



# भारतीय विज्ञान शिक्षा एवं अनुसंधान संस्थान तिरुपति

## INDIAN INSTITUTE OF SCIENCE EDUCATION AND RESEARCH TIRUPATI

Transit campus: Sree Rama Engineering College Campus, Rami Reddy Nagar,  
Karakambadi Road, Mangalam (B.O), Tirupati - 517 507  
Website: <http://www.iisertirupati.ac.in/>

**Domestic Tender No: IISERT/PUR/0547/21**

**Date: 24/12/2021**

Indian Institute of Science Education and Research, Tirupati invites online bids (e-tender) in two bids systems, from OEM/ Authorized System Integrator Partner having Direct Purchase and Support Agreement with the OEM(s).

### Category of Suppliers invited for this Tender

Class I local Supplier – has local content equal to more than 50%

Class II local Supplier – has local content more than 20% but less than 50%

Brief Details of Tender:

| Item Description   | Qty        |
|--|------------|
| Supply, Installation and Commissioning of Surveillance Systems at IISER Tirupati Main Campus Yerpedu | As Per BOQ |

The Tender Document can be downloaded from Central Public Procurement (CPP) Portal <https://eprocure.gov.in/eprocure/app> or Institute website [www.iisertirupati.ac.in](http://www.iisertirupati.ac.in) and bid is to be submitted online only through the E-procurement portal up to the last date and time of submission of tender.

### Critical Dates of Tender

| Sr. No | Particulars                                   | Date       | Time       |
|--------|---|------------|------------|
| 1      | Date of Online Publication/Download of Tender | 24/12/2021 | 18:50 Hrs. |
| 2      | Pre-Bid Meeting via Google Meet               | 04/01/2022 | 15:00 Hrs. |
| 3      | Bid Submission Start Date                     | 08/01/2022 | 15:00 Hrs. |
| 4      | Bid Submission Close Date                     | 24/01/2022 | 15:00 Hrs. |
| 5      | Opening of Technical Bids                     | 25/01/2022 | 15:30 Hrs. |

No manual bids will be accepted. All quotations (both Technical and Financial should be submitted in the E-procurement portal).

Any queries relating to the process of online bid submission or queries relating to CPP Portal, in general, may be directed to the 24x7 CPP Portal Helpdesk. The contact number for the helpdesk is 0120-4200462, 0120-4001002, 91-8826246593.

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

### INDEX PAGE

| SR. NO | DESCRIPTION OF CONTENTS   | PAGE NO |
|--------|---|---------|
| 1.     | INSTRUCTIONS FOR ONLINE BID SUBMISSION  | 03      |
| 2.     | GENERAL TERMS AND CONDITIONS  | 06      |
| 3.     | SPECIAL TERMS AND CONDITIONS  | 09      |
| 4.     | CHAPTER -1 : INVITATION FOR TENDER OFFERS   | 16      |
| 5.     | CHAPTER -2 : INSTRUCTIONS TO BIDDERS  | 22      |
| 6.     | CHAPTER -3 : CONDITIONS OF CONTRACT   | 25      |
| 7.     | CHAPTER -4 : SCHEDULE OF REQUIREMENTS, SPECIFICATIONS ALLIED TECHNICAL DETAILS              | 34-67   |
| 8.     | CHAPTER -5 : PRICE SCHEDULE   | 68-69   |
| 9.     | ANNEXURE – A - FORMAT/QUESTIONNAIRE FOR COMPLIANCE OF TERMS AND CONDITIONS                  | 70      |
| 10.    | ANNEXURE – B - FORMAT OF COMPLIANCE STATEMENT OF SPECIFICATIONS                             | 77      |
| 11.    | ANNEXURE – C- MANUFACTURER'S AUTHORIZATION FORM   | 78      |
| 12.    | ANNEXURE – D- BID SECURING DECLARATION FORM   | 79      |
| 13.    | ANNEXURE – E – PREVIOUS SUPPLY ORDER LIST FORMAT  | 80      |
| 14.    | ANNEXURE – F - BIDDER INFORMATION FORM  | 81-82   |
| 15.    | ANNEXURE – G - BLACKLIST CERTIFICATE  | 83      |
| 16.    | ANNEXURE – H - CERTIFICATE BY BIDDER- DPIIT REGISTRATION                                    | 84      |
| 17.    | ANNEXURE – I - SELF-CERTIFICATION REGARDING LOCAL CONTENT (LC) FOR GOODS, SERVICES OR WORKS | 85      |
| 18.    | ANNEXURE – J - NO RELATIONSHIP CERTIFICATE  | 86      |
| 19.    | ANNEXURE – K – ANNUAL MAINTENANCE CONTRACT  | 87      |
| 20.    | ANNEXURE – L- UNDERTAKING FOR SUBMISSION OF PERFORMANCE BANK GUARANTEE                      | 88      |
| 21.    | ANNEXURE – M PRE-CONTRACT INTEGRITY PACT  | 89      |
| 22.    | ANNEXURE – N IISER TIRUPATI BANK DETAILS  | 97      |
| 23.    | ANNEXURE – O- ACCEPTANCE OF TENDER TERMS  | 98      |
| 24.    | CHECKLIST FOR BIDDERS   | 99-100  |
| 25.    | IMPORTANT NOTICE  | 101     |

### **Instructions for Online Bid Submission:**

This tender document has been published on the Central Public Procurement Portal ([URL:https://eprocure.gov.in/eprocure/app](https://eprocure.gov.in/eprocure/app)) & Institute website [www.iisertirupati.ac.in](http://www.iisertirupati.ac.in). The bidders are required to submit soft copies of their bids electronically on the CPP Portal, using valid Digital Signature Certificates. The instructions given below are meant to assist the bidders in registering on the CPP Portal, prepare their bids in accordance with the requirements and submitting their bids online on the CPP Portal.

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

### **REGISTRATION**

1. Bidders are required to enroll on the e-Procurement module of the Central Public Procurement Portal ([URL:http://eprocure.gov.in/eprocure/app](http://eprocure.gov.in/eprocure/app)) by clicking on the link "Click here to Enroll". Enrolment on the CPP Portal is free of charge.
2. As part of the enrolment process, the bidders will be required to choose a unique username and assign a password for their accounts.
3. Bidders are advised to register their valid email address and mobile numbers as part of the registration process. These would be used for any communication from the CPP Portal.
4. Upon enrolment, the bidders will be required to register their valid Digital Signature Certificate (Class II or Class III Certificates with signing key usage) issued by any Certifying Authority recognized by CCA India (e.g. Sify / TCS / nCode / eMudhra etc.), with their profile.
5. Only one valid DSC should be registered by a bidder. Please note that the bidders are responsible to ensure that they do not lend their DSCs to others which may lead to misuse.
6. Bidder then logs in to the site through the secured log-in by entering their user ID / password and the password of the DSC / eToken.
7. The CPP Portal also has user manual with detailed guidelines on enrollment and participation in the online bidding process. Any queries related to process of online bids or queries related to CPP Portal may be directed to the 24x7 CPP Portal Helpdesk.
8. The Institute will not be responsible for any type of technical issue regarding uploading of Tender on website.

### **SEARCHING FOR TENDER DOCUMENTS**

1. There are various search options built in the CPP Portal, to facilitate bidders to search active tenders by several parameters. These parameters could include Tender ID, organization name, location, date, value, etc. There is also an option of advanced search for tenders, wherein the bidders may combine a number of

search parameters such as organization name, form of contract, location, date, other keywords etc. to search for a tender published on the CPP Portal.

2. Once the bidders have selected the tenders they are interested in, they may download the required documents / tender schedules. These tenders can be moved to the respective 'My Tenders' folder. This would enable the CPP Portal to intimate the bidders through SMS / e-mail in case there is any corrigendum issued to the tender document.
3. The bidder should make a note of the unique Tender ID assigned to each tender, in case they want to obtain any clarification / help from the Helpdesk.

### **PREPARATION OF BIDS**

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

### **SUBMISSION OF BIDS**

1. Bidder should log into the site well in advance for bid submission so that he/she upload the bid in time i.e. on or before the bid submission time. Bidder will be responsible for any delay due to other issues.
2. The bidder has to digitally sign and upload the required bid documents one by one as indicated in the tender document.
3. Financial Bids can be submitted in PDF format (As per Chapter 5).

Any additional components, which the bidder wants to quote and if it's not available in BoQ, can be quoted in the PDF format.

The bidder may add rows to include the prices of all components & warranties, installation etc. whichever applicable.

4. Bidders are requested to note that they should necessarily submit their financial bids in the format provided (as per Chapter-5) and no other format is acceptable. The Financial Bid can be submitted in PDF format also. If the price bid has been given as a standard BOQ format with the tender document, then the same is to be downloaded and to be filled by all the bidders. Bidders are required to download the BOQ file, open it and complete the white Colored (unprotected) cells with their respective financial quotes and other details (such as name of the bidder). No other cells should be changed. Once the details have been completed, the bidder should save it and submit it online, without changing the filename. If the BOQ file is found to be modified by the bidder, the bid will be rejected.
5. The server time (which is displayed on the bidders' dashboard) will be considered as the standard time for referencing the deadlines for submission of the bids by the bidders, opening of bids etc. The bidders should follow this time during bid submission.
6. The uploaded tender documents become readable only after the tender opening by the authorized bid openers.
7. Upon the successful and timely submission of bids, the portal will give a successful bid submission message & a bid summary will be displayed with the bid no. and the date & time of submission of the bid with all other relevant details.
8. Kindly add scanned PDF of all relevant documents in a single PDF file of compliance sheet.

### **ASSISTANCE TO BIDDERS**

- i. Any queries relating to the tender document and the terms and conditions contained therein should be addressed to the Tender Inviting Authority for a tender or the relevant contact person indicated in the tender.
- ii. Any queries relating to the process of online bid submission or queries relating to CPP Portal in general may be directed to the 24x7 CPP Portal Helpdesk. The contact number for the helpdesk is **0120-4200462, 0120-4001002, 91-8826246593.**

### GENERAL CONDITIONS

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| 1  | All the network cameras supplied must be certified for:<br>1.FCC , CE and UL (or) 2. BIS ( Certificates to be enclosed)  |
| 2  | The MAC Addresses of all the camera supplied should be from OEM, not from for OEM Manufacturers ( To be check by website) or cannot be 3rd party.  |
| 3  | The network cameras for 720P HD and 1080P HD supplied must meet the SMTPE video standards: SMTPE 296M (HDTV 720p & HDTV 1080P)   |
| 4  | The network cameras supplied must meet the ISO/IEC 14496-10 AVC (H.264) & H.265 video compression standards  |
| 5  | The Outdoor network cameras supplied must meet the IEC 60529 (IP66) environmental protection standards   |
| 6  | The network cameras supplied must be manufactured in accordance with the ISO 9001 &14000 standards (Certificated to be enclosed)   |
| 7  | The network cameras supplied must be compliant with ROHS. Self certification to be included  |
| 8  | The network cameras supplied must have In-house Processor for Bandwidth Compensation & Optimization. The Camera Shall Support Video Motion Detection, Active Tampering Alarm, Trip Zone internally   |
| 9  | Camera OEM should provide a Hardening guide to stregethen camera configurations and to securely transmit data  |
| 10 | The cameras shall support the use of HTTPS and SSL/TLS, providing the ability to upload signed certificates to encrypt and secure authentication and communication of both administration data and video streams.  |
| 11 | The camera oem shall provide centralized certificate lifecycle management, with both pre- installed CA certificates and the ability to upload additional CA certificates. It should be able to<br>a) Easily deploy certificates to devices<br>b) Easily deploy HTTPS or 802.1X configurations on devices |
| 12 | The Camera shall support IEEE 802.1X authentication, Password protection, IP address filtering, HTTPS encryption, User access log  |
| 13 | The camera shall be fully supported by an open and published API (Application Programmers Interface), which shall provide necessary information for integration of functionality into third party applications   |
| 14 | The implemented API shall be standardized and supported by all network video products offered by the manufacturer  |
| 15 | The network surveillance cameras must support minimum On Board Edge storage of 128 GB or better  |
| 16 | The cameras shall support all 4 Streams @ H.265, and minimum one stream @ 1920 x 1080P, 25 FPS ( All four streams should support H.265)  |
| 17 | The specified unit shall be of manufacturer's official product line, designed for commercial and/or industrial 24/7/365 use.   |

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| 18 | The specified unit shall be based upon standard components and proven technology using open and published protocols and adopt to industry established standards  |
| 19 | All cameras must comply to ONVIF Profile S standard or better  |
| 20 | Firmware/software upgrades are to be provided by the OEM free of cost during the warranty period and AMC Period. Undertaking from OEMs to be provided on their Letter head   |
| 21 | All the major components of the CCTV systems shall be latest but field-proven and shall not be End-of-Life / Outdated; the same shall have to be supported by concerned OEM for at-least 5 years' period from the date of supply.  |
| 22 | All the cameras shall have 5 Years OEM warranty and the same shall be submitted on OEM Letter head   |
| 23 | All the cameras shall have ability to change the GOP/ GOV for Bit rate optimization or use equivalent technology   |
| 24 | All Fixed cameras shall have ability to select user defined shape for motion detection to include or exclude area to reduce false alarms, bandwidth and storage  |
| 25 | All cameras shall have ability to send and receive triggers to perform any action without intervention of VMS.   |
| 26 | Vendor should submit technical compliance on OEM letterhead for all major items i.e. Camera, VMS, AI, Storage and passive items  |
| 27 | Bidder Should Submit Valid authorization in original from all major Items i.e. Camera, VMS, AI, Storage and passive items  |
| 28 | The OEM should have RMA centre located in India.   |
| 29 | MTBF of minimum 100000 hours for cameras calculated at 40 Degree Celcius   |
| 30 | The vendor must be able to provide a tool designed to cost-efficiently manage common security controls such as <ul style="list-style-type: none"> <li>- device inventory</li> <li>- management of device accounts and credentials</li> <li>- batch firmware update</li> <li>- batch device configurations</li> <li>- device certificate management.</li> </ul>                                     |
| 31 | To avoid bypassing authentication methods (so called backdoor methods), the device shall not contain any hidden credentials (accounts, passwords, tokens or URL), only known by the vendor that could be used to bypass the device access control. Similarly, the device vendor shall not be able to assist in resetting a lost or forgotten account password without performing a factory default |
| 32 | The device must have a certificate management service that is able to hold more than one client or server certificate used by various services such as HTTPS, 802.1X or SNMP v3  |
| 33 | The passwords for registered users and devices should automatically be encrypted using the popular SHA-256 algorithm to prevent them from being decrypted by unauthorized users. The Password needs to be configured with the complexity as decided by the administrator.  |

