimum number of bids required to disable automatic bid extension	3

बिड विवरण/Bid Details	
दिनों की संख्या, जिनके लिए बिड लगाने की समय-सीमा बढ़ाई जाएगी। / Number of days for which Bid would be auto-extended	7
ऑटो एक्सटेंशन अधिकतम कितनी बार किया जाना है। / Number of Auto Extension count	3
बिड से रिवर्स नीलामी सक्रिय किया/Bid to RA enabled	Yes
रिवर्स नीलामी योग्यता नियम/RA Qualification Rule	H1-Highest Priced Bid Elimination
बिड का प्रकार/Type of Bid	Two Packet Bid
तकनीकी मूल्यांकन के दौरान तकनीकी स्पष्टीकरण हेतु अनुमत समय /Time allowed for Technical Clarifications during technical evaluation	3 Days
मूल्यांकन पद्धति/Evaluation Method	Total value wise evaluation
मूल्य दर्शाने वाला वित्तीय दस्तावेज ब्रेकअप आवश्यक है / Financial Document Indicating Price Breakup Required	Yes
मध्यस्थता खंड/Arbitration Clause	No
सुलह खंड/Mediation Clause	No

ईएमडी विवरण/EMD Detail

एडवाइजरी बैंक/Advisory Bank	State Bank of India
ईएमडी राशि/EMD Amount	70000

ईपीबीजी विवरण /ePBG Detail

एडवाइजरी बैंक/Advisory Bank	State Bank of India
ईपीबीजी प्रतिशत (%) /ePBG Percentage(%)	5.00
ईपीबीजी की आवश्यक अवधि (माह) /Duration of ePBG required (Months).	62

(a). जेम की शर्तों के अनुसार ईएमडी छूट के इच्छुक बिडर को संबंधित कैटेगरी के लिए बिड के साथ वैध समर्थित दस्तावेज़ प्रस्तुत करने है। एमएसई कैटेगरी के अंतर्गत केवल वस्तुओं के लिए विनिर्माता तथा सेवाओं के लिए सेवा प्रदाता ईएमडी से छूट के पात्र हैं। व्यापारियों को इस नीति के दायरे से बाहर रखा गया है।/EMD EXEMPTION: The bidder seeking EMD exemption, must submit the valid supporting document for the relevant category as per GeM GTC with the bid. Under MSE category, only manufacturers for goods and Service Providers for Services are eligible for exemption from EMD. Traders are excluded from the purview of this Policy.

(b). ईएमडी और संपादन जमानत राशि, जहां यह लागू होती है, लाभार्थी के पक्ष में होनी चाहिए। / EMD & Performance security should be in favour of Beneficiary, wherever it is applicable.

(c). ईएमडी और संपादन जमानत राशि लाभार्थी के पक्ष में होनी चाहिए। / Earnest Money Deposit (EMD) shall also be accepted by

the buyer in the form of a surety bond.

लभार्थी /Beneficiary :

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EMD and PBG in favor of "GUJARAT BIOTECHNOLOGY UNIVERSITY", Gandhinagar
(--)

बोली विभाजन लागू नहीं किया गया/ Bid splitting not applied.

एमआईआई अनुपालन/MII Compliance

एमआईआई अनुपालन/MII Compliance	Yes
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एमएसई खरीद वरीयता/MSE Purchase Preference

एमएसई खरीद वरीयता/MSE Purchase Preference	No
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1. Estimated Bid Value indicated above is being declared solely for the purpose of guidance on EMD amount and for determining the Eligibility Criteria related to Turn Over, Past Performance and Project / Past Experience etc. This has no relevance or bearing on the price to be quoted by the bidders and is also not going to have any impact on bid participation. Also this is not going to be used as a criteria in determining reasonableness of quoted prices which would be determined by the buyer based on its own assessment of reasonableness and based on competitive prices received in Bid / RA process.

2. Reverse Auction would be conducted amongst all the technically qualified bidders except the Highest quoting bidder. The technically qualified Highest Quoting bidder will not be allowed to participate in RA. However, H-1 will also be allowed to participate in RA in following cases:

- i. If number of technically qualified bidders are only 2 or 3.
- ii. If Buyer has chosen to split the bid amongst N sellers, and H1 bid is coming within N.
- iii. In case Primary product of only one OEM is left in contention for participation in RA on elimination of H-1.
- iv. If L-1 is non-MSE and H-1 is eligible MSE and H-1 price is coming within price band of 15% of Non-MSE L-1
- v. If L-1 is non-MII and H-1 is eligible MII and H-1 price is coming within price band of 20% of Non-MII L-1

एक्सेल में अपलोड किए जाने की आवश्यकता /Excel Upload Required :

Bidder have to submit Price Breakup - [1790158941.xlsx](#)

अतिरिक्त योग्यता /आवश्यक डेटा/Additional Qualification/Data Required

Buyer to specify Minimum number of IT Professionals on payroll of service provider and specify documentary evidence:"Kindly refer to the attached Scope of Work and RFP document for detailed project requirements, technical specifications, and other relevant information.

Certification Requirements of service provider:"Kindly refer to the attached Scope of Work and RFP document for detailed project requirements, technical specifications, and other relevant information

Scope of Work:[1790159017.pdf](#)

Payment Terms:[1790158995.pdf](#)

Pre-Qualification Criteria:[1790158998.pdf](#)

Instructions to Bidder:[1790159001.pdf](#)

Additional Document 1:[1790159004.pdf](#)

Additional Document 2:[1790159007.pdf](#)

Additional Document 3:[1790159010.pdf](#)

Hiring Of Agency For IT Projects- Milestone Basis (1)

तकनीकी विशिष्टियाँ /Technical Specifications

विवरण/ Specific ation	मूल्य/ Values
कोर / Core	
Scope of Work	Request for Proposal (RFP) for Comprehensive Redesign, Re engineering, Upgradation, Supply, Installation, Testing, and Commissioning of Campus-wide Network Infrastructure, including Seamless Managed Wi-Fi for Gujarat Biotechnology University (G
Resources Needed	As specified in Scope of work
Deployment of core team	Onsite
Deliverables / Timeline	Request for Proposal (RFP) for Comprehensive Redesign, Re engineering, Upgradation, Supply, Installation, Testing, and Commissioning of Campus-wide Network Infrastructure, including Seamless Managed Wi-Fi for Gujarat Biotechnology University (G
एडऑन /Addon(s)	

क्रेता द्वारा निर्धारित न्यूनतम मूल्य/Minimum Floor Price defined by Buyer

क्रेता द्वारा निर्धारित न्यूनतम मूल्य/Minimum Floor Price defined by Buyer	No
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अतिरिक्त विशिष्टि दस्तावेज़ /Additional Specification Documents

प्रेषिती/रिपोर्टिंग अधिकारी /Consignees/Reporting Officer and Quantity

क्र.सं./S.No.	प्रेषिती/रिपोर्टिंग अधिकारी /Consignee Reporting/Officer	पता/Address	Quantity	अतिरिक्त आवश्यकता /Additional Requirement
1	Gohil Bhadresh Singh Gambhirsinh	382355, GUJARAT BIOTECHNOLOGY UNIVERSITY (GBU) 5M9F+9PR, Near GIFT-City, Shahpur village, Dabhoda S.O, Gandhinagar, Gujarat 382355	Project / Lumpsum Based	N/A

क्रेता द्वारा जोड़ी गई बिड की विशेष शर्तें/**Buyer Added Bid Specific Terms and Conditions**

1. **Generic**

OPTION CLAUSE 25% : The buyer can increase or decrease the contract quantity or contract duration up to 25 percent at the time of issue of the contract. However, once the contract is issued, the contract quantity or contract duration can only be increased up to 25 percent. Bidders are bound to accept the revised quantity or duration.

For lumpsum-based service contracts, the buyer may increase the scope of work and contract value up to 25 percent with the consent of the service provider

2. **Buyer Added Bid Specific ATC**

Buyer Added text based ATC clauses

Please Refer the Attached Scope of Work.

