



# भारतीय विज्ञान शिक्षा एवं अनुसंधान संस्थान मोहाली

शिक्षा मंत्रालय, भारत सरकार द्वारा स्थापित  
सैक्टर 81, नॉलेज सिटी, प. ओ. मनोली, एस. ए. एस. नगर, मोहाली, पंजाब 140306  
INDIAN INSTITUTE OF SCIENCE EDUCATION AND RESEARCH MOHALI  
(Established by Ministry of Education, Govt. of India)  
Sector-81, Knowledge city, PO-Manauli, SAS Nagar Mohali-140306, Punjab  
PAN No. - AAAAI1781K GSTIN – 03AAAAI1781K2ZS

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CPPP/Institute Website

IISERM(1655)23/24-Pur

Dated: 24<sup>th</sup> January 2024

## ई - निविदा आमंत्रण सूचना NOTICE INVITING E-TENDER

आईआईएसईआर मोहाली में नए छात्रावास के लिए नेटवर्किंग सेवाएं और संबंधित कोर इंफ्रास्ट्रक्चर प्रदान करने के लिए दो बोली प्रणाली में निदेशक, आईआईएसईआर मोहाली की ओर से ऑनलाइन निविदाएं आमंत्रित की जाती हैं। तकनीकी विनिर्देश और नीचे दिए गए विवरण के अनुसार और सीपीपीपी पर मूल निर्माता/आपूर्तिकर्ता से बीओक्यू सूची अर्थात् <https://eprocure.gov.in/eprocure/app> निविदा दस्तावेज ई-प्रोक्योरमेंट पोर्टल की वेबसाइट <https://eprocure.gov.in/eprocure/app> और संस्थान की वेबसाइट [www.iisermohali.ac.in](http://www.iisermohali.ac.in) से डाउनलोड किए जा सकते हैं।

Online tenders are invited on behalf of the Director, IISER Mohali in **TWO BID SYSTEM** for the **Providing of Networking Services and related Core Infrastructure for New Hostel in IISER Mohali** as per technical specification and details given below and BOQ list from the original manufacturer/supplier at CPPP i.e. <https://eprocure.gov.in/eprocure/app>. Tender documents may please be downloaded from the E-procurement portal website <https://eprocure.gov.in/eprocure/app> & Institute website [www.iisermohali.ac.in](http://www.iisermohali.ac.in).

Sd/-

सहायक कुलसचिव (क्रय तथा भंडार)  
Assistant Registrar (Stores & Purchase)

**NOTE: This is a domestic Tender according to the DPIIT Order dated 15/07/2017, 04.06.2020 and subsequent amendments to the order for Public Procurement Preference & PROVISION FOR LOCAL SUPPLIERS TOWARDS PREFERENCE TO MAKE IN INDIA. The bidder required to declare on the letter head the percentage of Local content for the quoted instrument and submit with the Technical Bid. Bidder should also give details of the location(s) at which the local value addition is made.**



# भारतीय विज्ञान शिक्षा एवं अनुसंधान संस्थान मोहाली

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## ई - निविदा आमंत्रण सूचना NOTICE INVITING E-TENDER

Tender Ref.- IISERM(1655)23/24-Pur	Dated : 24 <sup>th</sup> January 2024
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### Critical Date Sections

Sr.	Description	Date	Time
1.	Tender Publishing Date and time	24 <sup>th</sup> January 2024	6:00pm
2.	Tender Document download start Date & Time	24 <sup>th</sup> January 2024	6:00pm
3.	Bid Submission start Date & Time	24 <sup>th</sup> January 2024	6:00pm
4.	Bid Submission End date and Time	22 <sup>nd</sup> February 2024	Upto 2:30pm
5.	Tender opening Date and Time	23 <sup>rd</sup> February 2024	At 3:30pm

Online tenders are invited on behalf of the Director, IISER Mohali in **TWO BID SYSTEM** for following item(s) from the original manufacturer/supplier at CPPP i.e. <https://eprocure.gov.in/eprocure/app>. Tender documents may please be downloaded from the E-procurement portal website <https://eprocure.gov.in/eprocure/app> & Institute website [www.iisermohali.ac.in](http://www.iisermohali.ac.in). **Online Tender fee of Rs 590/-** (Non-refundable) should be submitted by bidder in favour of IISER Mohali through Online mode and **EMD of Rs.3,40,000/-** through Online mode in Institute Account (Canara Bank Saving Account Number 4790101001912 and IFSC Code CNRB0004790) or inform of FDR/BG. However, scanned copy of the Tender fee/UTR copy and FDR/BG as may be applicable for both should be uploaded on website along with technical bid. **Micro & MSME/NSIC and Firms registered and the firms registered with concerned Ministries/ Departments, the bidders are exempted from payment of Tender Fee as per GOI notifications/GFR (2017) and Ministry of Finance OM No. F.9/4/2020-PPD dated 12 November 2020.**

**Bidders will also be required to execute bond/undertaking Bid Security Declaration Form attached as Appendix-I, in lieu of EMD, as may be applicable.**

## ITEM WISE DETAILS

S. No.	Description	Qty.
1.	Providing of Networking Services and related Core Infrastructure for New Hostel in IISER Mohali Terms and Conditions: <u>As per APPENDIX-V</u>	As per list and APPENDIX —V

### A) IMPORTANT NOTES:-

- I. This is a domestic Tender according to the DPIIT Order dated 15/07/2017, 04.06.2020 and subsequent amendments thereof for Public Procurement Preference & PROVISION FOR LOCAL SUPPLIERS TOWARDS PREFERENCE TO MAKE IN INDIA. Bidders should also give details of Location(s); at which the local value addition is made. Bidders are requested to furnish the declaration regarding local content/locations in Appendix-II through CPPP portal.
- II. Restriction under Rule 144 (xi) of the General Financial Rules (GFRs), 2017 under sub clause 3, in terms of DOE, MoF No. F.18/37/2020-PPD dated: 8<sup>th</sup> February, 2021:
  - (i) A bidder is permitted to procure raw material, components, sub-assemblies etc. from the vendors from countries which shares a land border with India. Such vendors will not be required to be registered with the Competent Authority, as it is not regarded as "sub-contracting".
  - (ii) However, in case a bidder has proposed to supply finished goods procured directly/indirectly from the vendors from the countries sharing land border with India, such vendor will be required to be registered with the Competent Authority. Kindly submit the declaration in Annexure IV.
- III. The Online bids should be submitted directly by the original manufacturer/supplier/OEM, the OEM is required to furnish certificate to this effect. If quotation is submitted/filled by any representative/ agent/dealer then they must upload a Authorization Authority certificate from the principal company/OEM.
- IV. All MSME/NSIC/Startup Units shall be considered as per provisions/rules prescribed by Govt of India.
- V. Auto-extension of last date for E-Tenders has been activated by CPP Portal which has participation 2 bids or less.

### B) SUBMISSION OF TENDER

- I. All bid/tender documents are to be uploaded online at Central Public Procurement portal i.e. <https://eprocure.gov.in/eprocure/app> only and in the designated cover/ part on the website against tender ID. Tenders/ bids shall be accepted only through online mode and no manual submission of the same shall be entertained. Also upload **Appendix-I** (Bid Securing Declaration Form) if registered as Micro & MSME/NSIC and Firms registered and the firms registered with concerned Ministries/ Departments. Late tenders will not be accepted.
- II. The online bids shall be opened at the office of the Assistant Registrar (S&P), IISER Mohali, on above given date and time. If the tender opening date happens to be on a holiday or non-working day due to any other valid reason, the tender opening process will be attended on the next working day at same time and place. IISER Mohali will not be responsible for any error like missing of schedule data while downloading by the Bidder.

III. **The bidder shall upload the tender documents/NIT duly filled in and stamped by the authorized signatory on each and every page along with all necessary Appendixes as per NIT along with checklist. Tender not submitted/uploaded with the prescribed proforma/formats (Appendixes) as per the NIT, the bids will be rejected.**

IV. **Check List of Documents (signed & stamped) to be provided and uploaded by the bidder:**

S. No.	Particulars of Documents	Yes/No	Page No. (As per technical bid)
1.	<b>Tender Notice Document Copy of NIT</b> (duly signed and stamped)		
2.	Undertaking Bid Security Declaration Form – <b>Appendix-I</b> (on letter head duly signed and stamped)		
3.	<b>Appendix-II</b> declaration of Local content/MII, with complete information (if applicable) (on letter head duly signed and stamped)		
4.	<b>Technical Compliance Sheet</b> (product catalogue etc. with all technical specifications) (on letter head duly signed and stamped)		
5.	<b>Pre Bid Integrity Pact: In Appendix-III</b>		
6.	<b>Land border sharing declaration in Annexure-IV</b>		
7.	<b>Authorization/MAF Certificate</b> from OEM (principle)/ Manufacturer certificate and other documents as per <b>Appendix-V</b> (duly signed and stamped)		
8.	<b>Tender Fee</b> , if applicable or Exemption Certificate (NSIC/MSME Certificate) (duly signed and stamped)		
9.	<b>Attach Copy of PAN</b>		
10.	<b>Attach Copy of GST</b>		

*\* If checklist is not provided by the bidder along with ABOVE DOCUMENTS (signed and stamped copy of NIT) the bid shall be summarily rejected.*

V. **Bidders applying against “MSME/NSIC Certificate” issued by appropriate Authority, should ensure that the certificate attached is relevant to the area of service/supply. For example, If the tender is for “supply & installation of Desktop” the certificate should be issued for activity/area of “Computer supply and services activities etc” otherwise bid will be REJECTED without notice.**

VI. E-procurement system ensures locking on the scheduled date and time. The system will not accept any bid after the scheduled date and time of submission of bid.