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| 34 | The camera device must support these security features:<br><ul style="list-style-type: none"> <li>- multiple client accounts with different privilege levels</li> <li>- Should support SSL (Secured Socket Layer) and TLS (Transport Layer Security) to help prevent sniffing, modification, and destruction of data as it is transmitted between devices across a network.</li> <li>- The system should support SSL/TLS between camera and client</li> <li>- multicast media streaming over SRTP (Secure Real-Time Protocol)</li> <li>- The user passwords are encrypted by a secure hash algorithm. The Password needs to be configured with the complexity as decided by the administrator.</li> </ul> |
| 35 | The Camera to be provided by the bidder all the components / parts / assembly / software used in the offered hardware and software, should NOT be complying to GB28181, GB/T 28181-2011; GB/T28181-2011; GBT 28181-2011; GBT28181-2011 standards. There should be no option to activate or deactivate these standards in the camera web page/Settings..   |
| 36 | The Camera to be provided by the bidder should NOT have Hisilicon chipset   |
| 37 | Proposed cameras should be NDAA compliant   |
| 38 | Incase the network breaks, the camera should start recording internally and on resumption of network, it shall transfer the internal recording back to the main storage, in order to make sure that there is no data loss   |
| 39 | Storage to be provided for recording for 90 days at 4k resolution at 25fps  |
| 40 | All Cameras and Devices supplied in the proposed solution must be compatible with IPV6.   |
| 41 | All the Server shall work 24 x 7 365 Days   |
| 42 | No Single Point of Failure Architecture /Solution   |
| 43 | On Site Support 24 x 7 with max 8 Hours Resolution.   |
| 44 | The Vendor needs to Provide the complete connectivity diagram for the proposed solution.  |
| 45 | Training on Operation of the CCTV with all features of the supplied equipment to be given to the nominated personnel of IISER including Recording, Streaming etc whenever required.   |
| 46 | Training on operation and management of the storage with all the features of the supplied equipment to be given to the nominated personnel of IISER including the backup and restore as and when required.  |
| 47 | The vendor needs to do the cabling wherever required with connectors, proper casing and capping and should use the cable as suggested by the engineer incharge. The Bidder needs to quote the unit rate for laying the UTP cable with casing, capping and connectors.   |



| <b><u>Special Terms and Conditions</u></b> |   |
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| 1  | The Technically qualified bidders may be required to give a presentation on the solution proposed to be provided. This shall also be a part of the technical evaluation criteria  |
| 2  | IISER Tirupati will host the Presentation at IISER Tirupati.  |
| 3  | The Authorized representatives of the interested organizations must give their Presentation at their own cost.  |
| 4  | This Presentation will provide each tenderer/bidder with an opportunity to give their proposed solutions to the Institute's Committee.  |
| 5  | Presentation is mandatory for each technically qualified bidder participating in the Tender(if called for). The decision of the Tender Committee in this regard shall be final and binding on all the parties concerned.  |
| 6  | Failure to attend and present the solutions proposed to be offered shall result in rejection of the bid summarily.  |
| 7  | The Institute may at any time ask for installation and checking of the performance of one camera each from the models quoted in the tender as part of the technical and performance evaluation.   |
| 8  | The analytics needs to quoted along with the hardware required for the solution.  |
| 9  | The Solution provided should be redundant(in combination with all available servers), if any one of the server fails the other server should take over. Example the recording server should be able to take over as Management server and vice versa.   |
| 10   | Only One Vendor shall supply the complete Bill of Materials. No Subcontracts are allowed  |
| 11   | Time is the essence of this contract. The Duration in which the project to be completed in all aspects viz. supply, installation, commissioning, testing, training, demo etc is 60 days.  |
| 12   | The Bidder needs to provide complete and detailed test reports issued from Govt. / NABL Accredited Test Labs / 3rd party test house of International repute labs  |
| 13   | a.The bidders are allowed to furnish self-declaration pertaining to the country of origin for the product / items chose to bid as compliance to the said clause initially (bidding stage).<br>b. It may be noted that with the actual supplies being delivered, the successful bidder has to submit the details pertaining to the country of origin for the product items.<br>c. No deviation (between above 1 & 2) will be allowed |
| 14   | The Bidder needs to provide the regulatory approvals/ certifications from NABL/ NABCB accredited labs or internationally reputed and accredited labs/agencies   |
| <b><u>Essential Criteria</u></b>           |   |

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| 1 | The Camera OEM shall be in IP CCTV manufacturing since 07 years(as on the closing date for submission of Bids). The OEM to submit self certification on the Letter head.   |
| 2 | OEM of CCTV should be registered in India for Last 3 years. Proof of the same should be attached with the Technical bid.   |
| 3 | Oem should be in IP camera business/CCTV Solutions business in india for atleast 3 years (as on closing date for the sibmission of Bids).  |
| 4 | The bidder has to provide Manufacturer's Authorization Certificate(s) (MAF) from the OEM to the proposed solution to be eligible for bidding   |
| 5 | All bidders to submit the MTBF report for all the four type of cameras for VSS as per Bellcore/Telcordia Issue 3, method I Case 3 with following minimum details :<br><br>i. Calculation Background<br>ii. Lifespan Prediction<br>iii. Board MTBF calculation Results<br>iv. Unit and Set Level MTBF Calculation Results<br>v. Unit and Set Level B10 MTBF Calculation Results<br>vi. Defection Prediction using MTBF<br>Bidder to submit the software generated prediction tool reports in support of submitted MTBF claim.   |
|   | <b>Pre-Qualification for OEM:</b>  |
| 1 | False Representations by OEM shall lead to Strict and Immediate actions taken as per GOI guidelines and shall be referred to all relevant GOI Departments for action against false representations against OEM and Bidder.   |
| 2 | Only original manufacturers are allowed to bid directly or through it's authorised representatives. Manufacturers who get 3rd party manufacturing are restricted from Bidding.   |
| 3 | The tender is governed by Government of India (GOI) Rules and Regulations like General Financial Rules (GFR), DIIPT Policies etc. Bidders to ensure all GOI guidelines are followed. Bidders while selecting OEMs of equipments, Hardware and Software (proposed to be supplied against this tender) are advised to check documents submitted by OEMs carefully as they too shall be held accountable for submitting any False Claims/Representations made by OEMs of equipments, Hardware and Software (proposed to be supplied against this tender) as per GOI guidelines. |
| 4 | Bidders while selecting OEMs of equipments, Hardware and Software (proposed to be supplied against this tender) to ensure OEMs are genuine and are not merely rebranding the 3rd party manufactured/developed product lines.   |
|   | Definition of (Original Equipment Manufacturer) OEM is as under :  |

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| a | <p>OEM is defined as a company that has its own manufacturing setup for the production of equipments ( Not Assembly) required in this tender and is currently manufacturing the offered models under their own brand in their own manufacturing setup. The OEM should either have an IPR or Design registered in their company name.</p>  |
| b | <p>OEM getting 3rd party manufacturing for offered products will not be considered as eligible OEM.</p>   |
| c | <p>OEM is defined as a company that has its own manufacturing setup for the production of equipments ( Not Assembly) required in this tender and is currently manufacturing the offered models under their own brand in their own manufacturing setup with SMT machines. The OEM should either have an IPR of technology being deployed in offered models or Design registered in their company name.</p> <p>OEM getting 3rd party manufacturing for offered products will not be considered as eligible OEM.</p> <p>OEM manufacturing in their own manufacturing setup &amp; who have designed the complete product and hold the IPR for the technology implemented in the offered models as per DOT Notification dated 29-August-2018 and as per notifications below :</p> <p>(i) Department of Industrial Policy &amp; Promotion (DIPP) Order No. P-45021/2/2017-B.E.-II dated 15.06.2017</p> <p>(ii) Department of Industrial Policy &amp; Promotion (DIPP) Order No. P-45021/2/2017-PP (BE-II) dated 28.05.2018</p> <p>(iii) Gazette No. 18-10/2017-IP dated 31st August 2021</p> <p>IISER Tirupati reserves the rights to check that the models quoted are currently being manufactured at the OEM own facilities for manufacturing, design and IPR's held in the name of OEM's name and may ask for any supportive documents for verifying the claims.</p> |
| 5 | <p>The Camera OEM should be registered directly or through Joint Venture (JV) in India</p>  |

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| 6 | <p>An undertaking from the OEM needs to be submitted that the Mac ID has not been manipulated in the product.</p> <p>The OEM of CCTV cameras/NVR selected, should have the MAC addresses (of all makes and models of IP CCTV quoted for this tender) registered in the name of the OEM. The MAC address should not be in the name of any 3rd party. The MAC address of all cameras should not be registered in the name of any 3rd Party/ company or any entity sharing land border with India until unless specifically allowed by the Government of India.</p> <p>The MAC address of the IP cameras must be registered in the name of quoted OEM product. The category of registration of Mac ID should be under category MA-L Only. Registration under MA-S, MA-M of Mac ID will be rejected.</p> <p>The same will be checked on :<br/><a href="https://regauth.standards.ieee.org/standards-ra-web/pub/view.html#registries">https://regauth.standards.ieee.org/standards-ra-web/pub/view.html#registries</a></p> <p>The Mac address should be registered in the name of the OEM as main applicant. Sub application of Mac under 3rd party name is not allowed</p> |
| 7 | <p>The OEM should have atleast ISO9001:2008 and ISO14001:2004 for its manufacturing process. All relevant documents should be attached with the bid.</p>   |
| 8 | <p>Bidders while selecting OEMs of equipments, Hardware and Software (proposed to be supplied against this tender) to ensure such OEMs are not suspended by ONVIF, even though the products of the OEMs may still appear on the ONVIF website. The OEMs selected should also not get 3rd party manufacturing (like branding and reselling in India through importer/trader/domestic supplier etc.) done from any OEMs that are suspended by ONVIF.</p>   |
| 9 | <p>The work of Video Surveillance and Security(VSS) is very sensitive in nature and being in the interest of national security, for ensuring protection against hacking and other types of threats and vulnerabilities for vital equipments like IP cameras, Edge devices, Servers, Storages, Datacom equipments etc. the bidders while selecting OEMs of equipments and hardware (proposed to be supplied against this tender) are NOT to quote those products and/or OEMs or any company sourcing from these OEMs which are suspected to have clandestinely embedded spyware/malicious code either in embedded form or in application software to hack or intercept data including video footages and intrude into the VSS. Bidder needs to submit Malicious software declaration from OEM. In this context the bidders are requested to refer advisories of bodies like CERT-IN and also reports published in various international media, technical journals, trusted websites etc. The</p>  |

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| 10 | <b>All OEM to give an affidavit declaring that they are not supplying any equipment that has been manufactured by 3rd party that is Blacklisted by any Government Department in India or any Government Globally as per GFR2017 Clause 144 (xi) and neither do they get the products manufactured from any of the above companies, else they are liable to be disqualified irrespective of the models offered.</b> |   |
| 11 | Any OEM or JV which has a stake from any company that is Blacklisted by any Government Department in India or any Government Globally as per GFR2017 section 144 (xi) or have any directors who have are or in the previous past been on the board of such companies are liable to be disqualified.  |   |
| 12 | Any OEM/JV despite manufacturing in India, who has a holding/stake from any Advisory Government ( from a country sharing land border with India ) directly or indirectly will be out rightly rejected.   |   |
|    | <b>For IP Cameras</b>  |   |
| 1  | b) The MAC address of the IP cameras must be registered in the name of OEM directly.   | Self-declaration on the letter head of the OEM signed by Authorized signatory.  |
|    | The bidder should have successfully installed and comissioned atleast one project for any central government/ state government or any central/state PSU or Indian Airports(domestic / International)with 150 cameras along with VMS  | Copy of completion certificate from end client.   |
|    | ONVIF Compliance and SDK:<br>All Cameras should be ONVIF S standard compliant and provide SDK for integration of features as per requirements specified in the RFP   | Self-declaration on the letter head of the OEM signed by Authorized signatory and undertaking to provide SDK for the offered products.. |

|  |  |   |
|--|--|---|
|  | <p>Blacklisting / Banned / Debarred: The OEM shall not be under a declaration of ineligibility for corrupt or fraudulent practices and should not be blacklisted / banned / debarred by any State Govt./Central Govt./PSU in India or abroad for any reason.</p> | <p>Self-declaration on the letter head by the OEM,duly signed by the authorized signatory</p>   |
|  | <p>Source Code for Firmware and VMS shall be available with the camera OEM and that the camera models quoted under Make in India are currently under production and are being manufactured in the OEMs Own Factory</p>   | <p>OEM to give an affidavit that they have the source code of the VMS and firmware of the cameras and that the quoted models being quoted under Make in India are currently manufactured at their manufacturing facility which may be cross verified by IISER if required. Alternately, the make in India manufacturers of the CCTV cameras (directly – or through their authorized representatives) can quote a third party VMS application with AI analytics platform. In such a case the OEM is required to give a self-declaration that they have the source code for firmware of the cameras. Regarding the conditions for eligibility of the VMS software and AI analytics platform, kindly refer the relevant section of the tender document. It may be kindly noted that if a bidder has offered 3rd party VMS application with AI analytics platform in conjunction with make in India surveillance cameras, the eligibility of class I or class II local supplier shall be determined on the basis of the entire BoQ of solution offered.</p> |
| <b>For Video Management System (VMS)</b> |  |   |
|  | <p>a. The Proposed Software OEM of VMS should be well proven and should be of the same make as the camera</p>  | <p>Self-declaration on the letter head of the OEM signed by Authorized Signatory that the OEM of the VMS and the Camera is the same with undertaking of where the Source Code of software resides</p>   |
|  | OR   | OR  |

|   |  |  |
|---|--|--|
|   | <p>Incase the VMS is not of the same make as the camera, then the OEM should have been registered in India for a minimum period of 3 years ending March 31, 2020 and should have completed at least one video Surveillance Projects in a single City / Town/ Police/ Para Military/ Defense project in India or abroad</p> | <p>ITender Specifications amended to:<br/>In case the VMS OEM is of a different make than the IP camera OEM, then a copy of the work order / contract agreement / completion certificate from client proving completion of at least one Video Surveillance Projects in a single City / Town / Police / Para Military / Defense / Indian Airports (domestic / international) / Reputed Corporate project in India (only for client corporates listed at any Indian stock exchanges) comprising of at-least 1000 IP surveillance cameras integrated over a single VMS instance against a single work / purchase order. Bidders are required to attach copies of relevant documents along with the declaration from the VMS OEM stating that it owns the Intellectual property rights of the software disclosing the country where the Source Code of software resides.</p> |
|   | <p>b. Video Management / Video Analytics software should be ONVIF Compliant</p>  |  |
|   | <p>The Source Code of software CANNOT reside in any country sharing land border with India.</p>  |  |
| <b>For AI based Video Intelligence Platform</b> |  |  |
|   | <p>The Proposed Software OEM of AI should be well proven and should be of the same make as the camera</p>  | <p>Self-declaration on the letter head of the OEM signed by Authorized Signatory that the OEM of the AI and the Camera is the same with undertaking of where the Source Code of software resides</p>   |
|   | OR   | OR   |
|   | <p>Incase the AI is not of the same make as the camera, then the OEM should have been registered in India for a minimum period of 3 years ending March 31, 2020 and should have completed at least one video Surveillance Projects in a single City / Town/ Police/ Para Military/ Defense project in India or abroad</p>  | <p>Incase the AI OEM is of a different make than the camera OEM, then a copy of the work order / contract agreement / completion certificate from client proving completion of at least one video Surveillance Projects in a single Police/ Para Military project in India or abroad comprising of atleast 100 cameras with proof of where the Source Code of software resides</p>   |
|   | <p>The Source Code of software CANNOT reside in any country sharing land border with India.</p>  |  |

### Chapter 1

#### INVITATION FOR Tender Offers

1. Indian Institute of Science Education and Research (IISER), Tirupati invites e-Tender for Supply, Installation and Commissioning of Surveillance Cameras at IISERT Tirupati Main Campus Yerpedu. The Bidders are requested to give detailed tender in two Bids i.e.
  - a. **Part - I: Technical Bid.**
  - b. **Part - II: Commercial Bid.**
2. In view of Covid-19, IISER Tirupati will be conducting a Pre-bid conference through Google Meet on. 04/01/2022 from 03:00 PM to 04:00 PM (IST). All prospective bidders are requested to kindly send their queries through email at [purchase@iisertirupati.ac.in](mailto:purchase@iisertirupati.ac.in) so as to reach latest by 03/01/2022. Clarifications to all the queries received before the due date will be given during the Pre-Bid Meeting and only the queries which remain unclarified (or) the queries which have an impact on the change in technical specifications will be mentioned in the minutes of the pre-bid meeting and the same will be uploaded on our website and CPPP portal. No queries will be entertained after the Pre-bid meeting. In the event of all queries received being clarified during the pre-bid & if there are no changes in the technical specifications then nil report will be uploaded in the website and CPPP portal.

The Google Meet id will be personally sent via email to the vendors interested in attending the Pre-Bid conference upon their request. Vendors interested must send a request for access to Pre-Bid conference at [purchase@iisertirupati.ac.in](mailto:purchase@iisertirupati.ac.in). Bidder attending Pre-Bid conference via Google Meet must ensure of active and uninterrupted high speed internet connection with a working microphone and camera from their end. In case of frequent disconnection (or) bad connection, IISER Tirupati will not be responsible for the same and no further correspondence will be entertained post the date of Pre-Bid meeting.

#### **TIME SCHEDULE**

| Sr. No | Particulars                                   | Date       | Time       |
|--------|---|------------|------------|
| 1      | Date of Online Publication/Download of Tender | 24/12/2021 | 18:50 Hrs. |
| 2      | Pre-Bid Meeting via Google Meet               | 04/01/2022 | 15:00 Hrs. |
| 3      | Bid Submission Start Date                     | 08/01/2022 | 15:00 Hrs. |
| 4      | Bid Submission Close Date                     | 24/01/2022 | 15:00 Hrs. |
| 5      | Opening of Technical Bids                     | 25/01/2022 | 15:30 Hrs. |

Supply means: "Supply, Installation, Commissioning and satisfactory demonstration of the whole system and training". If any charges extra are payable for Installation, Commissioning and training, the same should be specified in the commercial offer



### 3. **AVAILABILITY OF TENDER:**

The tender document can be downloaded from <http://eprocure.gov.in/eprocure/app> and be submitted only through the same website.

