

Tender No: IIMBG/NIT/ICT/2024-25/06

Date: October 08, 2024

**Notice Inviting Tender**

**For**

**Supply, Installation and Commissioning of ICT equipment  
(Wi-Fi connectivity and CCTV Camera)  
in Hostel Bose and the forthcoming hostel of IIMBG**

**Issued By**

**IIM Bodh Gaya (Bihar)**

**(e-Procurement Mode only)**

**Tender Document can be downloaded from the following websites: -**

<http://www.iimbg.ac.in>

<https://eprocure.gov.in/eprocure/app>

**Address to:-**

**Tender Inviting Authority (TIA)  
Chief Administrative Officer (CAO)  
IIM Bodh Gaya (Bihar)  
**Phone: 0631-2200238,**  
**Mail Id: [cao@iimbg.ac.in](mailto:cao@iimbg.ac.in)****

### 1. NOTICE INVITING TENDER

Online Bids are invited under a Two Bid system for Supply, Installation and Commissioning of ICT equipment (Wi-Fi connectivity and CCTV Camera) in Hostel Bose and the forthcoming hostel of IIMBG (hereinafter referred to as "IIM Bodh Gaya", "IIMBG", or the "Institute") as per the schedule mentioned below:

SL.	Item Name	Description
1	Service Description	Supply, Installation and Commissioning of ICT equipment (Wi-Fi connectivity and CCTV Camera) in Hostel Bose and the forthcoming hostel of IIMBG.
2	Tender Ref. No. and Date	Tender No: IIMBG/NIT/ICT/2024-25/06, Date: October 08, 2024.
3	Estimated cost of Tender	Rs. 56,72,357 (Fifty-Six Lakh Seventy-Two Thousand Three Hundred and Fifty-Seven rupees)
4	EMD (Earnest Money Deposit)	2% of the Cost of Tender Rs. 113448/- (One Lakh Thirteen Thousand Four Hundred and Forty-Eight Only)
5	Performance Security	The successful bidder should deposit Performance Security @ 3 % of the total contract value before finalizing the contract agreement.
6	Date of e-Publishing on Central Procurement Portal	As per CPP Portal Uploaded on website: - <a href="https://www.iimbg.ac.in">https://www.iimbg.ac.in</a> and CPP Portal <a href="https://www.eprocure.gov.in/epublish/app">https://www.eprocure.gov.in/epublish/app</a> .
7	Prebid Meeting	As per CPP Portal
8	Closing Date & Time for Submission of Bids	As per CPP Portal.
9	Opening of Technical Bids	As per CPP Portal.
10	Opening of Financial bid	After Technical bid evaluation, will be informed later.
11	No. of covers	02 covers (Technical & Financial).
12	Contract Period	Five Years
13	Location of the work	Indian Institute of Management Bodh Gaya, Uruvela, Prabandh Vihar Bodh Gaya – 824234, India.

### Disclaimer

The information contained in this Tender or subsequently provided to bidders, whether verbally or in documentary or any other form by or on behalf of IIMBG or any of its employees or advisers, is provided to bidders on the terms and conditions set out in this Tender and such other terms and conditions subject to which such information is provided. This Tender is issued by IIMBG. This Tender is not an agreement and is neither an offer nor invitation by IIMBG to the prospective bidders or any other person. The purpose of this Tender is to provide interested parties with information that may be useful to them in the formulation of their Bid pursuant to this Tender. This Tender includes statements, which reflect various assumptions and assessments arrived at by IIMBG in relation to the ICT equipment (Wi-Fi connectivity and CCTV Camera) Project for Indian Institute of Management Bodh Gaya. Such assumptions, assessments and statements do not purport to contain all the information that each Applicant may require. This Tender may not be appropriate for all persons, and it is not possible for IIMBG, its employees or advisers to consider the objectives, technical expertise and particular needs of each party who reads or uses this Tender. The assumptions, assessments, statements, and information contained in this Tender, may not be complete, accurate, adequate or correct. Each Applicant should, therefore, conduct its own investigations and analysis and should check the accuracy, adequacy, correctness, reliability and completeness of the assumptions, assessments and information contained in this Tender and obtains independent advice from appropriate sources. Information provided in this Tender to the bidders is on a wide range of matters, some of which depends upon interpretation of law. The information given is not an exhaustive account of statutory requirements and should not be regarded as a complete or authoritative statement of law. The IIMBG accepts no responsibility for the accuracy or otherwise for any interpretation or opinion on the law expressed herein. IIMBG and its employees and advisers make no representation or warranty and shall have no liability to any person including any Applicant under any law, statute, and rules or regulations or tort, principles of restitution or unjust enrichment or otherwise for any loss, damages, cost or expense which may arise from or be incurred or suffered on account of anything contained in this Tender or otherwise, including the accuracy, adequacy, correctness, reliability or completeness of the Tender and any assessment, assumption, statement or information contained therein or deemed to form part of this Tender or arising in any way in this Selection Process. IIMBG also accepts no liability of any nature whether resulting from negligence or otherwise however caused arising from reliance of any Bidder upon the statements contained in this Tender. IIMBG may in its absolute discretion, but without being under any obligation to do so, update, amend or supplement the information, assessment or assumption contained in this Tender. The issue of this Tender does not imply that IIMBG is bound to select a Bidder or bidders, as the case may be, for the selection of System Integrator for ICT equipment (Wi-Fi connectivity and CCTV Camera) and IIMBG reserves the right to reject all or any of the Proposals without assigning any reasons whatsoever. The Bidder shall bear all its costs associated with or relating to the preparation and submission of its Proposal including but not limited to preparation, copying, postage, delivery fees, expenses associated with any demonstrations or presentations which may be required by IIMBG or any other costs incurred in connection with or relating to its Proposal. All such costs and expenses will remain with the Bidder and IIMBG shall not be liable in any manner whatsoever for the same or for any other costs or other expenses incurred by a Bidder in preparation or submission of the Bid, regardless of the conduct or outcome of the Selection Process.

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## 1. Introduction

Indian Institute of Management Bodh Gaya (IIMBG) is one of the IIMs set up under the Union Budget of 2014, India; established in 2015. IIMBG come under Higher Education Institutes (HEIs) and Institutions of National Importance (INI) in the Ministry of Education (MoE), Government of India.

IIMBG has one Academic/Administrative block and two different types of hostels: old and new hostels. Currently, the institute is a part of the National Knowledge Network (NKN) of the Government of India and has 1Gbps internet bandwidth. All the hostels are connected through the Internet; however, one of the hostels, Bose, and one forthcoming hostel is under renovation, and there is a requirement to provide an Internet facility in it. This setup implementation is meant to ensure seamless connectivity, faster data transfer, and integration with the institution's existing network.

## 2. Scope of Work

The scope of the work is to provide a complete turnkey solution that includes but is not limited to Installation only. It should cover Design, Supply, Installation, Implementation, Commissioning, Training, and providing Five Years warranty for the complete solution, including all hardware, software, materials, services, and support, etc. Work also includes all related work at the controlling office at IIM BG. All necessary cabling/wiring infrastructure conforming to respective quality /standard norms are also included in the scope of this job. The bidders are advised to visit the sites before quoting bid in the tender. Bidder shall be responsible for the following scope of services and shall be the Single Point of responsibility for the end user/client officials for the entire period of 5 years of warranty.

### Scope of Work for bidder shall include:

- i Supply and installation and provide warranty & related support services for hardware and upgrade/update/enhancement for system software, as detailed out in technical specifications, including related software, firmware etc. for a period of 5 years from the date of commissioning for all supplied items at IIM Bodhgaya including additional material/hardware/software /services as may be required to be supplied without any additional cost.
- ii Providing detailed architecture diagram of Test & Deployment, Quality and Production environment setup for optimum performance, security, scalability and desired uptime requirement. Should include all other supporting material as per the requirement to ensure smooth implementation. In that context, it is a 'turn - key' assignment.
- iii The System Integrator will need to provide a detailed implementation plan including the architecture diagram, strategy, approach, and delivery of materials, specific issues, and their resolutions. Detailed implementation and post - implementation processes and procedures.
- iv Bidder has to collaborate, coordinate and deploy manpower to ready the entire project setup. Bidder must build in the cost for the same, if any under implementation services.
- v Bidder has to ensure seamless integration of quoted Hardware & software product with applications and also has to provide the material/services which are not mentioned in min tech specification but required to complete the turnkey solutions without any additional cost invariably.
- vi The installation must be done directly by OEM or directly by through their authorized partner/reseller/system integrator only.
- vii Bids shall be considered only in those cases where the bidder has quoted for the entire scope of the work.
- viii Bidder has to submit the OEM compliance letter on OEM Letter head only showing line by line compliance with tender specification for the items "Switches, Access Points, UTP and OFC Component's, UPS Camaras & NVR".
- ix Tender specific MAF for the items ""Switches, Access Points, UTP and OFC Component's, UPS Camaras &



NVR” should be mandatory and shall be submitted by the bidder failing shall be liable for rejection of their bid technically.

- X All the Switches and Access Points should be from same OEM, all the UTP and OFC components should be from same OEM and Camaras and NVR should be from Same OEM.
- xi We have our existing WLC from Cisco make and the supplied access points shall be controlled by that existing WLC. Required licenses for add the supplied Access Points into the WLC should be provided by the bidder.
- xii The materials offered together with all services to be performed by the Bidder as covered under the specifications of this work shall be fully in Compliance with the requirements stated herein.
- xiii The Bidder shall be responsible for providing all materials, equipment, installation / maintenance tools and services, specified or otherwise, which are required to fulfill the intent of ensuring operation-ability/ maintainability and reliability of total materials covered under these specifications. The work and materials shall be in compliance with all applicable, statutory regulations and safety requirements applicable.
- xiv Any required accessories like clamps, nails, strings, GI Wire etc. to complete the job as per Site Condition should be in the scope of the vendor. Drawings and Data Requirements to be submitted by the Bidder for the complete system.
- xv IIM Bodhgaya will provide row power with proper grounding Suitable power and environmental conditions in Hostel.
- xvi Five years of comprehensive warranty.

### 3. Site Visit

It is the responsibility of the bidder to visit the proposed sites at their own cost and assess the feasibility before submitting their technical solution and offer to get a clear idea about the work and preparation of requirements across the sites. IIMBG will facilitate bidders to get access to the sites upon prior intimation between 10.00 AM to 5:00 PM on all working days if required.

### 4. Deliverables & Timelines

The project is to be completed within the overall proposed timelines of sixteen weeks. The activity wise timeline is as mentioned below:

SL	Activities	Baseline Timeline (in Week) T = Date of issue of Letter of Intent (LOI)
01	Supply of Cables, Passive Components, Laying and termination	T+6 Week
02	Delivery of remaining hardware (100% as per site requirement)	T+8 Week
03	Installation and commissioning of the required Hardware and Software on all sites	T+10 Weeks
04	Final Acceptance Test (FAT)	T + 11 Week
05	Warranty & Maintenance	5 Years from Date of FAT

### 5. Clarification and Prebid Meeting:

The Bidders will have to ensure that their queries should reach to the Tender Inviting Authority on or before 14-10-2024 (Monday) by email only in editable excel format to [ao.purchase@iimbg.ac.in](mailto:ao.purchase@iimbg.ac.in). Any queries/ clarification/letter etc. sent after scheduled timeline will not be entertained. and the Prebid meeting will be scheduled on 15-10-2024 at 04.00 PM through online mode in the given meeting link <https://meet.google.com/nqd-dvan-pjc>.

The queries should necessarily be submitted in the following format in editable excels. Submit all your queries in one email only. The sender should be employees of the Bidding Company, and the query need to send through official email ID.

SI No.	Page Number(s) & Section of NIT	Content of NIT requiring Clarification(s)	Points of clarification	Justification

IIMBG shall not be responsible for ensuring that the bidders' queries have been received and / or addressed. Any requests for clarifications after the indicated date and time may not be entertained by the IIMBG. Also queries other than specified format (in editable excel) will not be entertained by IIMBG.