अस्वीकरण/**Disclaimer**

The Additional Terms and Conditions (ATC) have been incorporated by the Buyer after approval of their Competent Authority. The Buyer, is solely responsible for the impact of these clauses on the bidding process, its outcome, and consequences thereof including any restriction arising in the bidding process due to these ATCs and including the modification of technical specifications and / or terms and conditions governing the bid. All representations / grievances pertaining to the ATC clauses shall be raised with the buyer organization directly and not with GeM. If any of the clause(s) is/are incorporated by the Buyer regarding the following, the bid & resultant contract shall be treated as null & void. Further, GeM reserves the right, at its sole discretion, to cancel the bid forthwith, without issuance of any prior notice or intimation :-

1. Publishing Custom / BOQ bids for items for which regular GeM categories are available (unless such Custom / BOQ item is bunched with the major regular product Category Item).
2. Mandating procurement of / from specific Brand / Make / Model / Manufacturer / Dealer except in case of Single Bid / Proprietary Article Certificate (PAC) Buying.
3. Inclusion of disqualification criteria related to suspension of seller / service provider, where such suspension period has already expired.
4. Mandating submission of documents (other than EMD and signed Integrity Pact - which can be submitted within 5 days of bid opening) in physical form as a pre-requisite to qualify bidders.
5. Publishing bids on GeM for procurement of works.
6. Procurement of Goods by creating a Service bid on GeM & vice-versa.
7. Seeking sample with bid or approval of samples during bid evaluation process. However, trial / sample, as the case may be, shall be permitted in cases where trial / sample are allowed as per approved and published procurement policy of the Buyers' controlling Ministry / Department / State / Public Sector Enterprises Headquarters. If there is any violation of trial / sample clause with regard to approved policy of the Buyers' Ministry / Department / State / Public Sector Enterprises Headquarters, then this is to be determined and redressed by the concerned Buyer Organisation only.
8. Seeking experience from specific organization / department / institute only or from foreign / export experience.
9. Creating bid for items from incorrect categories.
10. Reference of conditions published on any external site or reference to external documents/clauses.
11. Asking for any Tender fee / Bid Participation fee, as the case may be.
12. Buyer added ATC Clauses which are in contravention of clauses defined in bid detail section, including specifications, EMD Detail, ePBG Detail and MII and MSE Purchase Preference sections of the bid, unless otherwise allowed by the applicable GeM GTC.
13. Any ATC clause in contravention with GeM GTC Clause 4 (xiii) (h) will be invalid. In case of multiple L1 bidders against a service bid, the buyer shall place the Contract by selection of a bidder amongst the L-1 bidders through a Random Algorithm executed by GeM system.

14. In a category based bid, adding additional items, through buyer added, additional scope of work/ additional terms and conditions/or any other document. If buyer needs more items along with the main item, the same must be added through bunching category based items or by bunching custom catalogues or bunching a BoQ with the main category based item, the same must not be done through ATC or Scope of Work.

Further, if any seller has any objection/grievance against these additional clauses or otherwise on any aspect of this bid, they can raise their representation against the same by using the Representation window provided in the bid details field in Seller dashboard after logging in as a seller. Buyer is duty bound to reply to all such representations and would not be allowed to open bids if he fails to reply to such representations.

All GeM Sellers/Service Providers shall ensure full compliance with all applicable labour laws, including the provisions, rules, schemes and guidelines under the four Labour Codes i.e. the Code on Wages, 2019; the Industrial Relations Code, 2020; the Occupational Safety, Health and Working Conditions Code, 2020; and the Code on Social Security, 2020 as and when notified and brought into force by the Government of India.

For all provisions of the Labour Codes that are pending operationalisation through rules, schemes or notifications, the corresponding provisions of the pre-existing labour enactments (such as The Minimum Wages Act, 1948, The Payment of Wages Act, 1936, The Payment of Bonus Act, 1965, The Equal Remuneration Act, 1976, The Payment of Gratuity Act, 1972, etc. and relevant State Rules) shall continue to remain applicable.

The Seller/ Service Providers shall, therefore, be responsible for ensuring compliance under:

- **All notified and enforceable provisions of the new Labour Codes as mentioned hereinabove; and**
- **All operative provisions of the erstwhile Labour Laws until their complete substitution.**

All obligations relating to wages, social security, safety, working conditions, industrial relations etc. and any other statutory requirements shall be strictly met by the Seller/ Service Provider. Any non-compliance shall constitute a breach of the contract and shall entitle the Buyer to take appropriate action in accordance with the contract and applicable law.

This Bid is governed by the General Terms and Conditions, conditions stipulated in Bid and Service Level Agreement specific to the Service, as the case may be, as provided in the Marketplace.

However, in case of Service, if any condition specified in General Terms and Conditions is contradicted by the conditions stipulated in Service Level Agreement specific to said Service, then it will over-ride the conditions in the General Terms and Conditions.

This Bid is governed by the [सामान्य नियम और शर्तें/General Terms and Conditions](#), conditions stipulated in Bid and [Service Level Agreement](#) specific to this Service as provided in the Marketplace. However in case if any condition specified in सामान्य नियम और शर्तें/General Terms and Conditions is contradicted by the conditions stipulated in Service Level Agreement, then it will over ride the conditions in the General Terms and Conditions.

जेम की सामान्य शर्तों के खंड 26 के संदर्भ में भारत के साथ भूमि सीमा साझा करने वाले देश के बिडर से खरीद पर प्रतिबंध के संबंध में भारत के साथ भूमि सीमा साझा करने वाले देश का कोई भी बिडर इस निविदा में बिड देने के लिए तभी पात्र होगा जब वह बिड देने वाला सक्षम प्राधिकारी के पास पंजीकृत हो। बिड में भाग लेते समय बिडर को इसका अनुपालन करना होगा और कोई भी गलत घोषणा किए जाने व इसका अनुपालन न करने पर अनुबंध को तत्काल समाप्त करने और कानून के अनुसार आगे की कानूनी कार्रवाई का आधार होगा।/In terms

of GeM GTC clause 26 regarding Restrictions on procurement from a bidder of a country which shares a land border with India, any bidder from a country which shares a land border with India will be eligible to bid in this tender only if the bidder is registered with the Competent Authority. While participating in bid, Bidder has to undertake compliance of this and any false declaration and non-compliance of this would be a ground for immediate termination of the contract and further legal action in accordance with the laws.

---धन्यवाद/Thank You---



**Request for Proposal (RFP) for
Comprehensive Redesign, Re-
engineering, Upgradation, Supply,
Installation, Testing, and
Commissioning of Campus-wide
Network Infrastructure, including
Seamless Managed Wi-Fi for Gujarat
Biotechnology University (GBU)**

S/N	Eligibility Criteria	Attachments
1.	The bidder should be a registered company (registered under Indian Companies Act, 1956 or Indian Companies Act, 2013) in India and must have 3 years of existence in India as on bid submission.	Copy of certificate of Incorporation, PAN and GST registration Certificate.
2.	The bidder should have a total Average turnover of Rs. 64 Lakhs (Minimum) in the last three financial years as on the bid submission date.	The copies of Audited Annual Accounts/Balance Sheet along with Profit & Loss Account and CA Certified Statement for last three financial years as on bid submission shall be attached along with the bid. UDIN number should available in CA certificate.
3.	The OEM of the proposed product should have a total Average turnover of Rs. 160 Lakhs (Minimum) in the last three financial years as on bid submission. Project means Wi-Fi, networking, etc.	The copies of Audited Annual Accounts/Balance Sheet along with Profit & Loss Account and CA Certified Statement for last three financial years as on bid submission shall be attached along with the bid. UDIN number should available in CA certificate.
4.	The bidder should be an established IT System Integrator and should have been engaged in Wi-Fi projects with the following capacity during the last 3 years in any Central / State Government/PSU/Listed Company • One work order having a value of Rs. 25 Lakh or • Two work orders, each work order having a value of Rs. 16 Lakh or • Three work orders, each work order having a value of Rs. 12 Lakh All work orders/contracts should be in the name of the bidder.	Details of such projects undertaken along with work order/purchase order copy/clients' on-going (along with client certificate)/ completion certification with the details w.r.t to the clause should be enclosed.
5.	OEM should have supplied (Wi-Fi, Switch, etc.) value of Rs. 80 Lakhs. Work order should be available in the last three financial years as on bid submission. OEM: Wi-Fi, networking, etc.	Details of such projects undertaken along with work order/purchase order copy/clients' ongoing or completion certification with the details w.r.t to the clause should be enclosed.