#### **Technical Bid:**

1. The online envelope clearly marked as "Technical Bid - Envelope No. 1" shall contain the all scanned copies of originals documents in PDF Format.
  - a) Compliance statement/questionnaire of tender terms and conditions as per Annexure-'A'.
  - b) Compliance statement of specifications as per Annexure- 'B'.
  - c) Manufacturer authorization as per Annexure -'C'.
  - d) Bid Security Declaration as per Annexure- 'D'.
  - e) Previous Supply Order List Format as per Annexure -'E'.
  - f) Bidder Information Form as per Annexure -'F'.
  - g) Blacklist Certificate as per Annexure -'G'.
  - h) Certificate By Bidder- DPIIT Registration Annexure -'H'.
  - i) Self-declaration by the bidder as per that the items offered meet the local/non local content requirement in pursuance of public procurement preference to make in India, order 2017 (please tick appropriate option Annexure - 'I'
  - j) No Relationship Certificate Annexure -'J'.
  - k) Annual Maintenance Contract - ANNEXURE-K
  - l) UNDERTAKING FOR SUBMISSION OF PERFORMANCE BANK GUARANTEE ANNEXURE-L
  - m) Pre-contract Integrity Pact -'M'
  - n) Acceptance of Tender Terms Annexure- 'N'
  - o) Solvency certificates for Rs. 66, 00,000.00 - (Sixty-Six Lakh) not older than twelve months) issued by Scheduled/Nationalized bank with which BIDDER holds the current account.
  - p) Copy of GST No. and PAN No. allotted by the concerned authorities. If registered with the National Small Industries Corporation, the registration number, purpose of registration and the validity period of registration and a copy of DGS&D registration wherever it is applicable should also be provided in Technical Bid.
  - q) A Well-defined and described solution document in adherence to the technical specifications documented in this tender along with technical literature/ leaflets and complete specifications of quoted model(s) along with commercial terms and conditions
  - r) In case of exemption from submission of Bid security, proof of registration with NSIC/MSME.

- s) Details of supplies of similar Works, along with photocopies of previous Purchase orders and details of place of supply along with contact details.
- t) Please quote the specific model number catalogue number with detailed description of the item quoted.
- u) Also Attached the technical literature brochure of the quoted items.
- v) Scanned copy of Tender Fee and it is required to submit the same in original in a sealed envelope at the following address (in case of vendor opts for manual tender fee

Assistant Registrar (stores & Purchase)

Indian Institute of Science Education and Research (IISER), Tirupati

Transit campus: C/o Sree Rama Engineering College Campus, Rami Reddy  
Nagar Karakambadi Road, Mangalam (B.O), Tirupati - 517 507

Email: [purchase@iisertirupati.ac.in](mailto:purchase@iisertirupati.ac.in) Ph:0877 2500 234/235

Website: <http://www.iisertirupati.ac.in/>

### **TENDER FEE :**

- a) **Tender Fee of Rs. 1,000/- (One Thousand only)** in the form of Demand Draft from Nationalized/scheduled bank in favor of The Director, IISER Tirupati. The firm registered with NSIC/MSME as manufacturer for the supply of the same category of item for which the party is submitting quotation will be exempted from submission of FEE.

4. The technical offer **should not contain any price information.**

### **5. Technical Specifications:**

- i. Time & Specifications are the basic essence of the contract. It must be ensured that the offers must be strictly as per the tender specifications and must strictly adhere to the project/delivery timelines. At the same time, it must be kept in mind that merely copying our specifications in the quotation shall not make the parties eligible for consideration of the quotation.
- ii. A quotation has to be supported with the printed technical leaflet/literature of the quoted model of the item by the quoting party/manufacturer and the specifications mentioned in the quotation must be reflected /supported by the printed technical leaflet/literature. Therefore, the model quoted invariably be highlighted in the leaflet/literature enclosed with the quotation.
- iii. The Technical bid should not contain any price information (or) anything related to Financial Bid. Any mention of commercials/prices in the technical bid shall lead to disqualification of the tender and shall not be considered for further evaluation process.
- iv. Non-compliance of the above shall be treated as incomplete/ambiguous bid and the bid will be ignored/rejected without giving an opportunity for clarification/negotiation etc. to the bidder.

### 6. **Compliance Statements:**

- i. Bidders must furnish a Compliance Statement of each and every required Specification of our tender in the format at ANNEXURE-‘B’. The deviations, if any, from the tendered specifications should be clearly brought out in the statement. Technical literature/leaflet showing the compliance of the specification may also be attached with the quotation.
- ii. Similarly, the Compliance Statement/questionnaire for Terms & Conditions of the tender may be furnished, as per the enclosed format at Annexure –‘A’, along with quotation (with techno- commercial bid in case of two bid tender system).
- iii. The firms are advised to submit both the compliance statements essentially along with their quotation failing which their offer may not be considered.

### **Envelope 2: “Commercial Bid” shall contain:**

- i. Cost of all the items should be mentioned clearly and individually in the Commercial Offer (Part-II) only.
- ii. The BIDDERS are requested to quote for Educational Institutional Price for Equipment and software, since we are eligible for the same.
- iii. The prices should be shown against each item for the purpose of Insurance claims / replacements if any.
- iv. List of deliverables / Bill of materials and services.

### **Note:**

- (i) No request for extension of due date will be considered under any circumstances.
  - (ii) No sub-contracting is allowed with regard to installation, commissioning, training, warranty maintenance and after sales service. This is the sole responsibility of the Principals’/their authorized agents
7. IISER Tirupati may issue corrigendum to tender documents before due date of Submission of bid. The bidder is required to read the tender documents in conjunction with the corrigendum, if any, issued by IISER Tirupati. The bidder is not supposed to incorporate the amendment in the body of the tender document

### **8. BID OPENING AND EVALUATION PROCESS**

- a. Technical Bids will be opened on 25-01- 2022 at 03:30 PM.

- b. Financial Bids of the eligible bidders will be opened on a later date. The date and time for opening of Financial Bids will be announced later.
- c. Bids would be summarily rejected, if tender is submitted other than through online or **original tender fee is not submitted within stipulated date / time**. IISER Tirupati shall not be responsible for any postal delay, Tender Fee before Tender closing date.

### **9. Terms of the Technical Committee**

- i. On the due date the Technical bids will be opened and referred to the Technical Committee which is duly constituted by the Director, IISER Tirupati. The committee will go through the technical aspects of the tender and recommend short listed firms. The recommendation of the technical committee is the final and binding on all the parties.
- ii. The technical evaluation will be an assessment of the Technical Bid. IISER, Tirupati representatives will proceed through a detailed evaluation of the Technical Bids as defined in **Chapter IV (Schedule of requirements, specifications and allied technical details)**, in order to determine whether they are substantially responsive to the requirements set forth in the tender. In order to reach such a determination, IISER, Tirupati will examine the information supplied by the BIDDERS, and shall evaluate the same as per the specifications mentioned in this tender.
- iii. The technical committee may formulate evaluation criteria in addition to the specifications and requirements indicated in the tender, in the interest of IISER, Tirupati and these criteria/recommendation will also form as a part of short-listing of the firms.
- iv. The Technical Committee will examine all the Technical aspects of the bids received. Further, the Technical Committee may seek additional information from the existing users at IISER, Tirupati or from other Institutes and also call for Technical presentations from the BIDDERS if it is required so.
- v. The information received and the bids already submitted together will be examined with reference to the tendered specifications and evaluation is made by the Technical Committee.
- vi. After the technical evaluation is completed and approved, IISER, Tirupati shall inform to the BIDDERS whose bids have been rejected technically with the reasons for rejection on e-Procurement Portal (<https://eprocure.gov.in/eprocure/app>).
- vii. The successful BIDDERS will be informed regarding the date and time of Commercial bid opening.

- viii. In the event of seeking any clarification from various BIDDERS by IISER, Tirupati, the BIDDERS are required to furnish only technical clarifications that are asked for. No amendment to commercial bid will be entertained at that stage. In case if a BIDDER fails to quote for a particular item it amounts to non-compliance and hence such bid will not be considered for further evaluation. Further during this process if any BIDDER indicates the price during the clarification such bids also will not be considered for further evaluation.
- ix. The purpose of obtaining two bids (technical and commercial) is to evaluate all the firms on technical basis with reference to the tendered specifications, performance of similar Solutions/Applications elsewhere, obtaining users views with reference to the earlier supplies. This will enable the technical committee to arrive at a fair recommendation in the interest of the organization.
- x. The Institute may call for Technical Presentation/mock-up/demo of the product as a part of the technical evaluation by giving sufficient time for the bidders to make arrangements for the same.

#### **10. Commercial Bid Evaluation:**

Based on results of the Technical evaluation IISER, Tirupati evaluates the Commercial Bid of those Bidders who qualify in the Technical evaluation.

- a) IISER Tirupati shall correct arithmetical errors on the following basis:
  - i. If there is a discrepancy between the unit price and the line item total that is obtained by multiplying the unit price by the quantity, the unit price shall prevail and the line item total shall be corrected, unless in the opinion of the Purchaser there is an obvious misplacement of the decimal point in the unit price, in which case the line item total as quoted shall govern and the unit price shall be corrected.
  - ii. If there is an error in a total corresponding to the addition or subtraction of subtotals, the subtotals shall prevail and the total shall be corrected; and
  - iii. If there is a discrepancy between words & figures, the amount in words shall prevail, unless the amount expressed in words is related to an arithmetic error, in which case the amount in figures shall prevail subject to (i) and (ii) above.
- b) After arriving at final pricing of individual offers of all the short listed firms, the lowest firm will be awarded with Contract/Purchase Order.
- c) If there are any discrepancies in price schedule and tender document please refer to the BOQ in the Central Public Procurement Portal, the BOQ item/words/conditions mentioned in BOQ prevails



## भारतीय विज्ञान शिक्षा एवं अनुसंधान संस्थान तिरुपति

### INDIAN INSTITUTE OF SCIENCE EDUCATION AND RESEARCH TIRUPATI

Transit campus: Sree Rama Engineering College Campus, Rami Reddy Nagar,  
Karakambadi Road, Mangalam (B.O), Tirupati - 517 507  
Website: <http://www.iisertirupati.ac.in/>

11. The Director, IISER, TIRUPATI reserves the right to accept the offer in full or in parts or reject summarily or partly.
12. The relatives / near relatives of employees of the client are prohibited from participation in this bid.  
The near relatives for this purpose are defined as:
  - a. Members of a Hindu Undivided Family.
  - b. Their husband or wife.
  - c. The one is related to the other in the manner as father, mother, son(s), son's wife (daughter-in-law), daughter(s) & daughter's husband (son-in-law), brother(s) & brother's wife, sister(s) and sister's husband (brother-in-law).
13. **Unloading: In Case of Equipment unloading at IISER Tirupati will be under supplier scope**

## **CHAPTER-2: INSTRUCTIONS TO BIDDERS**

### **1. PREPARATION AND SUBMISSION OF OFFERS:**

- a. Quotation should be submitted directly by the original manufacturer/supplier or its sole authorized distributor/dealer/Indian Agent. In case of bid by authorized dealer/distributor/Indian Agent, the manufacturer authorization should be attached with the technical bid as per **Annexure-‘C’**.

**One Indian Agent can participate in a tender on behalf of one manufacturer only. No offer will be entertained if the same Indian Agent is representing another manufacturer for the same item. Bids from only one authorized distributor/retailer/reseller will be entertained, who has authorization from the company to quote for this tender. Multiple bids from various distributors from the same manufacturer will not be entertained & the company / principle providing multiple authorizations will be rejected from the tender.**

- b. In case a bidder is not doing business within India, it shall furnish the certificate to the effect that the bidder is or will be represented by an agent in India equipped and able to carry out the supply, maintenance, repair obligations etc. during the warranty and post-warranty period or ensure a mechanism at place for carrying out the supply, maintenance, repair obligations etc. during the warranty and post-warranty period.
- c. The bidder shall bear all costs associated with the preparation and submission of its bid irrespective of the conduct or outcome of the bidding process.
- d. The bidder should not indulge in any corrupt, fraudulent, collusive, coercive practices during the entire process of procurement and execution of contract/order. Before the deadline for submission of the bid, IISER TIRUPATI reserves the right to modify the bidding document and to extend or not to extend the date of submission. Such amendment/modification will be hosted on e-Procurement portal (<https://eprocure.gov.in/eprocure/app> ) or on IISER TIRUPATI website.
- e. Conditional tenders will be summarily rejected.
- f. The Authorization Certificate from the OEM on their letter head must be given clearly authorizing the bidder as their representative for this tender. The details of the tender like the tender number, date and name of the Institute must be clearly mentioned by the OEM in its authorization letter given for submission to the bidder. Failure to submission of this document (or) improper/incomplete/any generic (or) vague documents shall lead to rejection of the bid.

### 2. Delivery Period / Timeliness:

The deliveries & installation must be completed **within 60 days** after placement of purchase order. The time is the essence of the contract. It is mandatory for the BIDDERS who respond to this bid to meet these expectations, as are tightly linked to IISER, TIRUPATI's plans of completing the project within the time frame.

### 3. Security Deposit:

- a. Within ten (10) days of the award of contract, the vendor shall furnish a Security Deposit amounting to 3% of the purchase order value in the form of Demand Draft/Bank Guarantee (**from scheduled Bank only**) favoring the Director, Indian Institute of Science Education and Research, Tirupati.
- b. The IISER will forfeit the 3% security deposit if vendor fails to execute the order as per the Purchase Order. This Security Deposit will be refunded to the vendor only on successful installation of the EQUIPMENT / SYSTEM.
- c. The Security Deposit should be valid for a period of warranty period as we plan to extend the same as Performance Bank Guarantee.
- d. **Bank Guarantee wherever mentioned in this document may be read as "Bank Guarantee from any Scheduled Bank" only.**

### 4. Amalgamation/Acquisition etc.:

In the event the Manufacturer/Supplier proposes for amalgamation, acquisition or sale of its business to any firm during the contract period, the BUYER/Successor of the Principal Company are liable for execution of the contract and also fulfillment of contractual obligations i.e. supply, installation, commissioning, warranty, maintenance/replacement of spares accessories etc. while submitting your bid, you may confirm this condition.

### 5. Bid Validity Period:

- a. The prices must be valid at least for a period of **180 days** from the date of opening of the Tender. No changes in prices will be acceptable in any condition after opening of tender till the validity of the offer or execution of the order whichever is later
- b. Bid evaluation will be based on the bid prices without taking into consideration the above corrections.

### 6. AWARD OF CONTRACT:

- a. IISER, TIRUPATI shall award the contract to the technically qualified eligible BIDDER whose bid has been determined as the lowest evaluated commercial bid.



- b. If more than one BIDDER happens to quote the same lowest price, IISER, TIRUPATI reserves the right to award the contract to more than one BIDDER or any BIDDER.

7. **IISER Tirupati Right to vary Quantities at the time of Award:**

- a. The IISER Tirupati reserves the right at the time of Contract award to increase or decrease the quantity of goods and services originally specified in the tender document without any change in unit price or other terms and conditions. Further, at the discretion of the IISER Tirupati, the quantities in the contract may be enhanced by 25% within the delivery period.
- b. Firms which have already supplied similar equipment to IISER, TIRUPATI and have not completed required installation/commissioning/after sales service/warranty replacements etc. such firms offer will not be considered for further evaluation and no enquiries thereafter will be entertained.

8. **Cargo Consolidation and Customs Clearance:**

IISER, TIRUPATI has appointed its own Freight Forwarder and Custom House Agent for all IISER, imports. Please note that all the consignments have to be routed through their associates only. The address and contact details will be provided at the time of placing the Purchase Order. While submitting your bid, you may confirm this condition.

9. **Fraud and Corruption:**

The IISER Tirupati requires that bidders, suppliers, contractors and consultants, if any, observe the highest standard of ethics during the procurement and execution of such contracts. In pursuit of this policy,

- a. The terms set forth below are defined as follows:
  - i. **“Corrupt practice”** means the offering, giving, receiving, or soliciting, directly or in directly, of anything of value to influence the action of a public official in the procurement process or in contract execution;
  - ii. **“Fraudulent practice”** means a misrepresentation or omission of facts in order to influence a procurement process or the execution of a contract;
  - iii. **“Collusive practice”** means a scheme or arrangement between two or more bidders, designed to establish bid prices at artificial, noncompetitive levels; and
  - iv. **Coercive practice”** means harming or threatening to harm, directly or indirectly, persons or their property to influence their participation in the procurement process or affect the execution of a contract;



## भारतीय विज्ञान शिक्षा एवं अनुसंधान संस्थान तिरुपति

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- b. The IISER Tirupati will reject a proposal for award if it determines that Bidder recommended for award has, directly or through an agent, engaged in corrupt, fraudulent collusive or coercive practices in competing for the Contract in question

### **10. Interpretation of the clauses in the Tender Document / Contract Document**

In case of any ambiguity / dispute in the interpretation of any of the clauses in this Tender Document, **Director, IISER, TIRUPATI's interpretation of the clauses shall be final and binding on all parties.**

### **CHAPTER - 3 : CONDITIONS OF CONTRAC**

#### **1. Prices:**

Bid prices should be filled in the appropriate format as mentioned in Price Schedule. ALL THE BIDDERS SHOULD QUOTE PRICES FOR EACH AND EVERY ITEM SEPERATELY ALONG WITH THE CONSOLIDATED PRICES APPLICABLE FOR BOTH INDIGENOUS AND IMPORTED ITEMS (if any).