### **C) INSTRUCTIONS**

1. The Online bids should be submitted directly by the original manufacturer/supplier, If quotation is submitted/filled by any representative/agent/dealer then they must upload a authority certificate from the principal company for quoting the price otherwise such quotation will be rejected.
2. The quantity mentioned in this inquiry is and shall be deemed to be only approximate and will not in any manner be binding on the Institute. Before the deadline for submission of the online bid, IISER Mohali reserves the right to modify the tender document terms and conditions. Such amendment/modification will be notified on website against said tender ID.

3. The rates offered should be FOR Chandigarh/Mohali in case of firms situated outside Chandigarh/Mohali, and free delivery at the Institute premises in case of local firms. Conditional tenders will be summarily rejected.
4. In case of Ex-godown terms the amount of packaging forwarding freight etc. should clearly be indicated by percentage or lump sum amount. Institute has policy not to make any advance payments towards any purchase, Letter of credit can be opened if required.
5. **Custom Duty as applicable, as per GOI Rules.**
6. **GST as applicable, as per GOI Rules.**
7. Bidder/s quoting in currency other than **Indian Rupee (INR)** should explicitly mention the currency in which tender quoted wherever applicable in **Technical Bid** along the tender documents.
8. The delivery period should be specifically stated. Earlier delivery will be preferred.
9. **The firms are requested to provide/upload detailed description and specifications together with the detailed drawings, printed leaflets & literature of the article quoted and also should enclose Technical Compliance Sheet along with quoted product/material with make and model.** The name of the manufactures and country of manufacture should also invariably be stated. In the absence of these particulars and documents, the quotation is liable for rejection. Tenders not accompanied by detailed information as required, are liable to be rejected.
10. If any information furnished by the bidder is, at any stage found to be incorrect, false or fabricated, the Institute/purchaser shall have the absolute right to forfeit E.M.D. and PBG/security deposits, in addition to cancellation of contract, forfeiting the warranty/performance Guarantees and other action in accordance with law, such as black-listing, risk & cost etc.
11. Validity of offer: 180 days.
12. **Performance Bank Guarantee:** The warranty (if applicable) period after satisfactory installation should be mentioned and firm should replace all manufacturing defect parts/ whole item under warranty without any extra cost including clearance, freight, taxes. Security deposit/Performance Bank Guarantee @ 5% to 10% of the value of purchase order as per norms may be sought from the firms, in terms of Ministry of Education, GOI, OM No. F. No. 29-1/2019-IFD dated 06th April, 2023 for compliance of Ministry of Finance, DoE, GOI, OM No.F.1/2/2023-PPD dated 03.04.2023.
13. **Pre Bid Integrity Pact:** Buyer organization specific Integrity Pact shall have to be complied by all Bidders, if the cost of the equipment/machinery exceeds value of **One Crore** (as per format) **in Appendix-III.** Bidders shall have to upload scanned copy of the signed Integrity Pact.
14. The right to reject all or any of the quotation and to split up the requirements for itemized L-1 or relax any or all the above conditions without assigning any reason is reserved by the IISER Mohali. For any corrigendum and addendum please be checked the website <https://eprocure.gov.in/eprocure/app> and <http://www.iisermohali.ac.in>
15. Disputes, if any, shall be subject to jurisdiction in the court of Mohali only.

-Sd/-

**सहायक कुलसचिव (क्रय तथा भंडार)**  
Assistant Registrar (Stores & Purchase)

**APPENDIX-I**

**Bid Securing Declaration Form**

Date: \_\_\_\_\_ E-Tender No. \_\_\_\_\_ E-Tender ID \_\_\_\_\_

To (insert complete name and address of the purchaser)

I/We. The undersigned, declare that:

I/We understand that, according to your conditions, bids must be supported by a Bid Securing Declaration.

I/We accept that I/We may be disqualified from bidding for any contract with you for a period of one year from the date of notification if I am /We are in a breach of any obligation under the bid conditions, because I/We

a) have withdrawn/modified/amended, impairs or derogates from the tender, my/our Bid during the period of bid validity specified in the form of Bid; or

b) having been notified of the acceptance of our Bid by the purchaser during the period of bid validity (i) fail or reuse to execute the contract, if required, or (ii) fail or refuse to furnish the Performance Security, in accordance with the Instructions to Bidders. I/We understand this Bid Securing Declaration shall cease to be valid if I am/we are not the successful Bidder, upon the earlier of (i) the receipt of your notification of the name of the successful Bidder; or (ii) thirty days after the expiration of the validity of my/our Bid.

Signed: (insert signature of person whose name and capacity are shown)  
in the capacity of (insert legal capacity of person signing the Bid Securing Declaration)

Name: (insert complete name of person signing the Bid Securing Declaration)  
Duly authorized to sign the bid for an on behalf of (insert complete name of Bidder)

Dated on \_\_\_\_\_ day of \_\_\_\_\_ (insert date of signing)  
Corporate Seal (where appropriate)

(Note: In case of a Joint Venture, the Bid Securing Declaration must be in the name of all partners to the Joint Venture that submits the bid)

PS: *Furnish the above in original stationary/letter head with signed and sealed.*

**APPENDIX-II**

SELF DECLARATION

[For Local Content of Products, Services or Works]

**File/Tender No. ....**  
**Tender ID: ..... Dated: .....**

To,

**The Director  
Indian Institute of Science Education and Research  
(Established by Ministry of Education, Govt. of India)  
Sector-81, Knowledge city, PO-Manauli,  
SAS Nagar Mohali-140306, Punjab**

1. With reference to Order no P.-45021/2/2017 PP (BE-II) dated 04.06.2020 and No. P-45021/2/2017-PP(BE-II) dated 16-09-2020 of DPIIT, Ministry of Commerce and Industry, Govt. of India, we fall under the following category of supplier (please tick the correct category) for the items for which this tender has been floated and being bided.

- Class I local supplier – has local content equal to more than 50%. Local contents added at \_\_\_\_\_ (name of location).
- Class II local supplier – has local content more than 20% but less than 50%. Local contents added at \_\_\_\_\_ (name of location).
- Non-local supplier – has local content less than or equal to 20%. Local contents added at \_\_\_\_\_ (name of location).

2. We are solely responsible for the abovementioned declaration in respect of category of supplier. False declarations will be in breach of the Code of Integrity under Rule 175(1)(i)(h) of the General Financial Rules for which we may can be debarred for up to 2 years as per Rule 151(iii) of the General Financial Rules along with such other actions as may be permissible under law.

Signature & seal of the company

Name and address of the organization

.....  
.....  
.....

Date: .....

**Note:** In cases of procurement for a value in excess of Rs. 10 crores, the 'Class-I local supplier' / 'Class-II local supplier' shall be required to provide a certificate from the statutory auditor or cost auditor of the company (in the case of companies) or from a practicing cost accountant or practicing chartered accountant (in respect of suppliers other than companies) giving the percentage of local content.

\* To be provided in company letter head duly signed and stamped.

## APPENDIX-III

### PRE BID INTEGRITY PACT

#### General

This pre-bid Agreement (hereinafter called the Integrity Pact) is made on \_\_\_\_\_ day of the month of \_\_\_\_\_ 2010, between, on one hand, the President of India acting through Shri \_\_\_\_\_, Designation of the officer, Ministry of Education /Department, Government of India (hereinafter called the "BUYER", which expression shall mean and include, unless the context otherwise requires, his successors in office and assigns) of the First Part and M/s \_\_\_\_\_ represented by Shri \_\_\_\_\_. Chief Executive Officer (hereinafter called the "BIDDER/Seller" which expression shall mean and include, unless the context otherwise requires, his successors and permitted assigns) of the Second Part.

WHEREAS the BUYER proposes to procure (Name of the Stores/Equipment/Item) and the BIDDER/Seller is willing to offer/has offered the stores and

WHEREAS the BIDDER is a private company/public company/Government undertaking/partnership/registered export agency, constituted in accordance with the relevant law in the matter and the BUYER is a Ministry of Education/Department of the Government of India /PSU performing its functions on behalf of the President of India.

NOW, THEREFORE,

To avoid all forms of corruption by following a system that is fair, transparent and free from any influence/prejudiced dealings prior to, during and subsequent to the currency of the contract to be entered into with a view to :-

Enabling the BUYER to obtain the desired said stores/equipment at a competitive price in conformity with the defined specifications by avoiding the high cost and the distortionary impact of corruption on public procurement, and

Enabling BIDDERS to abstain from bribing or indulging in any corrupt practice in order to secure the contract by providing assurance to them that their competitors will also abstain from bribing and other corrupt practices and the BUYER will commit to prevent corruption, in any form, by its officials by following transparent procedures.

The parties hereto hereby agree to enter into this integrity Pact and agree as follows:

#### Commitments of the BUYER

- 1.1 The BUYER undertakes that no official of the BUYER, connected directly or indirectly with the bid/contract, will demand, take a promise for or accept, directly or through intermediaries, any bribe, consideration, gift, reward, favour or any material or immaterial benefit or any other advantage from the BIDDER, either for themselves or for any person, organisation or third party related to the bid/contract in exchange for an advantage in the bidding process, bid evaluation, contracting or implementation process related to the contract.
- 1.2 The BUYER will, during the pre-contract stage, treat all BIDDERS alike, and will provide to all BIDDERS the same information and will not provide any such information to any particular BIDDER which could afford an advantage to that particular BIDDER in comparison to other BIDDERS.