6.	Bidder and OEM should not be debarred in the last two years by any Ministry of the Government of India or by any State Government of India or any of the Government PSUs at the time of bidding.	Self-Declaration/Certificate/affidavit mentioning that the Bidder is not blacklisted as per the clause.
7.	The bidder should be authorized by the OEMs of the proposed equipment/devices to bid for this tender. AND The proposed solution should not be End of Support (EoS) for 5 years from the date of installation	MAF for Authorized partner. Self-declaration if the bidder is an OEM.
8.	The Bidder should have at least one office in Gujarat. If the Bidder does not have any office in Gujarat, then the bidder should submit a letter of undertaking to open the office in Gujarat within 45 days from the date of award.	The copy of Property tax bill/Electricity Bill/Telephone Bill/GST/CST should be enclosed. Registration/Lease agreement should be submitted as proof. Or Undertaking Letter should be enclosed.

Note:

1. All the details and the supportive documents for the above-mentioned items should be uploaded in the bid.
2. Bidder's experience and bidder's turnover criteria will not be considered for the GeM bid; the bidder must match the eligibility criteria, experience, and bidder's turnover criteria, as mentioned in this document, and will be considered for evaluation.
3. The bidder should be authorized by the OEM to quote this bid. MAF of the Wi-Fi, networking, and security components should be submitted.

Scope of Work

Background

Gujarat Biotechnology University (GBU) currently operates with multiple Internet Service Providers (ISPs) and a centralized firewall-based network architecture, supporting critical services such as:

- Academic & Administrative LAN
- Campus-wide Wi-Fi
- CCTV Surveillance System
- Servers & Applications
- Cloud and Government Network Connectivity

Existing Internet Links

1. 1 Gbps – NKN
2. 512 Mbps – RailTel
3. 512 Mbps – GSWAN (Fiber)
4. 15 Mbps – GSWAN (Radio)
5. 100 Mbps – Jio Fiber

The entire network is presently protected through **Sophos Firewall Model XGS4300 (X43010G42WBFH38)** with Base Protection, Network Protection, Web Protection, NDR Essentials for Firewall, Central Orchestration, DNS Protection and Enhanced Support, valid for 3 years.

However, VLAN-based network segregation is currently not implemented. As a result, users are experiencing low speeds, frequent interruptions, suboptimal bandwidth utilization and overall network performance degradation.

Maximum Concurrent Users

For the purpose of network design, capacity planning, and sizing, the following maximum concurrent users/devices may be considered:

- Desktop and Laptop Devices: 400
- Mobile Devices: 600
- **Total ~ 1000 devices**

Existing Wi-Fi Infrastructure

Currently, GBU has a total of **66 Access Points**, comprising:

- 14 Nos. D-Link DAP-2610 AC1300 Wave 2 Dual-Band PoE Access Points
- 49 Nos. D-Link DAP-X2810 AX1800 Wi-Fi 6 Dual-Band PoE Access Points
- 3 Nos. D-Link DAP-X3060OU AX3000 Wi-Fi 6 Outdoor PoE Access Points

All the existing Access Points are configured and centrally managed through **D-Link Nuclias Connect**, which is a free/open-source software-based controller.

Switches: (total 20)

- 16nos of D-Link (DGS 1210 28P),
- 2 nos of DGS 3630 28TC, and
- 2 nos of Netgear ProSAFE 24-port PoE+ Gigabit

Existing Internet Routing / Firewall Configuration

For GSWAN-based web applications, GSWAN connectivity is utilized. For general Internet browsing, the current priority is configured as follows:

- NKN
- RailTel
- Other available Internet links

Automatic Internet link failover/switchover rules are presently configured in the Sophos Firewall.

Therefore, the System Integrator (SI) shall be responsible for addressing the existing network performance problems and connectivity issues by integrating the existing infrastructure/inventory with the newly proposed equipment under this RFP, ensuring compatibility, interoperability, optimal utilization, and seamless operation of the complete network.

The SI may also relocate, shift or re-position existing network equipment, including existing Access Points, wherever required, to achieve the best possible coverage, capacity, performance, seamless roaming and connectivity in coordination with the newly proposed infrastructure.

Requirement

The requirement consists of redesigning, reengineering and upgrading the existing Campus-wide Network Infrastructure, including implementation of a seamless, uninterrupted and centrally managed Campus-wide Wi-Fi network for Gujarat Biotechnology University using user-friendly and latest technology.

The Project shall be implemented on a **turnkey basis** at the Gujarat Biotechnology University, GIFT City Campus, Gandhinagar.

The successful bidder shall be responsible for Supply, Installation, Testing and Commissioning (SITC), redesigning, reengineering, integration, upgradation, configuration, optimization and Operation & Maintenance (O&M) for a period of 5 years for the proposed Hardware, Software and other Allied Accessories at the GBU Campus.

The **primary category of this bid is Wi-Fi Access Point** for the purpose of experience criteria evaluation.

1. The scope shall cover Supply, Installation, Testing, Commissioning, redesigning, reengineering, integration and upgradation of the existing Wi-Fi and Network Infrastructure, along with Operation & Maintenance (O&M) and all equipment/components as mentioned in this tender.

2. The bidder shall be responsible for all components and activities required for successful implementation and operation of the proposed Wi-Fi and Local Area Network, including but not limited to networking and security devices, LAN/CAT6 UTP/Fiber/Electrical cabling, laying, structured cabling, tagging and ducting, digging and refilling, road cutting and resurfacing, network architecture design, racks and accessories, junction boxes, enclosures, cables, conduits, UPS and any other devices/accessories required for successful implementation and operation of the Wi-Fi and Local Area Network.

3. The bidder shall also be responsible for **relocation, shifting or change of location of existing installed Access Points**, wherever required, to achieve the best possible coverage, performance and seamless Wi-Fi connectivity and to ensure proper integration and interoperability with the newly installed Access Points.

4. The proposed system shall support **multiple VLANs** to segregate different categories of users and services and to provide access based on user privileges.

5. Bidders are required to visit the **Gujarat Biotechnology University, GIFT City Campus, Gandhinagar**, and inspect all relevant installation locations, Wi-Fi/network requirements, existing network infrastructure, cabling, Internet connectivity, firewall configuration and existing Wi-Fi setup before submitting the bid.

The bidder shall be deemed to have considered all site conditions and requirements while submitting its bid.

6. Complete **network integration and interoperability** shall be provided between all newly supplied items/components and the existing LAN, Internet connectivity, firewall and existing network infrastructure of GBU.

The bidder shall ensure that the proposed solution works seamlessly with the existing infrastructure and inventory wherever such integration is required.

7. The proposed Wi-Fi system shall support **seamless roaming throughout the campus** for users/devices such as smartphones, tablets, laptops and other compatible mobile devices, including seamless movement between areas covered by existing and newly installed Access Points, wherever technically feasible.

8. The proposed system shall support multiple SSIDs, user segregation, guest user management, captive portal, Quality of Service (QoS), bandwidth management, traffic shaping, filtering and other required network access control features.

The SI shall design, supply, configure, implement and maintain a centralized Wi-Fi authentication and captive portal solution for GBU, supporting both external/guest users and internal users, as follows:

- Students/Guests: The captive portal shall enable students, guests and other authorized visitors to access GBU Wi-Fi by entering their Name and Mobile Number and completing OTP-based authentication sent to the registered mobile number.

- The system shall provide a Wi-Fi access/lease validity of 60 days for such users. After expiry of 60 days, the user shall be required to re-enter the required details and complete OTP-based authentication to continue accessing the GBU Wi-Fi network.
- Internal Users (Faculty/Staff): Faculty and staff shall be provided with individual User ID and Password-based authentication for regular access to GBU Wi-Fi through their laptops, mobile phones, tablets/iPads and other authorized devices.
- The solution shall support multiple SSIDs, role-based access, guest management, captive portal, user authentication, authorization, bandwidth management, QoS, traffic shaping and content/traffic filtering, as required by GBU.
- The SI shall ensure appropriate user/session logging, authentication records and access control mechanisms as required for operation and compliance.
- The captive portal and Wi-Fi access mechanism shall be designed and implemented in accordance with the applicable TRAI, DoT and Government of India rules, regulations, guidelines and norms governing public/private Wi-Fi access, user authentication and lawful logging/record retention, as applicable from time to time.
- The SI shall be responsible for all required hardware, software, licenses, configuration, integration and customization necessary for the above functionality and its seamless integration with the proposed Wi-Fi and existing GBU network infrastructure.

9. The successful bidder shall carry out a detailed site survey, assessment and technical study of the existing network infrastructure and proposed requirements and shall submit the required network architecture/design, coverage plan, equipment placement plan, connectivity diagrams and other relevant documents for approval by GBU before commencement of installation/implementation.

