

NOTICE INVITING TENDER

NIT No: IITH/008/MS/BSNL/2024

Date: 06.1.2025

Tender for Supply, Installation and commissioning of SIP Server based EPABX solution at IIT Hyderabad

Table of Contents

Sl.NO	Content	Page No.
1.	Instructions for online bid submission	2-4
2.	Purpose of Tender	5
3.	Generic requirement to the solution	5
4.	Specific requirement to the solution	5
5.	Scope of Work	5-7
6.	Bidder Eligibility criteria and other terms and conditions	8-14
7.	Technical Specifications	15-23
8.	Annexures	24-39
9.	Price Schedule	30-31

INSTRUCTIONS FOR ONLINE BID SUBMISSION

The bidders are required to submit soft copies of their bids electronically on the CPP Portal, using valid Digital Signature Certificates. The instructions given below are meant to assist the bidders in registering on the CPP Portal, prepare their bids in accordance with the requirements and submitting their bids online on the CPP Portal.

More information useful for submitting online bids on the CPP Portal may be obtained at: <https://eprocure.gov.in/eprocure/app>.

Registration:

- 1) Bidders are required to enroll on the e-Procurement module of the Central Public Procurement Portal (URL: <https://eprocure.gov.in/eprocure/app>) by clicking on the link” **Online bidder Enrollment**” on the CPP Portal which is free of charge.
- 2) As part of the enrolment process, the bidders will be required to choose a unique username and assign a password for their accounts.
- 3) Bidders are advised to register their valid email address and mobile numbers as part of the registration process. These would be used for any communication from the CPP Portal.
- 4) Upon enrollment, the bidders will be required to register their valid Digital Signature Certificate (Class III Certificates with signing key usage) issued by any Certifying Authority recognized by CCA India (e.g. Sify / nCode / eMudhra etc.), with their profile.
- 5) Only one valid DSC should be registered by a bidder. Please note that the bidders are responsible to ensure that they do not lend their DSC’s to others which may lead to misuse.
- 6) Bidder then logs in to the site through the secured log-in by entering their user ID /password and the password of the DSC / e-Token.

Searching For Tender Documents:

- 1) There are various search options built in the CPP Portal, to facilitate bidders to search active tenders by several parameters. These parameters could include Tender ID, Organization Name, Location, Date, Value, etc. There is also an option of advanced search for tenders, wherein the bidders may combine a number of search parameters such as Organization Name, Form of Contract, Location, Date, Other keywords etc. to search for a tender published on the CPP Portal.
- 2) Once the bidders have selected the tenders they are interested in, they may download the required documents / tender schedules. These tenders can be moved to the respective ‘My Tenders’ folder. This would enable the CPP Portal to intimate the bidders through SMS / e- mail in case there is any corrigendum issued to the tender document.
- 3) The bidder should make a note of the unique Tender ID assigned to each tender,

in case they want to obtain any clarification / help from the Helpdesk.

Preparation of Bids:

- 1) Bidder should take into account any corrigendum published on the tender document before submitting their bids.
- 2) Please go through the tender advertisement and the tender document carefully to understand the documents required to be submitted as part of the bid. Please note the number of covers in which the bid documents have to be submitted, the number of documents - including the names and content of each of the document that need to be submitted. Any deviations from these may lead to rejection of the bid.
- 3) Bidder, in advance, should get ready the bid documents to be submitted as indicated in the tender document / schedule and generally, they can be in PDF / XLS / RAR / DWF/JPG formats. Bid documents may be scanned with 100 dpi with black and white option which helps in reducing size of the scanned document.
- 4) To avoid the time and effort required in uploading the same set of standard documents which are required to be submitted as a part of every bid, a provision of uploading such standard documents (e.g. PAN card copy, annual reports, auditor certificates etc.) has been provided to the bidders. Bidders can use “My Space” or “Other Important Documents” area available to them to upload such documents. These documents may be directly submitted from the “My Space” area while submitting a bid, and need not be uploaded again and again. This will lead to a reduction in the time required for bid submission process.

Note: *My Documents space is only a repository given to the Bidders to ease the uploading process. If Bidder has uploaded his Documents in My Documents space, this does not automatically ensure these Documents being part of Technical Bid.*

Submission of Bids:

- 1) Bidder should log into the site well in advance for bid submission so that they can upload the bid in time i.e. on or before the bid submission time. Bidder will be responsible for any delay due to other issues.
- 2) The bidder has to digitally sign and upload the required bid documents one by one as indicated in the tender document.
- 3) Bidder has to select the payment option as “offline” to pay the tender fee / EMD as applicable and enter details of the instrument.
- 4) Bidder should prepare the EMD as per the instructions specified in the tender document. The original should be posted/couriered/given in person to the concerned official, latest by the last date of bid submission or as specified in the tender documents. The details of the DD/any other accepted instrument, physically sent, should tally with the details available in the scanned copy and the data entered during bid submission time. Otherwise the uploaded bid will be rejected.
- 5) Bidders are requested to note that they should necessarily submit their financial bids in the format provided and no other format is acceptable. If the price bid

has been given as a standard BoQ format with the tender document, then the same is to be downloaded and to be filled by all the bidders. Bidders are required to download the BoQ file, open it and complete the white coloured (unprotected) cells with their respective financial quotes and other details (such as name of the bidder). No other cells should be changed. Once the details have been completed, the bidder should save it and submit it online, without changing the filename. If the BoQ file is found to be modified by the bidder, the bid will be rejected.

- 6) The server time (which is displayed on the bidders' dashboard) will be considered as the standard time for referencing the deadlines for submission of the bids by the bidders, opening of bids etc. The bidders should follow this time during bid submission.
- 7) All the documents being submitted by the bidders would be encrypted using PKI encryption techniques to ensure the secrecy of the data. The data entered cannot be viewed by unauthorized persons until the time of bid opening. The confidentiality of the bids is maintained using the secured Socket Layer 128 bit encryption technology. Data storage encryption of sensitive fields is done. Any bid document that is uploaded to the server is subjected to symmetric encryption using a system generated symmetric key. Further this key is subjected to asymmetric encryption using buyers/bid opener's public keys. Overall, the uploaded tender documents become readable only after the tender opening by the authorized bid openers.
- 7) Upon the successful and timely submission of bids (i.e. after Clicking "Freeze Bid Submission" in the portal), the portal will give a successful bid submission message & a bid summary will be displayed with the bid no. and the date & time of submission of the bid with all other relevant details.
- 8) The bid summary has to be printed and kept as an acknowledgement of the submission of the bid. This acknowledgement may be used as an entry pass for any bid opening meetings.
- 9) After submitting the bid online the bidder has to submit the hard copy of the Technical Bid (without any financial offer) duly superscribing the tender reference number at "**MS Section, Room No.#204, Administrative Building, IIT Hyderabad, Kandi, Sangareddy-502284**" on or before technical bid opening date & time.