#### **2. For Goods manufactured in India:**

- (i) The price of the goods must be as per the BoQ.
- (ii) In case of BoQ requesting for prices without GST. GST will be paid as per the norms. In the case of BoQ requesting for prices with GST and the bidder quoting without GST, the price quoted by the bidder shall be considered as with GST as per the BoQ and the bidder must be able to supply at the same rate mentioned in the BoQ. No request for additional charges apart from those mentioned in BoQ shall be entertained.
- (iii) The price mentioned in BoQ must be inclusive of transportation, Insurance, loading and unloading and any other local service required for delivering the goods for the desired destination as decided by the IISER Tirupati. Loading and unloading is strictly in the scope of the bidder. IISER Tirupati will not provide any manpower/equipment support towards the same. The bidder must ensure all logistics, manpower support, machine and equipment's required (if any) for delivering and installing the equipment at the determined location as informed by the Institute.
- (iv) The installation, commissioning and training charges (If any) must be mentioned as per the BoQ (if requested separately in BoQ) else the price quoted will be taken as inclusive of installation, commissioning and training.
- (v) The institute will not be responsible in case of the bidders failing to include any of the above mentioned prices in their bid. The price mentioned in the BoQ will be final and the bidder has to comply with that, if awarded the tender.
- (vi) **UNLOADING OF THE GOODS AT IISER TIRUPATI IS STRICTLY IN THE SCOPE OF THE BIDDER. NO MANPOWER WILL BE PROVIDED BY IISER TIRUPATI.**
- (vii) The goods must be disinfected properly before dispatching.
- (viii) A representative of the successful bidder must be available during the delivery at the Institute & must disinfectant the boxes before delivering again. In case the travel time from dispatch to reach IISER more than 48 hours.
- (ix) Any financial implication leading to any change deviation from the bid submitted shall be borne by the bidder, of accepting by the Institute.

3. **Agency Commission & Services:**

- 3.1. The Indian Agency commission payable in Indian currency only after the receipt of consignment in good condition at our Stores and satisfactory installation and commissioning of the ordered equipment.
- 3.2. Details of services rendered by you as well as after-sales services offered by you are to be made clear in the tender.

4. **Performance Bank Guarantee:**

The 3% Security Deposit which is mentioned above may be extended as Performance Bank Guarantee for a period of warranty period.

5. **Performance Benchmarks:**

The technical evaluation committee needs to be provided with an evaluation system to carry out performance benchmarks.

6. **Pre-installation:**

The BIDDER has to state in detail the Electrical Power/UPS requirements, floor Space, head room, foundation needed and also to state whether Air-conditioned environment is needed to house the system and to run the tests. i.e. pre-installation facilities required for installation may please be intimated in the technical bid. Subsequently, before the consignment lands in IISER, Tirupati the BIDDER shall confirm that the pre-installation requirements are sufficient for installation of the equipment. In other words, the BIDDER should continuously monitor the pre-installation requirements and see that everything is ready before the consignment is taken to the site for installation. Bidders should also bring sufficient technical manpower for verification of pre-installation pre-requisites any requirement mentioned after the arrival of equipment to IISER Tirupati which may lead to delay in installation may lead to levy of penalty as decided by the institute.

7. **INSTALLATION:**

- i. BIDDER shall be responsible for installation / demonstration wherever applicable and for after sales service during the warranty and thereafter.
- ii. Installation demonstration to be arranged by the supplier free of cost and the same is to be done within 15 days of the arrival of the equipment at site, unless otherwise instructed by the Institute, failing which a penalty of INR 500 per day from the day of actual installation requested by the Institute till the date of installation done by the bidder shall be levied.
- iii. After successful installation what will be the minimum down time of equipment/instrument in case of breakdown. If the identified firm or person fails to put the system into working condition what is the further alternative course of action suggested by you to adhere to minimum down time.
- iv. Sufficient technical manpower and housekeeping manpower must be arranged by the bidder at the time of installation and unloading of the equipment/goods.

8. **INSPECTION:**

- i. The inspection of the system will be done by our technical expert /Scientist in the presence of firm's representative.
- ii. In case of receipt of the material in short supply or damaged condition, the supplier will have to arrange the supplies/ replacement of goods free of cost pending the settlement of the insurance case wherever applicable on FOR at the IISER Tirupati, the institute till satisfactory installation of the system, with in the stipulated time as decided by the Institute failing which penalty 1% of the total order value per week will be levied.

9. **Training:**

Wherever needed, our Scientist/Technical persons should be trained by the supplier at the project site free of cost. In case the person is to be trained at supplier's site abroad or in India it should be mentioned in the quotation clearly. The supplier should bear all the expenses for such training including 'to & from' fares and lodging & boarding charges.

10. **Warranty / Support:** A clear confirmation on letter head should be given for this item along with acceptance to the points mentioned below: -

- a) The items covered by the schedule of requirement shall carry minimum Three years of comprehensive warranty from the date of acceptance of the equipment by IISER Tirupati. Warranty shall include free maintenance of the whole equipment supplied including free replacement of parts. The defects, if any, shall be attended to on immediate basis but in no case any defect should prolong for more than 24 hours. The comprehensive warranty includes onsite warranty with parts. The defects, if any, shall be attended to on immediate basis but in no case any defect should prolong for more than 24 hours, failing which penalty INR 5000 per day would be levied and same shall be deducted from Performance Bank Guarantee. The same has to be accepted by the bidder and acceptance for the same has to be mentioned on the letter head in the technical bid.
- b) The turnaround time for resolving of any issue in case of indigenous bidders is 15 days and in case of import is 30 days from the date of intimation by the institute. Any delay in resolving the issue beyond the stipulated period mentioned above shall lead to extension of warranty period and forfeiture of the PBG.
- c) The defects, if any, during the guarantee/warranty period are to be rectified free of charge by arranging free replacement wherever necessary. This includes cost, insurance, freight, custom duty, local taxes if any should be borne by the beneficiary or his agent. No cost will be borne by IISER Tirupati.
- d) The warranty on the associated software should cover providing of upgraded version/s, if any, released during the warranty period free of cost. The turnaround time for resolving of any issue in case of indigenous bidders 15 days and in case of

import is 30 days from the date of intimation from institute via e-mail any delay in resolving the issue will lead to forfeiture of their PBG. The delay in resolving the issue beyond the stipulated period mentioned above shall lead to extension of warranty period.

- e) The BIDDER shall assure the supply of spare parts even the completion of after warranty period maintenance of the equipment supplied if and when required for a period of 10 years from the date of supply of equipment on payment on approved price list basis.
- f) The equipment must be supported by a Service Centre in Andhra Pradesh manned by the principal vendor's technical support engineers. The support through this Centre must be available 24 hours in a day, seven days a week and 365 days a year. Also it should be possible to contact the Principal's/Head office support Centre on a toll free number/web/mail.
- g) An undertaking from the manufacturer is required in this regard stating that they would facilitate the BIDDER on regular basis with technology / product updates & extend support for the warranty as well is to be submitted also mentioning the life of the equipment as mentioned in point (iv) alone.
- h) The vendor will have to arrange for all the testing equipment & tools required for installation, testing & maintenance etc.
- i) It is desirable that the vendor may have a local logistics support by maintaining a local spares depot in the state. This is to ensure immediate delivery of spares parts in case of any malfunction of the equipment.
- j) Details of onsite warranty, agency who shall maintain during warranty and undertake Annual Maintenance Contract/Comprehensive Service Maintenance Contract beyond warranty shall be given in the offer. In case of foreign quote, the Indian Agent who shall maintain during warranty and AMC beyond warranty shall be given in the Technical Offer
- k) **COMMENCEMENT OF WARRANTY PERIOD:** The warranty period of an item shall commence from the date of successful installation, commissioning and demonstration at IISER Tirupati. The warranty period and validity of Performance Guarantee shall be extended for the period of delay in satisfactory installation and delay in warranty services.

### 11. **Reasonability of Prices:**

- i) The prices quoted must be the prices applicable for a premiere Educational and Research Institute in national importance, as applicable to educational research institutes must be given.

- ii) The bidder must give details of identical or similar equipment, if any, supplied to any Centrally Funded Technical Institutes CFTI's/IISERS/ CSIR lab/Education Research Institute during last three years along with the final price paid and Performance certificate from them.

12. **Annual Maintenance Contract:**

12.1. The party must mention in the quotation, the rate/amount of annual maintenance charges, if we opt for maintenance contract after expiry of the warranty period. This is mandatory to mention, wherever applicable.

- a. No sub-contracting will be allowed for installation or maintaining system/ equipment / instrument during or after warranty period.

13. **Indemnity:**

The vendor shall indemnify, protect and save IISER, TIRUPATI against all claims, losses, costs, damages, expenses, action suits and other proceeding, resulting from infringement of any law pertaining to patent, trademarks, copyrights etc. or such other statutory infringements in respect of all the equipment's supplied by him.

14. **Freight & Insurance:**

14.1. Indigenous : The equipment's to be supplied will be insured by the vendor against all risks of loss or damage from the date of shipment till such time it is delivered at IISER, TIRUPATI site in case of Rupee transaction.

15. **Payment:**

- a. For Indigenous items, 90% payment shall be made against delivery, installation, commissioning and balance 10% on demonstration of the whole system to the satisfaction of the Institute/ Scientist/Technologist/Indentor/Professor etc.
- b. If the PBG submitted as per Chapter 2 Clause No 3, requires extension to cover the Warranty Period the same will be done before release of the balance 10% Payment. Please note that the warranty period will be extended in case of non-resolving of issues in a stipulated time given by the institute as mentioned above.
- c. No advance payments are allowed under any circumstances

16. **Penalty for delayed Services / LD:**

16.1. As time is the essence of the contract, Delivery period mentioned in the Purchase Order should be strictly adhered to. Failing which the Institute will forfeit PBG/SD and also LD clause will be applicable /enforced.

16.2. If the supplier fails to Supply, Install and Commission the system as per specifications mentioned in the order within the due date, the Supplier is liable to pay liquidated damages of 1% of order value per every week of delay subject to a maximum of 10% beyond the due date. Such money will

be deducted from any amount due or which may become due to the supplier.

16.3. IISER, TIRUPATI reserves the right to cancel the order in case the delay is more than 10 weeks. Penalties, if any, will be deducted from the Security Deposit.

17. **Jurisdiction:**

The disputes, legal matters, court matters, if any, shall be subject to Tirupati Jurisdiction only.

18. **Force Majeure:**

IISER Tirupati may consider relaxing the penalty and delivery requirements, as specified in this document, if and to the extent that the delay in performance or other failure to perform its obligations under the Contract, is the result of a Force Majeure. Force Majeure is defined as an event of effect that cannot reasonably be anticipated such as acts of God (like earthquakes, floods, storms etc.) acts of states, the direct and indirect consequences of wars (declared or undeclared) hostilities, national emergencies, civil commotion and strikes at successful Bidder's premises. The bidder will immediately notify the IISER Tirupati by reasonable detail of the Force Majeure Event. If a Force Majeure Event continues for more than 30 days, the Institute may cancel the purchase order issued, without liability.

19. **Discrepancies**

If there are any discrepancies in price schedule and tender document please refer to the BOQ in the Central Public Procurement Portal, the BOQ item/words/conditions mentioned in BOQ prevails.

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

This Institute is following and abide with the Public Procurement (Preference to Make in India), Order 2017, DIPP, MoCI Order No. P-45021/2/2017-B.E.II dated 15th June 2017 and subsequent amendments to the order. Accordingly, preference will be given to the Make in India products while evaluating the bids, subject to technically qualifying & meeting the Institute's technical requirements. however, it is the sole responsibility of the bidder(s) to specify the product quoted by them is of Make in India product along with respective documentary evidence as stipulated in the aforesaid order and the quality as mentioned in the tender in the technical bid itself.

a) IISER Tirupati shall compare all substantially responsive bids to determine the lowest valuated bid. This Institute is following and abide with the Public Procurement (Preference to Make in India), Order 2017, DIPP, MoCI Order No. P-45021/2/2017-B.E.II dated 15th June 2017 and its subsequent amendments. Accordingly, preference will be given to the Make in India products while evaluating the bids, however, it is the sole responsibility of



the bidder(s) to specify the product quoted by them is of Make in India product along with respective documentary evidence as stipulated in the aforesaid order in the technical bid itself.

b) As per the above order and its subsequent amendments “Local Content” means the amount of value added in India which shall be value of the item procured (excluding net domestic indirect taxes) minus the value of the imported content in the item (including all the custom duties) as a proportion of the total value, in percent. Accordingly, the suppliers will be classified in following categories.

- i) Class I local Supplier – has local content equal to more than 50%
- ii) Class II local Supplier – has local content more than 20% but less than 50%

**(c) Verification of Local Content:**

The Class I Local Supplier /Class II Local Supplier/Non-Local Supplier at the time of bidding shall be required to indicate the percentage of local content and provide self-certification that the items offered meet the local content requirement. The details of the location(s) at which the local value addition is made also needs to be specified.

In case of procurement in excess of Rs.10 crores, the suppliers shall be required to provide the certificate from the statutory auditor or cost auditor of the company giving the percentage of local content.

**Note:**

In case a complaint is received by the procuring agency or the concerned Ministry/Department against the claim of a bidder regarding local content/ domestic value addition in an electronic product, the same shall be referred to IISER Tirupati and STQC .

Any complaint referred to IISER TIRUPATI shall be disposed of within 4 weeks. The bidder shall be required to furnish the necessary documentation in support of the domestic value addition claimed in an electronic product to IISER TIRUPATI. If no information is furnished by the bidder, such laboratories may take further necessary action, to establish the bonfires of the claim.

A complaint fee of Rs.2 Lakh or 1% of the value of the domestically manufactured electronic products being procured (subject to a maximum of Rs. 5 Lakh), whichever is higher, to be paid by Demand Draft to be deposited with IISER TIRUPATI. In case, the complaint is found to be incorrect, the complaint fee shall be forfeited. In case, the complaint is upheld and found to

be substantially correct, deposited fee of the complainant would be refunded without any interest.

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

**The bidders can be debarred for a period up to two years as, per Rule 151(iii) of GFR 2017, in case of false declaration.**

**21. Requirement of registration:**

Vide Ministry of Finance OM No. 6/18/2019-PPD dated 23rd July 2020.

- i. Any bidder from a country sharing a land border with India will be eligible to bid in this tender only if the bidder is registered with the Department for Promotion of Industry and Internal Trade (DPIIT).
- ii. "Bidder" (including the term 'tenderer', 'consultant' or 'service provider' in certain contexts) means any person or firm or company, including any member of a consortium or joint venture (that is an association of several persons, or firms or companies), every artificial juridical person not falling in any of the descriptions of bidders stated hereinbefore, including any agency branch or office controlled by such person, participating in a procurement process.
- iii. "Bidder from a country which shares a land border with India" for the purpose of this Order means:
  - a) An entity incorporated, established or registered in such a country; or
  - b) A subsidiary of an entity incorporated, established or registered in such a country; or
  - c) An entity substantially controlled through entities incorporated, established or registered in such a country; or
  - d) An entity whose beneficial owner is situated in such a country; or
  - e) An Indian (or other) agent of such an entity; or
  - f) A natural person who is a citizen of such a country; or
  - g) A consortium or joint venture where any member of the consortium or joint venture falls under any of the above

For details about registration procedures please visit the above mentioned OM. Mandatory documentary evidence regarding the

bidder's registration with DPIIT is to be submitted along with the tender, failing which the tender shall be liable for rejection. Bidders are also requested to submit the Model Certificates for this tender as mentioned in the Ministry of Finance OM No. 6/18/2019-PPD dated 23rd July 2020.