## 5.1 Responses to Queries and Issue of Corrigendum

Tenderer reserves the right not to respond to any/all queries raised, or clarifications sought if, in their opinion and at their sole discretion, they consider that it would be inappropriate to do so or do not find any merit in it. The corrigendum shall be uploaded on the website <http://iimbg.ac.in>, & CPP Portal website: <https://www.eprocure.gov.in/eprocure/app>.

IIMBG will endeavor to provide timely response to all queries. However, IIMBG makes no representation or warranty as to the completeness or accuracy of any response; nor does IIMBG undertake to answer all the queries that have been posed by the bidders.

At any time prior to the last date for receipt of bids, IIMBG may, for any reason, whether at its own initiative or in response to a clarification requested by a prospective Bidder, modify the tender Document through a corrigendum. The Corrigendum (if any) & clarifications to the queries from all bidders will be posted on the website <http://iimbg.ac.in>, & CPP Portal website: <https://www.eprocure.gov.in/eprocure/app>

Any such corrigendum shall be deemed to be incorporated into this tender documents. In order to provide prospective Bidders reasonable time for taking the corrigendum into account, may, at its discretion, extend the last date for the receipt of Proposals.

## 6. Bidder's Eligibility Criteria

### 6.1 Eligibility Criteria of the Bidder

1. Bidders (OEM /Authorized Distributors/SI) in India are allowed to bid for the items as mentioned in the tender document. Manufacturer's authorization letter (MAL) from OEM(s) clearly indicating that the bidder is competent to sell & provide services for the items for this tender.
2. Bidder should have experience of at least 5 years in the field of Information Technology business/wired and wireless LAN, MAN, WAN/ CCTV. Joint venture or consortium are not permitted.



3. Last 3 years average turnover should not be less than 02 crore in each year & Overall 6 Crore for the financial year 2021-22, 2022-23 and 2023-2024 or 2020-21, 2021-22 and 2022-23
4. Bidder should submit the relevant experience documents of similar field in Central Govt. /State Govt./PSUs/ Govt Educational Institute/University/Govt Research Institutions in every items/ technology. They need to submit copies of the P.O"s, clearly stating the duration of contract, value, and scope.
  - One order of similar work above 45.0 Lakh on similar field within last 3 Years. Or
  - Two orders of similar work above 34.0 Lakh on similar field within last 3 Years Or
  - Three orders of similar work above 22.0 Lakh on similar field within last 3 Years
5. Bidder should have office at Bihar/ Jharkhand/West Bengal state with Service/Support Engineers posted at these locations.
6. Bidder should have to submit all bid specific OEM certificate (MAF letter) along with the technical bid.
7. Bidder should be ISO Certified.
8. Bidder must have dedicated/toll free telephone numbers for 24X7 service support.
9. Bidder should have to provide their escalation matrix at the time of bidding. The bidder has to confirm the availability of local engineer, to attend the call within 24 hours after receipt of the complaint.
10. The bidder must not be blacklisted by Central Govt. /State Govt./PSUs/Other Govt. Agency/ Govt Educational Institute/University.
11. Any Consortium bidding should not acceptable.

## 6.2 Eligibility Criteria of the OEM

Mandatory Eligibility Criteria for Active Components OEM	
No.	Eligibility Criteria
1	OEMs of proposed equipment/components should have their own registered office in India as per the prevalent/ applicable laws of India and be in operation in India for last five years as on the bid issuance date.
2	<b>Active Component's OEM</b> offered must be in steady profitable business in India for more than at-least 5 years.
3	Registered offices by way of Joint ventures, Franchise, agency, distribution partners will not consider.
4	OEM should have quality standard certifications like ISO 9001-2008/ISO 14001/ ISO:27001, wherever applicable to ensure only quality OEM participation, as on date of tender release
5	Proposed OEM for any technology should not have filed for bankruptcy.
6	The proposed OEM should not have been blacklisted by any State / Central Government Department or Central /State PSUs
7	OEM should have minimum 1 spare depots in India for hardware replacement and dedicated TAC Support center in India.
8	The quoted Active items (Network Switches and their module, and Access Points) should be from a single OEM for better compatibility.

Mandatory Eligibility Criteria for Passive Components OEM:	
No.	Eligibility Criteria
1	<b>Passive Component's OEM</b> offered must be in steady profitable business in India for more than at-least 6 years.
2	OEM should have members participating in Telecommunications Industry Association (TIA) committee. Membership should be available for validation at <a href="http://www.tiaonline.org">www.tiaonline.org</a>
3	OEM should have ISO 9001:2015 and ISO 14001 certified manufacturing facility in India.
4	All offered components must be ROHS compliant. ROHS compliance shall be mentioned in datasheets.
5	The quoted passive items (Fiber, LIU and UTP components) should be from a single OEM for better compatibility.

## 7. Earnest Money Deposit (EMD) Details

7.1 . EMD of Rs. 113448/- (Rupees One Lakhs Thirteen Thousand Four Hundred and Forty Eight only) to be deposited through online mode only (RTGS/NEFT). The bank details are given below:

**Account Name: - IIM BODHGAYA**

**Account No.-35289661031**

**Bank Name: - State Bank of India**

**Branch: - Bodh Gaya**

**IFS Code:-SBIN0002739**

**The proof of payment must be enclosed with Technical Bid.**

7.2 The firms registered with Directorate General of Supply and Disposal (DGS&D)/ National Small Industries Corporation (NSIC)/ Ministry of Micro, Small and Medium Enterprises (MSMEs) Startups for these services are exempted from EMD. However, they have to enclose valid self-attested registration certificate(s) with their tender to this effect. (Applicable only for OEM's Traders are not eligible for EMD exemption as MSME)

7.3 EMD of all unsuccessful Consultancy Firm/ Consultant will be returned after finalization of the tender. EMD of the successful Consultancy Firm/ Consultant will be returned only after receipt of Security Deposit towards Performance Guarantee.

7.4 The amount of EMD is liable to be forfeited if the tenderer withdraws from the offer after submission of the tender or after the acceptance of the offer and fails to remit the Performance Bank Guarantee.

7.5 No interest will be paid on the EMD / Performance Guarantee.

## 8. Evaluation Criteria

### 8.1 Pre-qualification criteria:

SL. No.	Checklist Item Description	Criteria	Proof/Documents Required
1	Bidder company Registration	The Company should be registered under Companies Act, 1956 since last Five years.	Valid copy of Certificate of incorporation and Registration Certificates
2	Incorporation Certificate	Bidder should have experience of at least 5 years (as on end date of tender) in the field of Information Technology business /LAN, MAN, WAN, CCTV.	Valid copy of Certificate of incorporation and Registration Certificates. Bidders must submit order copies against the proof of this.
3	Bidder's Average Annual Turnover	Last any 3 years (FY 2023-24, 2022-23, 2021-22, 2020-21) turnover should not be less than 02 crore in each year & Overall Rs 6Crore for provisioning of IT Services.	CA Certificate with CA's Registration Number/ Seal for annual turnover. Copy of the audited profit and loss account of the company-showing turnover of the company during last three years.
4	Bidder's Net worth	The net worth of the Bidder should be Positive in last two financial year.	CA Certificate with CA's Registration Number/ Seal for Net worth. Copy of the audited profit and loss account of the company-showing net worth of the company for last two years.
5	Non-Blacklisting	The bidder shall not be under a Declaration of Ineligibility for corrupt or fraudulent practices or blacklisted with any of the Central Govt. /State Govt./PSUs/ Other Govt. Agency/ Govt Educational Institute/University.	Self-Declaration in this regard by the authorized signatory.
6	PAN	Registration with Income Tax Authorities.	Copy of PAN Card.
7	GST	Registered with the GST	Copy of GST Registration Certification.
8	Bidder Experience	As mentioned in Eligibility Criteria of the Bidder	Copy of the workorder / P.O's, clearly stating the duration of contract, value, and scope.
9	Proposed schematic diagram	Bidder has to do passive Survey and submit a proposed schematic diagram along with the bid	Diagram of proposed work need to enclose with bid.
10	Authorization letter	Bidder should be an OEM/Authorized Partner of OEMs (for WiFi, Active & Passive components, NVR& CCTV). Tender Specific Authorization Letter from OEMs must be submitted.	Authorization letter from OEMs.
11	Signed Tender Document	Copy of the Tender document duly signed & stamped on all pages	Signed and stamped Tender document (All pages)

12	Complete Acceptance of Technical Specifications (Compliance sheet) as per Tender documents	As per Technical Specifications (Compliance sheet). If any of the specification/s is different, then mention in the remark column. The competent committee will decide the acceptance or rejection.	Compliance statement on OEM's letterhead with seal-stamp to be furnished
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Copy of the document listed above should be attested by an authorized signatory. In case of calculation of experience and any other such requirements the last date of Tender submission will be considered.

## 8.2 Technical Bid Evaluations Criteria

After Checking of submitted "Mandatory Papers", only eligible bidder will be enlisted for next steps/ Evaluation System. Next Criteria is Technical Score Sheet, which are: -

SL.	Evaluation Criteria	Max Marks	Mark Distribution	Mark Obtained by bidder
1	Bidder's Operational Criteria in the Information Technology business / IT System Integration in India ( <b>establishment certificate / registration certificate to be furnished</b> )	20	5 Years: 10 Marks, >5 Years: 10 + completed number above 5 years.	
2.	<b>Financial Strength</b> (Bidder's Average Annual Turnover of last any 3 year (2020-21,2021-22,2022-23 and 2023-24) CA certified statement to be submitting along with bid	20	Average Turnover >= 02 crore and < 5 Crores: <b>10 Marks</b> , Average Turnover >=5 Crores and <10 Crores = <b>15 Marks</b> , Average Turnover >=10 Crores = <b>20 Marks</b>	
3	<b>Project Experience:</b> Wired and Wireless LAN, MAN, WAN, CCTV implementation experience in Central Govt. /State Govt./PSUs/ Govt Educational Institute/Govt University/Govt Research Institutions since 1 <sup>st</sup> April 2018 ( <b>PO with Completion Certificate to be furnish</b> )	35	Each Single Project worth >=25 Lakh and <50 Lakh: 2 Points Each single Project worth >=50 Lakh and <1 Crore: 4 Points, Each single Project worth >=1 crore and <2 crore: 8 Points, Each single Project worth >=2crore :15 points, Maximum 35 marks	
4	Wired and Wireless LAN, MAN, WAN implementation experience in IITs/IIMs/AIIMSs/NITs and other Institute of National Importance/ Government research institutions since 1 <sup>st</sup> April 2018 ( <b>PO with Completion Certificate to furnish</b> )	25	Each single Project worth >=25 Lakh and < 50 Lakh: 4 points, Each Single Project worth >50 Lakh and <1.00 crore: 6 points, >=1.0 crore: 10 points, Maximum 25 marks	

**The decision of the tender committee is final and binding on all the bidders.**

The Technical Evaluation Committee may call the responsive bidders for discussion or presentation to facilitate and assess their understanding of the scope of work and its execution. However, the committee shall have sole discretion to call for discussion/presentation.

### **8.3 Financial Bid Evaluations:**

All the bidders who will achieve **60** points or more points in the technical evaluation would be eligible for the next stage, i.e., Financial Bid opening. In case, at least 3 bidders not scoring 60 or more points, then cut off marks may go down up to 50 points. Bidders who score below 60 marks shall not be eligible for the next stage of bid processing.

Technically qualified/ successful bidder(s)/Tenderer(s) shall be called for opening of the Financial Proposal(s). The Financial Proposals will be opened in the presence (who wish to attend) of the Bidders at the time and venue indicated by the institute accordingly. The technically Eligible/Successful Bidder(s)/Tenderer(s) or their authorized representatives may be allowed to take part in the Financial Proposal(s) opening. The Institute will communicate the date and time of opening of the financial bids through portal.

### **8.4. Award of Contract:**

Bidder quoting the lowest price (L1) will be declared as the successful bidder. The lowest evaluated bid price will be the sum of the quoted cost of Material and Service (inclusive of all applicable taxes).