Assistance to Bidders:

- 1) Any queries relating to the tender document and the terms and conditions contained therein should be addressed to the Tender Inviting Authority for a tender or the relevant contact person indicated in the tender.
- 2) Any queries relating to the process of online bid submission or queries relating to CPP Portal in general may be directed to the 24x7 CPP Portal Helpdesk. The contact details of the helpdesk are +91 0120-4711 508, +91 0120-4200462, +91 0120-4001002, +91 0120-4001005 and support-eproc@nic.in .

1. PURPOSE OF TENDER

IIT Hyderabad has already implemented EPABX solution in Phase -I in New Admin Block, BTBM, MSME and Chemistry Departments. The detailed specifications of Phase-1 are given in the annexure. The current Tender is for few more Departments.

IIT Hyderabad is seeking to implement a SIP Server based EPABX solution with equipment to cover all the buildings of the Campus of IIT Hyderabad in KANDI. IIT Hyderabad plans the phase wise deployment of SIP Server based EPABX solution on the campus. This tender is for Phase-2 deployment focusing on the PABX solution covering the following buildings in the campus: Computer Science Engineering and Electrical Eng – CSE & EE - AD 2 Building, Physics, Mathematics & Liberal Arts – Phy, MA, LA - AD 3 Building, Design Department – DOD Building, Core labs – Phy & Chy, Knowledge Resource Centre, Convention Centre, Research Centre Complex.

The current deployment should be fully compatible with the existing Set up.

2. GENERIC REQUIREMENT TO THE SOLUTION

- a. High Availability that eliminates Single Point of Failure
- b. Scalability to support increasing number of connecting devices in the future
- c. Security to provide minimum protection of the network from attacks, unwanted or unexpected behavior of connecting devices
- d. Effective management at reduced operational cost
- e. Future-proof architecture to maintain the extensibility and scalability of the solution
- f. Proper balance between the performance and price

3. SPECIFIC REQUIREMENT TO THE SOLUTION

- a. Supply, installation, testing and commissioning of Server based PABX Solution components for providing SI Server based PABX Telephone connectivity in 7 new buildings of IIT Hyderabad.
 - i. Computer Science Engineering and Electrical Eng – CSE & EE - AD 2 Building
 - ii. Physics, Mathematics & Liberal Arts – Phy, MA, LA - AD 3 Building
 - iii. Design Department – DOD Building
 - iv. Core labs – Phy & ChY
 - v. Knowledge Resource Centre (Library)
 - vi. Convention Centre
 - vii. Research Centre Complex
- b. The solution includes
 - i. Supply.
 - ii. Installation, including necessary cabling, testing, commissioning, and documentation.
 - iii. Integration with the existing environment and
 - iv. One-year warranty for the overall solution. However, the warranty for the servers shall be for three years.
- c. Network operational Centre (NOC) is in Academic block A. OFC connectivity from NOC to these buildings is in star topology.
- d. The quantities mentioned in BOQ are approximate, the vendor should supply additional quantity of the required accessories with same rates, terms and conditions.

4.SCOPE OF WORK

IIT-Hyderabad has decided to install the latest technology SIP Based IP PBX System to provide seamless internal communication for the entire campus. The Scope of work comprises of the following:

1. Supply, installation, testing & commissioning of the new IP PBX System as specified in the detailed system specification, with third party PoE Switches, Gateways and SIP phone integration capability.
2. Delivery of entire material to above location including packing, handling, transporting, clearing, loading/unloading, Etc.
3. Installation, testing & commissioning of all the components/equipment/accessories, etc. as per technical specifications, and handing over to the IIT-H
4. Providing all-inclusive service including all spares, etc. during defect liability period of one year.
5. All engineering, equipment, labour, and permits required to satisfactorily complete the work required by this Specification.
6. Existing LAN network cabling & Patch panels shall be used for connecting the New PBX system and SIP Phones, etc. New patch panels shall be installed whenever necessary.
7. Testing, Identification and rectification of LAN nodes, from nearest network rack Patch panel to the Information Outlet at workstation, wherever required.
8. Site acceptance tests to establish satisfactory performance of the equipment as per specifications.
9. The successful bidder must implement the solution at the site and complete the necessary integration of the solution with the core network infrastructure deployed at IIT Hyderabad and demonstrate the performance of the deployed infrastructure to the technical committee.
10. The warranty services will start only after installation and commissioning of the complete solution.
11. Liaising with BSNL for integration of SIP Trunks, DID, and Numbering scheme programming.
12. Providing compatible router/hardware required to configure the BSNL SIP Trunks.
13. Interconnectivity with existing Patch panels/ Switches with new Patch cords.
14. Testing of every extension upto the workstation, including configuration/programming of SIP Phone.
15. Monitor the performance of the new IP PBX System for one month and provide the necessary training to the operators and staff of IIT - Hyderabad.
16. Any other work related to but not specifically mentioned above, required for completion of the job as per the intent and scope of work.
17. The firm should supply the operation and maintenance manual with a soft copy.
18. The firm should supply the Schematic of the deployed VoIP network setup.
19. The firm should maintain the IP PBX and accessories ordered herewith in full working condition during the warranty period and should repair / replace the parts free of charge during this period.
20. During the said period of 12 months (DLP), the contractor (successful tenderer) shall make periodical inspection of the working of the entire system free of charge at least once in 90 days or earlier, if required, and attend to such other service that may be required of him

21. In case of any technical snag, it should be attended to within 24 hours.

22. Attending to break down calls on an urgent basis.

23. IIT-Hyderabad will provide the following:

- a. Fiber backbone connecting all building blocks, and network racks in the campus
- b. Non-PoE, Gigabit Ethernet Connectivity with Patch panels, in every network rack.
One LAN Port in the non-PoE Switch in the existing network Rack shall be provided.
- c. USP Power with proper earthing for all PoE Switches, Gateways, Router and Server, inside every network rack.
- d. Administration PC within the LAN network, for configuration of IP PBX.
- e. BSNL SIP Trunk Connectivity, up to Server rack.

Scope of Work for CAMC:

1. Periodic maintenance calls shall be made every once in a quarter.
2. In case of any technical snag, it should be attended within 24 hours.
3. Shall provide emergency services on week-ends and holidays, if circumstances so require.
4. Free replacement shall be provided in case of any defect/fault/failures in any active components like Server, SIP phone, PoE Switches, Patch panels etc.
5. Liaising with BSNL for any SIP Trunk related service issues.
6. Service Reports should be submitted for every complaint attended.
7. Scope of Work is limited to IP PBX, Gateways, PoE switches, Operator Phones and SIP Phones only.
8. Payment: End of Quarter, on submission of Invoice along with Service callreports/Satisfactory report from the department concerned.