- 1.3 All the officials of the BUYER will report to the appropriate Government office any attempted or completed breaches of the above commitments as well as any substantial suspicion of such a breach.
2. In case any such preceding misconduct on the part of such official(s) is reported by the BIDDER to the BUYER with full and verifiable facts and the same is prima facie found to be correct by the BUYER, necessary disciplinary proceedings, or any other action as deemed fit, including criminal proceedings may be initiated by the BUYER and such a person shall be debarred from further dealings related to the contract process. In such a case while an enquiry is being conducted by the BUYER the proceedings under the contract would not be stalled.

### **Commitments of BIDDERS**

3. The BIDDER commits itself to take all measures necessary to prevent corrupt practices, unfair means and illegal activities during any stage of its bid or during any pre-contract or post-contract stage in order to secure the contract or in furtherance to secure it and in particular commit itself to the following:-
  - 3.1 The BIDDER will not offer, directly or through intermediaries, any bribe, gift, consideration, reward, favour, any material or immaterial benefit or other advantage, commission, fees, brokerage or inducement to any official of the BUYER, connected directly or indirectly with the bidding process, or to any person, organisation or third party related to the contract in exchange for any advantage in the bidding, evaluation, contracting and implementation of the contract.
  - 3.2 The BIDDER further undertakes that it has not given, offered or promised to give, directly or indirectly any bribe, gift, consideration, reward, favour, any material or immaterial benefit or other advantage, commission, fees, brokerage or inducement to any official of the BUYER or otherwise in procuring the Contract or forbearing to do or having done any act in relation to the obtaining or execution of the contract or any other contract with the Government for showing or forbearing to show favour or disfavour to any person in relation to the contract or any other contract with the Government.
  - 3.3\* BIDDERS shall disclose the name and address of agents and representatives and Indian BIDDERS shall disclose their foreign principals or associates.
  - 3.4\* BIDDERS shall disclose the payments to be made by them to agents/brokers or any other intermediary, in connection with this bid/contract.
  - 3.5\* The BIDDER further confirms and declares to the BUYER that the BIDDER is the original manufacturer/integrator/authorised government sponsored export entity of the defence stores and has not engaged any individual or firm or company whether Indian or foreign to intercede, facilitate or in any way to recommend to the BUYER or any of its functionaries, whether officially or unofficially to the award of the contract to the BIDDER, nor has any amount been paid, promised or intended to be paid to any such individual, firm or company in respect of any such intercession, facilitation or recommendation.
  - 3.6 The BIDDER, either while presenting the bid or during pre-contract negotiations or before signing the contract, shall disclose any payments he has made, is committed to or intends to make to officials of the BUYER or their family members, agents, brokers or any other intermediaries in connection with the contract and the details of services agreed upon for such payments.
  - 3.7 The BIDDER will not collude with other parties interested in the contract to impair the transparency, fairness and progress of the bidding process, bid evaluation, contracting and implementation of the contract.

- 3.8 The BIDDER will not accept any advantage in exchange for any corrupt practice, unfair means and illegal activities.
- 3.9 The BIDDER shall not use improperly, for purposes of competition or personal gain, or pass on to others, any information provided by the BUYER as part of the business relationship, regarding plans, technical proposals and business details, including information contained in any electronic data carrier. The BIDDER also undertakes to exercise due and adequate care lest any such information is divulged.
- 3.10 The BIDDER commits to refrain from giving any complaint directly or through any other manner without supporting it with full and verifiable facts.
- 3.11 The BIDDER shall not instigate or cause to instigate any third person to commit any of the actions mentioned above.
- 3.12 If the BIDDER or any employee of the BIDDER or any person acting on behalf of the BIDDER, either directly or indirectly, is a relative of any of the officers of the BUYER, or alternatively, if any relative of an officer of the BUYER has financial interest/stake in the BIDDER's firm, the same shall be disclosed by the BIDDER at the time of filing of tender.

The term 'relative' for this purpose would be as defined in Section 6 of the Companies Act 1956.

- 3.13 The BIDDER shall not lend to or borrow any money from or enter into any monetary dealings or transactions, directly or indirectly, with any employee of the BUYER.

#### **4. Previous Transgression**

- 4.1 The BIDDER declares that no previous transgression occurred in the last three years immediately before signing of this Integrity Pact, with any other company in any country in respect of any corrupt practices envisaged hereunder or with any Public Sector Enterprise in India or any Government Department in India that could justify BIDDER's exclusion from the tender process.
- 4.2 The BIDDER agrees that if it makes incorrect statement on this subject, BIDDER can be disqualified from the tender process or the contract, if already awarded, can be terminated for such reason.

#### **5. Earnest Money (Security Deposit)**

- 5.1 While submitting commercial bid, the BIDDER shall deposit an amount \_\_\_\_\_ (to be specified in RFP) as Earnest Money/Security Deposit, with the BUYER through any of the following instruments:
  - (i) Bank Draft or a Pay Order in favour of
  - (ii) A confirmed guarantee by an Indian Nationalised Bank, promising payment of the guaranteed sum to the BUYER on demand within three working days without any demur whatsoever and without seeking any reasons whatsoever. The demand for payment by the BUYER shall be treated as conclusive proof of payment.
  - (iii) Any other mode or through any other instrument (to be specified in the RFP).
- 5.2 The Earnest Money/Security Deposit shall be valid upto a period of five years or the complete conclusion of the contractual obligations to the complete satisfaction of both the BIDDER and the BUYER, including warranty period, whichever is later.
- 5.3 In case of the successful BIDDER a clause would also be incorporated in the Article pertaining to Performance Bond in the Purchase Contract that the provisions of Sanctions for Violation shall be applicable for forfeiture of Performance Bond in case of a decision by the BUYER to forfeit the same without assigning any reason for imposing sanction for violation of this Pact.

5.4 No interest shall be payable by the BUYER to the BIDDER on Earnest Money/Security Deposit for the period of its currency.

## **6. Sanctions for Violations**

- 6.1 Any breach of the aforesaid provisions by the BIDDER or any one employed by it or acting on its behalf (whether with or without the knowledge of the BIDDER) shall entitle the BUYER to take all or any one of the following actions; wherever required:-
- (i) To immediately call off the pre contract negotiations without assigning any reason or giving any compensation to the BIDDER. However, the proceedings with the other BIDDER(s) would continue.
  - (ii) The Earnest Money Deposit (in pre-contract stage) and/or Security Deposit/Performance Bond (after the contract is signed) shall stand forfeited either fully or partially, as decided by the BUYER and the BUYER shall not be required to assign any reason therefore.
  - (iii) To immediately cancel the contract, if already signed, without giving any compensation to the BIDDER.
  - (iv) To recover all sums already paid by the BUYER, and in case of an Indian BIDDER with interest thereon at 2% higher than the prevailing Prime Lending Rate of State Bank of India, while in case of a BIDDER from a country other than India with interest thereon at 2% higher than the LIBOR. If any outstanding payment is due to the BIDDER from the BUYER in connection with any other contract for any other stores, such outstanding payment could also be utilised to recover the aforesaid sum and interest.
  - (v) To encash the advance bank guarantee and performance bond/warranty bond, if furnished by the BIDDER, in order to recover the payments, already made by the BUYER, along with interest.
  - (vi) To cancel all or any other Contracts with the BIDDER. The BIDDER shall be liable to pay compensation for any loss or damage to the BUYER resulting from such cancellation/rescission and the BUYER shall be entitled to deduct the amount so payable from the money(s) due to the BIDDER.
  - (vii) To debar the BIDDER from participating in future bidding processes of the Government of India for a minimum period of five years, which may be further extended at the discretion of the BUYER.
  - (viii) To recover all sums paid in violation of this Pact by BIDDER(s) to any middleman or agent or broker with a view to securing the contract.
  - (ix) In cases where irrevocable Letters of Credit have been received in respect of any contract signed by the BUYER with the BIDDER, the same shall not be opened.
  - (x) Forfeiture of Performance Bond in case of a decision by the BUYER to forfeit the same without assigning any reason for imposing sanction for violation of this Pact.
- 6.2 The BUYER will be entitled to take all or any of the actions mentioned at para 6.1(i) to (x) of this Pact also on the Commission by the BIDDER or any one employed by it or acting on its behalf (whether with or without the knowledge of the BIDDER), of an offence as defined in Chapter IX of the Indian Penal code, 1860 or Prevention of Corruption Act, 1988 or any other statute enacted for prevention of corruption.
- 6.3 The decision of the BUYER to the effect that a breach of the provisions of this Pact has been committed by the BIDDER shall be final and conclusive on the BIDDER. However, the BIDDER can approach the Independent Monitor(s) appointed for the purposes of this Pact.

## **7. Fall Clause**

7.1 The BIDDER undertakes that it has not supplied/is not supplying similar product/systems or subsystems at a price lower than that offered in the present bid in respect of any other Ministry of Education/Department of the Government of India ~~or PSU~~ and if it is found at any stage that similar product/systems or sub systems was supplied by the BIDDER to any other Ministry of Education/Department of the Government of India ~~or a PSU~~ at a lower price, then that very price, with due allowance for elapsed time, will be applicable to the present case and the difference in the cost would be refunded by the BIDDER to the BUYER, if the contract has already been concluded.