The Institute shall consider placement of order for the tender to the bidder who has been found technically, commercially, and financially acceptable. The Institute reserves the right to counteroffer price(s) against price(s) quoted by any bidder.

Any figures (price) if left blank by the bidder in financial form will be taken "0" (zero) by IIMBG. The successful bidder should execute an agreement in the non-judicial stamp of Rs. 1000/- incorporating the tender terms and conditions. In the event of the bidder backing out before the actual award of execution of the agreement, IIMBG will have the right to forfeit the earnest money deposit.

## **9. Terms & Conditions of Contract**

### **9.1 Arbitration:**

All disputes arising out of this contract shall be referred to the Director, IIMBG. whose decision shall be final and binding on both parties.

### **9.2 Jurisdiction of Dispute:**

It is agreed and declared by and between the parties hereto that so far it concerns the jurisdiction of any court in enforcing any of the rights or remedies of the parties hereto against each other or one another, a court in the city of Gaya alone shall have jurisdiction to the exclusion of all other courts in any place in the Union of India so that none of the parties hereto shall be entitled to any proceedings whatsoever in respect of any matters touching or relating to or in connection with or arising under agreement and the terms and conditions thereof in any court except the court or courts having jurisdiction in the city of Gaya.

### **9.3 Special terms and Condition:**

In view of office memorandum F.No.6/18/2019-PPD dated 23rd July 2020 issued by Public Procurement Division, Department of Expenditure, Ministry of Finance, all tenderers, vendors or service provider should comply to the restrictions under rule 144 (xi) of General Financial Rules (GFRs). If any of the bidder fail to comply then their bids shall be rejected. Bidders to provide

certificate regarding compliance as per Annex III of the above order.

The Public Procurement (Preference to Make in India) Order 2017 No. P-45021/2/2017-PP (BE-II) dated 04 Jun 2020. A Self-Declaration Certificate regarding "Class-I/ Class-II/ Non-local suppliers" with %age of MII content to be



submitted by the bidder.

#### **9.4 Right to Accept Any Offer and to Reject Any or All Offers:**

IIMBG, reserves the right to accept or reject any tender offer, and to annul the tendering process and reject all tenders at any time prior to award of contract, without thereby incurring any liability to the affected vendor(s) or any obligation to inform the affected vendor(s) of the grounds for such action.

#### **9.5 Clarification of Offers:**

To assist in the scrutiny, evaluation and comparison of offers, IIMBG may, at its discretion, ask (by email) some or all vendors for clarifications with regards to their offer. The request for such clarifications and the response will necessarily be in writing (by email). Failure of a Bidder to submit additional information or clarification as sought by IIMBG within the prescribed period will be considered as a non-compliance and the proposal may get evaluated based on the limited information furnished along with the bid proposal.

#### **9.6 Right to vary the scope of the work at the time of Award:**

IIMBG reserves its right to make changes to the scope of the work at the time of execution of the resultant Agreement. If any such change causes an increase or decrease in the cost of, or the time required for the IIMBG performance of any part of the work under the resultant Agreement, whether changed or not changed by the order, an equitable adjustment (if required) shall be made in the Contract Value or time schedule, or both, and the Agreement shall accordingly be amended. Any claims by the IIMBG for adjustment under this Clause must be asserted within thirty (30) days from the date of the receipt of IIMBG's change order.

#### **9.7 Force Majeure**

The Vendor shall not be liable for forfeiture of its performance security, liquidated damages, or termination for default if and to the extent that its delay in performance or other failure to perform its obligations under the Contract is the result of an event of Force Majeure.

For purposes of this clause, —Force Majeure means an event beyond the control of the vendor and not involving the supplier's fault or negligence and not foreseeable. Such events may include, but are not restricted to, acts of the IIMBG in its sovereign capacity, wars or revolutions, fires, floods, epidemics, quarantine restrictions and freight embargoes.

If a Force Majeure situation arises, the Vendor shall promptly notify the IIMBG in writing of such condition within 3 days of such situation and the cause thereof. Unless otherwise directed by the IIMBG in writing, the vendor shall continue to perform its obligations under the contract as far as is reasonably practical, and shall seek all reasonable alternative means for performance not prevented by the Force Majeure event

#### **9.8 Intellectual Property Rights**

All intellectual property rights for the work performed under this Tender, as far as data is concerned, shall lie with IIMBG. This clause is applicable to all data in any form or format designed and developed for IIMBG under this Tender by the vendor. The vendor shall not use such data for any other purpose during and after the term of contract.

### **10. Payment Terms**

1. The total project cost will consist of two parts
  - 1.1 Equipment supplies part (Supply).
  - 1.2 Installation, testing, commissioning, documentation, training and warranty services part (referred to as "Services" in short).
2. Payment Terms: - Payment will be released as follows:
  - 2.1 All the costing and transaction will be in INR currency. Payment to the extent of 80% only of the total order value of the supply part will be released after delivery of all such items on site at IIM Bodh Gaya, followed by inspection and auditing by the IIMBG officials and submission of report by the official regarding delivery of correct items. Rest of the amount (20% of the order value of Supply) will be paid only after completion of installation, commissioning, Acceptance Test Plan (ATP) and acceptance by the IIMBG, followed by submission of a report by the concern regarding satisfactory completion of the work.



Payments will be released.

- 2.2 Services part of the project is payable in Indian Rupees only after completion of installation, commissioning, Acceptance Test Plan (ATP) and acceptance by the IIMBG.
- 2.3 At the time of installation, additional requirement of Supply or Services, if any, over and above the quantity mentioned in the attached BOQ must be supported at the same rate as originally quoted.
- 2.4 At the time of installation, if additional or less quantity of various items of Supply or Services are needed, then payment will be released for actual Supply and Services only. Final payment will be adjusted accordingly.
- 2.5 Payment will be released subject to deduction of TDS as per rules/laws prevalent at that time.

### 3. Performance Security / Performance Bank Guarantee (PBG):

The successful bidder must submit Performance Security / Performance Bank Guarantee (PBG) within two weeks of the issue date of the order, failing which order may be cancelled. The PBG will be 3% of the total order value. The performance security must be valid for three years and six months from the date of acceptance of successful installation by IIMBG. Performance security may be furnished in the form of Bank Guarantee issued by a scheduled commercial bank in India (preferably nationalized bank) in favour of "IIM BODHGAYA" or payment through RTGS / NEFT in the following bank details:

**Account Name: - IIM BODHGAYA**  
**Account No.-35289661031**  
**Bank Name: - State Bank of India**  
**Branch: - Bodh Gaya**  
**IFS Code:-SBIN002739**

No interest will be payable by IIMBG on the Performance Security deposited. The Earnest Money Deposit (EMD) of the successful bidder shall be returned on receipt of Performance Security (Performance Bank Guarantee / PBG). If the successful bidder fails to furnish as per terms and conditions of the order, the performance security or fails to deliver/provide the item/installation/service, within the stipulated period, the EMD shall be liable to be forfeited. The Performance Security will be forfeited and credited to IIMBG account in the event of a breach of contract by the successful bidder. An undertaking to this effect must be submitted by the bidder. If there is delay in supply and installation of wireless LAN Access, the bidder may extend the validity of PBG.

## 11. Service Level Agreement (SLA) And Warranty

### 1. Pre-implementation SLAs:

If the Successful bidder fails to complete the execution of works or any section by the time for completion, within the relevant time prescribed, then the Successful bidder shall pay liquidated damages to IIMBG at the rate of the 0.5 % of contract value for per week of delay or part thereof subject to maximum of 10% of the contract value. IIMBG may, without prejudice to any other method of recovery, deduct the amount of such damages from any monies due or to become due to the Successful bidder. The payment or deduction of such damages shall not relieve the Successful bidder from his obligation to complete the Works, or from any other of his obligations and liabilities under the contract.

### 2. Post-implementation SLAs

- i. In the event of failure of any of the sub-systems or components of the proposed solution, the bidder must ensure that defects are rectified within 24 hours, or the equipment is replaced with necessary configuration free of cost within 48 hours from the time it was reported.
- ii. The bidder must maintain a suitable stock of necessary spare equipment during the contract period.

- iii. The bidder must provide 5 years' warranty for all the hardware and software components of the solution, from the date on which the solution is accepted, as per the Acceptance Test Plan. During the warranty period, the bidder must undertake comprehensive maintenance of all the equipment, hardware components, support and accessories. The bidder must also perform periodic software upgrades, updates, and patches, as well as preventive maintenance.
- iv. Collecting of faulty hardware from the site and provisioning the replacement hardware during the contract period (warranty) on the site shall be the responsibility of the bidder.
- v. IIMBG reserves the right to invoke the Performance Bank Guarantee submitted by bidder in case: -
  - a. Supplied equipment, hardware & software components fail to achieve the performance as stipulated in this document.
  - b. The bidder fails to provide satisfactory service in the scheduled time frame, during the contract period, as stipulated in this document.
- vi. Penalties can impose for delay in Fault resolution as mentioned below:

Sl. No	Fault Resolution-SLA	Time allocated	Penalty (in % Percentage)
01	Call Resolution (in case of non-hardware failure)	< 48 hrs	0%
		>48 hrs. <72 hrs.	1% of the unit hardware cost
		>3 Days < 5 Days	2% of the unit hardware cost
		>5 Days < 7 Days	5% of the unit hardware cost
		>7 Days	10% of the unit hardware cost
02	Hardware repair/replacement	RMA= T	After the delivery of replacement of faulty product by OEM
		< T+72 hrs	0%
		> T+3 Days <T+ 5 Days	2% of the unit hardware cost
		>T+5 Days <T+7 Days	5% of the unit hardware cost
		> 7 Days	10 % of the unit hardware cost

The maximum penalty shall not be more than 10% of the Contract value during the entire Contract period.

- For each service call (in case of non-hardware failure), a separate penalty shall be calculated.
- A separate penalty shall be calculated for each hardware failure.
- Penalties shall not be levied on the successful bidder in case of a Force Majeure event affecting the SLA which is beyond the control of the successful bidder.

## 12. Termination of Agreement: -

1. After giving opportunity of being heard to the successful Bidder, Institute may terminate/cancel the agreement on the following grounds: -
  - i. Breach of any or all terms and conditions of agreement.
  - ii. Non-performance or unsatisfactory performance of work executed by the successful Bidder.
  - iii. At any time, document or information furnished with tender is found forged or fabricated during the subsistence of the contract.
2. Notwithstanding to any provision of the contract, if the contract is terminated by the Institute, and the Institute has to award the work to other party on higher rate, the successful bidder has to compensate the difference of cost to the Institute.

### 13. Acceptance Criteria For The Proposed Solution (Applicable Only During And Post Implementation)

1. Coverage and Capacity Planning
  - 1.1. On-site site survey by the bidder is required to plan LAN and Wi-Fi and CCTV deployment in each floor of each building.
  - 1.2. The bidder should provide the location of LAN and Access Points and CCTV on the floor plan for all buildings.
2. Physical Installation:
  - 2.1. Inspect installation of network racks, OFC, UPS, power cables, UTP cables, CCTV and network switches.
  - 2.2. Configuration check on controller including the policies.
  - 2.3. Test the physical mounting of each access point and CCTVs.
  - 2.4. Test each access point connectivity to the wireless controller.
  - 2.5. The installed CCTV must be connected to the NVS, and recording should be made available.
3. Wired Network Test
  - 3.1. Perform OTDR/RFC 2544 tests for all OFC links and submit reports.
  - 3.2. Perform end-to-end connectivity test of all UTP links and submit reports.
  - 3.3. Check reachability and latency test on all network switches and submit reports.
4. Wi-Fi Controller Configuration Test:
  - 4.1. The access points should be connected to the WLC.
  - 4.2. The details of Access Points need to be verified from the WLC.
5. Commissioning Test:
  - 5.1. Test for all access points connectivity to the wireless controller.
  - 5.2. Test and verify authorized access points inventory and authorized client inventory.
  - 5.3. Verify external access points list and verify uncategorized / unauthorized client list.
  - 5.4. Verify if all authorized wireless devices are tagged to right location.
  - 5.5. Test for authorized client connection to authorized access point and respective SSID as per the set authentication policy.
  - 5.6. Test for guest client connection to authorized access points and respective SSID as per the set authentication policy.
  - 5.7. Test if the access points are operational after shutting down the controller.
  - 5.8. Test if automatic rogue access points prevention is working on all types of rogue APs.
  - 5.9. Test if unauthorized client association to authorized access point is automatically prevented.
  - 5.10. Test if automatic client Mis-association prevention is working.
  - 5.11. Test if ad-hoc networks are detected and automatically prevented.
  - 5.12. Test if MAC-spoofing is detected.
  - 5.13. Test if automatic prevention of Honeypot (with Multipot) is functional.
  - 5.14. Test is Denial of Service (DoS) attack is detected.
  - 5.15. Testing of deployment of policies, firmware updating remotely through the controller.
  - 5.16. Testing WIPS functionality across the subnet.
  - 5.17. The entire testing exercise should be completed in the stipulated time.
  - 5.18. CCTV and NVR need to be configured as per the submitted and approved diagram of IIM Bodh Gaya.
6. Documentation and Reports:
  - 6.1. Documentation of the entire project, along with testing reports, must be submitted to IIMBG.
  - 6.2. Documentation must include a complete network diagram which clearly depicts the switch management IP Address, switch location, AP location, and switch port to each AP, CCTV etc.
  - 6.3. Documentation must include complete configuration in a step-by-step manner.