**23. Arbitration**

All disputes of any kind arising out of supply, commissioning, acceptance, warranty maintenance etc. shall be referred by either party (IISER, TIRUPATI or the bidder) after issuance of 30 days' notice in writing to the other party clearly mentioning the nature of dispute to a single arbitrator acceptable to both the parties. The venue for arbitration shall be IISER, TIRUPATI India. The jurisdiction of the courts shall be Tirupati, Andhra Pradesh, India.

**24. Dispute Settlement:**

IISER Tirupati and the Supplier shall make every effort to resolve amicably by direct informal negotiation any disagreement or dispute arising between them under or in connection with the Contract.

If, after twenty-one (21) days, the parties have failed to resolve their dispute or difference by such mutual consultation, then either the IISER Tirupati or the Supplier may give notice to the other party of its intention to commence arbitration, as hereinafter provided, as to the matter in dispute, and no arbitration in respect of this matter may be commenced unless such notice is given. Any dispute or difference in respect of which a notice of intention to commence arbitration has been given in accordance with this Clause shall be finally settled by arbitration. Arbitration may be commenced prior to or after delivery of the Goods under the Contract.

The dispute settlement mechanism/arbitration proceedings shall be concluded as under:

In case of Dispute or difference arising between the IISER Tirupati and a domestic supplier relating to any matter arising out of or connected with this agreement, such disputes or difference shall be settled in accordance with the Indian Arbitration & Conciliation Act, 1996, the rules there under and any statutory modifications or re-enactments thereof shall apply to the arbitration proceedings. The dispute shall be referred to the Director IISER Tirupati, if he is unable/ unwilling to act, to the sole arbitration of some other person appointed by his willing to act as such Arbitrator. The award of the arbitrator so appointed shall be final, conclusive and binding on all parties to this order.

The venue of the arbitration shall be the place from where the purchase order or contract is issued.

**Deputy Registrar (A&P)**

### CHAPTER 4 TECHNICAL SPECIFICATIONS

| <b>Specifications for 8 MP Fixed Camera's</b> |   |
|---|---|
| <b>Description</b>                            | <b>Parameter</b>  |
| Image Sensor                                  | 1/ 2.8" CMOS  |
| Scanning Mode                                 | Progressive Scan  |
| Lens Type                                     | Fixed   |
| Focal Length                                  | F=3.3/3.6/4 mm  |
| Aperature                                     | F=2.0 or better   |
| Max Resolution                                | 3840 x 2160   |
| Day and Night                                 | IR Cut Filter with Auto Switch  |
| IR Distance                                   | 20 m / 65.6 Ft or better  |
| Min. Illumination                             | Color: 0.2 Lux @ F 1.8  |
|   | B/W: 0 Lux (IR LED ON)  |
| Dynamic Range                                 | 120 db(True WDR)  |
| Electronic Shutter Speed                      | Auto/Manual(1/30 ~ 1/10000, Anti Flicker)   |
| Image Setting                                 | Configurable Exposure, White Balance, Sharpness   |
| Intelligent Video                             | Video Motion Detection, Active Tampering Alarm, Trip Zone   |
| Privacy Masking                               | Eight Zones   |
| Video Compression                             | H.265, H.264 (MP) M-JPEG  |
| Bitrate Conrol                                | CBR /VBR  |
| SD Card                                       | To be supplied with 64GB SD Card Class 10   |
| Onvif   | Profile S (Required)  |
| Video Streams                                 | Quadruple Streaming   |
|   | Minimum 4 Streams @ H.265 with Controllable frame rate and bandwidth VBR/CBR H.264 or better IP V4 / IP V6  |
| Supported Resolution                          | 3840 x 2160, 1920 x 1080, 1280 x 720, 640 x360  |
| Network Protocol                              | HTTP, HTTPS, FTP, RTP/RTSP/TCP RTP/UDP SNTP, SMTP, mDNS, Upnp   |
|   | The Camera to be provided by the bidder all the components / parts / assembly / software used in the offered hardware and software, should not be complying to GB28181, GB/T 28181-2011; GB/T28181-2011; GBT 28181-2011; GBT28181-2011 standards. |

|                       |  |
|-----------------------|--|
|                       | There should be no option to activate or deactivate these standards in the camera web page/Settings.         |
| Security              | SSL Encryption, Password Protection, Multi-User Authority, IEEE 802.1x IP, Filtering, HTTPS, User access log |
| Text Overlay          | Date & time, and a customer-specific text, camera name   |
| Network Interface     | RJ 45, 10/100 Base-T or better   |
| Firmware Upgrade      | The firmware upgrade shall be done through web interface, The firmware shall be available free of cost       |
| Trigger Event         | Motion Detection, Alarm In, Audio Detection, Tampering, Trip Zone  |
| Event Notification    | Remote S/w, Email (With Image)   |
| Vandal Proof          | IK10   |
| Weatherproof          | IP66   |
| Operating Temperature | 0-55 degree Celcius  |
| Operating Humidity    | 0 % to 90 %  |
| Power Source          | PoE(IEEE 802.3 af Class 3) or equivalent   |
| Certifications        | 1. CE, FCC, UL or 2. BIS   |
| Chipset/Processor     | NDAA Compliant   |
| MTBF                  | 100000 hours for cameras calculated at 40 degree Celcius   |
| Mount                 | Wall /Ceiling /Pole By Camera OEM  |
| Warranty              | 5 years  |

| <b>Specifications for 8 MP Varifocal Camera's</b> |   |
|---|---|
| <b>Description</b>                                | <b>Parameter</b>  |
| Image Sensor                                      | 1/ 2.8" CMOS  |
| Scanning Mode                                     | Progressive Scan  |
| Lens Type   | Fixed   |
| Focal Length                                      | F=3.3/3.6/4 mm  |
| Aperature   | F=2.0 or better   |
| Max Resolution                                    | 3840 x 2160   |
| Day and Night                                     | IR Cut Filter with Auto Switch  |
| IR Distance                                       | 20 m / 65.6 Ft or better  |
| Min. Illumination                                 | Color: 0.2 Lux @ F 1.8<br>B/W: 0 Lux (IR LED ON)  |
| Dynamic Range                                     | 120 db(True WDR)  |
| Electronic Shutter Speed                          | Auto/Manual(1/30 ~ 1/10000, Anti Flicker)   |
| Image Setting                                     | Configurable Exposure, White Balance, Sharpness   |
| Intelligent Video                                 | Video Motion Detection, Active Tampering Alarm, Trip Zone   |
| Privacy Masking                                   | Eight Zones   |
| Video Compression                                 | H.265, H.264 (MP) M-JPEG  |
| Bitrate Conrol                                    | CBR /VBR  |
| SD Card   | To be supplied with 64GB SD Card Class 10   |
| Onvif   | Profile S (Required)  |
| Video Streams                                     | Quadruple Streaming   |
|   | Minimum 4 Streams @ H.265 with Controllable frame rate and bandwidth VBR/CBR H.264 or better IP V4 / IP V6  |
| Supported Resolution                              | 3840 x 2160, 1920 x 1080, 1280 x 720, 640 x360  |
| Network Protocol                                  | HTTP, HTTPS, FTP, RTP/RTSP/TCP RTP/UDP SNTP, SMTP, mDNS, Upnp   |
|   | The Camera to be provided by the bidder all the components / parts / assembly / software used in the offered hardware and software, should not be complying to GB28181, GB/T 28181-2011; GB/T28181-2011; GBT 28181-2011; GBT28181-2011 standards. |
|   | There should be no option to activate or deactivate these standards in the camera web page/Settings.  |

|                       |  |
|-----------------------|--|
| Security              | SSL Encryption, Password Protection, Multi-User Authority, IEEE 802.1x IP, Filtering, HTTPS, User access log |
| Text Overlay          | Date & time, and a customer-specific text, camera name   |
| Network Interface     | RJ 45, 10/100 Base-T or better   |
| Firmware Upgrade      | The firmware upgrade shall be done through web interface, The firmware shall be available free of cost       |
| Trigger Event         | Motion Detection, Alarm In, Audio Detection, Tampering, Trip Zone  |
| Event Notification    | Remote S/w, Email (With Image)   |
| Vandal Proof          | IK10   |
| Weatherproof          | IP66   |
| Operating Temperature | 0-55 degree Celcius  |
| Operating Humidity    | 0 % to 90 %  |
| Power Source          | PoE(IEEE 802.3 af Class 3) or equivalent   |
| Certifications        | 1. CE, FCC, UL or 2. BIS   |
| Chipset/Processor     | NDAA Compliant   |
| MTBF                  | 100000 hours for cameras calculated at 40 degree Celcius   |
| Mount                 | Wall /Ceiling /Pole By Camera OEM  |
| Warranty              | 5 years  |

| <b>5 MP PTZ Camera Specification</b> |  |
|--------------------------------------|--|
| <b>Description</b>                   | <b>Parameter</b>   |
| Image Sensor                         | 1/ 2" CMOS   |
| Scanning Mode                        | Progressive Scan   |
| Lens Type                            | 30x, AF Zoom Lens  |
| Focal Length                         | f=6.5 - 195mm (30x) or better  |
| Aperature                            | F=1.8 or better  |
| Max Resolution                       | 3840 x 2160  |
| Day and Night                        | IR Cut Filter with Auto Switch   |
| IR Distance                          | 200 m or better  |
| Min. Illumination                    | Color: 0.1 Lux @ F 1.8<br>B/W: 0 Lux (IR LED ON)   |
| Dynamic Range                        | 120 db(True WDR)   |
| Electronic Shutter Speed             | Auto/Manual(1/30 ~ 1/10000, Anti Flicker   |
| Image Setting                        | Configurable Exposure, White Balance, Sharpness  |
| Image Stabilizer                     | Yes  |
| Defog                                | Yes  |
| Intelligent Video                    | Video Motion Detection, Active Tampering Alarm, Trip Zone  |
| Privacy Masking                      | Eight Zones  |
| Video Compression                    | H.265, H.264 (MP) M-JPEG   |
| Bitrate Control                      | CBR /VBR   |
| Zoom                                 | 30x or Better  |
| Pan Range                            | 360 Degree (Endless)   |
| Pan Speed                            | 0.05-240 Degree /sec ( Preset )  |
| Tilt Range                           | 200 Degree (-10 ~ 190 Degree)  |
| Presets                              | 256 (Time based presets /patrolling)   |
| Image Flip                           | Yes  |
| SD Card                              | To be supplied with 64GB SD Card   |
| Onvif                                | Profile S  |
| Audio Compression                    | ADPCM 16K,<br>G.726,<br>G.711 a -Law<br>G.711 u-Law,   |
| Two Way Audio                        | Yes  |
| Video Streams                        | Quadruple Streaming  |
|                                      | Minimum 4 Streams @ H.265 with Controllable frame rate and bandwidth VBR/CBR H.264 or better IP V4 / IP V6 |



|                       |  |
|-----------------------|--|
| Supported Resolution  | 1920 x 1080, 1280 x 720, 640 x360 or better  |
| Network Protocol      | HTTP, HTTPS, FTP, RTP/RTSP/TCP RTP/UDP SNTP, SMTP, mDNS, Upnp  |
|                       | The Camera to be provided by the bidder all the components / parts / assembly / software used in the offered hardware and software, should not be complying to GB28181, GB/T 28181-2011; GB/T28181-2011; GBT 28181-2011; GBT28181- 2011 standards. |
|                       | There should be no option to activate or deactivate these standards in the camera web page/Settings.   |
| Security              | SSL Encryption, Password Protection, Multi-User Authority, IEEE 802.1x IP, Filtering, HTTPS, User access log   |
| Text Overlay          | Date & time, and a customer-specific text, camera name   |
| Network Interface     | RJ 45, 10/100 Base-T or better   |
| Firmware Upgrade      | The firmware upgrade shall be done through web interface, The firmware shall be available free of cost   |
| Trigger Event         | Motion Detection, Alarm In, Audio Detection, Tampering, Trip Zone  |
| Event Notification    | Remote S/w, Email (With Image)   |
| Alarm In/Out          | Yes/Yes  |
| Audio In/Out          | Yes/ Yes   |
| Vandal Proof          | IK10   |
| Weatherproof          | IP66   |
| Operating Temperature | 0-55 degree Celcius  |
| Operating Humidity    | 0 % to 90 %  |
| Power Source          | PoE(IEEE 802.3 af Class 3) or equivalent   |
| Certifications        | 1. CE, FCC, UL or 2. BIS   |
| Chipset/Processor     | NDAA Compliant   |
| MTBF                  | 100000 hours for cameras calculated at 40 degree Celsius   |
| Mount                 | Wall /Ceiling /Pole By Camera OEM  |
| Warranty              | 5 years  |

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| VMS Features   |
| Software Features  |
| (1) The VMS shall permit server and client software applications to be installed and run on the same computer or on separate computers.  |
| (2) The VMS shall support the remote monitoring of live image in multiple clients systems through a streaming service. The number of channels that can be streamed equals the number of channels that can be recorded.               |
| (3) The VMS shall support the stable streaming by using the load balancing function in installation with more than one streaming server.   |
| (4) The VMS shall remotely upgrade software and setup multiple systems which provide this feature.   |
| (5) The VMS shall display the system log information of devices which use own protocol.  |
| (6) The VMS shall monitor the map image on live monitoring screen.   |
| (7) The VMS shall support the centralized system operation, management and event-handling.   |
| (8) The VMS shall support the enhanced security using SSL function.  |
| (9) The VMS shall support two-way audio communication and audio broadcasting.  |
| (10) The VMS shall support the enhanced security by setting up different authorities for each user group.  |
| (11) The VMS shall be controlled by network keyboard.  |
| (12) The VMS shall support text-in and alarm function via TCP networking.  |
| (13) The VMS shall support receiving digital input triggers and triggering digital outputs through an I/O board. One number in quantity needs to be supplied along with VMS.   |
| (14) The VMS will provide the mechanism by which individual alarm(s) from a 3rd party system (access control, etc.) can be pre-selected and configured to be monitored, and in turn trigger event driven video operations(Optional). |
| (15) The VMS shall support an intuitive GUI.   |
| (16) The VMS shall support the following features for network cameras and network video transmitters:  |
| A. Recording of video and playback with speeds supporting upto 32x(varying from 1x to 32x) of the recorded video   |
| B. Multiple recording servers for advanced recording performance   |
| C. Instant Recording/Panic Recording of monitored images   |
| D. Audio recording   |
| E. Stable recording using proprietary video database le system   |
| (17) The VMS shall support the following features for DVRs:  |
| A. Playback of video recorded in DVRs  |
| B. Remote control of panic recording   |

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| (18) The VMS mobile client shall be free and supported by Android and Apple mobile devices.  |
| (19) The VMS shall be available in the following languages:  |
| A. English   |
| (20) VMS shall support dynamic video stream management architecture which includes:  |
| A. Support for industry standard compression formats including but not limited to:   |
| a. MJPEG   |
| b. MPEG-4  |
| c. H.264   |
| d. H.265   |
| B. The client and server machine shall communicate resolution real estate such that the server machine acts as a video proxy and shall know the maximum monitor resolution supported by the client machine.  |
| C. Support for reducing the required client bandwidth and processing power of a megapixel video stream by transmitting only the fraction of the video stream that is visible in the video display tile. (e.g. If a user is viewing a 2MP camera in a 352x240 resolution tile then a CIF representation of the 2MP image shall be transmitted). |
| D. Dynamic video stream management shall be supported for local users, remote users and mobile devices.  |
| (21) The VMS shall support recording and management of video and audio sources including but not limited to:   |
| A. ONVIF Cameras   |
| B. RTSP / RTP Video Streams  |
| (22) The VMS shall support recording and monitoring video and audio streams from sources with bandwidth up to 4096 Mbytes/sec, frame rate up to 30 fps, and video resolution up to 12MP. This specification depends on the performance of server or workstation including HDD performance.   |
| (23) The VMS shall support the decompression of H.264 and H.265 video through the quick sync video technology of Intel based client graphics card/graphical processing unit (GPU) instead of using the client processing power.  |
| (24) The VMS shall require no proprietary recording hardware, no hardware multiplexer or time-division technology for video and audio recording or monitoring.   |
| (25) The VMS shall support the storage capacity with up to 50TB per partition and shall allow for upgrades of recording capacity without additional licensing.   |
| The VMS shall support max 74 partitions per one Recording Service.(Logical Drive Partition 24ea+Physical Drive Partition 50ea)   |
| (26) The VMS shall secure video and audio data by securely transmitting all command and control data via TCP/IP using cryptographic keys based on SSL to prevent eavesdropping or tampering.   |
| (27) The VMS shall support software level integration via an API. The API integration shall include but not limited to:  |