Exclusions:

1. Plastic parts, LCD displays of Phones, Information Outlets.
 - aa. Damage occurs due to lightning, over-voltage, negligence, mishandling, pests, acts of God and shifting of the system by unauthorized personnel.
 - bb. Site acceptance tests to establish satisfactory performance of the equipment as per specifications.
 - cc. The successful bidder must implement the solution at the site and complete the necessary integration of the solution with the core network infrastructure deployed at IIT Hyderabad and demonstrate the performance of the deployed infrastructure to the technical committee.
 - dd. The warranty services will start only after installation and commissioning of the complete solution.

5. ELIGIBILITY CRITERIA

The Bidders should meet the following eligibility criteria to participate in the Tender and should enclose supporting documents for fulfilling the eligibility. It is the responsibility of the bidder to satisfy the norms regarding the genuineness and validity of the document furnished. Bids accompanied by documents not fulfilling the requirements outlined in this section will be subject to rejection without intimation or explanation.

- a. Bidder should be a Registered company/firm in India and existing for the past Five years in India.
- b. Bidder shall have deployed a minimum of one BSNL SIP Trunk integration and EPABX Solution in Hyderabad.
- c. The bidder shall be an authorized Cisco partner to manage the existing Active network.
- d. The bidder should have a registered office with a minimum of 3 qualified engineers in Hyderabad.
- e. The bidder should submit a tender specific authorization letter from OEM of both voice and data network products.

- f. OEM should have existing capability and infrastructure to provide technical support in India.
- g. OEM should be a registered business entity in India with their own office in India.
- h. The Authorized Bidder should possess an Authorization Certificate directly from the OEM and the same should be submitted in the physical and digital formats.
- i. The OEM should have ZED certification issued by the MSME and Quality Council of India (QCI).
- j. OEM should have their own factory in India.
- k. OEM should have their own R&D in India to develop, test and support country-specific security, country-specific IVA algorithms and such other patches.
- l. Proposed OEM should have dedicated, toll-free telephone numbers for after-sales support.
- m. OEM should have ISO/IEC 14001:2015, ISO 20000-1:2011, ISO 27001 2013, ISO 45001:2018 and ISO 9001:2015 certificates.
- n. The products should qualify under CLASS- I LOCAL SUPPLIER as per Preferential Market Access (PMA) and Public Procurement Policy (PPP) Make In India (MII) scheme of the Govt. of India dated. 04.06.2020 & 16.09.2020 with 50% or latest applicable local content as per the Govt. norms.
- o. In view of this you are requested to furnish the Format-5 regarding Undertaking for local content in our prescribed format duly certified by statutory auditors for the quoted telecom product. So please fill the same as enclosed format 5 (a) to (g), strictly certified by Statutory auditor. Proof of your appointment of statutory auditor should be enclosed with reply.
- p. Bidder/OEM should provide escalation matrix defining who should handle incidents at each escalation level with names and contact details for each level.
- q. Experience Criteria: The Bidder or it's OEM (themselves or through a reseller) should have regularly, manufactured and supplied same or similar category products to any Central/State Govt Organization/PSU/Public Listed Company for 1 year before the bid opening date. Copies of relevant contracts to be submitted along with the bid in support of having supplied some quantity during each of the year.
- r. The Bidder is required to upload, along with the bid, all relevant certificates such as type test certificates, approval certificates and other such certificates as prescribed in the Product Specifications given in the bid document.
- s. Datasheets of the product(s) offered in the bid are to be uploaded along with the bid documents. Buyers can match and verify the Datasheets with the product specifications offered. In case of any unexplained mismatch of technical parameters, the bid is liable for rejection.
- t. OEM should not be blacklisted by any Central/State Govt. Organization, PSU, Public Listed Company OR Indian Army.
- u. AMC Charges will not be considered for financial Evaluation; However, the L-1 Bidder should match with the lowest AMC Charges quoted by any bidder.

OTHER TERMS AND CONDITIONS:

1. For Indigenous items, 100% payment after supply, installation and demonstration of the whole machinery/system/software to the satisfaction of the Institute/Scientist/Technologist/Indenter/Professor.
2. Warranty & Maintenance contract / Validity of the Software: One (01) year from the date of installation/demonstration. The bidder should also mention the cost of yearly AMC up to 3 years (i.e. 2nd, 3rd and 4th years) beyond the warranty period.
3. **Installation & Testing:** The supply, installation, testing and commissioning shall be completed within a week from the date of issue of the Work order / PO. The installed system shall be performance tested at our premises in accordance with the manufacturer's/supplier's recommendation/specifications. Tests shall demonstrate the proper operation of the instrument and all components.
4. All supplies are subject to inspection and approval before acceptance. Manufacturer warranty certificates and manufacturer/Government approved lab test certificate shall be furnished along with the supply, wherever applicable.
5. Kindly furnish your PAN & GST Number etc. in your quotation for our records.
6. Conditional tenders will not be accepted.
7. **Requirement of registration:** Vide Ministry of Finance OM No. 6/18/2019-PPD dated 23rd July 2020.
 - i. Any bidder from a country sharing a land border with India will be eligible to bid in this tender only if the bidder is registered with the Department for Promotion of Industry and Internal Trade (DPIIT).
 - ii. "Bidder" (including the term 'tenderer', 'consultant' or 'service provider' in certain contexts) means any person or firm or company, including any member of a consortium or joint venture (that is an association of several persons, or firms or companies), every artificial juridical person not falling in any of the descriptions of bidders stated hereinbefore, including any agency branch or office controlled by such person, participating in a procurement process.
 - iii. "Bidder from a country which shares a land border with India" for the purpose of this Order means:
 - iv. An entity incorporated, established or registered in such a country; or
 - v. A subsidiary of an entity incorporated, established or registered in such a country; or
 - vi. An entity substantially controlled through entities incorporated, established or registered in such a country; or
 - vii. An entity whose beneficial owner is situated in such a country; or

- viii. An Indian (or other) agent of such an entity; or
- ix. A natural person who is a citizen of such a country; or
- x. A consortium or joint venture where any member of the consortium or joint venture falls under any of the above.

For details about registration procedures please visit the above-mentioned OM. Mandatory documentary evidence regarding the bidder's registration with DPIIT is to be submitted along with the tender, failing which the tender shall be liable for rejection. Bidders are also requested to submit the Model Certificates as **per Annexure** for this tender as mentioned in the Ministry of Finance OM No. 6/18/2019-PPD dated 23rd July 2020.