7. Solution fine-tuning and handover to the operations team of IIMBG.
  - 7.1. Fine tune Wi-Fi Access policies and security policies and NVR setup.
  - 7.2. Rebuild authorized device inventory and remediate mis-configured APs.
  - 7.3. Fine-tune events, alerts, reports, and other parameters of wifi and CCTV device. .

#### 14. Documents Need to be Submitted With Technical Bid

S	Details Documents need to submit along with BID documents	
1	EMD / E-receipt as a proof of EMD submission: <i>Annexure - I</i>	
2	Copy of PAN	
3	Copy of GST	
4	Copy of Trade License	
5	Establishment Certificate / registration certificate to furnish	
6	Copy of Last 3 Years Balance Sheet (Audited Balance sheet to furnish) : <i>Annexure – II</i>	
7	Copy of ISO Certificate(s)	
8	Copy of Bank Details: <i>Annexure – III</i>	
9	Certificate of registered office at Bihar/ Jharkhand and West Bengal state: <i>Annexure - IV</i>	
10.	Declaration of Non-Blacklist at Central Govt. /State Govt./PSUs/Other Govt. Agency/ Govt Educational Institute/University. : <i>Annexure - V</i>	
11.	Credential (As per eligibility criteria)	
12.	Escalation Matrix document.	
13.	Manufacturing Authorization Certificate (As applicable): <i>Annexure – VI</i>	
14.	Declaration of experience (PO with Completion Certificate to furnish) : <i>Annexure – VII</i>	
15.	Working experience in IITs/IIMs/AIIMs/NITs/ Government research institutions/Institute of National Importance (not below Rs 20 Lakh) (PO with Completion Certificate to furnish)	
16	OEM declarations (As per OEM eligibility)	
17	Project Execution Plan & Mitigation Plan	
18	Service Level Agreement	
19	Schematic Diagram of the entire system (Based on site survey, Experience & BOQ) <ol style="list-style-type: none"> <li>1) Tentative Structured Networking System</li> <li>2) Tentative Campus FO Backbone System</li> <li>3) Tentative Wi-Fi and CCTV installation</li> <li>4) SLD of the Power Management System</li> </ol>	
20	Seal & Sign at Tender Bid (As per Instructions)	

21	Technical Compliance Sheet (Compliance statement on OEM's letterhead with seal-stamp to furnish)	
22.	Data Sheet of all products	
23.	<i>Annexure – VIII ,IX, X</i>	
24.	Details Impressed Materials List (Bidder Choice for proper SLD)	
25.	All other documents, as required in terms of the tender, to claim eligibility.	

Note: The Institute may ask the bidder to submit any other certificate/document as it deems fit.

### 15. Documents Need to be Submitted with Financial Bid

COVER – 2 FINANCIAL BIDS (PRICE-BID)		
Sr. No.	Types	Content
1.	Financial Bid	Price Bid in given format as per <i>Complete BOQ &amp; BOM (Price Bid)</i>

The prices once accepted by the Institute shall remain valid till the successful execution of the order and till supplies is fully affected and accepted or 06 months from the date of acceptance of tender whichever is later. The Institute shall not entertain any increase in the rates during the period. However, in the event there is a reduction or increase in Government taxes during the period of execution of the order, the rates shall be suitably adjusted with effect from the date notifying the said reduction or increase in the Government taxes, if any.

## 16. Bill of Materials & Service Part

BOQ of Materials Part Supply Items			
S.N.	Descriptions	Qty	Unit
1	Wireless Access Points (Indoor)	18	NOS
2	Wireless Access Points (Outdoor)	5	NOS
3	Layer 2 switch - 24 Port 10/100/1000 Base T PoE+ with 4 X 10 SFP Port	3	NOS
4	10G SFP Transceiver for Single Mode OFC	6	NOS
5	Outdoor 5MP IP Bullet Fixed Camera with IR	40	NOS
6	64 Channel Network Video Recorder	1	NOS
7	Surveillance Hard Disk 6 TB	6	NOS
8	Network Rack -12U With Accessories	1	NOS
9	UTP Cable- CAT 6	4	Box
10	24 Port LIU Loaded With LC Pigtail, Coupler Etc.	3	NOS
11	UTP Patch Cords - CAT6 -1M	50	NOS
12	Cat6 UTP Information Outlet Set	24	NOS
13	6 Core Outdoor Armored single mode optical fiber cable	250	Mtrs.
14	LC-LC Fiber Patch Cord- 3M	10	NOS
15	3kVA Online UPS + inbuilt battery with Power dist. Wiring.	1	NOS
16	Camera Mounting Box	40	NOS
17	PoE Injector 802.3at	5	Nos
18	PDU (For Server /Network Rack) 6 Socket 5/15AMP	4	Nos
19	Rodent Repellent (Area coverage per system: minimum 300 Sq., Operating Frequency: Above 20KHz;	40	Nos
20	RJ 45 connector	2	Box
21	25MM PVC Conduit	75	Nos.
<b>BOQ of Service Part</b>			
1	Installation of Switch	3	NOS
2	Installation of Camera	40	NOS
3	Installation of Access Point	23	NOS
4	Laying of Cat6 Cable	1220	Meter
5	Termination and testing of UTP Patch Panel	2	Nos
6	Termination and testing of UTP Information Outlet	24	NOS



7	Laying of OFC Cable in (Overhead)	250	Mtrs.
8	Installation and Termination of LIU	3	NOS
9	Installation commissioning & dressing of wall Mount Racks	1	NOS
10	<p>Installation &amp; Commissioning of Online UPS including power points terminations and electric cable laying from nearby row power source to UPS end, Mounting and connectivity o 16AMP socket &amp; Switch with MCB box at end and 5/15 AMP socket &amp; switch with MCB at each rack points (All the cabling works for power connectivity of each wall mount racks should be included). Required items like Electrical cables, MCCB, PVC Box, Switch &amp; Socket etc. shall be supplied by the bidder.</p> <p>The Bidder shall be responsible for providing all materials, equipment, installation/maintenance tools, and services, specified or otherwise, which are required to fulfill the intent of ensuring operation-ability/ maintainability and reliability of total materials covered.</p>	1	Job
11	SITC of the overall project, including documentation and required training.	1	Job

## 17. Technical Specifications

### 1. Wireless Access Points (Indoor)

1. Indoor Access Point		
Sr No	Required Specification	Compliance (Yes / No)
<b>The indoor Access Point must be compatible with the existing Wireless Controller (CISCO-C9800-L-C-K)</b>		
1	Access Point shall support 2x2 MIMO on both radio interfaces	
2	Access Point shall be able to powered up using PoE (.af)	
3	Access Point shall support assurance, packet capture, RF sensing capabilities	
4	Access Point shall support application visibility and control	
5	Access Point shall support encrypted traffic visibility	
6	Access Point should have Bluetooth5 radio to support use cases of location, asset tracking and analytics.	
7	Access Point shall ship with metal-based mounting bracket for durability and reliability	
8	Access Point shall support Console port that uses Standard Port (RJ-45) type connection	
9	Access Point should have 1x 10/100/1000 Base-T uplink port.	
10	Must have atleast 4 dBi Antenna gain on each radio	
11	Must Support data rate upto 1.4 gbps.	
12	Must support minimum of 20 dbm of transmit power in both 2.4Ghz and 5Ghz radios. And should follow the local regulatory Norms.	
13	Must support AP enforced load-balance between 2.4Ghz and 5Ghz band.	
14	Must incorporate radio resource management for power, channel and performance optimization	
15	Must have -97 dB or better Receiver Sensitivity.	
16	Must support Proactive Key Caching and/or other methods for Fast Secure Roaming.	
17	Must support Management Frame Protection.	
18	Should support locally-significant certificates on the APs using a Public Key Infrastructure (PKI).	
19	Must support the ability to serve clients and monitor the RF environment concurrently.	
20	Same model AP that serves clients must be able to be dedicated to monitoring the RF environment.	
21	Must be plenum-rated (UL2043).	
22	Must support 16 WLANs per AP for SSID deployment flexibility.	
23	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.	
24	Must support telnet and/or SSH login to APs directly for troubleshooting flexibility.	
25	802.11e and WMM	
26	Must support QoS and Video Call Admission Control capabilities.	

## 2. Wireless Access Points (Outdoor)

2. Outdoor Access Point		
Sr No	Required Specification	Compliance (Yes / No)
<b>The outdoor Access Point must be compatible with the existing Wireless Controller (CISCO-C9800-L-C-K)</b>		
1	Access Point shall support 4x4 MIMO on both radio interfaces and MU-MIMO technology	
2	Access Point shall be able to support Multigigabit Ethernet, support up to 2.5 Gbps PHY speed using single Cat5e or above(Cat6, Cat6a, Cat7) cable	
3	Access Point shall be able to powered up using PoE (.af)	
4	Access Point shall have dedicated radio/chipset for spectrum monitoring capabilities, WIPS and off channel RRM without compromising and using the client serving radios.	
5	Access Point should have Bluetooth5 radio to support use cases of location, asset tracking and analytics.	
6	Access Point should have 1x 100, 1000, 2500 Multigigabit Ethernet (RJ-45) – IEEE 802.3bz uplink, 1x Gigabit Ethernet SFP uplink and 1x10/100/1000 Base T downlink port.	
7	AP must have standard RJ-45 console port	
8	Must have atleast 6 dBi omni direction Antenna on each radios	
9	Must Support data rate upto 5gbps.	
10	Must support minimum of 30 dbm of transmit power in both 2.4Ghz and 5Ghz radios. And should follow the local regulatory Norms.	
11	Must support AP enforced load-balance between 2.4Ghz and 5Ghz band.	
12	Must incorporate radio resource management for power, channel and performance optimization	
13	Must have -97 dB or better Receiver Sensitivity.	
14	Must support Proactive Key Caching and/or other methods for Fast Secure Roaming.	
15	Must support Management Frame Protection.	
16	Should support locally-significant certificates on the APs using a Public Key Infrastructure (PKI).	
17	Must support the ability to serve clients and monitor the RF environment concurrently.	
18	Same model AP that serves clients must be able to be dedicated to monitoring the RF environment.	
19	Must support 16 WLANs per AP for SSID deployment flexibility.	
20	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.	

21	Must support telnet and/or SSH login to APs directly for troubleshooting flexibility.	
22	Supports 802.11e and WMM	
23	Must support QoS and Video Call Admission Control capabilities.	
24	Access point should be wifi 6 certified	
25	The Access point shall be IP67 and NEMA rated	
26	The Access point shall support operating temperature of -40 to 65°C	
27	The equipment shall support up to 100 MPH sustained winds & 165 MPH wind gusts.	