## **8. Independent Monitors**

- 8.1 The BUYER has appointed Independent Monitors (hereinafter referred to as Monitors) for this Pact in consultation with the Central Vigilance Commission (Names and Addresses of the Monitors to be given).
- 8.2 The task of the Monitors shall be to review independently and objectively, whether and to what extent the parties comply with the obligations under this Pact.
- 8.3 The Monitors shall not be subject to instructions by the representatives of the parties and perform their functions neutrally and independently.
- 8.4 Both the parties accept that the Monitors have the right to access all the documents relating to the project/procurement, including minutes of meetings.
- 8.5 As soon as the Monitor notices, or has reason to believe, a violation of this Pact, he will so inform the Authority designated by the BUYER.
- 8.6 The BIDDER(s) accepts that the Monitor has the right to access without restriction to all Project documentation of the BUYER including that provided by the BIDDER. The BIDDER will also grant the Monitor, upon his request and demonstration of a valid interest, unrestricted and unconditional access to his project documentation. The same is applicable to Subcontractors. The Monitor shall be under contractual obligation to treat the information and documents of the BIDDER/Subcontractor(s) with confidentiality.
- 8.7 The BUYER will provide to the Monitor sufficient information about all meetings among the parties related to the Project provided such meetings could have an impact on the contractual relations between the parties. The parties will offer to the Monitor the option to participate in such meetings.
- 8.8 The Monitor will submit a written report to the designated Authority of BUYER/Secretary in the Department/ within 8 to 10 weeks from the date of reference or intimation to him by the BUYER / BIDDER and, should the occasion arise, submit proposals for correcting problematic situations.

## **9. Facilitation of Investigation**

In case of any allegation of violation of any provisions of this Pact or payment of commission, the BUYER or its agencies shall be entitled to examine all the documents including the Books of Accounts of the BIDDER and the BIDDER shall provide necessary information and documents in English and shall extend all possible help for the purpose of such examination.

## **10. Law and Place of Jurisdiction**

This Pact is subject to Indian Law. The place of performance and jurisdiction is the seat of the BUYER.

**11. Other Legal Actions**

The actions stipulated in this Integrity Pact are without prejudice to any other legal action that may follow in accordance with the provisions of the extant law in force relating to any civil or criminal proceedings.

**12. Validity**

12.1 The validity of this Integrity Pact shall be from date of its signing and extend upto 5 years or the complete execution of the contract to the satisfaction of both the BUYER and the BIDDER/Seller, including warranty period, whichever is later. In case BIDDER is unsuccessful this Integrity Pact shall expire after six months from the date of the signing of the contract.

12.2 Should one or several provisions of this Pact turn out to be invalid; the remainder of this Pact shall remain valid. In this case, the parties will strive to come to an agreement to their original intentions.

13. The parties hereby sign this Integrity Pact at \_\_\_\_\_ on \_\_\_\_\_

BUYER  
Name of the Officer.  
Designation  
IISER, MOHALI  
Deptt./MINISTRY of Education  
Govt. of India

BIDDER  
CHIEF EXECUTIVE OFFICER

Witness  
1. \_\_\_\_\_  
2. \_\_\_\_\_

Witness  
1. \_\_\_\_\_  
2. \_\_\_\_\_

\*Provisions of these clauses would need to be amended/deleted in line with the policy of the BUYER in regard to involvement of Indian agents of foreign suppliers.

**ANNEXURE-IV**

**(To be submitted on the letterhead of the company/firm)**

**CERTIFICATE BY THE BIDDER (FOR TENDERS)**

I have read the clause regarding restrictions on procurement from bidder of as country which shares a land border with India. I certify that this bidder is not form such a company or if from such a country, has been registered with the Competent Authority (copy of Registration Certificate enclosed). I hereby certify that the bidder fulfils all requirements in this regard and is eligible to be considered. This is in terms of Restriction under Rule 144 (xi) of the General Financial Rules (GFRs). 2017 under sub clause 3, in terms of DOE, MoF No. F.18/37/2020-PPD dated: 8<sup>th</sup> February, 2021.

Date:

Name of the company/firm/organization

Place:

Signature with Date and stamp of the bidder

## APPENDIX-V

### IISER Mohali New Hostel Networking

#### **1. Objective**

To provide high availability, scalability, reliability, and security, through robust network architecture to the IISER Mohali newly constructed hostels. The network infrastructure and the IT setup should offer minimal downtime due to link or device failure, breakdown, or planned outages. The network design to connect the buildings listed in the tender should integrate with the existing network infrastructure and connect to the two new hostels. The network should be scalable and flexible to make future expansions and enhancements as and when the campus infrastructure expands. The work is divided into three parts:

#### **i) Laying Down Fibre Cables and Core Infrastructure:**

- a. Laying of fiber: Fiber is to be laid down from Computer Center (CC) to the hostel as shown in [Annexure -II](#), through a non-trenching method.
- b. Core switch (CS): This is to provide backbone connectivity to each hostel and should operate in HA mode. It will be mounted at the core networking rack available at CC. It should provide 6 links to each hostel. It must support the connectivity to the already existing core switches. This should be able to adopt the available network. The connectivity from CS to DS in hostel should be done through Fibre. Details are as per table [1.2.1](#).

#### **ii) Wired Network:**

- a. Distribution Switch (DS): This will be the main distribution point for the entire hostel providing connectivity from CC to Access Switch. It will be placed at a designated place in the corresponding hostel. It must run in HA mode in each hostel separately. DS should have a comfortable number of ports matching our requirements as mentioned in the hostel requirement. Each hostel should have an independent distribution switching capability controllable at the core switch placed at CC. The connectivity from CS to DS in hostel should be done through Fibre.
- b. Access switch (AS): as per the list mentioned. The connectivity from DS to AS in hostel should be done through Cat6A.
- c. The passive component: as per the list at table number [2.1.1](#)

The layout of wired network should be as per [Annexure - III](#)

#### **iii) Wireless network**

- a. Wireless controller (WLC): This is to provide all the wireless connectivity to each hostel, and it must be placed at the network rack in CC. Uplink must be connected to the CS.
- b. Distribution switch Wireless (DS-W): This is to provide distribution for Access Switches for wireless connectivity. It will be placed at a designated place in the corresponding hostel. Must be compatible with provided WLC solution. The connectivity from CS to DS-W in hostel should be done through Fibre.

- c. Access switch for wireless (AS-W) - must be compatible with WLC – as per the list. The connectivity from DS-W to AS-W in hostel should be done through Cat6A.
- d. Access points (AP) - must be compatible with WLC– as per the list. The connectivity from AS-W to APs in the hostel should be done through Cat6 or better.
- e. Passive component – as per the list at table [3.1.1](#)

The layout of wireless network should be as per [Annexure - IV](#) and total number of ports are shown in [Annexure - I](#)

The vendor/ bidder is expected to physically visit the site (hostels at IISER Mohali) and plan for a turn-key solution to be provided to IISER Mohali and prepare a bill of material (BoM) accordingly. In case it is found at a later stage during installation some components are missing, it will be sole responsibility of the vendor/bidder to provide the missing components and make it operational.

Vendors/bidders are expected to submit bids with the specified quantities, to maintain consistency across all participants. However, any adjustments to the quantities, either an increase or decrease, will be considered on a proportional basis. The number of items associated with that particular category defines the minimum requirements for each item type.

## **2. Scope of Work**

Bids are invited for Active and Passive data networking components.

The scope of work for the active and passive data network infrastructure involves conducting feasibility site surveys to determine the most suitable locations for installing the network infrastructure. These surveys entail identifying potential obstacles and constraints, such as buildings, terrain, and existing infrastructure that may affect the installation process.

In addition, the vendor/ bidder will be responsible for preparing detailed drawings and plans for laying cable routes, rack locations, node placement, and Wi-Fi access points placement, heat-map design, among other necessary infrastructure components. This includes designing a network topology that meets the project requirements and ensures optimal data transmission speeds, reliability, and security.

Furthermore, the vendor/ bidder must select appropriate cables, connectors, and other passive network components that are compatible with the chosen network topology and meet the project specifications. The installation of these network components will adhere to industry standards and best practices, guaranteeing the efficient and effective operation of the network.

Overall, the scope of work for the active and passive data network infrastructure involves designing, planning, and installing a reliable and secure network infrastructure that meets the project requirements and supports efficient data transmission.



## Technical Specifications

### 1. Laying Down Fibre Cables and Core Infrastructure:

#### 1.1 Passive components for CS and OFC Laying CC to Hostel

S.No	Description	UOM	Qty
1.	2 x 24 Core Single mode OFC Cable Appropriate standard to provide connectivity 40G or more dual Single-Mode	Mtr.	1500
2.	The vendors must provide a complete list of compatible transceivers and connectors to provide all end-to-end connectivity from CSs to DSs.		
3.	The vendor must include appropriate HDPE Duct Pipe, Joint Enclosures, and any other requirements.		
4.	The vendors must provide a complete list of compatible cables with appropriate transceivers for all end-to-end connectivity from existing CSs to proposed CSs for 40G connectivity		

#### 1.2. Active Component

S.No	Description	Qty
1	Core Switch	2

##### 1.2.1 Core Switch specifications

S. No.	General Specifications	Compliance (Yes/No)
1	General Features & Performance:	
a	The Switch will be populated with:  24 x 10G or more connectivity for uplink to DS in hostels (the vendor must check the distance of fibre for this connectivity)  2 x 40G or more connectivity to Main Core Switch  Should support virtual chassis functionality for integration with multiple switches OR The switch should at least support stackable features, thus the vendor must provide appropriate ports and required hardware/items to support these features and it will be in the scope of the vendor to stack the switches.	
b	1 x Console port RJ 45 to DB9 console interface for switch basic management and setup, MNG port HTTP server Access.	
c	Switch should have non-blocking per-slot throughput from day 1.	
d	Shall support Single Operating System binary image for all switch models proposed as part of the design.	

e	Power Supply and fan: N+1 redundant power supply fans should be provided.	
f	Should have minimum of 4 GB Flash or more with optional SSD to host 3 <sup>rd</sup> party container-based application.	
g	The switch should support minimum of 1.0 Tbps switching capacity.	
h	Switch support IPv4 and IPv6 routing	
i	MAC addresses support	
j	Vendors must ensure the integrity of data, licenses, software, firmware. In case of failure of any such components (data, licenses, software, firmware) resulting in non functioning of switch(s), the vendor must solve the problem within time mentioned in the T&C.	