10. Training of designated GBU's IT Department/ other officials on the operation, administration, monitoring, troubleshooting and management of the implemented system shall be included in the scope and shall be provided upon commissioning of the system.

11. The successful bidder shall submit both **hard copy and soft copy of complete as-built documentation** for the entire implemented solution.

The documentation shall include, but not be limited to:

- Equipment make and model
- Serial numbers
- Network topology
- Network architecture
- Access Point locations/layout
- Switch and rack layout
- IP addressing details
- VLAN details
- SSID and authentication configuration
- Cabling details
- Fiber connectivity details
- Equipment labels/tagging
- Configuration details
- Installation and commissioning details

- Test reports
- Warranty and support details
- Relevant operating and maintenance documentation

12. Any other activity, work, service, material, accessory, configuration, integration or job which may not have been specifically mentioned in the Scope of Work but is necessary for successful completion, commissioning, integration, optimization and proper functioning of the complete Campus-wide Network and Wi-Fi solution shall be deemed to be included in the bidder's scope.

The bidder shall not claim any additional cost for such activities where they are necessary for successful completion and operation of the proposed solution.

13. Complaint Management and On-site Support

- The SI shall provide onsite technical/service support for the entire period of 5 years from the date of successful commissioning/acceptance of the solution.
- Complaint-based onsite support: Whenever any complaint, fault or service issue arises in the Wi-Fi/network infrastructure, the SI shall ensure that its qualified technical personnel reach the GBU premises and attend to and resolve the issue within the applicable SLA/response time specified in the RFP.
- Mandatory monthly preventive maintenance visit: The SI shall carry out at least one mandatory onsite visit every month throughout the 5-year support period. During each visit, the SI shall inspect and verify the health and functioning of all deployed network devices, including Access Points, switches and associated equipment, and shall check required firmware/software updates, security patches, configurations, logs, performance, connectivity and other relevant parameters. Necessary updates, patches and corrective/preventive actions shall be carried out in coordination with GBU.
- The SI shall be responsible for coordination with the OEMs of the deployed Access Points and the existing/proposed Firewall OEM, as and when required, for troubleshooting, configuration, firmware/software updates, security patches, performance optimization, interoperability issues and resolution of complex technical problems.
- The SI shall be responsible for all required hardware, software, licenses, configuration, customization, integration and technical support necessary for the above functionality and for ensuring smooth, secure and uninterrupted operation of the GBU Wi-Fi network throughout the 5-year period.

14. Report Management, Logging and Cyber Incident Support

The SI shall provide and maintain an online report management facility for GBU for monitoring, analysis, audit and regulatory compliance. The system shall provide, at minimum, the following reports and facilities:

- Monthly report of total users/devices that have logged into or accessed the GBU Wi-Fi/Network, including relevant authentication and access details.
- User-wise usage reports, including user identity, device details, login/access time, duration of access, data usage and other relevant usage information, as available from the deployed solution.
- Provision for generation of date-wise, user-wise, device-wise and other required reports as may be required by GBU for network monitoring, administration and audit purposes.

- The SI shall provide all other reports, logs and information necessary to comply with the applicable TRAI, DoT, Government of India and Government of Gujarat rules, regulations, guidelines and instructions relating to Wi-Fi/network access, user authentication, logging and record retention.
- The online report management facility shall allow authorized GBU officials to view and generate reports as required, with suitable access control.
- Cyber Crime / Security Incident Support: In the event of any cyber crime, security incident, misuse or unlawful activity originating from or involving the GBU Wi-Fi/Network, the SI shall provide necessary technical assistance, logs, access records and relevant technical information to GBU and/or the competent Government/Law Enforcement authorities, as legally permissible, to assist in identifying and tracing the concerned user/person/device and investigating the incident.
- The SI shall coordinate with the relevant OEMs and service providers, wherever required, for retrieval/analysis of logs, technical investigation and resolution of such incidents.
- The SI shall ensure that required logs and reports are securely maintained and retrievable for the applicable period prescribed under the prevailing Government/Regulatory requirements.

15. Futuristic Planning, Scalability and Rate Contract for Future Expansion

- GBU has additional buildings under construction, which will be operationalized in the future. The proposed network infrastructure shall therefore be designed with adequate scalability, compatibility and future expansion capability so that the network can be extended to these newly constructed buildings without requiring major replacement or redesign of the proposed core network infrastructure.
- The proposed switches and other active network equipment shall have sufficient capacity, available interfaces/ports, performance, and technical compatibility to support future expansion of the GBU campus network. The proposed solution shall be capable of integrating additional network segments/buildings when they become operational.
- At the time of future expansion, GBU may require additional network switches, LAN ports, LAN cabling, fiber/other cables, connectors, Access Points and associated passive/active networking components. Such additional requirements shall be capable of being integrated seamlessly with the network infrastructure proposed under this RFP.
- The bidder shall accordingly consider future scalability and interoperability while designing and proposing the network architecture, switches, Access Points and other equipment under this RFP.
- Rate Contract for Future Requirements: The rates quoted by the SI for items such as LAN ports, LAN cable on a per-meter basis, fiber/other cables, connectors, Access Points, switches and other applicable network components shall also be treated as Rate Contract rates for future expansion requirements of GBU.
- During the validity of the Rate Contract, if GBU requires additional quantities of such items for newly operationalized buildings or any other network expansion, GBU may procure the required items from the SI at the same approved rates and on the same applicable terms and conditions, subject to the requirements of GBU and applicable procurement rules.
- The SI shall ensure that any additional equipment/items procured under such future expansion are compatible with the existing/proposed network infrastructure and can be integrated without adversely affecting the performance, security, manageability or scalability of the GBU network.

Security

- a) The entire Wi-Fi network should be fully secure, and the successful bidder should implement multiple authentication mechanisms.
- b) Every user should get access to only those services for which they are authorized.
- c) The successful bidder has to configure the system on Rule-based Access Rights.
- d) Data communication between devices should take place in an encrypted form to ensure end-to-end security of user information/ data, along with the implementation of Wireless Security Standards such as WPA and WPA2.
- e) A Secure Guest Portal would be configured for Guest User Access if required. The Guest should also be able to log in through SMS Authentication / Email authentication if required.
- f) The Bidder has to ensure compliance with all Regulatory and Legal guidelines issued by the Department of Telecommunications from time to time. Log management should be done by the bidder. Any hardware, software, or license additionally required to maintain compliance has to be borne by the bidder, and no additional charges will be paid by the tenderer.
- g) At no point would GIL/GBU or its agencies be responsible for any non-compliance arising from non-adherence on the side of the successful bidder.

Implementation

- a) The Bidder shall maintain the deployed assets after implementation. Further, the bidder will be responsible for day-to-day maintenance, 24x7 warranty and support from OEM for the period of 5 years from the date of acceptance. These services would include:
- b) The Wi-Fi system should ensure all the current and updated operating systems can be installed on this system, including Windows, MAC, Android and any other
- c) Bidder will be responsible for any complex troubleshooting with the help of OEM for a period of 5 Years.
- d) All core centralized equipment would be centrally placed at GBU. Bidder has to undertake the necessary structured LAN, OFC and power cable connectivity to ensure system operations during the entire contract period.
- e) All active and passive components required for setting up the Core infrastructure, including converters, frames, mounts, other accessories, etc., would be in scope of the bidder. Bidder to provide and install mounting kit & accessories for installation of access points.

- f) The successful bidder will carry out all the works necessary to successfully implement the entire solution, including installations, configurations, and enabling services at all locations within the time period stipulated in the 'General Terms and Conditions'.
- g) The bidder will provide all the documentation, including operating and service manuals, diagrams, and test reports of the deployed Wi-Fi system.
- h) The bidder will have to arrange for all the testing equipment & tools required for installation, testing, and maintenance, etc. at his own cost.
- i) The successful Bidder will be responsible for User Creation, Privilege Assignment, and Online Support for the entire project.