### 3. Layer 2 switch - 24 Port 10/100/1000 Base T PoE+ with 4 X 10 SFP Port

3. Layer 2 switch - 24 Port 10/100/1000 Base T PoE+ with 4 X 10 SFP Port		
Sr No	Required Specification	Compliance (Yes / No)
1.1	<b>General Features :</b>	
1.1.1	Switch should be 1U and rack mountable in standard 19" rack.	
1.1.2	Switch should support internal field replaceable unit redundant power supply from day 1.	
1.1.3	Switch should have minimum 2 GB RAM and 2 GB Flash.	
1.1.4	Switch should have dedicated slot for modular stacking, in addition to asked uplink ports. Should support for minimum 40 Gbps of stacking throughput with 8 switch in single stack.	
1.2	<b>Performance :</b>	
1.2.1	Switch shall have minimum 128 Gbps of switching fabric and 95 Mpps of forwarding rate.	
1.2.2	Switch shall have minimum 16K MAC Addresses and 250 active VLAN.	
1.2.3	Should support minimum 11K IPv4 routes or more	
1.2.4	Switch shall have 1K or more multicast routes.	
1.2.5	Switch should support atleast 16K flow entries	
1.2.6	Switch should support 128 or more STP Instances.	
1.2.7	Switch should have 6MB or more packet buffer.	
1.3	<b>Functionality :</b>	
1.3.1	Switch should support IEEE Standards of Ethernet: IEEE 802.1D, 802.1s, 802.1w, 802.1x, 802.3ad, 802.3x, 802.1p, 802.1Q, 802.3, 802.3u, 802.3ab, 802.3z.	
1.3.2	Switch must have functionality like static routing, RIP, PIM, OSPF, VRRP, PBR and QoS features from Day1	
1.3.3	Switch should support network segmentation that overcomes the limitation of VLANs using VXLAN and VRFs.	
1.3.4	Switch shall have 802.1p class of service, marking, classification, policing and shaping and eight egress queues.	
1.3.5	Switch should support management features like SSHv2, SNMPv2c, SNMPv3, NTP, RADIUS and TACACS+ .	

1.3.6	Switch should support IPv6 Binding Integrity Guard, IPv6 Snooping, IPv6 RA Guard, IPv6 DHCP Guard, IPv6 Neighbor Discovery Inspection and IPv6 Source Guard.	
1.3.7	Switch should support 802.1x authentication and accounting, IPv4 and IPv6 ACLs and Dynamic VLAN assignment and MACSec-128 on hardware for all ports.	
1.3.8	Switch must have the capabilities to enable automatic configuration of switch ports as devices connect to the switch for the device type.	
1.3.9	During system boots, the system's software signatures should be checked for integrity. System should capable to understand that system OS are authentic and unmodified, it should have cryptographically signed images to provide assurance that the firmware & BIOS are authentic.	
1.4	<b>Interfaces</b>	
1.4.1	Switch shall have 24 nos. 10/100/1000 Base-T PoE ports and additional 4 nos. SFP+ uplinks ports.	
1.4.2	All 24 port should support PoE (802.3af) and PoE+ (802.3at) with a PoE power budget of 370 W.	
1.5	<b>Certification:</b>	
1.5.1	Switch shall conform to UL 60950 or IEC 60950 or CSA 60950 or EN 60950 Standards for Safety requirements of Information Technology Equipment.	
1.5.2	Switch shall conform to EN 55022 Class A/B or CISPR22 Class A/B or CE Class A/B or FCC Class A/B Standards for EMC (Electro Magnetic Compatibility) requirements.	
1.5.3	Switch / Switch's Operating System should be tested for EAL 2/NDPP or above under Common Criteria Certification.	
1.5.4	OEM should be listed in Gartner Leader Quadrant for Wired and Wireless LAN Infrastructure from last 3 years before releasing this RFP.	

#### 4. 10G SFP Transceiver for Single Mode OFC

4. 10G SFP Transceiver for Single Mode OFC		
Sr No	Required Specification	Compliance (Yes / No)
1	The 10G Modules support a link length of 10 kilometers on standard Single-Mode Fiber (SMF), from the same OEM of the switch.	

#### 5. Outdoor 5MP IP Bullet Fixed Camera with IR

5. Bullet Camera			
S No.	Features	Specifications	Compliance (Yes/No)
1	Sensor	1/2.7" Progressive Scan CMOS	
2	Min. illumination	0.003Lux @ (F1.4, AGC ON), 0Lux with IR	
3	Electronic Shutter	1/3 s to 1/100, 000 s	
4	Lens	4mm	

5	IR Distance	40meter	
6	S/N ratio	≥52db	
7	WDR	up to 120dB	
8	Digital Zoom	16x- Standard zoom in all major OEM's	
9	Image Setting	Brightness, Contrast, Sharpness, Saturation, Chroma	
10	IVA	Intrusion Detection/ Region Entrance/Human Detection, Video Tampering, Motion Detection	
11	Trigger Method	Video trigger, Audio trigger	
12	Video Encode	H.264 (MPEG-4 Part 10/AVC) Baseline+ / Main Profile+ / High Profile+, H.265+ Encoding (OEM Should have HEVC Certificate and should be listed on HEVC website at the time of submitting bid)	
13		Main code stream: 5MP@1-20fps, 4MP@1-25fps, 2MP@1-25fps, Full Frame	
14	Encoding Feature	Sub-code stream: D1, VGA@1-25fps, Full Frame	
15		Third-code stream: CIF@1-25fps, Full Frame	
16	Max resolution	5MP (2593 x 1944)	
17	Video bit rate	(32kbps-8Mbps)	
18	Protocol	TCP/IP, IPv4, ICMP, HTTP, HTTPS, HTTP-Base64, HTTP- Digest, DHCP, DNS, DDNS, RTP, RTSP, RTCP, PPPoE, NTP, UPnP, SMTP, FTP, RTMP, IGMP, 802.1X, QoS, Multicast	
19	System Compatibility	ONVIF Profile S, G should be full member of ONVIF. OEM should give the declaration about full membership at the time of bidding.	
20	Security Mode	Authorized username and password, HTTPS with password, AES Encryption for password, RTSP Validation	
21	Privacy Mask	Support 4 area privacy mask	
22	General Function	User Authentication, Watermark, IP address filtering	
23	Max User Access	20	
24	Network Port	RJ45 10M,100M Network Self-Adjustable	
25	Camera and NVR	should be from the Same OEM.	
26	SD Card Support	up to 256GB	
27	Power Supply	PoE(802.3af)/DC 12V±10%	
28	Ingress Protection	IP67 Weatherproof Complaint	
29	Operating Conditions	-30 °C ~ 60 °C Humidity 95%	
30	Material	Metal	



## 6. 64 Channel Network Video Recorder

6. 64 Chenal NVR			
S No.	Features	Specifications	Compliance (Yes / No)
1	Operating System	Embedded LINUX with GUI	
2	Live view channels	64 Channel	
3	Recording/Live view/Playback resolution	Support resolution up to 32MP	
4	Network thoughput	Incoming bandwidth : 380Mbps Outgoing bandwidth : 256Mbps.	
5	VGA and HDMI output resolution	1 X HDMI: 4K (3840 x 2160), 2K (2560 x 1440), 1920 x 1080 2 X HDMI :4K (3840 x 2160), 2K (2560 x 1440), 1920 x 1080	
6		1 X VGA & 2 X VGA:1920 x 1080p	
7	Audio Input / output	Input x 1-ch, output x 2-ch	
8	Decoding format	H.265/H.265+/MPEG4	
9	Playback capability	16ch-@1080 (30fps) or better	
10	Network protocols	TCP/IP, DHCP, IPv4,IPv6, DNS, DDNS, NTP, SMTP, NFS, iSCSI, UPnP™, HTTP, HTTPS,ONVIF (S&G).	
11	SATA	8 X SATA interfaces with 16TB capacity and 1X eSATA interface.	
12	RAID feature	Should support RAID5,RAID6,RAID10.	
13	Analytics Features	Supports multiple analytics by camera and NVR as well eg: Motion detection, line crossing, intusion detection ,heatmap, ANPR ,face recognition,face analytics,face comparison, people counting.	
14	Network interface	2 X RJ-45 10/100/1000 Mbps self-adaptive Ethernet interface	
15	USB interface	2 X USB 2.0 and 2 X USB 3.0	
16	Serial interface	1 X RS485 (full duplex) , 1 X RS232	
17	Remote connection	128 connection	
18	Alarm interface	Input: 16channel and Ourput : 9channel.	
19	Power supply	100 to 240 VAC.	
20	Max. Power Consumption	≤ 30 W	
21	Working temperature	-10 to +55 °C	
22	Working humidity	10% to 90%	
23	Certification	ONVIF , CE,FCC and BIS.	

## 7. Surveillance Hard Disk 6 TB

Survillance HDD			
S No.	Features	Specifications	Compliance (Yes / No)
1	Type of HDD	Survillance	
2	Capacity	6Tb	
3	Interface	SATA	

### 8. Network Rack -12U With Accessories

8. 12U Rack		
Sr No	Required Specification	Compliance (Yes / No)
1	Racks manufactured out of steel sheet punched, formed, welded and Powder coated	
2	Rack should be from ISO 14001 ,27000 Certified Company & UL Listed	
3	Standard for Racks configuration will be welded frame with top cover considering cable entry.	
4	Rack should have Front tinted Glass door & vented side panel.	
5	Rack should have provision to mount on Wall.	
6	Rack should be 12U(1U = 44.45 mm) in Height.	
7	It should be minimum 550MM Wide & 500MM Deep	
8	Rack should Conform to DIN 41494 or Equivalent EIA /ISO / EN/CEA Standard	
9	Rack should have Adjustable mounting depth,	
10	Rack 4 No Adjustable, 19" verticals with Punched 10mm Square Hole and Universal 12.7mm-15.875mm-15.875mm alternating hole pattern offers greater mounting flexibility, maximizes usable mounting space.	
11	Rack should have Numbered U positions,	
12	Rack should have 100% assured compatibility with all equipment conforming to DIN 41494 (General industrial standard for equipment)	
13	Powder coated finish with seven Tanks pre-treatment process meeting IS	
14	Rack should have Two Hoz. Cable Manager.	
15	Rack should have one shelf.	
16	Rack should have Fan module Mount Provision on top Cover with minimum 1 no. 90 CFM Fan	
17	Rack should have Five Number Server /IT Rack mount power distribution unit, 1Ph, 230V, 16A, 50/60Hz, 2U standard with 6 X Indian Round Pin 5/15A, Inlet Plug type 16A Indian Round Pin, 16A MCB - PDU Rating 3.6KVA/Side feed-1.5Mt/ Black	
18	Rack should have provision for cable entry Exit from Both top & Bottom.	
19	Rack should have Packet of mounting hardware, Pack of 40.	

### 9. UTP Cable- CAT 6

9. UTP Cable- CAT 6		
Sr No	Required Specification	Compliance (Yes / No)
1	Type	Category 6 Unshielded Twisted Pair, 23 AWG solid Cable, 4 pair with separator, as per ANSI/TIA 568.2-D & ISO/IEC 11801
2	Insulation	Polyethylene or Polyolefin
3	Jacket	LSZH jacket must complying to:
		Fire rating IEC60332-3-22
		Acid gas IEC 60754-2
		Smoke density IEC 61034-2

4	Performance reference	The horizontal cable shall provide linkage to publicly accessible factory test reports performed on that cable box. The report must include performance to all parameters IL, NEXT, Return Loss, PSNEXT, ACR etc.	
5	Cable weight	Shall not be less than 25lb/kft	
6	Cable Outer Diameter	5.9 – 6.1 mm	
7	Electrical parameters:		
7.1	Operating voltage rating	80 V	
7.2	Impedance	100 Ohms + / - 15 ohms	
7.3	Dielectric Strength, minimum	1500 Vac; 2500 Vdc	
7.4	Mutual Capacitance	5.6 NF MAX /100 Mtr.	
7.5	DC Resistance, Max.	7.61 ohms/100 m	
7.6	DC resistance unbalance	5% max.	
7.7	Remote Power support (PoE)	Cable shall comply to the requirements of latest IEEE 802.3bt (Type 4) for 4pair-PoE transmissions.	
8	Qualification standards (reports to be submitted with bid).	Cable must be ETL verified for ANSI/TIA 568-C.2 and ISO/IEC 11801.	
		Shall be certified as per EN50575 CPR Cable EuroClass to the classifications of Dca at minimum.	
9	Certification	Cable must be certified by Intertek lab under 4 connector channel configurations for the requirements of CAT6 as per ANSI/TIA 568-C.2 for both short channel (<15m) as well as Long channel (100m).	