## 2. Wired Network:

### i. Passive components for wired network ( x 2 means for two hostels)

1	Cat6 Complete IO with wall mount box	Nos	524 x 2
2	Supply of ETL Verified Category 6 U/UTP Cable, low smoke zero halogen, white jacket, 4 pair count, 1000 ft (305 m) length	BOX	80 x2
3	24Port Cat6A Jack Panel, loaded	Nos	18 x2
4	48Port Cat6A Jack Panel for each excess switch loaded with suitable Patch Cable per port	Nos	4 x 2
5	Cat6 Patch Cords, 2 Mtr	Nos	524x2
6	24 U Rack with Accessories	Nos	1x2
7	12 U Rack with Accessories	Nos	15x2
8	3 Square mm Power Cable	Mtr	300x2

### 2.2 Active Components for Wired network

S.No	Description	Qty
1	Distribution Switch	2 x 2
2	Access Switch 24 port	18 x 2
3	Access Switch (48 port)	4 x 2
4	UPS	1 x 2

#### 2.2.1 Distribution Switch:

S.No	Distribution Switch-Technical Specifications	Compliance (Yes/No)
1	General Features :	
a	Switch should have at least 24 x 10GBase-T Ethernet connectivity (Cat6a). This is for the connectivity from DS-to-AS  Each DS must have appropriate uplinks ports to connect CS over 10G fibre connectivity from DS-to-CS uplink.  DS in each hostel should be configured in HA mode, thus the vendor must ensure all required items/software for the same.	

b	Advanced switching capabilities : The Switch should support non-blocking Layer 2 switching and Layer 3 routing	
c	Switch shall have at least 4 GB flash memory.	
d	Switch shall have a hot-swappable N:N redundant internal power supply and redundant fan.	
2	Functionality:	
a	Should support IEEE Standards of Ethernet	
b	Switch should support routing protocols	
c	Switch should support port security/DHCP snooping/first hop security/Spanning tree root guard or equivalent.	
d	IPv6 support in hardware, providing wire rate forwarding for IPv6 network.	
e	Vendors must ensure the integrity of data, licenses, software, firmware. In case of failure of any such components (data, licenses, software, firmware) resulting in non functioning of switch(s), the vendor must solve the problem within time mentioned in the T&C.	
f	Switch should support management features like SSHv2, SNMPv2c, SNMPv3, NTP, RADIUS and TACACS+, SSL/SSH, SFTP	
3	Security	
a	Switch should support for sending logs to multiple centralised syslog server for monitoring and audit trail	
b	Protection from unnecessary or DoS traffic by using storm control functions forunicast/multicast/broadcast.	
c	Storm control (multicast, and broadcast)	
d	Dynamic Host Configuration Protocol (DHCP) snooping or Equivalent	
e	BPDU Protection or Equivalent	
f	STP Root Protection/Equivalent	

### 2.2.2. Access Switch Wired Network

S. No.	General Specifications	Compliance (Yes/No)
1.	General Features:	
a	Switch should have at least 10/100/1000 BASE-T Ethernet connectivity. This is for the connectivity from AS-to-outlets Each DS must have appropriate uplinks ports to connect DS over 10GBase-T ethernet connectivity over Cat6a from DS-to-AS.	
b	Optional feature of switch supporting internal field replaceable unit redundant power supply. This is an optional feature.	
c	Switch should have minimum of 1 GB RAM and 2 GB Flash.	
2	Functionality:	
a	Switch should support IEEE Standards of Ethernet.	
b	Switch must have functionality like static routing.	

c	Switch should support network segmentation.	
d	Switch should support management features like SSHv2, SNMPv2c, SNMPv3, NTP, RADIUS and TACACS+ .	
e	Switch should support IPv6	

### 2.2.3 UPS

#### 10 KVA Online UPS System

S.No.	Specifications	Requirement
1	Type	UPS should be: floor standing.
2	Battery cabinet	UPS batteries should be in sealed cabinet with proper provision for ventilation.
3.	Power Backup	UPS should give 30 minutes of power backup at its full-load capacity (10KVA).
4.	Bypass mode	UPS should have inbuilt bypass mode.
5	AC Supply	UPS should be of type single phase for 230V Indian power supply.
6.	Warranty	UPS should be supplied with five years of on-site warranty and three years of warranty on batteries

### 3. Wireless network

#### 3.1.1 Passive component for Wi-Fi

S.No	Description	UOM	Qty
1	Cat6A Complete IO with wall mount box	Nos	80 x2
2	Supply of ETL Verified Category 6A U/UTP Cable, low smoke zero halogen, white jacket, 4 pair count, 1000 ft (305 m) length	BOX	22x2
3	24Port Cat6A Jack Panel, loaded	Nos	3x2
4	Patch cords as per the required port connections for both Cat6 and Cat6A respective	Nos	As per actual
5	25 mm PVC Conduit	Mtr	1800x2

#### 3.2 Active components for Wireless

S.No	Description	Qty
1	Wireless Controller	1
2	Distribution Switch	1 x 2
3	Access Switch -W	6 x 2
4	Access Point	80 x 2

##### 3.2.1. Wireless Controller

S.No	WLC Technical Specifications	Compliance (Yes/No)
1	AP should be able to tunnel traffic to remote location to WLC/tunnel aggregator device using protocols like VxLAN/EoGRE/L2TP/capwap/GRE	

2	Support for new Wi-Fi 6 (802.11ax), WPA3 and Enhanced Open and existing standards	
3	WLC should have capability to host 500 APs, if license to be purchased per AP basis, then vendor must provide at least 2 x 80 APs	
4	WLC should support 5000 or more clients. The access should be provided over email-based/key-based authentication to access the internet. If the solution is based on Key-based authentication technology, then it must adapt to our existing system without any change in the existing system.	
5	WLC must support an ability to dynamically adjust channel, power settings, and airtime, based on the RF environment. Radio coverage algorithm must allow adjacent WAPs to operate on different channels, in order to maximize available bandwidth and avoid interference.	
6	Wireless Controller should support Access Control based on Identity/Role/Device/Time or Application.	
7	Optionally WLC could support coverage hole detection and correction that can be adjusted on a per WLAN basis. (This is an optional feature).	
8	Should support Access Control Lists (ACLs).	
9	Should support built-in /URL redirection for web authentication	
10	Should be able to set a maximum per-user bandwidth limit on a per-SSID basis.	
11	WLC should support Application Visibility and Control (AVC).	
12	Should support IPv4 & IPv6.	
13	For smooth, seamless and easy manageability, operation, interoperability and maintenance, the bidder should offer/quote WLC & WAPs of the same make (OEM).	
14	Optionally the solution to support automatic packet capture in the event of a client failure or anomalous events. This is an optional feature.	
15	The WLAN solution should provide an easy GUI view dashboard to use all the settings, configuration, logs, topology view, etc.,	
16	The solution should highlight client connection failures during association, authentication and network entry.	
17	The Solution shall support Hitless/rolling, AP upgrade feature. This is an optional feature OR The solution shall support auto/manual AP upgradation features.	
18	The solution must be able to detect and automatically prevent any ad hoc network/ all Wi-Fi enabled devices such as smartphones bridging / ICS when connected to the network	

### 3.2.2. Distribution Switch for wireless network

S.No	Distribution Switch - Technical Specifications	Compliance (Yes/No)
1	General Features :	
a	Switch should have at least 12 x 10GBase-T Ethernet connectivity ports. This is for the connectivity from DS-to-AS over Cat6a.  Each DS must have appropriate uplinks ports to connect to CS over 10G fibre connectivity (from DS-to-CS uplink).	
b	The Switch should support non-blocking Layer 2 switching and Layer 3 routing	
c	Advanced switching capabilities. The switch should support non blocking Layer 2 switching and Layer 3 routing	
d	Switch shall have minimum of 4 GB flash.	
e	Switch shall have a hot swappable N:N redundant internal power supply and redundant fan.	
2	Functionality :	
a	Should support IEEE Standards of Ethernet	
b	Switch should support routing protocols	
c	Switch should support port security/DHCP snooping/first hop security/Spanning tree root guard or equivalent.	
d	IPv6 support in hardware, providing wire rate forwarding for IPv6 network	
e	Vendors must ensure the integrity of data, licenses, software, firmware. In case of failure of any such components (data, licenses, software, firmware) resulting in non functioning of switch(s), the vendor must solve the problem within time mentioned in the T&C.`	
f	Switch should support management features like SSHv2, SNMPv2c, SNMPv3, NTP, RADIUS and TACACS+, SSL/SSH, SFTP	
3	Security	
a	Switch should support for sending logs to multiple centralised syslog server for monitoring and audit trail	
b	Protection from unnecessary or DoS traffic by using storm control functions forunicast/multicast/broadcast.	
c	Storm control (multicast, and broadcast)	
d	Dynamic Host Configuration Protocol (DHCP) snooping or Equivalent	
e	BPDU Protection or Equivalent	
f	STP Root Protection/Equivalent	