8. Public Procurement (Preference to Make in India), Order 2017:

- a. IIT Hyderabad shall compare all substantially responsive bids to determine the lowest valuated bid. This Institute is following and abide with the Public Procurement(Preference to Make in India), Order 2017, DIPP, MoCI Order No. P- 45021/2/2017-B.E. II dated 15th June 2017 and its subsequent amendments. Accordingly, preference will be given to the Make in India products while evaluating the bids, however, it is the sole responsibility of the bidder(s) to specify the product quoted by them is of Make in India product along with respective documentary evidence as stipulated in the aforesaid order in the technical bid itself.
- b. As per the above order and its subsequent amendments "Local Content" means the amount of value added in India which shall be value of the item procured (excluding net domestic indirect taxes) minus the value of the imported content in the item (including all the custom duties) as a proportion of the total value, in percent. Accordingly, the suppliers will be classified in the following categories.
 - i) Class I local Supplier – has local content minimum 50%
 - ii) Class II local Supplier – has local content minimum 20%
- c. **Verification of Local Content:** The Class I Local Supplier /Class II Local Supplier at the time of bidding shall be required to indicate the percentage of local content and provide self-certification as per Annexure D that the items offered meet the local content requirement. The details of the location(s) at which the local value addition is made also need to be specified.
- d. **The bidders can be debarred for a period up to two years as, per Rule151(iii) of GFR 2017, in case of false declaration.**

Complaint Redressal Mechanism:

In case any complaint received by the procuring agency or the concerned Ministry/Department against the claim of a bidder regarding local content/domestic value addition in a product, the same shall be referred to competent authority at IITH or the relevant Ministry.

The bidder against whom the complaint is received shall be required to furnish the necessary documentation in support of the domestic value addition claimed in

the product to authority. If no information is furnished by the bidder, such laboratories may take further necessary action, to establish the bonafides of the claim

A complaint fee of Rs. 2 lakh or 1% of the value of the domestically manufactured products being procured (subject to a maximum of Rs.5 lakh), whichever is higher, to be paid by Demand Draft to be deposited with Procuring Institute. In case, the complaint is found to be incorrect, the complaint fee shall be forfeited. In case, the complaint is upheld and found to be substantially correct, deposited fee of the complainant would be refunded without any interest.

False declarations will be in breach of the Code of Integrity under Rule 175 (1)(i)(h) of the General Financial Rules for which a bidder or its successors can be debarred for up to two years as per Rule 151 (iii) of the General Financial Rules along with such other actions as may be permissible under law.

9. ARBITRATION:

- a. Unless otherwise specified, in all cases of disputes which cannot be settled by mutual negotiations, the disputes or differences shall finally be settled and binding on both parties by arbitration in conformity with the rules of Indian Arbitration Act, 1940. All disputes or differences whatsoever arising between the parties out of relating to the construction, meaning and operation or effect of the general terms and conditions including the Purchase Order or the breach thereof shall be settled by Arbitration Act, 1940 and the award made in pursuance thereof shall be binding on the parties.
- b. Performance of the purchase order shall continue during arbitration and any subsequent proceedings.
- c. The Jurisdiction and Venue of arbitration shall be Hyderabad. The Arbitrator will be the Director, IIT Hyderabad, or his nominee.

10. Note for MSME/NSIC Bidder: If in the view of bidder, any exemption /preference/ relaxation is applicable to them from any of the eligibility requirements, under any Rules / Guidelines/ Directives of Government of India, bidder may submit their claim for the applicable exemption /relaxation, quoting the valid Rule/Guidelines/ Directives with a copy of such notification. In this case the bidder must submit necessary and sufficient documents along with the technical bid, in support of their claim. The relevant and valid certificates in support of the claim of exemption must be submitted along with the Technical Bid.

11. All disputes shall be settled in the courts of Hyderabad/Sangareddy only.

12. The Director, IIT Hyd reserves the right to accept the offer in full or in parts or reject summarily or partly and also reserves the right to cancel the tender at any stage without assigning reasons.
13. **EMD:** EMD of **Rs. 40,000/-** in the form of online payment or Demand Draft/Bankers cheque in the name of Director IIT Hyd, should be submitted. The Demand Draft/Bankers Cheque in original should be posted/couriered/given in person to the **“Management Services Section, #A-204, New Administrative Building, IIT Hyderabad, Kandi, Sangareddy, Telangana-502285”**, before the last date of Opening of the Bid. In case of non-receipt of original document before the due date of opening of technical bid, the uploaded bid will be summarily rejected.
14. **Delivery: The Contractor is required to complete the delivery of all equipment, software and installation within the date stipulated by the Institute. In case it is found that the delivery has not been completed within the date as indicated, the IITH at its sole discretion may cancel the work order and the EMD shall be forfeited without any further reference to the Contractor.**
15. **Security Deposit: 5% of the Purchase order value**
 - a. Successful bidder shall furnish a Security Deposit amounting to 5% of the Purchase order value in the form of a Demand Draft/Bank Guarantee (from scheduled Bank only) favoring the Director, IIT Hyd within 7 days from the date of award of contract. The Bank Guarantee should be submitted/routed through NeSL Portal.
 - b. The Security Deposit will be forfeited if the vendor fails to execute the order.
 - c. The Security Deposit should be valid for warranty period + 60 days, as the same will extend the same as Performance Bank Guarantee. Hence while preparing the BG, the delivery period and installation and warranty + 60 days needs to be accounted for to cover the BG validity period.
 - d. This Security Deposit will be refunded to the vendor only on satisfactory completion of all contractual obligations including warranty as per this Tender and Purchase Order issued against this Tender.
 - e. Bank Guarantee wherever mentioned in this document may be read as “Bank Guarantee from any Scheduled Bank” only.

For Online Payment of EMD/Security Deposit: The EMD/Tender Fees can also be paid online, the bank details are as follows:

Name of the Bank & Branch	Account Number	IFSC CODE	Branch code
SBI & IIT Hyderabad	30412797764	SBIN0014182	14182

The Online payment proof needs to be uploaded along with the Technical Bid.