#### 10. LIU Loaded With LC Fiber Pigtail Cassettes, Coupler Etc.

S/No.	Required Specification	Compliance (Yes/No)
1	Shall accommodate 4 coupler plates or 4 pigtail cassettes for a total of 48 fiber terminations.	
2	The width shall be 19 inches and height of 1U (1.75 inches), with a minimum of 18-inch depth.	
3	The shelf/LIU shall have front sliding access.	
4	The Fiber panel must be complaint to ISO 18598 and ANSI/TIA 5048 AIM standards for real time monitoring, documentation and reporting features of link information for both inbuilding as well and OSP connections.	
5	Shall have splice trays to splice minimum 48 / 32 fibers.	
6	Shelf shall have integrated front patch cord trough and admin label window.	
7	Shall have min 6 or more cable entry ports.	
8	Pigtail Cassettes: Factory-fitted fiber cassette assembly pre-installed with 6 duplex LC SM adapters and 12xLC SM pigtails No of Cassettes: The LIU shall be fully loaded with a sufficient number of cassettes es each LIU	

**11. UTP Patch Cords - CAT6 -1M**

11. UTP Patch Cords - CAT6 -1M			
Sr No	Required Specification		Compliance (Yes / No)
1	Type	Unshielded Twisted Pair, Category 6 Patch Cord compliant to ANSI/TIA 568-C.2 & ISO/IEC 11801.	
2	Plug Protection	Transparent slim boot that improves and provides maximum protection from snagging during moves and rearrangements. Patch cords with rubber boots are not acceptable.	
3	Electrical Parameters		
3.1	dc Resistance, maximum	0.30 Ohm	
3.2	Safety Voltage Rating	300 V	
4	UL Rating :	UL 1863	
5	Jacket	LSZH as per IEC 60332-1	
6	Safety Standard :	ETL certified	
7	Performance certificate	Shall be certified as per EN50575 CPR Cable EuroClass to the classifications of Dca at minimum.	
8	PoE support	Must comply to the latest PoE standard IEEE 802.3bt (Type 4) transmission requirements.	
9	Plug Insertion life, min	750 times	
10	Operating Temperature Range:	-10 °C to +60 °C	
11	Performance	Must be ETL certified and 4 connector channel compliant.	

**12. Cat6 UTP Information Outlet Set**

12. Cat6 UTP Information Outlet Set			
Sr No	Details	Specification	Compliance (Yes / No)
1	Type	CAT6 UTP Modular Jack complaint to ANSI/TIA 568-C.2 or latest.	
2	Wire terminal	200 termination cycles	
3	Modular Jack	750 mating cycles	
4	Plastic Housing	Polycarbonate, UL94V-0 rated or equivalent	
5	IDC Contact Plating	Tin/Lead Plate	
6	Faceplate	Square Plate with 1/2/4 port. 86 x 86 mm	
7	ROHS/ELV	Compliant	
8	Type	Electrical performance guaranteed to meet or exceed latest ANSI/TIA 568-C.2 Category 6 and ISO/IEC 11801 Class E specifications	

9	Plug Insertion cycles, Min	3000 mating cycles under 90W of POE load	
10	Plug compliance	IEC 60603-7 and IEC 60512-99-002 for safe unmating under electrical load	
11	Contact Resistance, maximum:	100 mOhm	
12	PoE support	Shall support IEEE 802.3bt Type 4 for 4PPoE transmissions	
13	Plug protection	Shall be equipped with strain relief cap for securing termination and dust contamination.	
14	Current Rating: (critical for support of IP Video Phones and POE+ devices)	1.5A @ 20 °C	
15	Dielectric Withstand Voltage, RMS, conductive surface:	1500 Vac @ 60 Hz	
16	Insulation Resistance, minimum	500 MOhm	
17	Flammability Rating:	UL 94 V-0	
18	Safety Standard:	UL listed	
19	Conductor Gauge, solid/stranded:	22 – 24 AWG	
20	Compliance	ROHS 2011 Compliant	

### 13. 6 Core Outdoor Armored single mode optical fiber cable

13. 6 Core Outdoor Armored single mode optical fiber cable		
Sr No	Required Specification	Compliance (Yes / No)
1	Cable Type	6 fiber Single Mode, Armored, Loose-tube, Gel filled cable complying to ISO/IEC 11801, EN50173, ANSI/TIA 568-C.3, Telcordia GR-20; suitable for use in direct burial, outdoor ducts and backbone cabling
2	Fiber Type	Single Mode, 9/125 micron primary coated buffers, OS2 (ITU T G652.d)
3	Armour	Corrugated Steel Tape Armour of min. 0.15 mm thickness
4	Cable Construction Type	Telcordia GR 20, IEC 60794-1
5	Attenuation	@ 1310nm <=0.34 db/Km MAX
		@ 1550nm <=0.22 db/Km MAX
		@ 1380-1386nm <= 0.31db/Km

6	Cut Off Wave length (nm)	<1260	
7	Point Discontinuity (db)	<= 0.1	
8	Chromatic Dispersion @ 1310nm (ps/nm x Km)	<=3.5	
9	Chromatic Dispersion @ 1550nm (ps/nm x Km)	<=18	
10	Loose tube material	PBTP Loose tubes filled with water blocking Thixotropic gel.	
11	Loose Tube Color	Blue	
12	Jacket material	HDPE	
13	Jacket thickness	2 mm Min.	
14	Strength members	Water blocking Glass yarn strength members at the periphery of the multiple loose tube arrangement	
15	Tensile Strength	1200 N	
16	Crush Resistance	3000 N	
17	Cable Diameter	10.0 + - 0.5 mm	
18	Min Bend Radius – Installation (mm)	20 x OD	
19	Min Bend Radius – Service (mm)	16 xOD	
20	Cable weight Kg/Km	100 – 120 Kg/Km	
21	Operating Temperature	-20 Degree C to +70 Degree C	
22	Compliance	Shall be ROHS compliant	

**14. LC-LC Fiber Patch Cord- 3M**

14. LC-LC Fiber Patch Cord- 3M		
Sr No	Required Specification	Compliance (Yes / No)
1	LC/UPC to LC/UPC Duplex tuned Fiber Optic Patch Cord, 9/125 Micron, ITU-T G.652.D (OS2) Singlemode, G.657A1 Bend Insensitive compliant to ICEA S-83-596 and Telcordia GR – 409.	
2	Flame test listing: NEC OFNR (ETL)	
3	Test Compliances: IEC 60332-3, IEC 60754-2, IEC 61034-2	
4	UL Listing shall be as per UL 1666 and UL 1685	
5	Cordage OD: 1.6 mm twin zip cord	
6	Tensile rating min 160N or better	
7	Sheath shall be LSZH with Yellow color as per TIA color code for Singlemode	
8	Insertion Loss MAX 0.3 dB	
9	Return Loss $\geq$ 50 dB	
10	Temp range: -10 Degree C to +60 Degree C	
11	ROHS 2011 & EN 50575 Compliant	



**15. 3kVA Online UPS + inbuilt battery with Power dist. Wiring.**

15. 3kVA Online UPS			
Sr No	Product	Specification	Compliance (Yes / No)
1	Capacity	3kVA/2.4 kW.	
1.1	Model	Liebert GXT MT+ CX	
1.2	Design	True online double conversion design	
<b>2</b>	<b>Input Characteristics.</b>		
2.1	Nominal Input Voltage	230Vrms	
2.2	Nominal Input Frequency	50Hz.	
2.3	Input Power Factor	0.99	
2.4	Type of Rectifier	IGBT Based PWM Rectifier	
2.5	Input Voltage Range	110 Vac to 300 Vac.	
2.6	Voltage Detection Tolerance $\pm 3\%$ Calibration	$\pm 3\%$ Calibration	
2.7	Input Frequency Range	40-70Hz	
2.8	Inrush Limitation	7*IRMS_Nom	
2.9	Current Protection	With Fuse.	
<b>3</b>	<b>Battery Parameters.</b>		
3.1	Charging Method	Constant voltage constant current (CVCC)	
3.2	Charging current Capacity	Settable 1/2/4/6	
3.3	Type of Batteries	SMF VRLA,Li-ion,Tubular	
3.4	back up 15 min	minimum 2448 VAH	
3.5	back up 30 min	minimum 3024 VAH	
3.6	back up 1 hr	minimum 4680 VAH	
3.7	Maximum Battery Leakage Current	500uA	
3.8	Charge Voltage Accuracy	$\pm 1\%$	
<b>4</b>	<b>Output Parameters.</b>		
4.1	Load power factor	0.8	
4.2	Nominal Output voltage	208/220/230/240VAC Settable	
4.3	Output Frequency	Frequency Range (Batt. Mode): 50 Hz $\pm$ 0.1 Hz ; Frequency Range (Synchronized Range): 46Hz ~ 54 Hz @ 50Hz system	
4.4	Output Waveform	Pure sine wave	
4.5	Total Harmonic distortion (THD)	Less than 3% for Linear Load and Less than 6% for RCD Load	

4.6	Inverter	IGBT based PWM with Instantaneous Sine wave control	
4.7	Power Rating	3kVA/2.4 kW.	
4.8	Dynamic response	IEC62040-3 Classification 1	
4.9	Crest factor	3:1	
4.10	Duty.	Continuous duty	
4.11	Overload Capacity	AC mode:105%~110%: 10min、 110%~130%: 1min、 >130% : 1sec ;	
4.12	Frequency synchronization Band for Static. Bypass	46 - 54Hz	
4.13	Transfer (Inverter to Bypass)	0 ms	
4.14	Retransfer ( Bypass to Inverter)	0 ms	
4.15	Automatic Bypass	Inbuilt	
4.16	Overall efficiency (AC to AC)	90%.	
5	<b>Miscellaneous Function</b>		
5.1	Intelligent Fans Speed Control	Yes.	
5.2	Auto Restart Function	Yes.	
6	<b>Physical and Environmental Characteristics.</b>		
6.1	Acoustic Noise Level	Less than 58dB @ 1 Meter	
6.2	Ambient Temperature	0 - 50 Deg C	
6.3	Storage Temperature	-15°C~60°C	
6.4	Humidity	<95 % and non-condensing	
6.5	Altitude	<1000m	
6.6	Enclosure Protection Grade	IP 20	
6.7	Cooling	Forced Air	
7	<b>Metering (Digital display)</b>		
7.1	Input voltage	Advanced LCD based Display System, able to monitor Input Voltage/Battery Voltage/Output Voltage/Output Frequency/Input Frequency/Ambient Temperature.	
7.2	Battery voltage		
7.3	Output voltage		
7.4	Output current		
7.5	Output frequency		
7.6	Input Frequency		
7.7	Heat sink temperature		
7.8	Fault indicated on Digital Display Alarms	LED indication display	
7.9	input fail	Inbuilt and accessible on LCD Display.	