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| A. Bi-directional alarm event processing for monitoring and acknowledgement  |
| B. Receiving digital input events  |
| C. Receiving intrusion zone events   |
| D. Transmitting live and recorded video  |
| (28) The VMS client shall provide alarm management operations through the use of the client graphical user interface. Including but not limited to:  |
| A. Occurrences for “Alarm” and “Reset” conditions for each of the pre-selected access system alarms will be processed and managed from the VMS system’s Live View workspace.                                     |
| a. In a section reserved for displaying alarm notifications or from an alarm viewer.   |
| b. Alarms can also be acknowledged from the camera display tile.   |
| B. Once an initiated alarm occurrence is acknowledged from the VMS system, it should be automatically acknowledged and processed in the access system alarm monitor queue without further operator intervention. |
| (29) The VMS shall have an easy process for upgrading versions:  |
| A. Are capable of being upgraded from one version to another without having to uninstall the previous version.   |
| The complete backup of the software along with cameras needs to be backed up automatically. It should not be limited to  |
| 1. Cameras along with Configurations   |
| 2. Certificates of each cameras.   |
| 3. User and group's backup(Users along with id ,passwords and profiles for accesing the cameras).  |
| The Complete backup needs to be restored with a click of a button if required.   |
| (30) The VMS shall run as a service configured to automatically start when the server or workstation is powered on, and automatically recover from failure or attempted tampering.                               |
| (31) The VMS shall allow users to monitor and administer the system from:  |
| A. A single client application for monitoring live and recorded video and audio.   |
| B. A single window for administrating all system connections.  |
| C. Any client located on the network.  |
| (32) The VMS shall provide an automatic discovery solution that will easily find devices and systems by:   |
| A. Automatically discovering server instances that run on computers connected to the same network as the client.   |
| B. A search functionality to discover server instances running on computers connected on a different network segment than the client by using IP addresses or hostnames.   |
| C. Automatically discovering video and audio sources that are connected to the same network as the server.   |

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| D. A search functionality to discover video and audio sources that are connected on a different network segment than the server by using IP addresses .   |
| (33) The VMS shall allow manually discovered server instances, video and audio sources to be visible to all users of a single client workstation.   |
| A. Network settings for all server instances will be identical for all users of a single client workstation.  |
| (34) The VMS shall provide multiple methods for providing fault tolerant solutions to maintain high availability recording in mission critical installations including:   |
| A. The ability to maintain a centralized system administration so that the same operation and system configuration settings are shared between all servers in a site. This allows the same user login details and other configurations to be used across a site, and ensure that the settings remain active even if a server fails. |
| B. The ability to connect a video or audio source to multiple VMSs to achieve redundant recording.  |
| C. The VMS failover server should automatically start recording in case any of the primary recording servers fails.   |
| (35) The VMS shall detect if the video or audio signal is lost and alert the system administrator.  |
| (36) The VMS shall provide the capability to rename all video and audio sources and SERVERS.  |
| (37) The VMS shall record video and audio streams based on a recording schedule that can be defined individually for each video source. The schedule shall include but not limited to the following parameters:   |
| A. Recording Mode   |
| a. Continuous (TimeLapse)   |
| b. Event  |
| - Motion Detection  |
| - TripZone  |
| - Tampering   |
| - Face Detection  |
| - Video Blind   |
| - Auto Tracking   |
| - Video Analytics   |
| - PIR Detection   |
| - Alarm Input / Output (and Network Alarm Input)  |
| - Audio Detection   |
| B. Time and Date Settings   |
| a. One day  |
| b. Daily  |
| c. Weekly   |
| d. Monthly  |

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| e. Yearly   |
| (38) The VMS shall provide the ability to manually trigger recording.   |
| (39) The VMS shall provide a pre-event and post-event recording option.   |
| (40) The VMS shall provide a continuous recording option in the absence of events.  |
| (41) The VMS shall perform motion detection on each individual video source with adjustable sensitivity, threshold and detection zones.   |
| (42) The VMS shall perform analytics event detection on each individual video stream sourced from a device possessing adaptive video analytics capabilities.                                |
| A. The VMS shall allow users to connect individual video sources to analytics appliance channels.   |
| B. The VMS shall allow users to configure events based on classified object motion detection.   |
| C. The VMS shall allow configured analytics events to be used as alarm and rule triggers.   |
| (43) The VMS shall provide the ability to set a maximum recorded video retention time for each video source.  |
| (44) The VMS shall perform dynamic bandwidth management to ensure the total bandwidth does not overload the system.   |
| (45) The VMS shall authenticate users before granting access to the system. Access rights for each user can be defined individually for each user, and shall include but not be limited to: |
| <b>A. Live monitoring</b>   |
| a. Use PTZ setup and controls   |
| b. Use audio in/out controls  |
| c. Use instant recording  |
| d. Use image processing   |
| e. Export live images   |
| f. Trigger manual recording (panic recording)   |
| g. Use web browser in live tab  |
| <b>B. Search and Play</b>   |
| a. Save AVI or Clip Copy images   |
| b. Export images  |
| c. Use image processing   |
| d. Search the recorded data by motion, object or other events   |
| e. Play manually recorded data (panic record play)  |
| <b>C. Device Health Monitoring</b>  |
| D. Use alarm in/out controls  |
| E. Search and export log data   |
| F. Search and export event history  |
| G. Show device and device group   |

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| H. Create user layout  |
| (46) The VMS shall provide the ability to rank access rights based on a user's position within a corporate hierarchy.  |
| A. Ranked users may only administer changes to users and groups that are subordinate in rank.  |
| B. The corporate hierarchy can be used to enforce the authority of a parent site over the user and group settings of one or more child sites.  |
| (47) The VMS shall allow the creation of site families.  |
| A. A child site can be connected to an appropriately licensed parent site.   |
| B. The parent site will have control over the group and user privileges and information of a child site.   |
| (48) The VMS shall support multiple credentials to gain access to the system including, but not limited to:  |
| A. The ability to import members of Active Directory groups as users in the VMS.   |
| a. Changes made to members in the Active Directory are automatically synced with the VMS.  |
| b. Users imported from the Active Directory can be added directly to existing permission groups.   |
| B. Using Windows credentials to authenticate users.  |
| C. Accept user credentials entered into the VMS user database.   |
| (49) The VMS shall provide the ability to schedule backups of recorded video with associated events to a local folder or mapped network drive.<br>The system should be capable of writing any incident that needs to be backed up on to a USB Storage Drive. |
| (50) The VMS shall provide the ability to create and schedule alarms and corresponding actions including:  |
| A. Provide the ability to email users and system administrators when an event or system health error occurs.   |
| B. Provide the ability to schedule when email notifications are sent.  |
| C. Provide the ability to include camera images in email notifications.  |
| (51) The VMS shall maintain a system event log.  |
| (52) The VMS shall have the capability to schedule and execute any of the following actions in response to any of the events listed above:   |
| A. User Notification Actions   |
| a. Display on-screen message   |
| b. Send an email   |
| c. Play a sound  |
| B. Monitoring Actions  |
| a. Start live streaming video  |
| b. Create Bookmark   |
| c. Start live streaming on a virtual matrix monitor  |
| d. Open a map on a virtual matrix monitor  |

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| C. Device Actions  |
| a. Reboot camera   |
| b. Trigger digital output  |
| <b>D. PTZ Actions</b>  |
| a. Go to Preset  |
| b. Run a Pattern   |
| The Vms should be able to trigger the presets patterns/ Patrolling as configured by the Administrator.   |
| <b>E. Alarm actions</b>  |
| a. Trigger an alarm  |
| b. Acknowledge an alarm  |
| (53) The VMS shall provide the ability to escalate alarms from one user or group to another if the alarm is unacknowledged for a preset duration.                                    |
| (54) The VMS shall provide a maintenance log and audit trail of all system errors and events.  |
| (55) The VMS shall support the operation of a License Plate Recognition system that include:   |
| A. The ability to define a region of an image where license plate detection is performed. Detected license plates shall be stored with the video data.                               |
| B. The ability to create a Watch List that is used to create events when specific license plates are detected in the images being analyzed.  |
| (56) The VMS shall provide the ability to enable and configure PTZ control on the RS-485 interface of a video source.  |
| (57) The VMS shall support PTZ protocols and models. Including but are not limited to the following:   |
| A. IP Cameras  |
| a. ONVIF Cameras   |
| B. The VMS shall support different models of PTZ and supported protocols   |
| (58) The VMS shall provide the ability to change the network settings for a video and audio source including:  |
| A. A change in image quality and image rate parameters for a single video source shall not affect the settings of other video sources.   |
| B. The ability to enable a secondary stream for live viewing.  |
| C. The ability to change the exposure, iris, IR filter, backlight compensation, gain, sharpening, noise filtering, saturation, focus, and white balance settings for a video source. |
| D. The ability to change the image dimensions for a video source.  |
| E. The ability to rotate the image 90°, 180° or 270° for a video source dependent on camera.   |
| F. The ability to add privacy zones to a video source to block unwanted areas in the image field of view.  |



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| G. The ability to set a maximum recording duration for manually triggered recording for a video source.   |
| H. The ability to change the input, output, gain and volume for an audio source.  |
| (59) The VMS shall support the use of uni-directional and bi-directional audio.   |
| A. The VMS shall support full-duplex two-way audio communication.   |
| B. The VMS shall provide the ability to link any audio source to any video source.  |
| a. Able to link to the audio sources from multiple cameras simultaneously and record the same if required.  |
| b. Able to link an audio source to many video sources.  |
| C. The VMS shall provide the ability to synchronize audio and video on playback regardless of video, audio, network, or storage parameters  |
| (60) The VMS shall provide the ability to manage operator access to the VMS and assets, including:  |
| A. Ability to automatically log in to a VMS.  |
| B. Ability to override user access to a VMS if there are insufficient licenses.   |
| C. Ability to automatically log out of a VMS when the application is left idle.   |
| D. Ability to save and restore the window layout.   |
| E. Ability to control the system using a PC keyboard, mouse or joystick.  |
| F. Ability to import and export system settings such as maps, views, web pages, users and groups.   |
| (61) The VMS shall support live or recorded video monitoring of 1 to 64 video streams simultaneously on a single monitor with the following standard layouts:   |
| A. Normal Screen  |
| a. Full Screen, 2x2, 3x3, 4x4, 5x5, 6x6, 8x8, 1+5, 1+7, 1+11, 1+12, 1+27, 1+32, 2+8, 2+18, 3+4, 4+28, 12+16   |
| b. Corridor Format: 1x2, 1x3  |
| B. Wide Screen  |
| a. 3x2, 4x3, 5x4, 6x5, 7x6, 8x7, 1+2, 1+3, 1+4, 1+5, 1+6, 1+8, 1+10, 2+1, 2+4, 2+12, 4+12, 12+24  |
| (62) The VMS shall support live or recorded video monitoring in a customizable video display beyond the standard layouts.   |
| (63) The VMS shall be able to simultaneously display video streams from maximum 64 cameras per window with no additional license cost (if required).  |
| (64) The VMS shall support the ability to bias the displayed video to a lower frame rate or to a lower image resolution if the client network bandwidth or processing power is insufficient for displaying the video at full frame rate and image resolution. |
| (65) The VMS shall support the ability to display image overlays. Including but not limited to the following:   |
| A. Live   |
| a. Camera Title, Status Icon, PTZ, Timestamp (Date & Time), Event Alert, Motion Block, Site Name, Face Detection, Text-In messages.   |

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| B. Playback  |
| a. Camera Title, Recorded Title, Status Icon, ePTZ, Timestamp (Date &Time), Site Name, Face Detection, Text-In messages.   |
| (66) The Video Analytics Activity overlay shall provide a color-coded bounding box around moving objects categorized as humans or vehicles.  |
| (67) The VMS client software shall:  |
| A. Maximum four monitors used for monitoring video and audio streams connected to a single workstation.  |
| B. Support monitoring live and recorded video and audio streams simultaneously on the same monitor.  |
| C. Support viewing the same live or recorded video stream at different zoom levels and areas of interest.  |
| D. Support the ability to switch from live to recorded video on demand for an instant replay of recently recorded video.   |
| E. Support the ability to share the application window display in a joint session with other users for collaborative investigations.   |
| F. Support the creation various layouts of video streams.  |
| G. Support the ability to toggle between tiled and full-screen view.   |
| H. Support the ability to save views.  |
| I. Support the ability to cycle through views (guard tour) based on a specified interval.  |
| J. Display all video sources connected to the system.  |
| <b>K. Support the ability to drag and drop sources from a system tree. Sources include but are not limited to:</b>   |
| a. A video/audio source for live and recorded display.   |
| b. A predefined layout view of video/audio sources.  |
| c. Third party or integrated devices   |
| d. Web pages   |
| e. Graphical maps  |
| (68) The VMS shall support the ability to configure how the system tree is displayed.  |
| A. The system tree of video sources, maps, saved views and web pages can be organized into virtual folders that are represented as branches within the Site.   |
| B. Users can be granted access to individual items or entire folders within the tree.  |
| C. New items added to a folder automatically inherit the permissions of that folder.   |
| (69) Alarm and Digital Output Management:  |
| A. The VMS shall support monitoring alarms on receiving an alarm alert/input from any of the camera, The alert should appear in the alarm stack and a audio visual alert should appear on the user screen. |
| B. The VMS shall support the ability to designate one or more regions/tiles in a window for displaying video directly linked to triggered alarms and rules.  |

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| C. The VMS shall support the ability to acknowledge alarms from the designated video display area.   |
| D. The VMS shall support the ability to manually trigger digital output:   |
| a. Through the use of a pre-configured software "button".  |
| b. Through the use of a hard-wired dry alarm contact connected to a supported input/output device.   |
| E. The VMS shall support the ability to assign alarms to users.  |
| F. The VMS shall support the ability to acknowledge alarms.  |
| G. The VMS shall support the ability to bookmark alarms.   |
| (70) The VMS shall support creating bookmarks for recorded video and audio. Bookmarks can be:  |
| A. Viewed from multiple sources  |
| B. Displayed on the timeline during playback   |
| C. Used as a search criteria for recorded video and audio. Search criteria can include but are not limited to:   |
| a. Name  |
| b. Description   |
| c. Bookmark Creator  |
| (71) The VMS shall support the ability to create a map that represents the physical location of cameras and other devices throughout the surveillance system.      |
| A. Maps shall be created from images stored in standard image formats. Including but not limited to the following:   |
| a. JPEG  |
| b. BMP   |
| c. PNG   |
| d. GIF   |
| B. Maps shall have the ability to contain links so as to create a hierarchy of interlinked maps.   |
| C. Maps shall support the ability to drag and drop a video source from the map into a window for live or recorded video and audio monitoring.                      |
| D. Cameras in a map are highlighted when an alarm linked to the camera is triggered.   |
| (72) The VMS shall support physical and digital zooming and panning on live and recorded video streams.  |
| A. The VMS shall support controlling pan-tilt-zoom, iris, and focus as well as setting presets and patterns.   |
| B. The VMS shall provide the ability to name pan-tilt-zoom presets.  |
| C. The VMS shall support the ability to center a PTZ camera's field of view by clicking anywhere on the video image where the PTZ supports this function.          |
| D. The VMS shall support the ability to click and drag to define an area for the PTZ camera to optically zoom and center on, where the PTZ supports this function. |

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| E. The VMS shall support controlling pan-tilt-zoom camera on-screen display and auxiliary controls.  |
| F. The VMS shall support locking PTZ controls.   |
| G. The VMS shall support control of a pan-tilt-zoom camera with a network keyboard with joystick.  |
| (73) The VMS shall support playback of recorded video and audio.   |
| A. Forward and reverse playback of recorded video and audio at variable speeds.  |
| B. Audio and video shall synchronously playback when audio and video sources are linked.   |
| (74) The VMS shall support the navigation of recorded video and audio. Including but not limited to the following methods:                                     |
| A. Calendar  |
| B. Timeline  |
| a. The VMS shall support a timeline that displays all connected video sources and the corresponding motion and recording events.                               |
| b. The VMS shall support a timeline that can display the entire time range down to one second of recorded video and audio.                                     |
| c. The VMS shall support a timeline that can synchronize video displayed on multiple tabs to the same point in time.   |
| C. Events.   |
| (75) The VMS shall support searching through recorded video and audio based on various search criteria. Including but not limited to the following parameters: |
| A. Bookmarks   |
| B. Calendar  |
| C. Timeline (Date & Time)  |
| D. Event search  |
| a. Alarm-In  |
| b. Motion Detection  |
| c. Video Loss  |
| d. Video Blind   |
| e. TripZone  |
| f. Tampering   |
| g. Video Analytics   |
| h. Face Detection  |
| i. Audio Detection   |
| j. Device Connection & Disconnection   |
| (76) The VMS shall support performing a search through a series of thumbnail images.   |
| A. Thumbnails can be based on the entire image region or a pre-selected area.  |