For any technical query related to enquiry you may to contact

Mr. Md Jameel - Assistant Registrar, Email: ar.ms@iith.ac.in

Mr. M Badrinath- Joint Registrar, Email : hos.ms@iith.ac.in With

CC: office.admin@iith.ac.in

TECHNICAL SPECIFICATIONS:			
1	Communication System:	Compliance	Remarks
	The licenses should be compatible with: Server Configuration: Power Edge R750xs Server 3.5" Chassis with up to 8 3.5in Hard Disk Drives/ SSDs 2U1 x Intel® Xeon® 5317 – Gold 3.0GHz, Turbo 3.6GHz, Hyper threading, 18 MB Cache, 11.2GT/s 3 UPI, 12Cores, 24 Threads. 150W (Dual CPU Upgradeable) (Total 12Cores, 24Threads); 64 GB 2 x 32 GB RDIMM, 3200 MHz, @ 2933 MHz (16 Memory Slops) Up to 2048GB DDR4 Memory ; Half Length, Low Profile, 5x16 + 1x4 slots; 2 x 480 GB Read Intensive 1 DWPD SSD SATA 6Gbps 2.5in Hot-Swap in 3.5in HYB (480 GB on RAID '1') For O.S., Applications, DATA High IOPS; 2 x 2.4 TB 512e 10K RPM SAS 12Gbps 2.5in Hot-plug Hard Drive in 3.5in HYB (2.4 TB on RAID '1') For DATA; PERC H755 Integrated RAID Controller, 8GB NV Cache Battery Backup (Performance RAID) RAID '0', '1' '10', '5', '50', '6' '60' Support; iDRAC9, Enterprise 15G (Remote Management); Broadcom 5720 Dual Port Gigabit 1Gbps Network x 1; Broadcom 5720 Dual Port Gigabit 1Gbps Network on Board LOM (Total 4 x 1 Gbps); 800 Watts + 800 Watts Mix Mode Redundant Power Supply Platinum; Trusted Platform Module 2.0 V3.		
2.	Specifications of 8 port FXS Gateway:	Compliance	Remarks
2.1	The equipment shall be electronic type. It shall have a microprocessor / micro controller based on Stored Program Control Technique.		
2.2	It shall employ IP/PCM/TDM, 100% non-blocking, Digital-IP switching technology.		
2.3	The Gateway device should provide up to 4 or 8 FXS ports		
2.4	Device should have up to 4 or 8 SIP Accounts		
2.5	Device should have up to 4 or 8 VoIP Channels for Concurrent Calls		
2.6	The Gateway device should have 1 LAN & 1 WAN ports for Network Connectivity		
2.7	The Gateway device should have 1 LAN & 1 WAN ports for Network Connectivity		



2.8	<p>The Gateway device should have built-in basic data routing features:</p> <ol style="list-style-type: none"> 1. DHCP Client 2. PPPoE 3. IPv4 4. TCP/UDP 5. SNTP 6. Dynamic DNS 7. VLAN/COS (Layer 2) 8. Port Forwarding 9. Demilitarized Zone (DMZ) 10. NAT/STUN Support 11. QoS (Layer 3) 12. Certificate Manager 13. Static Routing 14. Digest Authentication 		
2.9	<p>The Gateway Device should have following remote monitoring and management features:</p> <ol style="list-style-type: none"> 1. Password Protected Web based UI 2. TR069 for Mass Management 3. SNMP for Mass Monitoring 4. PCAP Trade 		
2.10	<p>The Gateway device should have following call management features for operation with PBX:</p> <ol style="list-style-type: none"> 1. Call Hold/Pickup/Toggle 2. Message Wait Indication 3. Call Transfer- Attended/Blind 4. Call Forward 5. Call Conference 6. Do Not Disturb 7. Call Waiting 8. Hot line 9. Automatic Number Translation 10. BlackList 11. Call Detail Records (CDR) for 2000 Calls 		
2.11	<p>The Gateway device should have Peer-to-peer dialing facility with 500 table entries</p>		
2.12	<p>The Gateway device must have interoperability with different service providers</p>		
2.13	<p>The Gateway device should have following parameters for excellent speech experience:</p> <ol style="list-style-type: none"> 1. Dynamic Jitter Buffer 2. Voice Activity Detection (VAD) 3. Comfort Noise Generation (CNG) 4. G.168 Echo Cancellation 		
2.14	<p>Devices should be secured from internet attacks and threats using TLS/SRTP encryption</p>		



భారతీయ సాంకేతిక విజ్ఞాన సంస్థ హైదరాబాద్
भारतीय प्रौद्योगिकी संस्थान हैदराबाद
Indian Institute of Technology Hyderabad

Indian Institute of Technology Hyderabad

Kandi, Sangareddy - 502 284, Telangana, India

Phone: 040-23016773

Website: www.iith.ac.in, Email: office.admin@iith.ac.in

2.15	The device should provide support following VoIP codes to ensure smooth transcoding: G.711 (A/ μ Law), G.723, G.729, GSM-FR, GSM-EFR, iLBC		
2.16	Device should be able upgrade firmware/configuration automatically base on "Every Power On", "Scheduled Time"		
2.17	The device should be able to upgrade firmware from Server, PC/Laptop for ease of management		
2.18	The Gateway device should have configurable PIN authentication and access codes for ease of operation with connected PBX systems		
2.19	The Gateway device must have an emergency number dialing feature		
2.20	The Gateway should be available with Power supply/Power Adaptor of 12VDC, 2 A with maximum 15W power Consumption		
2.21	The Gateways should have a Reset Button for default WAN IP address		
2.22	Device should have LED Indications for each port, Status and Power supply		
2.23	The Gateway should have Allowed and Denied Numbers List for Blocking Unwanted Numbers		
2.24	The Gateway should be Wall mounting & Tabletop		
2.25	Certification: TEC, CE, FCC, ROHS		
3	Specifications of 16/24/32 port FXS Gateway	Compliance	Remarks
3.1	The equipment shall be electronic type. It shall have microprocessor / micro controller based on Stored Program Control Technique.		
3.2	It shall employ IP/PCM/TDM, 100% non-blocking, Digital-IP switching technology.		
3.3	The Gateway device should provide up to 16 or 24 or 32 FXS ports		
3.4	The Gateway device should have 1xEthernet ports for Network Connectivity		
3.5	The Gateway device should have built-in basic data routing features: 1. DHCP Client 2. PPPoE 3. IPv4 4. TCP/UDP 5. SNTP 6. Dynamic DNS 7. VLAN/COS (Layer 2) 8. Port Forwarding 9. Demilitarized Zone (DMZ) 10. NAT/STUN Support 11. QoS (Layer 3) 12. Certificate Manager 13. Static Routing 14. Digest Authentication		