### 3.2.3 Access Switch for Wireless Networking

S.No.	General Specifications	Compliance (Yes/No)
1	General Features :	
a	Switch should have at least 24 x 1GBase-T Ethernet connectivity ports (PoE/PoE+). This is for the connectivity from AS-to-AP. Each port should provide an appropriate power budget to support the required number of wireless APs (as per annexure-4).  Each AS must have appropriate uplinks ports to connect DS over 10G Base-T Ethernet connectivity (from DS-to-AS over Cat6a).	
b	Optional feature of switch supporting internal field replaceable unit redundant power supply. This is an optional feature.	
c	Switch should have minimum of 1 GB RAM and 2 GB Flash.	
2	Functionality :	
a	Switch should support IEEE Standards of Ethernet.	
b	Switch must have functionality like static routing	
c	Switch should support network segmentation	
d	Switch should support management features like SSHv2, SNMPv2c, SNMPv3, NTP, RADIUS and TACACS+ .	
e	Switch should support IPv6	

### 3.2.4 Wireless Access Point

Sr. No.	Specification WiFi6 AP 4x4 on dual radio	Compliance (Yes/No)
1	Access Point shall support 4X4 MIMO on 2.4GHz & 5GHz	
2	Access Point shall be able to power up using PoE	
3	Access Point shall support assurance, packet capture, RF sensing capabilities	
4	Access Point shall support application visibility and control	
5	Vendors must ensure the encrypted traffic flow.	
6	Optionally Access Point may have BLE radio/Zigbee to support use cases of location, asset tracking and analytics, from Day 1. This is an optional feature.	
7	Access Point shall be able to leverage current Access Point mount kit/cable conduit.	
8	Optionally Access Point may have dedicated radio/chipset for spectrum monitoring capabilities, WIPS and off channel RRM without compromising and using the client serving radios. This is an optional feature.	
9	If required, Access Point should support dual 5Ghz mode for high density scenarios.	
10	Access Point shall provide console-based connectivity that uses standard interfaces such as RJ45 OR equivalent method to get console access of AP.	

11	Access Point should have 1Gbps.	
12	Should support locally significant certificates on the APs using a Public Key Infrastructure (PKI).	
13	Must support the ability to serve clients and monitor the RF environment concurrently.	
14	Same model AP that serves clients must be able to be dedicated to monitoring the RF environment.	
15	Access Point Must continue serving clients when link to controller is down. It should also have option to authenticate user through Radius server directly from Access Point during link unavailability to controller.	
16	Must support telnet and/or SSH login to APs directly for troubleshooting flexibility.	
17	Must support QoS and Video Call Admission Control capabilities.	
18	Access point should be Wi-Fi 6 certified.	
19	Should support minimum of 10 SSIDs	
20	May support Beam forming and BSS coloring technology.	
21	The solution should support Guest Portal from Day 1 with centrally controlled authentication through wireless controller	

**Passive Component for wired and wireless network:**

S. No	Description	UOM	Qty
1	PVC Channels (15 x 15 mm) and accessories for installation ( <b>As per actual</b> )	Mtr	3000
2	PVC Conduit (32 mm) and accessories for installation ( <b>As per actual</b> )	Mtr	200
3	PVC Joints (T-, I, elbow and all required one) ( <b>As per actual</b> )	Nos	50
4	PVC flexible pipes (for 32 mm conduit pipe) ( <b>As per actual</b> )	Mtr	200
5	PVC Channel (50x50 mm) and accessories for installation ( <b>As per actual</b> )	Mtr	2000
6	Jack panels with matching numbers of ports for each Distribution switch. ( <b>03 for each hostel</b> )	Nos	6
7	<b>Installation, commissioning and services of all active and passive components for BOTH Hostels.</b>	Nos	1.000

**General comments:**

1. Annexure I indicates the minimum requirement of wired IO outlets. Annexure – III and Annexure – IV provide the minimum required of switches for wired and wireless networking respectively.
  - a. The minimum required IOs may not be the same as the available total ports (AS) as per the required switches.

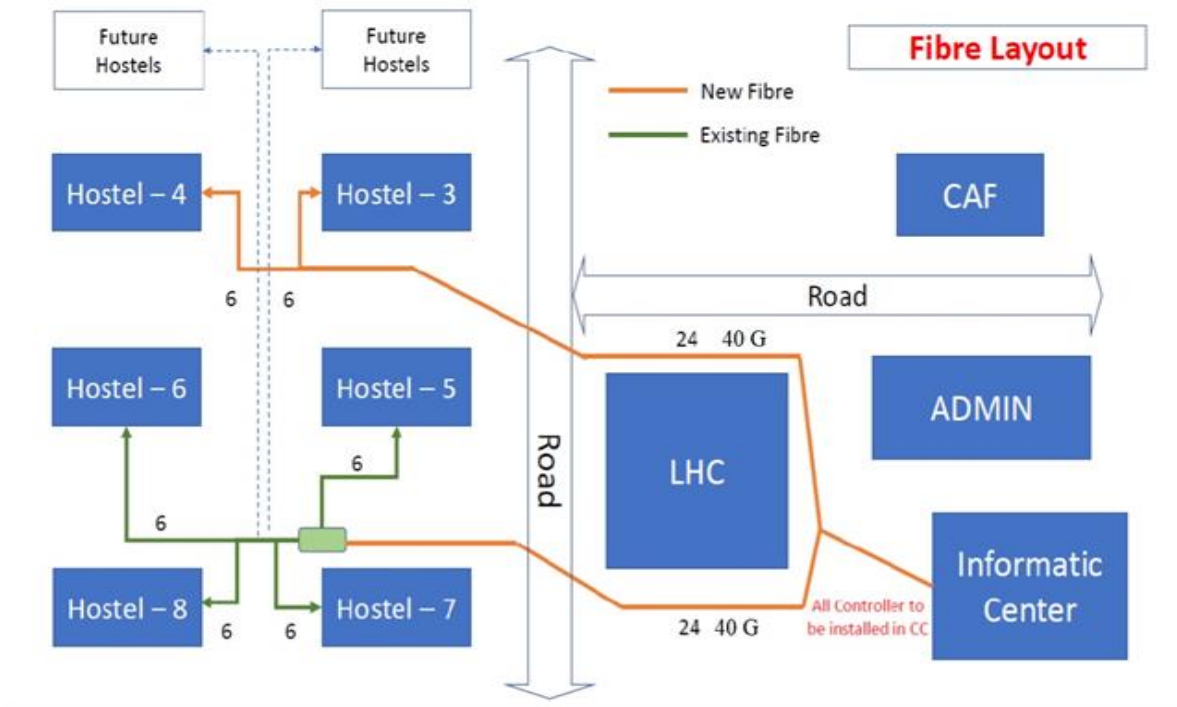


- b. Total ports available on DS may be larger than the sum of required ports on all AS.
  - c. Total ports available on CS may be larger than the sum of required ports on all DS.
2. Passive network components: All passive network components (IO Ports, cat cables, fibres, racks, patch panel, patch cord etc.) should be from one OEM.
  3. Electrical components: Electrical components (wires, conduit, PVC pipes, plugs, sockets, UPS etc) should be from one OEM.
  4. Active network components: switches (CS, DS, DS-W, AS, AS-W, compatible transceivers etc.) should be from one OEM. The WIFI APs and WLC may be from a different OEM, but it must be compatible with all active components in the flow chain

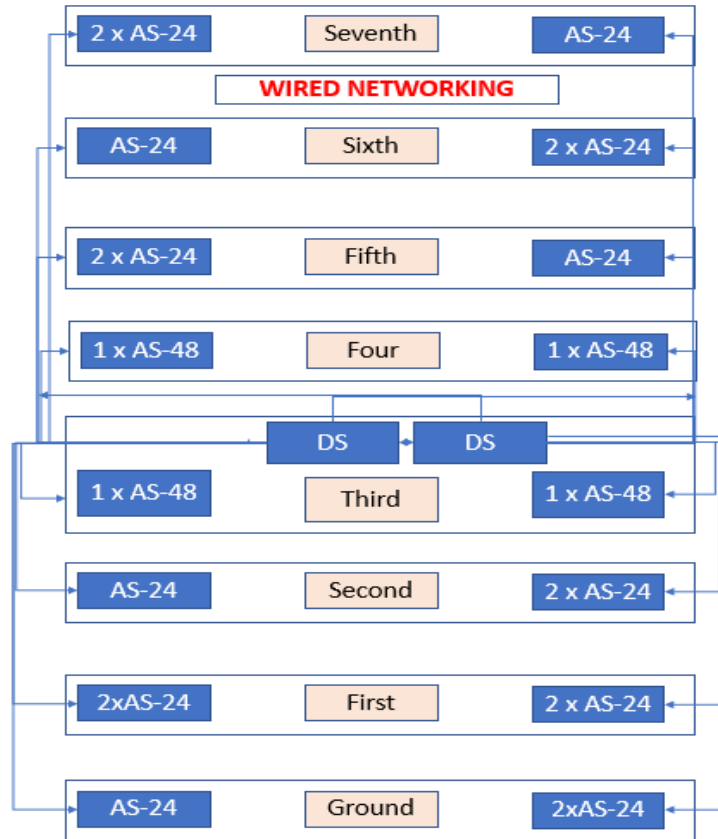
## ANNEXURE-I

<b>PORTS MAPPING</b>			<b>No. of ports</b>
<b>Ground Floor</b>	Single Room	8	8
	Double Room	16	32
	Dining Hall	2	2
	Common Activity Room	3	6
	Manager Officer	1	1
	Record Room	1	1
	Warden Room	1	1
	Office	1	1
	<b>Total Number of ports</b>		
<b>First Floor</b>	Single Room	14	14
	Double Room	18	36
	Common Space Activity Room	3	12
	Common Room	4	4
<b>Total Number of ports</b>			<b>66</b>
<b>Second Floor</b>	Single Room	14	14
	Double Room	16	32
	Common Space Activity Room	3	12
	Common Room	0	0
<b>Total Number of ports</b>			<b>58</b>
<b>Third Floor</b>	Single Room	16	16
	Double Room	24	48
	Common Space Activity Room	3	12
	Rooms	2	2
<b>Total Number of ports</b>			<b>78</b>
<b>Fourth Floor</b>	Single Room	16	16
	Double Room	24	48
	Common Space Activity Room	3	12
	Rooms	2	2
<b>Total Number of ports</b>			<b>78</b>
<b>Fifth Floor</b>	Single Room	16	16
	Double Room	18	36
	Common Space Activity Room	3	12
<b>Total Number of ports</b>			<b>64</b>
<b>Sixth Floor</b>	Single Room	16	16
	Double Room	18	36
	Common Space Activity Room	3	12
<b>Total Number of ports</b>			<b>64</b>
<b>Seventh Floor</b>	Single Room	16	16
	Double Room	18	36
	Common Space Activity Room	3	12
<b>Total Number of ports</b>			<b>64</b>
<b>Total Ports</b>			<b>524</b>