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| B. Thumbnails can be stacked to support an automatic secondary search when looking at a large timespan of video.                         |
| (77) The VMS shall support the ability to take a snapshot of a live or recorded image and export it from the system.                     |
| (78) The VMS shall support the ability to export recorded video in the following formats including but not limited to:                   |
| A. Video   |
| a. Native Format   |
| b. AVI   |
| B. Still Image   |
| a. JPEG  |
| b. PNG   |
| c. BMP   |
| d. PDF   |
| C. Print   |
| (79) The VMS shall support the ability to export recorded audio in WAV format.   |
| (80) The VMS shall support the ability to export a live stream of images in the following formats:                                       |
| A. JPEG  |
| B. PNG   |
| C. BMP   |
| D. PDF   |
| (81) The VMS shall support the ability to export video in Native format. Native format exported video shall:                             |
| A. Digitally sign recorded video and audio using chained finger print technology so video can be authenticated for evidentiary purposes. |
| B. Be able to export video from one or multiple camera streams simultaneously.   |
| C. Support reviewing of exported video and audio   |
| D. Support reviewing of backed-up video and audio  |
| E. Support exporting of video in lower frame-rates than originally recorded.   |
| F. Include camera properties. Including but not limited to:  |
| a. Site name   |
| b. Recorded video time, resolution, frame type and size  |
| G. Support additional exporting into Native or open formats.   |
| (82) The VMS System should support the following services as required during installation  |
| <b>Administration Service</b>  |
| <b>Recording Service</b>   |
| <b>Monitoring Service (Alarm)</b>  |
| <b>Video Analytics Service</b>   |

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| <b>Failover Service</b>   |
| <b>General Description</b>  |
| (1) The VMS specified is a highly scalable and fully integrated network video surveillance solution. The VMS can work together with network cameras, SERVERs, and NVRs while providing superior image quality and extensive coverage. |
| (2) The VMS shall be available as a stand-alone software offering or pre-loaded on turn-key workstations and servers running Microsoft Windows with configurable storage.   |
| (3) The VMS shall be available in a module based licensed software solution as follows:   |
| A. Expert (Standard) Services   |
| a. Administration Service   |
| b. Recording Service  |
| c. Failover Service   |
| d. Monitoring Service   |
| e. Video Analytics Service  |
| f. Video wall Service   |
| (4) Licensing : Software license.   |

| <b>Artificial Intelligence (AI) enabled Video Analytics Software:</b>   |
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| Possible applications of Artificial Intelligence (AI) enabled analytics software over the IP based video surveillance system, for specified number of Cameras for specific stations, as defined in the tender document shall include the following minimum Artificial Intelligence (AI) enabled video analytics software and should be seamlessly integrated to the VMS |
| <ul style="list-style-type: none"> <li>• Intrusion Detection</li> <li>• Camera Tampering</li> <li>• Loitering Detection</li> <li>• Human &amp; Vehicle Detection</li> <li>• Search of Humans based on Attribute</li> <li>• Colour Search</li> <li>• Fallen Person</li> <li>• Combination Search (Human/Vehicle &amp; Colour)</li> </ul>                                 |
| <b>Intrusion Detection:</b>   |
| The offered Artificial Intelligence (AI) enabled video analytic software shall include a comprehensive intrusion detection feature. The intrusion detection shall be used for generating alarm under following scenarios:   |
| IDS shall be capable of detecting intrusion of Person, Vehicles, Objects, Etc in the Region of Interest (ROI) created along the perimeter wall as per the user requirement.   |
| User shall be able to set the parameters for triggering an alarm as per the OBJECT OF INTEREST such as number of persons, type of vehicles, type of object etc entering the Region of Interest (ROI).   |
| System shall have high accuracy to avoid false alarm during night<br>The system shall be based on a Video Analytics Server IDS shall support all ONVIF D/N or IR & Thermal Cameras  |
| The software shall have filters/methods to distinguish between humans/animals and vehicles/ objects.  |
| User shall be able to create multiple ROI (Region of Interests) in the single camera frame.<br>Shall be able to recognize the objects based on the type and not just by the size.<br>(Example: It shall have options to distinguish between person, vehicles like car, bus, truck, motorbike, bicycle etc)  |
| The user shall be able to set an exclusion area to exclude any object in the detection zone that may cause false alarm, e.g., a statue, an electric pole or a tree that may look like a person standing at night.   |

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| Once user receives the intrusion alerts. System/ Software should be able to show which camera intrusion happened along with date & time stamp .   |
| <b>Camera Tampering:</b>  |
| The software shall be able to detect sabotage or tampering to the Cameras. It shall be able to detect Camera blurring, Camera blinding and change of orientation of fixed Cameras.  |
| Camera tampering feature shall be provided for all Cameras.   |
| AI enabled Video Analytics is not implemented on PTZ cameras.   |
| <b>Loitering Detection:</b>   |
| The user shall be able to define area and detection time in software.   |
| The software shall give an alarm as soon as a person is detected in a defined Region of Interest(RoI) area above a predefined time limit.   |
| User shall be able to create multiple ROI (Region of Interests) in the single camera frame.<br>Shall be able to recognize the objects based on the type and not just by the size.   |
| <b>Human &amp; Vehicle Detection:</b>   |
| The software shall be able to detect and classify humans and vehicles in live viewing and give alert only when the classified objects break a rule.   |
| <b>Search based on Attribute:</b>   |
| The AI should be able to sorts through hours of video with ease, to quickly locate a specific person/ Multiples persons of interest. Attribute Search should improve incident response time and enhance forensic investigations by helping operators compile robust video evidence, create a powerful narrative of events, and reveal an individual"s route or last-known location. |
| AI software should allow operator/User to bookmark a person who has been identified as a suspect in any playback video or in live mode. It should then have the capability to track and search the objects movements across multiple cameras based on the Attribute of the person and show the results so that the user can track the movement of the person across cameras.        |



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| <p>In the event when a suspect's face is not captured clearly or not recognizable due to any reason, the AI software should allow operators to search a Person based on a person's Attribute characteristics and retrieve intelligent information to locate a specific person or vehicle of interest across multiple recorded video streams from cameras across the campus.</p> |
| <p>The system shall be able to trigger an alert if a minimum number of persona as a configured by Operator/User in the system gather at a single location. Once Triggered, it should be able to detect all person in the frame for further analysis.</p>  |
| <p>The system shall be able to detect and extract content metadata from the live and recorded video and photos of certain case: For person's face and body</p>  |
| <p>It should sort through hours of video across all the station cameras with ease, to quickly locate the specified person across cameras based on his Attribute, reducing search time from day and hours down to minutes.</p>   |
| <p>The AI should be able to detect the Number Plate of all kind of vehicles entering the Gates during Day and Night Environment.</p>  |
| <p>The AI should be able to detect kind of vehicle too like car/ Motor Bike/ Truk/ Bus/ Etc along with color of vehicle.</p>  |
| <p>The AI should be able to integrate with the automatic bollard system planned to install at the gates in future.</p>  |
| <p>The system shall be able to work on normal / ONVIF Profile Compliant Cameras</p>   |
| <p><b>Colour Search:</b></p>  |
| <p>In the event when suspect face is not clearly visible, in such case a colour base detection and search should be available with Artificial Intelligence (AI) enabled video analytics.</p>  |
| <p><b>Fallen Person :</b></p>   |
| <p>In the areas like Waiting room / hall, Raised Floor roof railings , Counters etc in case of any person falling due to any reason should be detected.</p>   |
| <p><b>Combination Search (Human/Vehicle &amp; Colour) ;</b></p>   |
| <p>Artificial Intelligence (AI) enabled video analytics should be able to search for suspects with combination of search criteria like Colour and Object (Human / Car) on both live and recorded video</p>  |

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| Artificial Intelligence (AI) enabled Video Analytics Software can be implemented either at firmware level at fixed IP Cameras or at server/ workstation (which should be able to work 24x7, 365 days) level in the control room.   |
| Artificial Intelligence (AI) enabled Video analytics software shall be implemented either at firmware level or server level for fixed IP Cameras as per details mentioned in the table or as specified by the purchaser. Purchaser has to specify  |
| System should be capable of uploading video and provide analytics of the uploaded video.   |
| The solution should support mix and match of 64 cameras to be fed for live video analytics with floating licenses. The administrator shall be able to include / exclude any of the camera from live analytics as per the requirement. Required necessary software licenses should be supplied at no additional cost. |
| <b>AUDIO ANALYTICS</b>   |
| Audio Analytics: In this system, microphone is in built or separate array microphone is provided with camera and compatible with camera system. The Audio Analytics system should be capable of identifying pre-defined panic words uttered in English and Hindi and automatic alert to be sent to VMS.              |
| Speech engine to recognize Help/ Panic Words uttered in Hindi & English, Panic words as defined during deployment by IISER Tirupati (total of 50 panic words in total)   |
| The Speech Engine must be capable of Supporting and handling voice streams from 150 microphones placed on the intranet, kept at various places within the campus   |
| Speech & NLP Engine should have no dependency on third party software, and it should work independently on premise   |
| Speech engine must be able to respond with in 200ms  |
| Solution must be deployable On Premise   |
| The Video Management system must sample the audio at 16Khz and record it before it passes it on the Speech Engine for decoding purposes  |
| Speech engine should be able to identify the list of panic/help keywords and phrases given at the time of deployment   |
| Speech engine must detect language and send the response in the same language / English transliterated, to the Video management system   |
| Video management software has to be integrated with the Speech Engine through GRPC streaming   |



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|  |
|--|
| Speech Engine to respond to audio queries from whitelisted IP and MAC ID                                       |
| Speech Engine must run 24x7  |
| Speech Engine supplier must have the capability to re-train for acoustics, if need be, to improve the accuracy |

| <b>Specifications for Desktop Workstation for Analytics</b> |   |
|---|---|
| Desktop Type  | Tower Model   |
| Processor   | Intel Xeon Silver 4209T (8C/ 16 T, 11M Cache, 2.20 Ghz) or higher |
| Ram   | 32 Gb or higher   |
| SSD   | 1 TB or higher  |
| HDD   | 2 TB or higher  |
| DVD RW  | Yes   |
| Graphics  | Quadro RTX 4000 8 GB or higher                                    |
| Networking  | 2 x Gigabit Ethernet  |
| Keyboard  | USB Keyboard  |
| Mouse   | USB Mouse   |
| Display   | 32 Inch Display 4k Display with IPS                               |
| Operating System  | Windows Server 2012 R2 or higher                                  |
| Warranty  | 3 Year On Site  |

| <b>Specifications for Desktop Workstation for Client</b> |                                     |
|--|-------------------------------------|
| Desktop Type   | Tower Model                         |
| Processor  | I9 9th Generation Processors        |
| Ram  | 32 GB                               |
| SSD  | 1 TB                                |
| HDD  | 2 TB                                |
| DVD RW   | Yes                                 |
| Graphics   | Quadro RTX 4000 8 GB                |
| Networking   | 2 x Gigabit Ethernet                |
| Keyboard   | USB Keyboard                        |
| Mouse  | USB Mouse                           |
| Display  | 32 Inch Display 4k Display with IPS |
| Operating System   | Windows 10 Pro x 64                 |
| Warranty   | 3 Year On Site                      |

| <b>Specifications for Alarm Box</b> |   |
|-------------------------------------|---|
| Alarm Input                         | 8 Digital-Input - Dry contact, Wet contact High : Open or DC 5V ~ DC 30V Low : Short or DC 0V ~ DC 1.8V |
| Alarm Output                        | 4 Relay-out - NC, NO, COMMON  |
| Power Output                        | 12VDC(300mA), 5VDC(400mA)   |
| Ethernet                            | 10/100Mbps  |
| USB                                 | Yes   |
| PoE(class)                          | Yes(IEEE 802.3at Class 4)   |
| Power source                        | 12VDC, 24VAC, PoE   |

|         |  |
|---------|--|
| Working | The IO Box should seamlessly work with the VMS for 3rd party Alarm Integration |
|---------|--|

### **Specifications for Storage**

| S.No. | Parameter                         | Specifications  |
|-------|-----------------------------------|---|
|       |                                   | SAN Storage x 1 Nos   |
| 1     | Product Details                   |   |
| 2     | Make & Model                      |   |
| 3     | Storage Capacity                  | Minimum 330 TB Usable storage space to be offered   |
| 4     | Storage Type                      | SAN Storage   |
| 5     | Controller                        | Dual redundant Active-Active Controllers.   |
| 6     | Cache                             | More than 16 GB memory spread across both controllers. SSDs will not be considered as Cache.  |
| 7     | RAID                              | Proposed storage system should support RAID Levels 1, 5, 6  |
| 8     | HDD                               | Proposed Storage System should be configured with Minimum 350 TB Usable Capacity using less than 16 TB NL-SAS using Raid 6 .<br>Offered Storage Array shall support distributed Global hot Spare/dedicated hot spare for offered Disk drives. |
| 9     | Scalability                       | Proposed Solution should be scalable to 1.1 PB usable capacity in the same Storage Array without upgrading the controllers.   |
| 10    | Host Connectivity per Controller  | Storage should be configured with 4 ports (including SFP) 16Gbps FC per controller for host connectivity.   |
| 11    | Backend Connectivity              | 12Gbps SAS  |
| 12    | SAN Switch                        | Minimum Dual SAN switches with redundant power shall be configured where each SAN switch shall be configured with 8 x 16Gbps FC Ports along with 5M LC-LC cables  |
| 13    | Total Aggregate Storage Bandwidth | Proposed Storage System should ensure a minimum total aggregate bandwidth of 900 Mbps on a 90% Write & 10% Read Video Management Application Workload.  |
| 14    | Storage Software Licenses         | All the following licenses should be provided for entire supported storage capacity of the proposed Array.  |
| 15    |                                   | 1. Thin Provisioning  |
|       |                                   | 2. SSD Read Cache   |

|    |                    |   |
|----|--------------------|---|
|    |                    | 3. Remote Replication                                     |
|    |                    | 4. Snapshots  |
|    |                    | 5. Data Tiering   |
|    | Storage Management | Web based management (GUI), Command Line Interface (CLI)- |
| 16 | Power Supply       | Dual Redundant Power Supply                               |

| <b>Management Server x 1 no</b> |                                |   |
|---------------------------------|--------------------------------|---|
| Sl. No.                         | Feature                        | Detailed Specifications   |
| 1                               | Vendor Name                    |   |
| 2                               | Make                           |   |
| 3                               | Processor                      | Server should be configured with Latest Gen 2nos. Of Server Grade CPU's each with 16C/32T, 2.9Ghz   |
| 4                               | Chipset                        | Latest compatible chipset supporting above processor  |
| 5                               | Memory                         | 24 DDR4 DIMM slots, Supports RDIMM /LRDIMM, speeds min 2666MT/s, 512GB max  |
|                                 |                                | Configured with 64GB Memory (2 x 32 GB)   |
| 6                               | Memory Protection              | Advanced ECC with multi-bit error protection  |
| 7                               | Hard Drives                    | Front drive bays: Up to 10 x 2.5" SAS/SATA (HDD/SSD) with up to 4 NVMe SSD  |
|                                 |                                | 2x 480GB SSD or more hot swappable system disk with mirroring using integrated RAID 1 on internal disks                                       |
|                                 |                                | 4x 600GB 10K SAS or more hot swappable Drive for Application on RAID 10   |
|                                 |                                | It should be possible to hot swap the drives without shutting down the server   |
| 8                               | Ethernet ports                 | Min. 2 x 10GE and 2x 10GE SFP+ or 2 x 10GE BaseT basis on solution requirement  |
| 9                               | Ports for Storage Connectivity | FC/iSCSI Ports as per solution design   |
| 10                              | RAID Controllers               | 12 Gbps Hardware 8GB Cache RAID Controller (RAID 0,1,5,6,10)  |
| 11                              | Remote management port         | In addition to the above dedicated Remote Management should be done/ All the blades in the chassis should be remotely managed through Chassis |