Instructions to the Bidders / Terms & Conditions:

- **The last date of submission of the bid on the website of GEM.**
- **The Bidder may quote only one option (i.e., only one product can be quoted) against each item.** Bidders are required to mention the make & model of the product. (Do not write "OEM" against items as bidders are expected to give make & model of the product).
- **The successful bidder will have to:**
 - (1) Supply, install and maintain the hardware, system software and Licenses to GBU.
 - (2) 5 years Warranty support service for the proposed solution.
- If in any case, the quoted Item is not available in the market, the bidder will have to supply a Higher Version/replacement of that item at the quoted cost within the same time duration with prior approval of GIL/GBU. No "End of Life / End of Support" product should be quoted to minimize such instances.
- All the items to be quoted in this bid should be available in the Market should be available (should not End of Support) for the next 5 Years. The bidder will have to submit the undertaking from the OEM and the bidder also.
- Technical specifications indicated are minimum specifications. Bidder may quote for a better solution. The bidder should provide the following with the technical bid:
 - Make & Model Number
 - Name of Manufacturer
 - Technical Literature
 - Manufacturer's Data Sheet.
 - Compliance statement from the OEM of the proposed product on OEM letterhead
- The bidder and its OEM have to upload the compliance letter on its letterhead head duly signed by the authorized signatory & other supporting documents as asked for in the bid, in scanned format. Failing to submit the same or non-compliance/deviation from any bid terms and conditions, eligibility criteria or technical specifications may result in rejection of the bid.
- The Bidder has to examine all instructions, forms, terms, conditions and specifications in the bidding documents. Failure to furnish all information required by the bidding documents or submission of a bid not substantially responsive to the bidding documents in every respect will be at the Bidder's risk and may result in rejection of its bid.

- Bid Currency - Prices shall be quoted in Indian Rupees only. Payment for the supply of equipment's / services shall be made in Indian Rupees only.
- The bidder will have to submit **Earnest Money Deposit (E.M.D.) of Rs. 70,000/- (Rupees Seventy Thousand Only) (Refundable)** on or before the date & hours of submission of bid in a sealed cover at the office with the heading **"EMD for Request for Proposal (RFP) for Comprehensive Redesign, Re-engineering, Upgradation, Supply, Installation, Testing and Commissioning of Campus-wide Network Infrastructure including Seamless Managed Wi-Fi for Gujarat Biotechnology University (GBU)"**
- EMD as mentioned above shall be submitted in the form of Demand Draft **OR** in the form of an unconditional Bank Guarantee (which should be valid for 6 months from the last date of bid submission) in the name of **"Gujarat Biotechnology University,"** payable at **Gandhinagar** and must be submitted along with the covering letter.

Please affix the stamp of your company on the overleaf of the demand draft.

- The Successful bidder has to submit Performance Bank Guarantee @ 5% of total order value within 30 days from the date of issue of **GEM contract for the duration of 62 months** from any Nationalized Bank including the public sector bank or Private Sector Banks or Commercial Banks or Co-Operative Banks and Rural Banks (operating in India having a branch at Ahmedabad / Gandhinagar) as per the G.R. no. EMD/10/2016/328/DMO dated 01.05.2017 issued by Finance Department or further instructions issued by Finance department time to time. (The draft of the Performance Bank Guarantee is attached herewith). No interest shall be payable on the BG amount. The purchaser may invoke the above bank guarantee for any kind of recoveries, in case, the recoveries from the bidder exceed the amount payable to the bidder.

The successful bidder has to submit the EPBG to in favor of Gujarat Biotechnology University (GBU). The Performance Bank Guarantee may be discharged/ returned by GBU upon being satisfied that there has been due performance of the obligations of the Bidder under the contract. However, no interest shall be payable on the Performance Bank Guarantee.

- **Disqualification:** GIL / GBU may at its sole discretion and at any time during the evaluation of the Proposal, disqualify any bidder if the bidder has:
 - .1. Submitted the Proposal documents after the response deadline.
 - .2. Made misleading or false representations in the forms, statements and attachments submitted as per the requirements.
 - .3. Submitted a proposal that is not accompanied by required documentation or is nonresponsive.
 - .4. Failed to provide clarifications related thereto, when sought.
 - .5. Declared ineligible by any State Government, or any of the PSU in the State Government, for corrupt and fraudulent practices or has been blacklisted by any State Government or Government of India.
 - .6. Submitted a proposal with price adjustment / variation provision.
 - .7. Offered products must be completely matched with the specifications mentioned in the tender Document; any deviation will lead to the disqualification of the bidder.
 - .8. The bidder must quote for all the items mentioned in the BOQ of the bid. Incomplete bid will not be accepted.
 - .9. The bids are liable or rejection without an OEM authorization certificate.

- .10. Tender is not submitted in this prescribed Tender Form; with the stamp & signature of the authority on all the pages therein OR Tender contains vague & indefinite expressions and quoted with conditional rates.
 - .11. Any undesirable approach/means at any point of time during the tender process shall result in immediate disqualification of the bidder from the tender process.
 - .12. Firm proposes any alteration in the work specified or any conditions or corrections made in the RFP.
 - .13. Conditional proposal will be outright rejected.
 - .14. The product having higher technical specifications with respect to bid specifications will be allowed, if GIL/GBU tender committee allows. Lower side technical specification/deviation will not be allowed in any circumstances. If any bidder quotes any item with lower technical specification/deviation, the bidder will be outright rejected.
- The E.M.D. may be forfeited at the discretion of GIL/GBU, on account of one or more of the following reasons:
 - If a Bidder withdraws its bid during the period of bid validity.
 - If a Bidder does not respond to requests for clarification of their Bid
 - If a Bidder fails to co-operate in the Bid evaluation process, and
 - In case of a successful Bidder, if the Bidder fails:
 - (i) To sign the Contract as mentioned above or
 - (ii) To furnish performance bank guarantee & security deposit as mentioned above or
 - (iii) If the bidder is found to be involved in fraudulent practices.
 - If the successful bidder fails to submit the Performance Bank Guarantee & sign the Contract Form within the prescribed time limit, the EMD of the successful bidder will be forfeited. GIL also reserves the right to blacklist such bidder from participating in future tenders if sufficient cause exists.
 - **Inspection/Testing:**

The bidder will have to offer inspection in the manner as decided by GIL / GBU before delivering to the respective site or at customer sites. Any deviation found in the specification of the produced goods from the bid specification will lead to the cancellation of the order, forfeiture of EMD/PBG, and prohibition in the participation in future purchases of the Government of Gujarat. GIL/GBU will not be responsible for any time delay which may arise due to any deviation from the bid technical specification found at the time of inspection, and the bidder has to deliver and install the ordered goods within the prescribed time limit. At the time of inspection, the bidder is required to produce OEM's confirmation on OEM's letterhead for back-to-back warranty support as per tender terms & conditions.

- **Project Timelines and Payment Milestone:**

SN	Particulars of Payment	Completion Timeline (in Weeks)	Payment Terms
		T = Date of Award of GEM Contract	
1	Supply of New Equipment / Hardware, Software, Licenses, other components and non-IT Components	T + 8 Weeks	70% of the value for New Equipment/Hardware, Software and other components as per Project
2	Completion of Installation, configuration, and implementation and testing of New Equipment / Hardware and FAT (Final Acceptance Test)	T + 12 Weeks	30% Remaining payment of the value of New Equipment/Hardware, Software, and other components as per the Project,

Note:

The above-mentioned project timeline will start from the date of Issue of GEM Contract to the successful bidder.

- In case of successful bidder is found in breach of any condition(s) of bid or supply order/work order, at any stage during the course of supply/installation or warranty period, the legal action as per rules/laws, shall be initiated against the successful bidder and EMD/PBG/SD shall be forfeited, besides debarring and blacklisting the bidder concerned for the time period as decided by Govt., for further dealings with GoG.
- Bid validity will be for **180 days after the date of financial bid opening**. A bid valid for a shorter period shall be rejected as non-responsive. **If required, GIL may extend the bid validity for a further period from the date of expiry of bid validity in consultation with the successful bidder.**
- Bidders are required to quote all items, including optional add-ons as well. Incomplete bids will be treated as non-responsive and will be rejected.
- **Warranty for IT infrastructure and Services:**
 1. **Warranty:** The Successful Bidder shall provide a Comprehensive warranty for the entire contract period from the date of the Contract is issued, which will start from the Hardware/Software Setup Completion Certificate issued by GBU/GIL to the Successful Bidder as per the Implementation Completion Certificates.
 2. The Warranty period of all the Active Networking Components/Products should be 5 years, and after that, availability of 2 years of extended warranty. If Networking Components/products are declared end of life or end of support during this warranty period (total 7 years) by OEM, then OEM/Vendor should be bound to provide an equivalent or higher model of the product at no additional cost. Undertaking for the same is required from the OEM/Vendor.