3.6	The Gateway Device should have the following remote monitoring and management features: 1. Password Protected Web based UI 2. TR069 for Mass Management 3. SNMP for Mass Monitoring 4. PCAP Trade		
3.7	The Gateway device should have the following call management features for operation with PBX: 1. Call Hold/Pickup/Toggle 2. Message Wait Indication 3. Call Transfer- Attended/Blind 4. Call Forward 5. Call Conference 6. Do Not Disturb 7. Call Waiting 8. Hot line 9. Automatic Number Translation 10. Blacklist 11. Call Detail Records (CDR) for 2000 Calls		
3.8	The Gateway device should have Peer-to-peer dialing facility with 500 table entries		
3.9	The Gateway device must have interoperability with BroadSoft		
3.10	The Gateway device should have interoperability with leading ITSP to ensure smooth operation for VoIP connectivity 1. Broadvox 2. MegaPath 3. NexVortex 4. SOTEL systems 5. Vitelity 6. Voxbone		
3.11	The Gateway device should have the following parameters for excellent speech experience: 1. Dynamic Jitter Buffer 2. Voice Activity Detection (VAD) 3. Comfort Noise Generation (CNG) 4. G.168 Echo Cancellation		
3.12	Device should be secured from internet attacks and threats using TLS/SRTP encryption		
3.13	Device should provide support following VoIP codes to ensure smooth transcoding: G.711 (A/ μ Law), G.723, G.729, GSM-FR, GSM-EFR, iLBC		
3.14	Device should be able upgrade firmware/configuration automatically base on "Every Power On", "Scheduled Time"		
3.15	Device should be able upgrade firmware from Server, PC/Laptop for ease of management		
3.16	The Gateway device should have configurable PIN authentication and access codes for ease of operation with connected PBX systems		

3.17	The Gateway device must have emergency number dialing feature		
3.18	The device should have Fax over IP (T.38 and Pass Through) to send and receive Fax over VoIP network		
3.19	The Gateway should be available with Power supply/Power Adaptor 24V DC, 2.5A with maximum 60W power Consumption		
3.20	Device should have a minimum of 8 SIP Accounts		
3.21	Device should have a minimum of 8 VoIP Channels for Concurrent Calls		
3.22	The Gateways should have a Reset Button for default the IP address		
3.23	Device should have LED Indications for each port, Status and Power supply		
3.24	The Gateway should have Allowed and Denied Numbers List for Blocking Unwanted Numbers		

Pre-Qualification Requirements:	
a)	The bidder should have a registered office with a minimum of 3 qualified engineers in Hyderabad.
b)	The bidder shall be a registered company in BSNL as System Integrator or Franchise partner or channel partner in Voice and Data.
c)	The bidder should submit a tender specific authorization letter from OEM of both voice and data network products.
d)	OEM should have existing capability and infrastructure to provide technical support in India.
e)	OEM should be a registered business entity in India with their own office in India.
f)	The Authorized Bidder should possess an Authorization Certificate directly from the OEM and the same should be submitted in the physical and digital formats.
g)	The OEM should have ZED certification issued by the MSME and Quality Council of India (QCI).
h)	OEM should have their own factory in India.
i)	OEM should have their own R&D in India to develop, test and support country-specific security, country-specific IVA algorithms and such other patches.
j)	Proposed OEM should have dedicated, toll-free telephone numbers for after-sales support.
k)	The products should have been researched, designed and manufactured in India.
l)	OEM should have ISO/IEC 14001:2015, ISO 20000-1:2011, ISO 27001 2013, ISO 45001:2018 and ISO 9001:2015 certificates.
m)	The products should qualify under CLASS- I LOCAL SUPPLIER as per Preferential Market Access (PMA) and Public Procurement Policy (PPP) Make in India (MII) scheme of the Govt. of India dated. 04.06.2020 & 16.09.2020 with 50% or latest applicable local content as per the Govt. norms. In view of this you are requested to furnish the Format-5 regarding Undertaking for local content in our prescribed format duly certified by statutory auditors for the quoted telecom product. So please fill the same as enclosed format 5 (a) to (g), strictly certified by Statutory auditor. Proof of your appointment of statutory auditor should be enclosed with reply.
n)	Bidder/OEM should provide escalation matrix defining who should handle incidents at each escalation level with names and contact details for each level.
o)	Experience Criteria: The Bidder or it's OEM (themselves or through a reseller) should have regularly, manufactured and supplied same or similar category products to any Central/State Govt Organization/PSU/Public Listed Company for 1 year before the bid opening date. Copies of relevant contracts to be submitted along with the bid in support of having supplied some quantity during each of the

	year.
p)	The Bidder is required to upload, along with the bid, all relevant certificates such as type test certificates, approval certificates and other such certificates as prescribed in the Product Specifications given in the bid document.
q)	Datasheets of the product(s) offered in the bid are to be uploaded along with the bid documents. Buyers can match and verify the Datasheets with the product specifications offered. In case of any unexplained mismatch of technical parameters, the bid is liable for rejection.
r)	OEM should not be blacklisted by any Central/State Govt. Organization, PSU, Public Listed Company or Indian Army.

Scope of Work:	
IIT-Hyderabad has intended to expand the existing SIP Based IP PBX System to provide seamless internal communication for the entire campus. The Scope of work comprises of the following:	
a)	Supply, installation, testing & commissioning of the additional hardware/software to expand the existing IP PBX System as specified in the detailed system specification, with third party PoE Switches, Gateways and SIP phone integration capability.
b)	Delivery of entire material to the above location including packing, handling, transporting, clearing, loading/unloading, etc
c)	Installation, testing & commissioning of all the components/ equipment / accessories, etc. as per technical specifications, and handing over to the IIT-H
d)	Providing all-inclusive service including all spares, etc. during defect liability period.
e)	All engineering, equipment, labour, and permits required to satisfactorily complete the work required by this Specification.
f)	Existing Lan Network cabling & Patch panels shall be used for connecting new telephones, Gateways, etc.
g)	Testing, Identification and rectification of Lan nodes, from nearest network rack Patch panel to Information Outlet at workstation, wherever required.
h)	Liasoning with BSNL for integration of SIP Trunks, DID, Numbering scheme programming.
i)	Providing compatible router / hardware required to configure the BSNL SIP Trunks.
j)	Testing of every extension up to workstation, including configuration/programming of SIP Phone.
k)	Monitor performance of the IP PBX System for one month and provide the necessary training to the operators and staff of IIT - Hyderabad.
l)	Any other work related to but not specifically mentioned above, required for completion of the job as per the intent and scope of work.
m)	The voice in telephone instruments should be clear without any disturbance.
n)	The firm should supply the operation and maintenance manual in softcopy.
o)	The firm should supply the Schematic of deployed VoIP network setup.
p)	The firm should maintain the IP PBX and accessories ordered herewith in full working condition during the warranty period and should repair / replace the parts free of charge during this period.

q)	During the said period of 12 months (DLP), the contractor (successful tenderer) shall make periodical inspection of the working of the entire system free of charge at least once in 90 days or earlier, if required, and attend to such other service that may be required.
r)	In case of any technical snag, it should be attended within 24 hours.
s)	Attending to break down call on urgent basis.
t)	IIT-Hyderabad will provide the following:
	i) Fiber backbone connecting all building blocks, network racks in the campus
	ii) Non-PoE, Gigabit Ethernet Connectivity with Patch panels, in every network rack.
	iii) USP Power with proper earthing for all PoE Switches, Gateways, Router and Server, inside every network rack.
	iv) Administration PC within the LAN network, for configuration of IP PBX.
v) BSNL SIP Trunk Connectivity, upto Server rack.	