## ANNEXURE - II



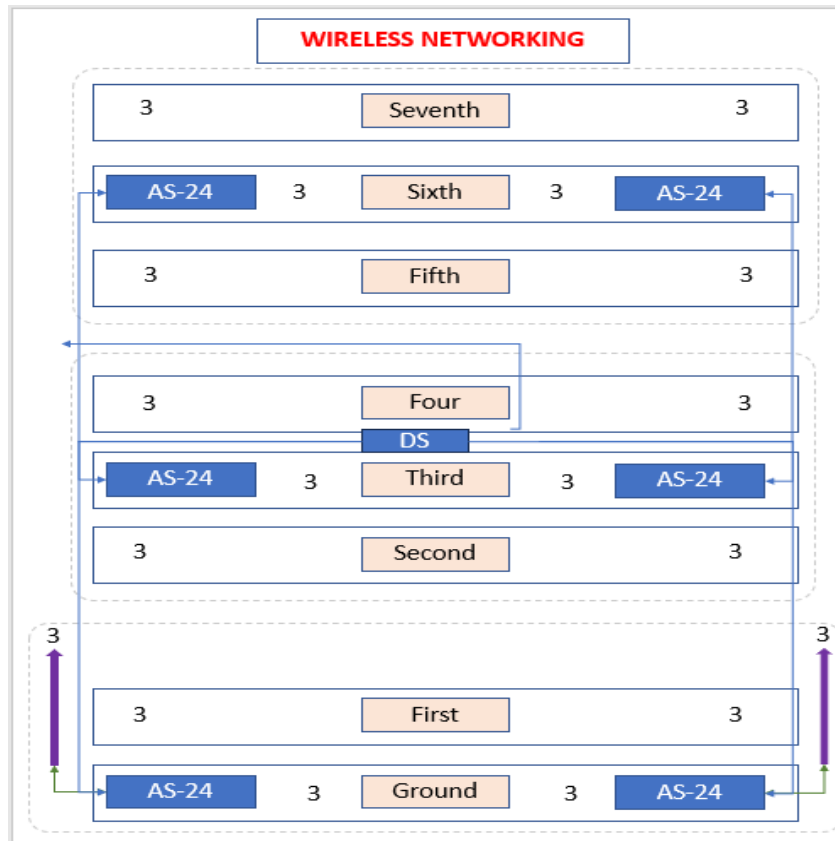
## ANNEXURE - III



Floor No	No of AS -24 ports	No of AS - 48 ports
7	3	0
6	3	0
5	3	0
4	0	2
3	0	2
2	3	0
1	3	0
Ground floor	3	0
<b>Total</b>	<b>18</b>	<b>4</b>

**Total number of 48 port switch = 4**  
**Total number of 24 port switch = 18**

## ANNEXURE - IV



Floor No	No of AS -24 ports
7	0
6	2
5	0
4	0
3	2
2	0
1	0
Ground floor	2
<b>Total</b>	<b>06</b>

**Total number of 24 port AS(wi-fi) = 6**

## **SERVICE LEVEL AGREEMENT AND WARRANTY:**

### **All the following conditions must be agreed upon.**

1. All the components should have at least 7 years of End-of-life.
2. The bidder/ vendor must provide 24 x 7 x 365 days online support as and when required. In the event that an issue is not resolved within 2 hours (including public holidays), the bidder must send their engineer to the site within 24 hours of the issue being raised (including public holidays). If the vendor fails to provide support within the specified duration, a penalty of Rs. 5000 per day of delay would be charged, and in case of non-deposit of the penalty, the amount shall be deducted from the any dues payable towards the vendor or the Performance Security Deposit may be forfeited.
3. The bidder/ vendor must ensure that all installed equipment supplied by them has a minimum uptime of 99.5%, which may be calculated quarterly. In case of any downtime, a penalty of Rs. 5000 per day of delay would be charged, and in case of non-deposit of the penalty, the amount shall be deducted from the any dues payable towards the vendor or the Performance Security Deposit may be forfeited.
4. The faulty material must be replaced within 48 hours of the complaint being raised. In case the bidder fails to replace the part on time, a penalty of Rs. 5000 per day of delay would be charged, and in case of non-deposit of the penalty, the amount shall be deducted from the any dues payable towards the vendor or the Performance Security Deposit may be forfeited.
5. The equipment warranty agreement/document must be submitted to IISER Mohali within 1 month after installation. The payment will be released only upon the receipt of warranty agreement/document.
6. The defects, if any, during the guarantee/warranty period are to be rectified free of charge by arranging free replacement.
7. During the warranty period, the OEM/bidder must undertake comprehensive maintenance of the entire hardware components, equipment, and software support supplied by the vendor at the place of installation of the equipment.
8. Technical support shall be provided for system administration and maintenance of all devices for the entire warranty period.
9. The bidder/ vendor must submit a list of service engineers employed by them who are competent to serve installation, along with their contact details.
10. The prospective bidder/vendor should provide hands-on training to the IISER Mohali Network Team. It may be on-premises or in OEM/Bidder location, without charge.
11. Passive network components: All passive network components (IO Ports, cat cables, fibres, racks, patch panel, patch cord etc.) should be from one OEM,
12. Electrical components: Electrical components (wires, conduit, PVC pipes, plugs, sockets, UPS etc) should be from one OEM.
13. Active network components: Switches (CS, DS, DS-W, AS, AS-W, compatible transceivers etc.) should be from one OEM. The WIFI APs and WLC may be from a different OEM, but it must be compatible with all active components in the flow chain.
14. All equipment must be installed following best practices recommended by the OEM (Original Equipment Manufacturer).
15. Vendor / bidder must provide a CMMI level 3 or above certificates for their organization.

16. The bidder/Vendor must visit and make a site survey and check the compatibility of their proposed solution with the existing network.
17. The vendor/bidder must provide certificate about the execution at least one similar size work with the OEM in their proposed bid/solution.
18. The vendor/bidder must provide their requirements based on the site survey in writing. To integrate the proposed solution of the vendor/bidder, they must request the information about existing network infrastructure required by them to integrate. IISER Mohali reserve right not to publish sensitive information asked in this questionaries, however vendor/bidder must justify whey they required such information.
19. The vendor/bidder should agree to perform demo by demonstration of the compatibility check with existing network infrastructure. The demonstration will be considered as part of technical evaluation.

## **Eligibility Criteria for bidder**

1. The Bidder/OEM's qualification will be determined based on their ability to execute this project and provide continuous support. The Bidder/OEM should submit the tender documents with the indexing as mentioned in the criteria shown above with the proof of supporting documents. The sequence with page numbers and bookmarking should be specified.
2. In addition to the supporting documents, an undertaking for the fulfilment of each eligibility criterion should be submitted.
3. **Works Experience:** The bidder must have completed similar campus/building networking works in IISERs, IITs, NITs, any other INIs or Government academic Institutes/Universities during the last seven (07) years. The bidder must have successfully completed similar work during the last seven years ending on the last day of month to the one in which tender is floated.
  - a) Three similar completed works each consisting of not less than **40% of switches (in nos.) and 40% of APs(in nos.), OR 40% of switches (in nos.) and 40% of ports (in nos.) proposed in the tender;** or
  - b) Two similar completed works each consisting of not less than **50% of switches(in nos.) and 50% of APs(in nos.), OR 50% of switches(in nos.) and 50% of ports (in nos.) proposed in the tender;** or
  - c) One similar completed works each consisting of not less than **80% of switches(in nos.) and 80% of APs (in nos.) or 80% of switches(in nos.) and 80% of ports(in nos.) proposed in the tender.**

**The relevant documentary proofs to be attached with the technical bid.**

**Estimated Bid Value: Rs. 1,70,00,000/-**

4. At least one of the above orders should be with the **OEM of the active component** that bidder is quoting.
5. **OEM Authorization Certificate:** The bidder must submit a valid OEM authorization certificate for this bid.
6. **Experience:** The bidder should have at least 7 (seven) years of experience in supply, installation, integration, commissioning, and management of networking projects. Certified copies of Successful Work Completion certificates clearly state the work's nature to be submitted as proof.
7. The Bidder should have an average annual turnover of 50% of estimated bid value in the last 3 years.
8. The Bidder should be ISO 9001 or 27001 Certified. Bidder to submit copies of valid ISO Certificate along with the bid.
9. **Active network components:** Switches (CS, DS, DS-W, AS, AS-W, compatible transceivers etc.) should be from single OEM. The WIFI APs and WLC may be from a different OEM, but it must be compatible with all active components in the flow chain.
10. Bidders should ensure that the supplied equipment must be able to integrate with existing Network Infrastructure , the details can be obtained and can be asked by Institute to demonstrate.