7.10	Battery Low		
7.11	Transfer to bypass and system fault		
7.12	LED Indications		
7.13	Protection	Overload/Short Ckt/Battery Deep Discharge/Low Battery/Reverse Battery/Inverter Current Limitation/Over Temperature/Output Overvoltage.	
7.14	Optional features	RS 232 communication port for interfacing, Remote monitoring	
8	<b>Standards</b>		
8.1	Low freq Conducted disturbance	IEC61000-2-2	
9	<b>Other Standards</b>		
9.1	Continuous Electromagnetic Susceptibility	IEC 61000-4-3	
9.2	Electrical Fast Transient Compatibility	IEC 61000-4-4	
9.3	Surge	EN 61000-4-5: 2005	
9.4	CRFI	IEC61000-4-6	
9.5	Magnetic Field Immunity	IEC 61000-4-8	
9.6	Transportation	IEC 60068-2-32,IEC 60068-2-64,IEC 60068.2-27	
9.7	Protection	IP-20	
9.8	NABL approved Government lab test certificate	Yes.	
9.9	ISO certifications	ISO 9001,ISO14001,ISO27001,ISO 45001:2018	
9.10	BIS Registration	Available	

#### 16. Camera Mounting Box

16. Camera Mount Box			
S.N.	Product	Specification	Compliance (Yes/No)
1	Product Name	Camera Mount Box	
2	Uses	Indoor and Outdoor	
3	Material	PVC	
4	Type	Weather Proof	
5	Compliance	Standard	

**17. PoE Injector 802.3at**

17. PoE Injector			
S.N.	Product	Specification	Compliance (Yes / No)
1	Product Name :	PoE Injector	
2	Voltage support	IEEE 802.3at	
3	Diagnostic LEDs	Yes	
4	Compliance	Standard	

**18. PDU (For Server /Network Rack) 6 Socket 5/15AMP**

18. PDU		
Sr No	Required Specification	Compliance (Yes / No)
1	Rack should have Five Number Server /IT Rack mount power distribution unit, 1Ph, 230V, 16A, 50/60Hz, 2U standard with 6 X Indian Round Pin 5/15A, Inlet Plug type 16A Indian Round Pin, 16A MCB - PDU Rating 3.6KVA/Side feed-1.5Mt/ Black	

**19. Rodent Repellent (Area coverage per system: minimum 300 Sq., Operating Frequency: Above 20KHz;**

19. Rodent Repellent System			
S.N.	Product	Specification	Compliance (Yes / No)
1	Product Name:	Rodent Repellent System	
2	Operating Frequency	Above 20KHZ and below 60Khz	
3	Sound Output	80db to 110db at 1 meter	
4	Power Output	1W or above	
5	Power Supply	230V AC/ 50Hz 14 Volts	

**20. RJ 45 connector**

20. RJ-45 connector			
S.N.	Product	Specification	Compliance (Yes / No)
1	Product Name	RJ 45 Connector	
2	Performance category	CAT6	
3	Housing material	Polycarbonate	
4	Contact material	Copper	
5	Compliance	Standard	

**21. 25MM PVC Conduit**

21. 25mm PVC Conduit			
S.N.	Product	Specification	Compliance (Yes / No)
1	Product Name :	PVC Conduit Pipe	
2	Colour	White	
3	Total Size	25mm	
4	Material	Plastic	
5	Compliance/Standard	ISI/BIS	

### 18. Price Bid

Complete BOQ & BOM (Price Bid)									
<b>Project: Supply, Installation and Commissioning of ICT equipment (Wi-Fi connectivity and CCTV Camera) in Hostel Bose and the forthcoming hostel of IIMBG.</b>									
Project Site: IIM Bodh Gaya									
Complete Phase Scope Matrix:- "Turn-Key basis"									
Supply Installation Testing Commissioning + 5 Years Warranty Maintenance									
Consider: Seamless operations + Easy & Centralized monitoring + integrated with the existing network of the institution									
BOQ of Materials Part (A)									
Sl. No.	Name of goods	Make & Model	UOM	Qty	Unit Rate (Rs)	Total Price (Rs)	GST rate (%)	GST amount (Rs)	Total Price (Rs)
1	2	3	4	5	6	7 (5X6)	8(a)	8(b)	9(7+8b)
1	Wireless Access Points (Indoor)		Nos	18					
2	Wireless Access Points (Outdoor)		Nos	5					
3	Layer 2 switch - 24 Port 10/100/1000 Base T PoE+ with 4 X 10 SFP Port		Nos	3					
4	10G SFP Transceiver for Single Mode OFC		Nos	6					
5	Outdoor 5MP IP Bullet Fixed Camera with IR		Nos	40					
6	64 Channel Network Video Recorder		Nos	1					
7	Surveillance Hard Disk 6 TB		Nos	6					
8	Network Rack -12U With Accessories		Nos	1					
9	UTP Cable- CAT 6		Box	4					
10	LIU Loaded With LC Pigtail, Coupler Etc.		Nos	3					
11	UTP Patch Cords - CAT6 -1M		Nos	50					
12	Cat6 UTP Information Outlet Set		Nos	24					
13	6 Core Outdoor Aarmorred single mode optical fiber cable		Mtrs.	250					
14	LC-LC Fiber Patch Cord- 3M		Nos	10					
15	3kVA Online UPS + inbuilt battery with Power dist. Wiring.		Nos	1					
16	Camera Mounting Box		Nos	40					
17	PoE Injector 802.3at		Nos	5					
18	PDU ( For Server /Network Rack) 6 Socket 5/15AMP		Nos	4					

19	Rodent Repellent (Area coverage per system : minimum 300 Sq., Operating Frequency : Above 20KHz;	Nos	40						
20	RJ 45 connector	Box	2						
21	25MM PVC Conduit	Nos.	75						
<b>Total Price of supplied items (sum of column 9) [A]</b>									

BoQ of Service Items (B)									
Sl. No.	Name of work	UOM	Qty	Unit Rate (Rs)	Total Price (Rs)	GST rate (%)	GST amount (Rs)	Total Price (Rs)	
1	2	4	5	6	7 (5X6)	8(a)	8(b)	9(7+8b)	
1	Installation of Switch	Nos	3						
2	Installation of Camera	Nos	40						
3	Installation of Access Point	Nos	23						
4	Laying of Cat6 Cable	Meter	1220						
5	Termination and testing of UTP Patch Panel	Nos	2						
6	Termination and testing of UTP Information Outlet	Nos	24						
7	Laying of OFC Cable in (Overhead)	Mtrs.	250						
8	Installation and Termination of LIU	Nos	3						
9	Installation commissioning & dressing of wall Mount Racks	Nos	1						
10	Installation & Commissioning of Online UPS including power points terminations and electric cable laying from nearby row power source to UPS end, Mounting and connectivity o 16AMP socket & Switch with MCB box at end and 5/15 AMP socket & switch with MCB at each rack points (All the cabling works for power connectivity of each wall mount racks should be included). Required items like Electrical cables, MCCB, PVC Box, Switch & Socket etc. shall be supplied by the bidder. The Bidder shall be responsible for providing all materials, equipment, installation/maintenance tools, and services, specified or otherwise, which are required to fulfill the intent of ensuring operation-ability/ maintainability and reliability of total materials covered.	1	Job						
<b>Total Price of supplied items (sum of column 9) [B]</b>									

**Price Summary:-**



Items	Price in Rs.	Amount in words (Rs.)
Total Materials Amount with GST (A)		
Total Service Amount with GST (B)		
Total Project Quoted Amount (T = A + B)		

**Note:**

- All rates should be in INR.
- The selected vendor has to rectify all damages occur during the execution of the work at its own cost.
- The prices, once accepted by the Institute, shall remain valid till 6 months from the date of the initial placement of the purchase order or 4 months from the date of satisfactory installation, whichever is later. The Institute shall not entertain any increase in the rates during the period. However, in the event, there is a reduction or increase in Government taxes during the period of execution of the order, the rates shall be suitably adjusted with effect from the date notifying the said reduction or increase in Government taxes, if any.
- IIMBG reserves the right to increase/decrease the quantity or remove any item. The successful bidders shall be paid as per actuals.

We agree to supply the above goods in accordance with the technical specifications for a total contract

price of Rupees \_\_\_\_\_ (Amount in figures) [Rupees

\_\_\_\_\_ (Amount in Words)] within the period specified in the Invitation for Quotations.

We confirm that the normal commercial warranty/guarantee of 5 Years shall apply to the offered items, and we also confirm to agree with terms and conditions as mentioned in the Invitation Letter.

**Signature of Supplier**

Name :  
Designation :  
Address :  
Contact No. :  
Mail ID :

ANNEXURE – I

To,  
Chief Administrative Officer,  
Administrative Block,  
Indian Institute of Management Bodh Gaya  
Uruvela, Prabandh Vihar  
Bodh Gaya, Gaya-824234 (Bihar), India  
Phone: 0631-2200238  
Email: cao@iimbg.ac.in

**Sub: - Tender EMD Details.**

Ref: - Notice Inviting Tender For Supply, Installation and Commissioning of ICT equipment (Wi-Fi connectivity and CCTV Camera) in Hostel Bose and the forthcoming hostel of IIMBG

Dear Sir,

The details of the transfer of EMD amount in the IIM Bodh Gaya bank account is tabulated below:

	Amount	Ref./UTR No. and Date	Bank Name
<b>Earnest Money Deposit</b>	113448/-		

Thanking you

Yours faithfully,

(Authorised Signatory with Seal)

**ANNEXURE – II**

**Ref:-** Notice Inviting Tender For Supply, Installation and Commissioning of ICT equipment (Wi-Fi connectivity and CCTV Camera) in Hostel Bose and the forthcoming hostel of IIMBG

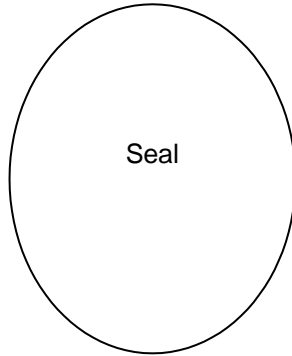
**Annual Turnover Details:**

Evaluation Criteria		Remarks
	Financial Year	Turnover in Rs.
<b>Bidder Annual Turnover for last any three financial years 2020-2021, 2021-22, 2022-23 and 2023-24</b>		
		<b>Supporting Documents (Audited Balance sheet) are to be attached along with this</b>

Date:

Authorized Signatory

Place:



Name

Designation:

Contact No.:



**MANDATE FORM FOR ELECTRONIC FUND TRANSFER/RTGS TRANSFER**

Date: / /

The Chief Administrative Officer  
 Indian Institute of Management  
 Bodhgaya

Sub: Authorization for release of payment / dues from Indian Institute of Management  
 Bodhgaya through Electronic Fund Transfer/RTGS/ other cashless facilities.

1. Name of the Firm/Agency:
2. **Address of the Firm/Agency:**

City \_\_\_\_\_  
 Pin Code \_\_\_\_\_  
 E-Mail ID \_\_\_\_\_  
 Mob No: \_\_\_\_\_ Permanent Account Number \_\_\_\_\_

3. Particulars of Bank

Bank Name		Branch Name	
Branch Place		Branch City	
PIN Code		Branch Code	
MICR No			
(9 Digit number appearing on the MICR Bank of the Cheque supplied by the Bank, Please attach a Xerox copy of a cheque of your bank for ensuring accuracy of the bank name , branch name and code number)			
IFS Code:(11 digit alphanumeric code)			
Account Type	Saving	Current	Cash Credit
Account Number:			

**DECLARATION**

I hereby declare that the particulars given above are correct and complete. If any transaction delayed and not effected for reasons of incomplete or incorrect information I shall not hold Chief Administrative Officer, Indian Institute of Management Bodhgaya responsible. I also undertake to advise any change in the particulars of my account to facilitate updating of records for purpose of credit of amount through NEFT/RTGS/other cashless facilities.

Place: \_\_\_\_\_

Date: \_\_\_\_\_

Signature & Seal of the Authorized Signatory of the Firm/Agency

~~Certified that particulars furnished above are correct as per our records~~

Bankers Stamp:

Date: \_\_\_\_\_

Signature of the Authorized Official from the Bank

**N.B : Please fill in the information in CAPITAL LETTERS, computer typed; please TICK wherever it is applicable.**

**REGISTERED OFFICE CERTIFICATE**  
**(to be provided on letterhead of the firm)**

**Ref:-** Notice Inviting Tender For Supply, Installation and Commissioning of ICT equipment (Wi-Fi connectivity and CCTV Camera) in Hostel Bose and the forthcoming hostel of IIMBG.