List of Approved Makes:		
Sl	Equipment	Makes
a)	IP User Licenses	Matrix or Equivalent
b)	IP Gateways	Matrix or Equivalent
c)	Passive Items:	SYSTIMAX, Legrand, Molex, R&M.

Scope of Work for CAMC:	
a)	Periodic maintenance calls shall be made every once in a quarter
b)	In case of any technical snag, it should be attended within 24 hours.
c)	Shall provide emergency services on week-ends and holidays, if circumstances so require.
d)	Maintenance will include all software updates or bug fixings
e)	Rectification of cable faults from nearest network rack to workstation.
f)	Shifting Extensions to new location.
g)	Free replacement shall be provided in case of any defect/fault/failures in any active components like Server, SIP phone, PoE Switches.
h)	Liaisoning with BSNL for any SIP Trunk related service issues.
i)	Service Reports should be submitted for every complaint attended.
j)	Payment: End of Quarter, on submission of Invoice along with Service call reports/Satisfactory report from concerned department.
Exclusions:	
a)	Replacement of cables, plastic parts, LCD displays of Phones, Information Outlets and Laying of Cables, etc.
b)	Damage occurring due to lightening, over-voltage, negligence, mishandling, pests, acts of God and shifting of the system by unauthorized personnel.

TERMS AND CONDITIONS	
1	Taxes : The prices indicated in the price schedule shall be inclusive of all taxes.
2	Delivery : 4 - 6 weeks from the date of receipt of Confirmed Purchase Order for all items except Cisco : for Cisco Switches: 20-25 weeks from the date of receipt of the Confirmed Purchase

Order.	
3	<p>Warranty : The equipment is warranted for a period for 1Yr from the date of commissioning Or 13 months from the date of supply whichever is earlier. During this period any faults occurring on the System will be rectified, free of cost. This however does not include physical damage or damage arising out of misuse, improper handling, poor power conditions External high voltage, water seepage, rodent menace, earthquake, lightning etc.</p>
4	<p>Payment Terms : For Supply items: 90% against delivery and balance after Installation. : For Installation items: 100% after completion of work.</p>
5	<p>Transportation : Inclusive up to site.</p>
6	<p>Validity : This quotation is valid for a period of 60 days only.</p>



భారతీయ సాంకేతిక విజ్ఞాన సంస్థ హైదరాబాద్
भारतीय प्रौद्योगिकी संस्थान हैदराबाद
Indian Institute of Technology Hyderabad

Indian Institute of Technology Hyderabad

Kandi, Sangareddy - 502 284, Telangana, India

Phone: 040-23016773

Website: www.iith.ac.in, Email: office.admin@iith.ac.in

	Upgradation of Communication System/SIP Server based PBX:	Quantity	Compliance	Remarks
1	Gateway: SIP/MGCP, 8 FXS, T.38 FAX, G.711.G.723.1.G.729A/B, IPV6.	16		
2	Gateway: SIP/MGCP, 16 FXS, T.38 FAX, G.711.G.723.1.G.729A/B, IPV6.	05		
3	Gateway: SIP/MGCP, 24 FXS, T.38 FAX, G.711.G.723.1.G.729A/B, IPV6.	01		
4	Gateway: SIP/MGCP, 32 FXS, T.38 FAX, G.711.G.723.1.G.729A/B, IPV6.	08		
5	1Mtr Line Cord for FXS Gateway to Patch Panel.	500		
6	6U Wall mount rack with Cable manager, Fan module, shelves, PDU.	03		
7	24 Port Straight, Cat6A, Loaded patch panel.	04		
8	Service Charges for Removing of 100 voice node cables from existing patch panel and racks, re-routing the cables to new rack, re-termination to new patch panel, dressing of cables, testing and identification.			
9	Service Charges for dressing of cables, testing and identification from rack to workstation for all 500 nodes.			

1.	Installation, Testing and Commissioning charges for Gateways configuration and Server with additional licenses.			
----	--	--	--	--

ANNEXURE-C

**MANUFACTURER'S AUTHORIZATION & WARRANTY SUPPORT DECLARATION
(ON OEMs Letterhead)**

Date:

Tender No / GeM bid no:
To
The Director,
Indian Institute of Technology Hyderabad,
Kandi, Hyderabad – 502 284

We, _____ [name of Manufacturer], who are official manufacturers of [Insert type of goods manufactured] having factories at [insert full address of Manufacturer's factories], do hereby authorize [insert complete name of Bidder] to submit a bid the purpose of which is to provide the following goods, manufactured by us [insert name and or brief description of the goods], and to subsequently negotiate and sign the contract.

We hereby extend our full guarantee, warranty, availability of spare parts and AMC support in accordance with the Terms and Conditions of Contract with respect to the Goods offered by the above firm.

Authorized representative of the Manufacturer

Authorized representative Bidder

Signature:

Signature:

Name:

Name:

Address:

Address:

Mobile No:

Mobile No:

Email ID:

Email ID:

ANNEXURE D

Declaration for Local Content (on OEM's Letter Head)

**(To be given on Company Letter Head - For tender value below Rs.10 Crores)
(To be given by Statutory Auditor/Cost Auditor/Cost Accountant/CA for
tender value above Rs.10 Crores)**

Date: _____

To,
The Director,
Indian Institute of Technology Hyderabad,
Kandi, Sangareddy 502284

Sub: Declaration of Local content

Tender Reference No: _____

Name of Tender / Work: - _____

1. Country of Origin of Goods being offered: _____
2. We hereby declare that the items offered has ___% local content (**Please provide exact %**).
3. Details of location at which local value addition will be made / made: (Complete address to be mentioned) _____

"Local Content" means the amount of value added in India which shall, be the total value of the item being offered minus the value of the imported content in the item (including all customs duties) as a proportion of the total value, in percent.

*"*False declaration will be in breach of Code of Integrity under Rule 175(1)(i)(h) of the General Financial Rules for which a bidder or its successors can be debarred for up to two years as per Rule 151 (iii) of the General Financial Rules along with such other actions as may be permissible under law."*

**Yours Faithfully,
(Signature of the Bidder/OEM, with Official Seal)**

ANNEXURE-E

CERTIFICATE BY BIDDER- DPIIT REGISTRATION

“ I have read the clause regarding restrictions on procurement from a bidder of a country which shares a land border with India; I certify that this bidder is not from such a country or, / if from such a country, has been registered with the Competent Authority (copy of the Registration Certificate enclosed) . I hereby certify that his bidder fulfils all requirements in this regard and is eligible to be considered.