### **Eligibility Criteria for OEM (Active component):**

1. Proposed Products (software, firmware, and hardware) must have a comprehensive OEM onsite warranty pack for 5 years on all quoted hardware and software with 24\*7\*365 TAC support and NDB hardware replacement from the date of installation.
2. The OEM must have local Technical Assistance Centre (TAC) support within Tricity/Pubjab/Haryana or through a toll-free number in India, where customers can directly log a complaint against any failure. There should be Returned Materials Authorization (RMA) depot in India. The OEM should submit confirmation on the letterhead.
3. The OEM of Active components quoted by the bidder should have presence in India from the last seven years ending on the previous day of the last day of submission of tender. OEM incorporation certificate to be submitted
4. Non-Malicious code certificate to be submitted on the OEM letterhead.

### **Eligibility Criteria for Passive Component**

1. The passive components' OEM must be ISO 9001 and ISO 14000 certified. The material must have been manufactured in the OEM's own manufacturing facilities and not outsourced.
2. The OEM of passive components quoted by the bidder should have a presence in India for at least seven years, ending on the previous day of the last day of submission of the tender. Supporting documents must be attached. The OEM should also have at least one manufacturing plant in India to comply with the Make in India initiative.
3. The OEM of Passive components must have at least one RCDD (Registered Communications Distribution Designer) certified engineer on their own payroll sitting in India, whose services can be utilized in the project as and when required. Supporting documents are required with the bid.
4. Passive network components: All passive network components (IO Ports, cat cables, fibres, racks, patch panel, patch cord etc.) should be from one OEM,
5. Electrical components: Electrical components (wires, conduit, PVC pipes, plugs, sockets, UPS etc) should be from one OEM.
6. All fiber cables should be bent compliant with ITU-T G.657.A1, OS2.
7. For Cat 6/Cat 6A U/UTP cables, performance should be maintained even when termination is within 15 meters, thus ensuring the elimination of short resonance for 4-connector channels. UL/ETL reports for 4 Connectors need to be submitted.
8. The bidder/OEM should provide test reports generated from any testing software/device for a minimum of 5000 nodes in support of experience to execute such requirements of margin (3 dB or higher) for Cat 6A / (6 dB or higher) for Cat6 of NEXT (worst case) for the entire frequency range specified in ISO/IEC 11801. Supporting documents are required.
9. The Cat 6 U/UTP cable and Cat 6A U/UTP cable should be ETL verified, and all passive components should comply with the RoHS standard. The declaration of RoHS compliance should be mentioned on the datasheets of each Passive Component.

10. The Cat 6 U/UTP and Cat 6A U/UTP cable should comply with IEC60332-3-22, IEC 61034-1 and -2, IEC 60754-1 and -2, UL 94, EN 50575 features for environment safety.

11. Failure to comply with any of the above terms and conditions will lead to the rejection of the bid.

### **Other Terms & Conditions**

1. **Consortium:** The bidder should be a single legal entity / individual organization. The consortium shall not be allowed (Undertaking signed by an authorized signatory must be provided).

2. **Materials:** The materials supplied by the bidder shall be new, i.e., manufactured not earlier than 12 months before the date of quotation opening, on OEM letterhead.

3. **Site Survey:** The bidder must visit to inspect & survey site conditions before quoting their rates for the tender. Any later claims regarding site conditions will not be entertained.

4. **Residential Accommodation:** No residential accommodation shall be provided to any of the staff engaged by the bidder. The bidder shall also not be allowed to erect any temporary setup for staff on the campus.

5. **Labor Safety and Compliance:** The labour deployed on the site for the execution of work shall take all safety precautions, and the bidder shall be responsible for complying with all labour regulations, liabilities, and safety measures. If IISER Mohali is dissatisfied with the labour performance, alternate staff must be provided immediately.

6. **Drawings Approval:** The bidder must submit the LAN and Fiber cable laying route plan in CAD drawings with the precise locations to the IT Section before executing the works for approval from the Competent Authority.

7. **Site Personnel:** The bidder shall depute one Site Engineer and Site Supervisor on their payroll. The Site Engineer should be OEM certified and have a minimum of 4 years of experience in passive networking. They shall remain present at the site from the start of the project until the completion certificate is issued. If the Site Engineer or Supervisor is absent, recovery shall be made from the bidder at the rate of Rs. 2000/- per day/per person. The bidder shall provide the details of the Site Engineer and Supervisor, including their names, qualifications, and experience, along with the bid. The attendance of these personnel shall be recorded at IISER Mohali.

8. **In-house Equipment:** Bidders should have Splicing, OTDR/OLTS, and Penta scans machines in-house. The bidder must provide an undertaking document on their letterhead.

9. **Additional Work:** Before commencing any additional work/material, the bidder must take written approval from the authorities of IISER Mohali.

10. **Responsibility:** The bidder is responsible for resolving any damage to the passive components caused by other agencies or external parties. IISER Mohali shall not be held accountable for addressing such issues.

**11. Structural Damage:** If any structure, temporary or permanent, is dismantled, destroyed, or damaged during the execution of the work, the bidder shall refill, restore, or reconstruct to its previous condition at their own cost. IISER Mohali shall not be responsible for any such damages.

**12. Physical Verification:** After installation, all passive components should undergo physical verification.

**13. Material Custody:** The bidder shall rectify any damages caused during the installation or shifting of materials when the site is under the bidder's custody. The delivered materials will be under the custody of the bidder until the completion of the project.

**14. Balance Material:** The given BoQ is a preliminary estimate; therefore, a site visit is mandatory for bidders. Balance/Remaining material should be taken by the bidder at their own cost. The Institute will not bear any transportation charges, toll charges, taxes, or storage charges. The materials should be removed within ten days from the date of the completion certificate. The Institute will not be liable for the safety of the materials.

**15. Billing:** The billing shall be based on actual measurements(joint to joint) of the materials used. No additional measurements regarding wastage, missing items, overheads, and balance material shall be entertained in the billing.

#### **Delivery, Installation Schedule, and Penalties:**

##### **1. Material Deliveries & Installation:**

##### **a) Phase 1 (to be implemented immediately upon issuing the Order)**

i) Laying of fibre cable : **it should not be more than 21 days from the date of issue of Order.**

##### **2. Phase 2:**

i) Installation of wireless and LAN in Hostel-3 and Hostel-4: The wireless has to be implemented first before LAN, the equipment and all accessories required for installation and functioning of the **wireless and it should not be more than 45 days from the date of issue of Order.** The equipment and all accessories required for installation and functioning of the **LAN and it should not be more than 75 days from the date of issue of Order.**

**b) Storage:** IISER Mohali may provide storage facilities if available otherwise, the bidder should make their own temporary storage facility inside the campus for the storing of the material until installation. The material remains the property of the bidder until it is installed and the site is handed over to IISER Mohali. The bidder is responsible for the security of the material, and in case of any loss due to theft, damage, or natural disaster then the bidder must provide a replacement.

**c) Material Delivery information:** The bidder must inform the Computer Centre with CC to Stores at IISER Mohali at least 48 hours before the arrival of the material at the site. The IT team at IISER Mohali will verify the quantity of materials only after delivery for the sole purpose of monitoring material delivery timelines.

**d) Component Warranty:** All Active and Passive components supplied by the bidder should carry a comprehensive warranty for a period of **5 years except fibre optics which should have a warranty of at least 20 years.** The bidder should put in place preventative measures to protect the cables. If the copper cable is damaged by rats within the warranty period, the bidder will be responsible for laying a new cable free of cost. The material will be provided by IISER Mohali.

e) **Warranty Terms:** The starting date of the warranty will be from the actual completion of work or handing over whichever is later. The complaints under warranty should be resolved within 48 hours(including public holidays) of notification. A penalty of Rs. 1000 per day will be charged. The bidder must rectify defects without any charges within the warranty period. In case of physical damage, fire, or any other reasons, the warranty is void. The bidder will rectify the fault as per the rate quoted on the tender. IISER Mohali will not pay any amount for fault detection.

f) **Penalty:** A penalty of 0.5% per week subject to maximum of 10% of the value of the order will be charged for late delivery and site handing over. IISER Mohali has the right to cancel the purchase order in case the material is not delivered within 60 days of the purchase order date.

g) **Scope of Documentation**

The bidder should provide IISER Mohali with the following documentation:

- a. 5 sets of Hard copies (A0 size) and soft copies (CAD and pdf) in USB pen drive of As-built drawings (both LAN and fiber)
- b. Installation reports, including measurements, should have separate indoor and outdoor sections.
- c. Completion certificate will be issued only after the completion of work.

h) **Payment Terms** (Payment will be released phase-wise)

- a) 50% of the material value will be paid upon receipt and verification each of the materials.
- b) Milestone Payment: Upon successful installation and verification of both materials and services, 70% of the services payment will be released based on the installed materials and services at stagewise.
- c) Final Payment: Balance payment for the materials and services, as per actual, will be made upon the completion of the project on the basis of completion certificate provided by the contractor and Verification by the Committee of the Institute and submission of the PBG.
- i) Earnest Money Deposit (EMD): 2% of bid value
- j) **Performance Bank Guarantee (PBG):** 5% of order Value.
- k) Other routine clauses of Stores would be added like Integrity Pact, Non- Blacklisting Certificate and local Content Declaration