- .3. If any equipment gives continuous trouble during the warranty period, the bidder shall replace the equipment with a new one (equivalent or higher of same brand) without any additional cost to the GBU.
- .4. Bidder is responsible for sizing and procuring the necessary hardware and software licenses as per the performance requirements provided in the bid. During the warranty period bidder, shall replace or augment or procure higher-level new equipment or additional licenses at no additional cost in case the procured hardware or software is not adequate to meet the service levels.
- .5. The Bidder shall ensure spares availability of equipment/devices. In case, it is not possible to repair some equipment/devices or not possible to repair at site and has to be taken out for repairs, the Bidder shall provide a suitable equivalent or higher replacement as Standby arrangement within 24 hours so that the work is not hampered. The packing /unpacking, transportation, loading / unloading, connection / disconnection, configuration / re-configuration and any associated activity with the repair and maintenance shall be the sole responsibility of the bidder. However, if standby arrangement has been made then it shall be replaced with original or functionally equivalent or higher working equipment of same brand within next 15 working business days. Non-compliance of this condition will attract the penalty of Rs. 1000 per day. The amount of penalty will be recovered from the performance bank guarantee during warranty period.
- .6. During warranty period, if the complaint is not attended within 24 hrs the penalty of Rs. 1000 per day will be apply. The amount of penalty will be recovered from the performance bank guarantee during warranty period.
- .7. The bidder shall guarantee a 99.5% uptime of all core components which is located in DC room (measured quarterly from the reports generated through measurement tool deployed by the bidder).
- .8. All Components offered in the Bill of Materials should be covered under OEM support to get backend support/benefits from Principles/OEM in terms of Free Software Update Support, 24x7 Support with 4 hours response time, Hardware Warranty Support, and defective Part replacement during the warranty period of 5 years. The new procured Hardware shall have a minimum 5-year warranty period from the FAT/Go-live date.
- .9. Any component that is reported to be down on a given date should be either fully repaired or replaced by a temporary substitute (of equivalent configuration) within the time frame indicated in the Service Level Agreement (SLA).

IMPLEMENTATION TIMELINES & PENALTIES:

The successful bidder has to complete the Installation, configuration, Commissioning, and Integration with Acceptance of the ordered work within the time period (s) specified in the table below. However, in case of any delay solely on the part of the successful bidder, TENDERER reserves the right to levy the appropriate penalties as per the table below.

SN	Particulars of Payment	Completion Timeline (in Weeks)	Penalty
		T = Date of Award of GEM Contract	
1	Submission of PBG	T + 2 Weeks	Rs. 3000/- per day for delay.
B	SITC of All New Components		
2	Supply of New Equipment/Hardware, Software, Licenses, other components and non-IT Components	T + 8 Weeks	A penalty of 0.1% per day of the delayed Product Value or proportionately.
3	Completion of Installation, configuration and Implementation and Testing	T + 12 Weeks	A penalty of 0.1% per day of the delayed Product Value or proportionately.
4	Training to user	T + 20 Weeks	A penalty of 0.1% of total value of (Hardware and software components) for delay for each day.
5	O&M for balance contract validity	After FAT & Go-live	Performance Penalty will be applicable during this period.

Note: Overall Penalty CAP is not more than 10 % of the order value.

Note:

- Material supplied, installed and commissioned as per this Bid/contract should be covered under the warranty for a period of five years from the date of FAT.
- T= Date of issuance of contract over GEM.
- Aforesaid penalty cap will not be applicable for any severe impact/incident/outage at GBU, resulting in loss to GBU.
- In case any fault arises in the installed items during the warranty period of five years, the bidder is required to either repair the faulty items or have to install the replacement (complying with the RFP specification) for faulty material without any additional cost to the Tenderer.

FINAL ACCEPTANCE TEST: To be carried out based on the following, but not limited to:

- Successful implementation, compliance of all technical and functional specifications, and scope mentioned in the RFP
- After successful installation of the System in accordance with the requirements as mentioned in the Schedule of Requirements, the Final Acceptance Test will be conducted. After successful testing, the Acceptance Test Certificate will be issued by GBU/its designated agency to the

successful bidder.

- The date on which the Acceptance Certificate is issued shall be deemed to be the date of successful commissioning of the System. Warranty and licenses should be valid for a period of 5 years from the date of issuance of the Acceptance Certificate (FAT).
- Any delay by the successful bidder in the Acceptance Testing shall render the successful bidder liable to the imposition of appropriate Penalties.
- All goods and services that are not specifically asked for certification should have quality standards applicable in India, such as ISI.

PRICE BID SCHEDULE:

Table-01

Sr.	Device Description	Unit	Item Quantity	Unit Rate Inc. GST	Total Rate
1	1. Supply, Installation, Testing and Commissioning of Wi-Fi Network Infrastructure for Gujarat Biotechnology University and 5 years Warranty support/services of quoted hardware, software, licenses, Non-IT Components and accessories to complete this proposed solution. Inclusive of all the required hardware, software, and As per the Scope of work, functional and technical requirements, including all cables & accessories, Installation, testing, commissioning, and training etc.	Lot	1		

Note:

- L1 will be the lowest sum total of rates of all line items, including GST as per GeM GTC.
- TENDERER/GIL may negotiate the prices with L1 Bidder, under each item/head offered by Bidder.
- RA has been enabled in the GEM Bid.
- After RA, the L1 Bidder has to submit a detailed price breakup in a separate sealed for the proposed solution (As per Table-02) within 3 days.

Table-02

Detail Price-Breakup

Sr.No.	Requirement	Unit	Total Qty	Unit Price(Inclusive TAX)	Total Price(Inclusive TAX)
1	Access Point - Wi-Fi with dual-antenna routers 5 GHZ	Nos.	13		
2	24-port 10G/25G SFP28 Core L3 Switch including all applicable Licenses, Cables, and accessories	Nos.	2		
3	24-ports 10/100/1000 BaseT L2 Switch with SFP+ uplink ports including all applicable Licenses, Cables, Accessories	Nos.	20		
4	10G SFP	Nos.	40		
5	DAC Cable	Nos.	10		
6	24-port patch panel loaded	Nos.	1		
7	CAT 6A I/O, single Face plate and Back box	Nos.	1		
8	12U Rack Standing Rack with Accessories and Rack Dressing	Nos.	1		
9	6-core single-mode fiber cable	Meters	1		
10	Laying Fiber Cable	Meters	1		
11	HDPE Pipe Under Ground Laying & Installation Charges For Cables	Meters	1		
12	Laying HDPE Pipe	Meters	1		
13	6 port LIU (Loaded as per fiber cable)	Nos.	1		
14	48 port LIU (Loaded as per fiber cable)	Nos.	1		
15	UTP CAT 6A Cable	Meters	1		
16	Laying CAT 6A Cable 1 Mtr.	Meters	1		
17	"25mm" PVC Pipe/Casing capping (in meter)	Meters	1		
18	Laying of PVC Pipe 1 Mtr.	Meters	1		
19	Any other item(s), equipment(s), hardware, software, license(s), accessories, modules or components not specifically mentioned in the above BoM but required for complete, functional, seamless, secure and successful implementation, integration, operation and	Lot	1		

	maintenance of the proposed network solution, including but not limited to controller, load balancer, management platform, gateways, transceivers, modules, connectors, etc.				
				Total	

1. After RA, L1 bidder has provided the price breakup for the above-mentioned Table 2 format.
2. The above-mentioned quantity of the item is estimated and for evaluation purposes only. However, at the time of issue of order, the actual quantity will be considered based on the requirements.
3. GBU reserves the right to increase or decrease the quantity of any item at the time of placing the purchase order, without increasing the quoted/accepted rates.
4. Tax will be deducted as per the Government Norms.