This is to certify that << COMPANY NAME >> has an office in Bihar/ West Bengal/ Jharkhand. Relevant address proof and supporting documents are enclosed.

Date:

Authorized Signatory

Place:

Name

Seal

Designation:

**CERTIFICATE**

**(to be provided on letterhead of the firm)**

**Ref:-** Notice Inviting Tender For Supply, Installation and Commissioning of ICT equipment (Wi-Fi connectivity and CCTV Camera) in Hostel Bose and the forthcoming hostel of IIMBG.

I hereby certify that the above firm neither blacklisted by any Central/State Government/Public Undertaking/Institute nor is any criminal case registered/pending against the firm or its owner/partners anywhere in India.

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

Seal

Designation:

Contact No.:



**Supply, Installation and Commissioning of ICT equipment (Wi-Fi connectivity and CCTV Camera) in Hostel Bose and the forthcoming hostel of IIMBG**

**Manufacturers / 'Producers' Authorization Form OEM Details**

**Bidder Name :**

**Address of the Bidder :**

S/No.	Name of Goods or Related Services	Name of OEM	Authorization letter Attached? (Yes/No)	Technical Compliance approved by the OEM letterhead.	Data Sheet of Product
1	Wireless Access Points (Indoor)				
2	Wireless Access Points (Outdoor)				
3	Layer 2 switch - 24 Port				
4	10G SFP Transceiver for Single Mode OFC				
5	Outdoor 5MP IP Bullet Fixed				
6	64 Channel Network Video				
7	UTP Cable- CAT 6				
8	LIU Loaded With LC Pigtail,				
9	6 Core Outdoor Armored single mode optical fiber cable				
10	3kVA Online UPS + inbuilt battery with Power dist. Wiring.				

**Seal & Signature of the bidder**

**Annexure-VII**

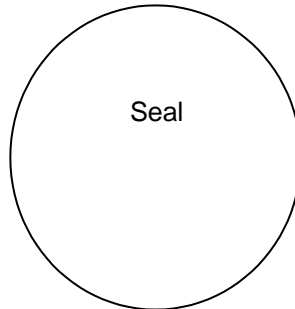
**Ref:-** Notice Inviting Tender For Supply, Installation and Commissioning of ICT equipment (Wi-Fi connectivity and CCTV Camera) in Hostel Bose and the forthcoming hostel of IIMBG.

**Work Order Details:**

S. No.	Evaluation Criteria	Name of the Client	Order No. and Date	Amount	Remark
	List of Work Order in the field of Information Technology business/IT System Integration , Wired and Wireless LAN, MAN, WAN , CCTV implementation experience in Central Govt. /State Govt./PSUs/ Govt Educational Institute/Govt University/Govt Research Institutions since 1 <sup>st</sup> April 2018 (PO with Completion Certificate to furnish)				

Date:

Place:



Authorized Signatory

Name

Designation:

Contact No.:



**Self -Declaration Certificate for Accepting All Terms & Conditions**  
(On the letterhead of the Bidder)

To,  
**Chief Administrative Officer**  
**Indian Institute of Management Bodh Gaya**  
**Uravela, Prabandh Vihar, Bodh Gaya,**  
**Gaya-824234 (Bihar), India**  
**Phone: 0631-2200238; Email: cao@iimbg.ac.in**

Ref: - Notice Inviting Tender For Supply, Installation and Commissioning of ICT equipment (Wi-Fi connectivity and CCTV Camera) in Hostel Bose and the forthcoming hostel of IIMBG

**Dear Sir,**

This is to undertake that I/We, owner(s) of M/s ....., of ...<name of city>... have read all the terms and conditions, specifications etc. of this Tender document and I/We fully understood all of them and I/We are fully aware of their implications. We undertake that if I/We were given the Purchase Order (PO), will abide by all the terms and conditions of the Tender document and provide all the goods/items to the satisfaction of the Institute authorities.

I further undertake that after understanding all and their implications all the pages of this tender document are signed and stamped by the authorized person of the firm. The documents and information furnished by me/firm is correct in all respect and if anything found incorrect, I shall be liable for the action as per the terms and conditions given in this tender document.

Signature: .....

Name & Full Address of Bidder:

M/s .....

Phone Nos: .....

E-mail: .....

Official seal of the Bidder



**Bank Guarantee Format**

(To be executed by any scheduled bank, on a non-judicial stamp paper under bank's covering letter mentioning address of the bank)

Ref: Bank Guarantee No.:

Date:

To,

**Chief Administrative Officer  
Indian Institute of Management Bodh Gaya  
Uruvela, Prabandh Vihar, Bodh Gaya,  
Gaya-824234 (Bihar), India  
Phone: 0631-2200238; Email: cao@iimbg.ac.in**

Dear Sir,

WHEREAS \_\_\_\_\_ <Name and address of the Service Provider>\_\_\_ (Hereinafter called "the Service provider" has undertaken, in pursuance of LOI vide Memo No..... dated ..... (Herein after "the contract") for "Campus Wide Wired and Wireless Local Area Network" for IIM Bodh Gaya . AND WHEREAS it has been stipulated in the said contract that the service provider shall furnish a Bank Guarantee ("the Guarantee") from a scheduled bank for the project/ performance of the "Supply, Installation and Commissioning of ICT equipment (Wi-Fi connectivity and CCTV Camera) in Hostel Bose and the forthcoming hostel of IIMBG as per the contract. WHEREAS we ("the bank", which expression shall be deemed to include its successors and permitted assigns) have agreed to give the "Indian Institute of Management, Bodh Gaya" the Guarantee:

THEREFORE, the Bank hereby agrees and affirms as follows:

1. The Bank hereby irrevocably and unconditionally guarantees the payment of Rs. .... (as applicable), to the IIMBG under the terms of the contract, on account of full or partial non-performance/ non-implementation and/or delayed or defective performance/ implementation. Provided, however, that the maximum liability of the Bank towards IIMBG, under this Guarantee shall not, under any circumstances, exceed the aggregate.

2. In pursuance of the Guarantee, the Bank shall, immediately upon the receipt of a written notice from IIMBG, stating full or partial non-implementation and/or delayed and/or defective implementation, which shall not be called in question, in that behalf and without delay/ demur or set-off, pay to IIMBG any and all sums demanded by IIMBG under the said demand notice, subject to the maximum limits specified in Warranty above. A notice from IIMBG to the Bank shall be sent by Registered Post (Acknowledgement Due) at the following address: Attention Mr \_\_\_<Mention the official address of the bidder>\_\_\_.

3. The Guarantee shall come into effect immediately upon execution and shall remain in force for a period of 66 months from the date of execution of the contract.

4. The liability of the Bank under the terms of this Guarantee shall not, in any manner whatsoever, be modified, discharged or otherwise affected by:-

4.1 Any change or amendment to the terms and conditions of the contract or the execution of any further



contracts/ Agreements.

4.2 Any breach or non-compliance by the bidder with any of the terms and conditions of any contracts/ credit arrangement, present or future, between the bidder and the bank.

5. The Bank also agrees that the IIMBG at its option, shall be entitled to enforce this Guarantee against the Bank as a Principal Debtor, in the first instance without proceeding against agency and not withstanding any security or other guarantee that IIMBG may have in relation to the bidder's liabilities.

6. The Bank shall not be released of its obligations under these presents by reasons of any act of omission or commission on the part of the IIMBG or any other indulgence shown by IIMBG or by any other matter or thing whatsoever which under law would, but for this provision, have the effect of relieving the Bank.

7. This guarantee shall be governed by the laws of India and only the courts of Bodh Gaya/Patna, shall have exclusive jurisdiction in the adjudication of any dispute, which may arise hereunder.

Date this the ..... Day of ..... 202 .

Witness 1:

Name :  
(Signature)

Witness 2:

Name :  
(Signature)



**Ref:- Notice Inviting Tender For Supply, Installation and Commissioning of ICT equipment (Wi-Fi connectivity and CCTV Camera) in Hostel Bose and the forthcoming hostel of IIMBG.**

**Self-certification format for claiming purchase preference under the “Public Procurement preference to Make in India” order**

Make-in-India (MII) Local supplier certificate (as per order No P-45021/2/2017-PP (BE-II) by DPIIT, Ministry of Commerce and Industry, Gol.)

Bid number:

Name of the item:

I/We certify that the item offered meets the local content requirement for

Class I Local supplier (Minimum 50% of local content)

Class II Local supplier (Minimum 20%, but less than 50%, of local content)(Select one of the above and strike off the other)

Percentage of local content in the quoted product is ..... %

Details of the location(s) at which local value addition made: .....

(Site/facility address where local value addition is made)

Authorized

Signature: Name:





**STAMP OF Rs. 1000/-**

**CONTRACT AGREEMENT**

**Contract No. .... Dated.....**  
**This is in continuation this office's Notification of Award No. .... dated .....**

1. Name and Address of the Supplier: - .....
2. Purchaser's Tender Enquiry Document No. .... dated ..... and subsequent amendments no..... dated ..... (if any) issued by the purchaser.
3. Supplier's Quotation dated ..... and subsequent communications no..... dated ..... exchanged between the supplier and the purchaser in connection with this tender.
4. This agreement is made this day.....between .....,Reg office at  
..... herein after called " Supplier" the first party which expression shall include his heirs, executors and administrators/ their successors and INDIAN INSTITUTE OF MANAGEMENT BODH GAYA, Gaya, Bihar, herein after called "INDIAN INSTITUTE OF MANAGEMENT BODH GAYA", the second party, acting through Director, INDIAN INSTITUTE OF MANAGEMENT BODH GAYA, Gaya, Bihar, herein after include his successors and assignees, shown as under :-
5. In addition to this Contract Form, the following documents etc, which are included in the documents mentioned under paragraphs 2 and 3 above, shall also be deemed to form and be read and construed as integral part of this contract:
  - a) Terms & Conditions of contract
  - b) Tender Form furnished by the supplier
  - c) Price Schedule (s) furnished by the supplier in its tender
  - d) Purchaser's Notification of Award
6. Some terms, conditions, stipulations etc. out of the above-referred documents are reproduced below for ready reference:
  - a) Brief particulars of the goods and services which shall be supplied/ provided by the supplier are as under:

Sl No.	Brief description of goods/services	Accounting Unit	Quantity to be supplied	Unit Charges	Total Charges

Any other additional services (if applicable) and cost thereof: \_\_\_\_\_

b) Total value (in figure) \_\_\_\_\_ (In words) \_\_\_\_\_

c) Details of Performance Security \_\_\_\_\_



भारतीय प्रबंध संस्थान बोधगया  
Indian Institute of Management  
Bodh Gaya

7. The Performance Security would be encashed by second party in case first party fails to deliver services and/or breaches terms & condition of the previously mentioned tender document.
8. Any notice/direction given under the terms of this agreement shall be considered to be duly served if the same have been delivered to, left for or dispatched by Registered Post to the Contractor at his last known address. Any notice to be given to the INDIAN INSTITUTE OF MANAGEMENT BODH GAYA shall be considered as duly served if the same is delivered to left or dispatched by the Registered Post by the said to Director, INDIAN INSTITUTE OF MANAGEMENT BODH GAYA, Gaya, Bihar. Any notice so posted shall be prima facie proof of service at the expiration of the time in which in the ordinary course of post it would have reached the address to which it was sent.
9. That all the expenses for the preparation and execution of this deed including the stamp duty and conveyance fee shall be payable by the Contractor.
10. In accordance with the Tender document No. .... this agreement is effective till ....., as in the bid document as decided upon to do so by the second party on the same terms, conditions and rate.
11. Signature and legal addresses of the contracting parties:

In witness where of the parties here to have hereunder set their respective hands the day and the year above written.

**Contractor**

For & on behalf of

M/s \_\_\_\_\_

Address:.....

(Seal)

**IIM Bodh Gaya**

For & on behalf of IIM Bodh Gaya

(Name & Designation)

Address:.....

(Seal)

Witnesses:

1.

2.

Witnesses:

1.

2.