Signature with Date and Stamp
Of the Bidder

ANNEXURE-F

DECLARATION REGARDING CLEAN TRACK/NO LEGAL ACTION

(to be provided on letter head of the firm)

I hereby certify that the above firm namely_____is neither blacklisted by any Central/State Government/Public Undertaking/Institute nor any criminal case registered / pending against the firm or its owner / partners anywhere in India preceding three years from the date of publishing of tender.

I also certify that the above information is true and correct in any every respect and in any case at a later date it is found that any details provided above are incorrect, any contract given to the above firm may be summarily terminated and the firm blacklisted.

Date:

Authorized Signatory

Place:

Name:

Designation:

Contact No.:

ANNEXURE-G

BIDDER INFORMATION FORM

Company Name : _____
Registration Number : _____
Manufacturer/Distributor for the quoted product :Registered Address: __

Name of Partners /Director:_____

City : _____

Postal Code : _____

Company's Establishment Year:_____

Company's Nature of Business:_____

Company's Legal Status 1) Limited Company
(tick on appropriate option) 2) Undertaking
 3) Joint Venture
 4) Partnership
 5)Others (In case of Others please specify)

Company Category 1) Micro Unit as per MSME
 2) Small Unit as per MSME
 3) Medium Unit as per MSME
 4) Ancillary Unit
 5) SSI
 6) Others (In case of Others please specify)

CONTACT DETAILS

Contact Name: _____

Email Id : _____

Designation: __ Phone No : (____) _____

Mobile No: _____

BANK DETAILS

Name of Beneficiary: _____

A/c. No. CC/CD/SB/OD: _____

Name of Bank : _____

IFSC NO. (Bank) : _____

Branch Address and Branch Code: _____

Other Details

Vendor's PAN No. _____

Vendor's GST _____

ANNEXURE - H

Date:

ACCEPTANCE OF TENDER TERMS
(To be given on Company Letter Head)

DD/MM/YYYY

To,
The Director

Indian Institute of Technology Hyderabad
Kandi - 502 285.Telangana, India

Sub: Acceptance of Terms & Conditions of Tender.

Tender Reference No/GeM Bid no: _____

Name of Tender / Work: -

Dear Sir,

1. I / We have downloaded / obtained the tender document(s) for the above mentioned 'Tender' from the web site(s) namely _____ as per your advertisement, given in the above-mentioned website(s).
2. I / We hereby certify that I / we have read the entire terms and conditions of the tender documents (including all documents like annexure(s), schedule(s), etc ..), which form part of the contract agreement and I / we shall abide hereby by the terms / conditions / clauses contained therein.
3. The corrigendum(s) issued from time to time by your department/ organization too have also been taken into consideration, while submitting this acceptance letter.
4. I / We hereby unconditionally accept the tender conditions of above-mentioned tender document(s) / corrigendum(s) in its totality / entirety.
5. I / We certify that all information furnished by the our Firm is true & correct and in the event that the information is found to be incorrect/untrue or found violated, then your department/ organization shall without giving any notice or reason therefore or summarily reject the bid or terminate the contract, without prejudice to any other rights or remedy including the forfeiture of the full said earnest money deposit absolutely.

Yours Faithfully,

(Signature of the Bidder, with Official Seal)

Price Schedule: (Bidder has to download the BoO from the GeM and fill the required details and upload the same on the GeM Portal).

Price Schedule for Supply, Installation, Testing and Commissioning of IP PBX System for IIT-Hyderabad Campus.								
S. No	Description	UoM	Qty	Rate	Amount	GST%	GST Value	TOTAL
1	SIP Extension Licenses, Compatible for existing IPPBX Server	No's	500					
1	Redundant SIP Extension Licenses, compatible with the existing IPPBX Server.	No's	500					
2	SIP Extension Licenses, compatible with the existing IPPBX Server.	No's	500					
3	AUP License for Existing IP PBX Server	No's	500					
	a) 700 SIP Extension Licenses (Scalable)	No's	500					
4	Gateway: SIP/MGCP, 8 FXS, T.38 FAX, G.711.G.723.1.G.729A/B, TR069/ SNMP, IPV6, IMS	No's	16					
5	Gateway: SIP/MGCP, 16 FXS, T.38 FAX, G.711.G.723.1.G.729A/B, TR069/ SNMP, IPV6, IMS	No's	5					
6	Gateway: SIP/MGCP, 24 FXS, T.38 FAX, G.711.G.723.1.G.729A/B, TR069/ SNMP, IPV6, IMS	No's	1					
7	Gateway: SIP/MGCP, 32 FXS, T.38 FAX, G.711.G.723.1.G.729A/B, TR069/SNMP, IPV6, IMS	No's	08					
8	1.5 Mtr Line Cord for FXS Gateway to PatchPanel. Make: Best net	No's	500					
9	Supply and installation of 6U Wall mount, with Cable manager, Fan module, shelf, PDU etc.	No's	3					



భారతీయ సాంకేతిక విజ్ఞాన సంస్థ హైదరాబాద్
 भारतीय प्रौद्योगिकी संस्थान हैदराबाद
 Indian Institute of Technology Hyderabad

Indian Institute of Technology Hyderabad

Kandi, Sangareddy - 502 284, Telangana, India

Phone: 040-23016773

Website: www.iith.ac.in, Email: office.admin@iith.ac.in

10	1.5 Mtr Line Cord for FXS Gateway to PatchPanel. Make: Best net	No's	500					
Sub Total B								
11	Supply and installation of 6U Wall mount, with Cable manager, Fan module, shelf, PDU etc.	No's	3					
12	Supply, Installation and termination of 24 Port Straight, Cat6A, Loaded patch panel.	No's	4					
13	Service Charges for Removing voice node cables from existing patch panel and racks, re-routing the cables to new rack, re-terminating to new patch panel, dressing of cables, testing and identification.	Nodes	100					
14	Service charges for the dressing of cables, testing and identification from rack to work station.		500					
15	Monthly Charges for Onsite Support Engineer for maintenance of Complete Telephone network, post installation.	Months	3					
16	Installation, Testing and Commissioning charges for gateways Configuration of server with additional licenses	LS	1					
Sub Total C								
TOTAL (SUPPLY AND INSTALLATION)								

15.COMPREHENSIVE ANNUAL MAINTENANCE CONTRACT CHARGES AFTER 1YR WARRANTY.								
1	2nd Year AMC Charges	LS	1					
2	3rd Year AMC Charges	LS	1					
3	4th Year AMC Charges	LS	1					
4	5th Year AMC Charges	LS	1					
TOTAL CAMC CHARGES								

Bidder has to upload all the required documents in support of their eligibility criteria and annexures along with compliance sheets in a SINGLE PDF FILE and upload the same on the CPP Portal.