Item No : 1	Access Point - Wi-Fi with dual-antenna routers 5 GHZ (Indoor) rooms	
Sr	Sub-Spec	Specification
1	Wi-Fi Standard	Indoor AP, Dual Radio (2.4 GHz & 5 GHz), Wi-Fi 6 (802.11ax), 2x2 MIMO
2	Maximum Data Rate	Up to 1.6 Gbps aggregate
3	Security Features	WPA3, Enhanced Open, RADIUS client, Cipher negotiation, Supports Internal/External RADIUS server, OFDMA for multi-user efficiency
4	MU-MIMO	Supported – improves efficiency during congestion, reduces wait times
5	Power Standard	IEEE 802.3af / 802.3at compliant for PoE-based power
6	Band Steering	Supported – connects devices to best available frequency band
7	Antennas	Minimum 2 x dual-band internal antennas, 3 dBi gain or above (2.4 GHz & 5 GHz), supports 1024-QAM
8	Frequency Bands	2.4 ~ 2.5 GHz and 5.15 ~ 5.85 GHz (regulatory compliance)
9	Radio Configuration	802.11ax, 2x2 high output power design for both 2.4 GHz & 5 GHz
10	Interfaces	1 x RJ45 console port (debugging), 1 x 10/100/1000 Mbps Ethernet (PoE LAN), Factory reset, Power input
11	Management Roaming Features	SNMP v1/v2c/v3 supported, Integrates with hardware/software controllers, Can operate standalone with internal RADIUS server

		Supports 802.11k, 802.11v, 802.11r for fast roaming, Passpoint Wi-Fi (Hotspot 2.0) for seamless cellular-to-Wi-Fi handover
12	Modulation Schemes	BPSK, QPSK, 16-QAM, 64-QAM, 256-QAM, up to 1024-QAM with OFDMA; Backward compatible with 802.11a/b/g/n/ac
13	Power Options	Supports Direct Power (Adapter) and PoE
14	Certification	Certifications UL/BIS Wi-Fi Alliance: - Wi-Fi CERTIFIED a, b, g, n, ac - Wi-Fi CERTIFIED 6 (ax) - WPA, WPA2 and WPA3 Make in India product should be in compliance of GR/IR or any national standard; certification from Indian bodies i.e., TEC/TSEC, STQC, BIS, or any accredited lab by them, is a mandatory requirement to be submitted by the bidder as per the Guidelines of Ministry of Communications Department of Telecommunications No. 18-10/2017-IP dated 29.08.2018, and its revision issued time by time.
15	Warranty	5 Years
Item No :2	24-port 10G/25G SFP28 Core L3 Switch, including all applicable Licenses, Cables, Accessories (All SFPs from the same make loaded 10G/25G from Day-1)	
Sr	Specification	
1	Ports & Interfaces	Minimum 24 × 10G SFP+ ports for aggregation; at least 4 × 10G/25G SFP uplink ports. All SFPs from the same make loaded from Day-1.
2	Switching Capacity	Minimum 800 Gbps switching capacity; Minimum 300 and above Mpps throughput.
3	Form Factor	Rack-mountable; hot-swappable fan & PSU modules.
4	Redundancy	Dual hot-swappable AC/DC power supply; redundant fans.
5	Layer 2 Features	Min 150K MAC, 4K VLAN groups, VXLAN, Q-in-Q, PVLAN, ERPS, 802.1AX LAG, RSPAN/ERSPAN
6	Layer 3 Features	OSPFv2/v3, IS-IS, BGP4+, VRRPv4/v6, Bidirectional FWD Detection, IPv4 8K & IPv6 4K routes.
7	Layer Support	L2, L3, L3+ features including OSPF, BGP, IS-IS, VRRP, Policy-based Routing.
8	Virtualization	Support for MLAG / VSS / Stacking for high availability.
9	Security	802.1X, RADIUS/TACACS+, MACsec (preferred), ACLs (L2/L3/L4), DHCP Snooping, IP Source Guard.

10	Multicast	IGMP v1/v2/v3 Snooping, PIM-SM/SSM for multicast traffic in campus video/VoIP.
11	QoS	802.1p, DSCP, 8 hardware queues per port, congestion avoidance (WRED), traffic shaping.
12	Management	CLI, Web GUI, SNMP v1/v2/v3, Syslog, NetFlow/sFlow, RESTCONF/NETCONF/YANG, Telemetry.
13	IPv6 Support	Should support from Day-01.
14	Resiliency	Support for ERPS, MSTP, RSTP, and link aggregation (802.3ad).
15	Environmental	Operating temp: 0°C–45°C;
16	Warranty & Support	Minimum 5-year warranty;
Item No :3	24-ports 10/100/1000 BaseT PoE+ Ports Access L2 Switch with 4 nos. SFP+ uplink ports including all applicable Licenses, Cables, Accessories (Required SFP from same make loaded 10G/25G from Day-1)	
Sr	Specification	
1.	Form Factor	Rack-mountable chassis with redundant power supply and fan modules.
2.	Ports	Minimum 24 × 1G/2.5G/5G/10G Base-T PoE+ ports (IEEE 802.3af/at/bt) with PoE budget minimum 790W scalable to 1440W, 4 × 25G SFP28 uplink ports (loaded with OEM SFP from Day-1).
3.	PoE Features	Support for Perpetual PoE, Fast PoE, Time-based PoE scheduling, PD Alive feature.
4.	Performance	Non-blocking switching architecture, forwarding capacity minimum 760 Gbps.
5.	Layer 2 Features	VLAN (4K), 802.1Q, PVLAN, Q-in-Q, VLAN mirroring, RSPAN, ERPS .
6.	Layer 3 Features	Static Routing, RIP v1/v2, RIPng, OSPF v2/v3, VRRP v2/v3, Policy-Based Routing, Route Redistribution, IPv6 ND, IP Helper.
7.	Multicast	IGMP Snooping v1/v2/v3, MLD Snooping v1/v2, Multicast VLAN, PIM-SM/DM, MSDP, Querier.
8.	Stacking	Support for Physical/Virtual Stacking over fiber/25G ports.
9.	QoS	Traffic classification (802.1p, DSCP, ACL), policing, shaping, WRR/WRED, Three-Color Marker, CoS.
10.	Security	802.1X (Port/MAC-based), RADIUS/TACACS+, DHCP Snooping, Dynamic ARP Inspection, DoS Prevention, IP Source Guard, Port Security, ACLs (L2–L4), Guest VLAN, DAD.
11.	Management	WebUI, SSHv2, SNMP v2/v3, RMON, Syslog, NETCONF / RESTCONF, Dual image, Dual config, sFlow, LLDP/LLDP-MED.
12.	Environmental	Operating temperature: 0–50 °C or higher,
13.	Accessories	Supplied with Power cords, Fans, Console cable, Rack-mount kit, Installation guide, and software licenses from Day-1.
14.	Warranty & Support	Minimum 5 years warranty;
Item No :4	10G SFP	
1	Transceiver Type: SFP+	

2	Fibre Media Support: Multimode/Single-Mode	
3	Compliant Standard: IEEE-802.3ae	
Item No :5	DAC Cable	
1	Data Rate:	Up to 10 Gbps
2	Cable Length:	1 meter (100 cm / 3.3 ft)
3	Connector Type:	SFP+ to SFP+ (Male-to-Male)
4	Cable Type:	Passive Copper Twinax
5	Wire Gauge:	30 AWG
Item No :6	24-port patch panel loaded	
Sr	Specification	
1	Height of patch panel	1 U
2	Material of patch panel	Cold Rolled Steel/ Steel
3	Modular plug fitting (RJ 45)	Individual Ports For Unloaded
4	Dust protection for information outlet	Yes
5	Patch panel suitability for (Category 6 shielded: Unshielded twisted pair or Category 6 Foiled: Unshielded twisted pair)	CAT 6 U/UTP
6	No. of ports (RJ 45)	24 Ports Loaded
7	Cable Management (Rear side)	Without
Item No :7	CATA 6 I/O, single Face plate and Back box	
Sr	Specification	
1	CATA 6 I/O Face Plate	Dual square plate 86×86mm, ABS material, transparent label window, screw hole covers M3.5×L25mm, dust shutters, supports UTP5e/UTP6/UTP6A/STP jacks
2	Back Box	Suitable for single/dual/quad face plate, size 85.2×85.2×36.7mm, color white, screw M3.5, supports UTP5e/UTP6/UTP6A jacks
3	CAT6A Information Outlet	Compliant with Cat6A, ANSI/TIA-568.2-D, ISO 11801, RoHS; suitable for 22–24AWG stranded/solid wire; compatible with 110 & Krone tools
Item No :8	12U Rack Standing Rack with Accessories and Rack Dressing	
Sr	Specification	
1	Size of Rack Enclosure	12U
2	Warranty (Years)	5
3	Type of Server Racks	Rack Enclosures
Additional Specification Parameters		

4	Surge Protector Power Strip should be supplied along with Rack and Accessories	
Item No :9	6-core single-mode Fiber cable	
Sr	Specification	
1	6 Core Single Mode Outdoor Armored Fiber Optic Cable	
2	Cable: 9/125, SM	
3	Corrugated Steel Tape Armoured	
4	Central loose tube with jelly compound	
5	Armoured design with Music Quality Steel wire	
6	Sequential meter marking	
7	The fiber should fulfill the requirement of ITU-T REC G.652D, ISO 11801, IEC 60793-1/60794-1-2, Telecordia GR-20-core	
8	Outer Diameter: 9.5±0.3mm	
9	Thickness of HDPE Jacket: 1.8±0.2mm	
10	Crush Load: Min 3000N/100mm	
11	Bend Radius: Short Term (20D)	
12	The fiber type is a Matched Cladding Single Mode	
13	The fiber is optimized for operation at 1310 nm and at 1550 nm.	
14	Nominal Mode Field Diameter: 9.2 µm	
15	Cladding Diameter: 125 µm	
16	PMD (ps/km): 0.2	
17	Cable Cut-off Wavelength: 1260nm	
18	Attenuation (of cable with fibers):	
19	At 1310 nm: <= 0.36 dB/km	
20	At 1550 nm : <= 0.22 dB/km	
Item No :10	Laying Fiber Cable	
Sr	Specification	
1	Conduit material	HDPE Pipe - Without
2	Laying location	Under Ground
3	Depth of laying in case of underground laying	90 centimeter
4	Number of Cables to be laid	Bunch up to 5 Cables of any type
Item No :11	HDPE Pipe	
Sr	Specification	
1	Colour of the duct	Colour of the duct - Bright green, Orange, Black
2	Outside diameter	32.0 mm (Tolerance + 0.4 mm - 0.0 mm)
3	Wall thickness	2-3.5 mm (Tolerance + 0.20 mm)
4	Additional quantity of end plug for each coil	0
5	Additional quantity of cable sealing plug for each coil	0

6	Additional quantity of end cap for each coil	0
7	Additional quantity of Duct cutter for each lot	1
8	Additional quantity of C spanner for each lot	1
9	Additional quantity of chamfering tool for each lot	1
10	Optional: Pre-installed rope for the above standard length duct	Not applicable
11	Availability of Test Report from Central Govt. LAB / NABL/ ILAC accredited or Central Government Lab to prove conformity of products to the specification	No
12	Test reports to be furnished to buyer on demand, if claimed to be available Hint- Not applicable if Test Report is not available	No
Item No :12	Laying HDPE Pipe	
Sr	Specification	
1	Conduit material	HDPE Pipe - Without
2	Laying location	Under Ground
3	Depth of laying in case of underground laying	90 centimeter
4	Number of Cables to be laid	Bunch up to 5 Cables of any type
Additional Specification Parameters		
5	90MM/50MM/32MM HDPE Pipe and Laying for HDPE and Asphalt Cutting / Horizontal Boring/RCC/plaster cutting for the Fiber connectivity.	
Item No :13	6 port LIU (Loaded as per Fiber cable)	
Sr	Specification	
1	6 Port, 19" Rack Mount LIU Fully Loaded with Single Mode SC Adapters Duplex	
2	Cold-rolled steel body with Aluminium front & top cover for light mounting with powder coating.	
3	Slim 1U Unit Mounting Height	
4	It should have a facility for managing splices & terminations	
5	It should have Magic stickers built-in for 900um tight buffered Fiber storing	

6	It should be capable of storing up to 3mtr of 900 micron tight-buffered Fiber per adapter	
7	It should have a snap-in locker design for easy-to-change adapter panels for various connector patching	
8	It should have a removable rubber grommet allowing for pre-terminated fibre trunk installation, cable protection & minimizing dust build-up.	
9	It should have at least 4 rubber cable plugs for cable entries.	
10	It should have Removable front and top covers for better access to interior of LIU	
11	It should be supplied with cable ties, mounting ear screws and spiral wrap tubes	
Item No :14	48 port LIU (Loaded as per Fiber cable)	
Sr	Specification	
1	48 Port, 19" Rack Mount LIU Fully Loaded with Single Mode SC Adapters Duplex	
2	Cold-rolled steel body with Aluminium front & top cover for light mounting with powder coating.	
3	Slim 1U Unit Mounting Height	
4	It should have a facility for managing splices & terminations	
5	It should have Magic stickers built-in for 900um tight buffered fiber storing	
6	It should be capable of storing upto 3mtr of 900micron tight buffered fiber per adapter	
7	It should have a snap-in locker design for easy-to-change adapter panels for various connector patching	
8	It should have removable rubber grommet allowing for pre-terminated fibre trunk installation, cable protection & minimizing dust build-up.	
9	It should have at least 4 rubber cable plugs for cable entries.	
10	It should have Removable front and top covers for better access to interior of LIU	
11	It should be supplied with cable ties, mounting ear screws and spiral wrap tubes	
Item No :15	UTP CAT 6A Cable	
Sr	Specification	
1	Twisted Pair	CAT6A U/UTP
2	Cable color	Any Value
3	Conductor diameter	0.57 Mm (23 AWG)
4	Cable jacket material	Fire Retardant PVC
5	UL Marking on Cable	Any Value
6	Construction	4 twisted pairs separated by internal X shaped
7	Sheath	LSZH
Item No :16	Laying CAT 6 Cable 1 Mtr.	
Sr	Specification	
1	Suitable Conduit Pipe	Without
2	Conduit material	PVC Pipe

3	Laying location	Above Surface
4	Depth of laying in case of underground laying	0 centimeter
5	Number of Cables to be laid	Single Cable of any type
Item No :17	"25mm" PVC Pipe/Casing capping (in meter)	
Sr	Specification	
1	Nominal Size of the Conduit, (mm)	25
2	Length (Metres)	3
3	Socket ended conduit (at one end)	Yes
4	ISI Marked	Yes
Item No :18	Laying of PVC Pipe 1 Mtr.	
Sr	Specification	
1	Suitable Conduit Pipe	Without
2	Conduit material	PVC Pipe
3	Laying location	Above Surface
4	Depth of laying in case of underground laying	0 centimeter
5	Number of Cables to be laid	Bunch upto 3 Cables of any type

Please submit the undertaking letter as per Ministry of Finance Memorandum No.: F. No.6/18/2019-PPD dated 23.07.2020 & Office Memorandum No.: F.18/37/2020-PPD dated 08.02.2021 as per Performa given below on OEM letterhead as well as on bidder's letterhead.

On Letterhead of Bidder

Sub: Undertaking as per Office Memorandum No.: F. No.6/18/2019-PPD dated 23.07.2020 & Office Memorandum No.: F.18/37/2020-PPD dated 08.02.2021 published by Ministry of Finance, Dept. of Expenditure, Public Procurement Division

Ref: Bid Number: _____

I have read the clause regarding restriction on procurement from a bidder of a country that shares a land border with India. I certify that we as a bidder and quoted product from the following OEMs are not from such a country or if from such a country, these quoted products OEM has been registered with the competent authority. I hereby certify that these quoted product & its OEM fulfills all requirements in this regard and is eligible to be considered for procurement for Bid number_____.

No.	Item Category	Quoted Make & Model

In case I'm supplying material from a country which shares a land border with India, I will provide evidence for valid registration by the competent authority, otherwise GIL/End user Dept. reserves the right to take legal action on us.

(Signature)

Authorized Signatory of **M/s <<Name of Company>>**

On Letterhead of OEM

Sub: Undertaking as per Office Memorandum No.: F. No.6/18/2019-PPD dated 23.07.2020 & Office Memorandum No.: F.18/37/2020-PPD dated 08.02.2021 published by Ministry of Finance, Dept. of Expenditure, Public Procurement Division

Ref: Bid Number: _____

Dear Sir,

I have read the clause regarding restriction on procurement from a bidder of a country that shares a land border with India. I certify that our quoted product and our company are not from such a country, or if from such a country, our quoted product and our company have been registered with the competent authority. I hereby certify that these quoted products and our company fulfill all requirements in this regard and is eligible to be considered for procurement for Bid number_____.

No.	Item Category	Quoted Make & Model

In case I'm supplying material from a country which shares a land border with India, I will provide evidence for valid registration by the competent authority; otherwise GIL/End user Dept. reserves the right to take legal action on us.

(Signature)

Authorized Signatory of M/s <<Name of Company>>

Bidder Contact Information

Name	
Designation	
Company Address	
Telephone	
Mobile No	
Email	