|    |                             |   |
|----|-----------------------------|---|
| 12 | Bus Slots                   | Minimum of 1 PCI expansions/Mezzanine expansions.   |
| 13 | Operating System            | Microsoft windows server 2016 Std Edition   |
| 14 | OS Support                  | Microsoft Windows Server 2016 Std. Edition, Windows Server Hyper-V, Redhat Enterprise Linux, SuSE Linux Enterprise Server   |
| 15 | Virtualization Support      | VMWARE ESX/ESXi, Microsoft Hyper-V, Citrix  |
| 16 | Alerts                      | Pre Failure alerts for all active and important components and automatic calls logging.   |
|    | Systems Management          | Smart Embedded Systems Management should be able to automate task like discovery deploy monitor and update.   |
|    |                             | Should not be dependent on agents to for life cycle management.   |
|    |                             | Should be able to provide Single console to manage Servers.   |
|    |                             | Power management tool – Single interface to optimize and control every usage  |
|    |                             | Should be able to integrate to 3rd party management tools.  |
|    |                             | Vendor should provide embedded features that helps to manage Servers in physical, local and remote environments, operating in-band or out-of-band, with or without a systems management software agent. |
|    |                             | Should include Power Management, necessary licenses should be included.   |
|    |                             | Should support remote scripted reconfiguration tools  |
| 17 |                             | Should be able to monitor all systems components (BIOS, HBA's, NICs)  |
|    | Security                    | Power-on password, administrator password.  |
| 18 |                             | The server should have silicon root of trust  |
| 19 | Systems Management Software | The server should come with systems management software to provide update management, configuration management, patch management and virtualization management.   |
| 20 | Benchmarks                  | Server family should have published benchmark (Spec_int_rate2006)   |

|    |                                |   |
|----|--------------------------------|---|
| 21 | Accessories                    | All the necessary tools & tackles licenses, cables/ connectors for Ethernet/ Fibre/ USB/ Power etc. required for making the system operational shall be provided by the bidder. |
| 22 | Industrial Standard Compliance | ACPI 2.0 Compliant, PCI 2.0 or higher Compliant, WOL Support, MS Logo Certification, USB 3.0 Support.   |
| 23 | Support                        | Drivers should be available for download from OEM site for at least 3 years from the date of purchase order   |
| 24 | Information Accessibility      | The detailed Technical specifications, product brochure of the Model with images should be available to public on OEM's official website for verification                       |
| 25 | Warranty                       | Onsite Warranty of 5 Years  |
|    | Keyboard and Mouse             | USB Keyboard and Mouse  |



| <b>Recording Server x 2 Nos.</b> |                                |  |
|----------------------------------|--------------------------------|--|
| Sr. No.                          | Feature                        | Detailed Specifications  |
| 1                                | Vendor Name                    |  |
| 2                                | Make                           |  |
| 3                                | Processor                      | Server should be configured with Latest Gen 2nos. Of Server Grade CPU's each with 16C/32T, 2.9Ghz  |
| 4                                | Chipset                        | Latest compatible chipset supporting above processor   |
| 5                                | Memory                         | 24 DDR4 DIMM slots, Supports RDIMM /LRDIMM, speeds min 2666MT/s or more, 3TB max   |
|                                  |                                | Configured with 64GB Memory (2 x 32 GB)  |
| 6                                | Memory Protection              | Advanced ECC with multi-bit error protection   |
| 7                                | Hard Drives                    | Front drive bays: Up to 16 x 2.5" SAS/SATA (HDD/SSD) or 8 x 3.5 "(HDD /SSD)  |
|                                  |                                | 2 x 980 GB Nvme (SSD) for Operating System Raid 0,1  |
|                                  |                                | 3 x 2 TB 10K SAS or more hot swappable system disk with mirroring using integrated RAID 5 on internal disks and  |
|                                  |                                | It should be possible to hot swap the drives without shutting down the server  |
| 8                                | Ethernet ports                 | Min. 2 x 10GE and 2x 10GE SFP+ with module and cables or better basis on solution requirement  |
| 9                                | Ports for Storage Connectivity | FC/iSCSI Ports as per solution design  |
| 10                               | Remote management port         | In addition to the above dedicated Remote Management should be done/ All the blades in the chassis should be remotely managed through Chassis                          |
| 11                               | Bus Slots                      | Minimum of 2 PCI expansions/Mezzanine expansions.  |
|                                  |                                | Bus slots should support for Dual/Quad Gigabit, Dual 10Gbps and Dual port 4x QDR Infini band options for increased bandwidth and additional network port requirements. |
| 12                               | Operating System               | Microsoft windows server 2016 Std Edition  |
| 13                               | OS Support                     | Microsoft Windows Server 2016 Std. Edition or better, Windows Server Hyper-V, Redhat   |

|    |                             |   |
|----|-----------------------------|---|
|    |                             | Enterprise Linux, SuSE Linux Enterprise Server  |
| 14 | Virtualization Support      | VMWARE ESX/ESXi, Microsoft Hyper-V, Citrix  |
| 15 | Alerts                      | Pre Failure alerts for all active and important components and automatic calls logging.   |
| 16 | Systems Management          | Smart Embedded Systems Management should be able to automate task like discovery deploy monitor and update.   |
|    |                             | Should not be dependent on agents to for life cycle management.   |
|    |                             | Should be able to provide Single console to manage Servers.   |
|    |                             | Power management tool – Single interface to optimize and control every usage  |
|    |                             | Should be able to integrate to 3rd party management tools.  |
|    |                             | Vendor should provide embedded features that helps to manage Servers in physical, local and remote environments, operating in-band or out-of-band, with or without a systems management software agent. |
|    |                             | Should include Power Management, necessary licenses should be included.   |
|    |                             | Should support remote scripted reconfiguration tools  |
|    |                             | Should be able to monitor all systems components (BIOS, HBA's, NICs)  |
| 17 | Security                    | Power-on password, administrator password.  |
|    |                             | The server should have silicon root of trust  |
| 18 | Systems Management Software | The server should come with systems management software to provide update management, configuration management, patch management and virtualization management.   |
| 19 | Benchmarks                  | Server family should have published benchmark (Spec_int_rate2006)   |
| 20 | Accessories                 | All the necessary tools & tackles licenses, cables/ connectors for Ethernet/ Fibre/ USB/ Power etc. required for making the system operational shall be provided by the bidder.                         |

|    |                                |   |
|----|--------------------------------|---|
| 21 | Industrial Standard Compliance | ACPI 2.0 Compliant, PCI 2.0 or higher Compliant, WOL Support, MS Logo Certification, USB 3.0 Support.   |
| 22 | Support                        | Drivers should be available for download from OEM site for at least 3 years from the date of purchase order   |
| 23 | Information Accessibility      | The detailed Technical specifications, product brochure of the Model with images should be available to public on OEM's official website for verification |
| 24 | Warranty                       | Onsite Warranty of 5 Years  |
| 25 | Keyboard and Mouse             | USB Keyboard and Mouse  |

**NOTE:**

1. Bidders should give point by point compliance w.r.t. the tender specifications. Bidders should provide technical literature and brochure of the offered model and mention the same in the compliance table. Bids without technical literature will be summarily rejected.
2. Point by point compliance of the bid in a tabular format w.r.t specifications along with reference to the pages in the technical literature submitted by the bidder is to be clearly mentioned and submitted.
3. Non-compliance to any of the two points above shall be treated as INCOMPLETE/PARTIAL BID & shall not be considered for further process.
4. If technical committee wishes to examine the instrument specification, the vendors may also be called for the demonstration of instrument for the various parameters.



# भारतीय विज्ञान शिक्षा एवं अनुसंधान संस्थान तिरुपति

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- 517 507

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### CHAPTER 5 PRICE SCHEDULE

The Bill of materials must be included in the technical offer as well as commercial offer. However, the Technical offer should not contain any price information.

### PRICE SCHEDULE FOR GOODS

Name of the Bidder \_\_\_\_\_

Tender No. \_\_\_\_\_

| Sr.No | Place of Manufacture in India | Description  | Qty | Unit | Unit Price | GST % | GST Amount | Total Amount Without taxes | Total Amount With taxes |
|-------|-------------------------------|--|-----|------|------------|-------|------------|----------------------------|-------------------------|
| 1     |                               | Fixed Bullet Camera                                    | 200 | Nos  |            |       |            |                            |                         |
| 2     |                               | Varifocal Bullet                                       | 125 | Nos  |            |       |            |                            |                         |
| 3     |                               | PTZ Camera   | 5   | Nos  |            |       |            |                            |                         |
| 4     |                               | VMS Server Software along with License for 330 Cameras | 1   | Nos  |            |       |            |                            |                         |
| 5     |                               | Management/ Failover Server Hardware                   | 1   | Nos  |            |       |            |                            |                         |
| 6     |                               | Recording Servers (Hardware)                           | 2   | Nos  |            |       |            |                            |                         |
| 7     |                               | Storage  | 1   | No   |            |       |            |                            |                         |
| 8     |                               | San Switch 8 x 16 Gbps                                 | 2   | Nos  |            |       |            |                            |                         |
| 9     |                               | Analytics along with Hardware for 64 Channel           | 1   | No   |            |       |            |                            |                         |
| 10    |                               | Client Hardware for Viewing                            | 1   | No   |            |       |            |                            |                         |



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|    |   |   |     |  |  |  |  |  |  |
|----|---|---|-----|--|--|--|--|--|--|
| 11 | Laying of UTP Cable with casing and capping per meter (billing will be done at actuals) | 1 | Nos |  |  |  |  |  |  |
| 12 | I/O Box ( Shall be of the same make of VMS or Camera )                                  | 1 | Nos |  |  |  |  |  |  |

Total Bid price in \_\_\_\_\_ in words

Signature of Bidder:

Name

Stamp

Note: The cost of optional items shall be indicated separately. The bidder may add rows to include the prices of all components & warranties, installation etc. whichever applicable. (a)Cost of spares \_\_\_\_\_ (b)Warranty if being charged include in BoQ



# भारतीय विज्ञान शिक्षा एवं अनुसंधान संस्थान तिरुपति

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**Annexure-'A'**

### FORMAT/QUESTIONNAIR FOR COMPLIANCE OF TERMS AND CONDITIONS

Tender No.: \_\_\_\_\_

Due Date \_\_\_\_\_

#### NOTE:

1. **Quotation will not be considered without submission of this format.**
2. **If a particular question is not at all applicable please write NA in compliance part in Col. No. 4 below.**
3. **Kindly see the relevant terms & conditions of the tender document in each question before replying to the questions mentioned in Col. 2 below).**

| SNo | Terms & condition of Tender document   | Whether acceptable (say 'Yes' or 'No' (preferably use different colour ink for 'No') | Deviation from tender terms, if any, with reasons for noncompliance or alternative condition quoted for |
|-----|--|--|---|
| 1   | 2  | 3  | 4   |
| 1   | a.) Whether quotation is direct from Principal supplier/manufacturer or their own office in India (Please specify) |  |   |



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| SNo | Terms & condition of Tender document   | Whether acceptable (say 'Yes' or 'No' (preferably use different colour ink for 'No')) | Deviation from tender terms, if any, with reasons for noncompliance or alternative condition quoted for |
|-----|--|---|---|
|     | b) Whether quotation is being submitted by Indian Agent/authorized distributor/ dealer   |   |   |
|     | c) Whether the agent is registered with NSIC/MSME  |   |   |
| 2   | Whether techno-commercial Bid contains, technical literature/leaflets, detailed specifications & commercial terms & conditions etc. as applicable. |   |   |
| 3   | a) Whether the required Scanned copy of Tender Fee is being submitted with the quotation   |   |   |
|     | b) Please specify the form of whether in the form of DD/NEFT   |   |   |



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| SNo | Terms & condition of Tender document  | Whether acceptable (say 'Yes' or 'No' (preferably use different colour ink for 'No') | Deviation from tender terms, if any, with reasons for noncompliance or alternative condition quoted for |
|-----|---|--|---|
|     | C)Whether specific amounts or percentage of expenses like packing, forwarding, handling, freight, insurance, documentation etc. have been mentioned in quotation separately in clear terms. |  |   |
| 5   | a) Whether prevailing rates of sales tax, excise duty & other govt. levies (for indigenous supplies) have been given in quotation   |  |   |
| 6   | Have you mentioned the validity period of the quotation as per our requirements   |  |   |
| 7   | a) Whether the Price reasonability Certificate is submitted with quotation  |  |   |
|     | b) Whether copies of last three supply orders of the same item from other customers have been attached with the quotation   |  |   |
| 8   | Whether rates/amount of AMC after the warranty period is over has been mentioned  |  |   |





# भारतीय विज्ञान शिक्षा एवं अनुसंधान संस्थान तिरुपति

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| SNo | Terms & condition of Tender document   | Whether acceptable (say 'Yes' or 'No' (preferably use different colour ink for 'No')) | Deviation from tender terms, if any, with reasons for noncompliance or alternative condition quoted for |
|-----|--|---|---|
| 9   | Have you gone through the specification Clause & complied with the same  |   |   |
| 10  | Whether the Make/Brand, Model number and name of manufacturer has been mentioned in the quotation and Printed technical literature/ leaflets of quoted items have been submitted |   |   |
| 11  | Whether compliance statement of specifications has been attached with the quotation.   |   |   |
| 12  | a) Whether the delivery period for supply of the items has been mentioned  |   |   |
|     | b) Whether mode of delivery & tentative size & weight of the consignment has also been indicated   |   |   |



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| SNo | Terms & condition of Tender document  | Whether acceptable (say 'Yes' or 'No' (preferably use different colour ink for 'No') | Deviation from tender terms, if any, with reasons for noncompliance or alternative condition quoted for |
|-----|---|--|---|
| 13  | Do you agree to the submission of Performance Bank Guarantee and have you mentioned in your quotation about this.     |  |   |
| 14  | Do you agree with the payment terms for indigenous supplies?  |  | No deviation permitted  |
| 15  | Do you agree about the date of commencement of warranty period & its extension is necessary.                          |  |   |
| 16  | a) Who will install/commission and demonstrate the equipment <b>at IISER Tirupati, permanent campus FREE OF COST.</b> |  |   |
|     | b) Will you be able to do it within a month   |  |   |
| 17  | Have you mentioned the guarantee/warranty period in your quotation and do you agree with guarantee clause?            |  |   |
| 18  | Spare parts   |  |   |



# भारतीय विज्ञान शिक्षा एवं अनुसंधान संस्थान तिरुपति

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| SNo | Terms & condition of Tender document   | Whether acceptable (say 'Yes' or 'No' (preferably use different colour ink for 'No') | Deviation from tender terms, if any, with reasons for noncompliance or alternative condition quoted for |
|-----|--|--|---|
| 19  | After Sales service  |  |   |
| 20  | a) Do you agree that on receipt of material in damaged condition or short supply you will replace the same on CIF basis, free of cost pending the settlement of the insurance claim? |  |   |
|     | b) Do you agree with the clause of physical inspection?  |  |   |
| 21  | Whether list of specific user's for the same item & model as quoted along-with performance certificates from the users is submitted with offer                                       |  |   |
| 22  | Whether you agree to the penalty clause for late delivery & installation?  |  |   |



# भारतीय विज्ञान शिक्षा एवं अनुसंधान संस्थान तिरुपति

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| SNo | Terms & condition of Tender document  | Whether acceptable (say 'Yes' or 'No' (preferably use different colour ink for 'No')) | Deviation from tender terms, if any, with reasons for noncompliance or alternative condition quoted for |
|-----|---|---|---|
| 23  | Whether training to our scientist/technical person <b>will be given free of cost</b> . If yes, have you specified in quotation whether it will be in our lab? Or at supplier's site in India or abroad. |   |   |
| 24  | a) Whether all the pages have been page numbered?   |   |   |
|     | b) Whether quotation has been signed and designation & name of signatory mentioned.   |   |   |
| 25  | Whether documentary evidence of bidders as given in Eligibility Criteria submitted  |   |   |



**ANNEXURE - B**

**FORMAT OF COMPLIANCE STATEMENT OF SPECIFICATIONS**

| 1        | 2  | 3                                    | 4                                | 5   | 6  |
|----------|--|--------------------------------------|----------------------------------|---|--|
| S.<br>N. | Name of specifications/part / Accessories of tender enquiry As per Chapter 4 of the Tender Document. | Specifications of quoted Model/ Item | Compliance Whether "YES" Or "NO" | Deviation, if any, to be indicated in unambiguous terms | Whether the compliance / deviation is clearly mentioned in technical leaflet/ literature |
| 1        |  |                                      |                                  |   |  |
| 2        |  |                                      |                                  |   |  |
| 3        |  |                                      |                                  |   |  |

Note : Bidders are required to fill this table as per the specifications given in the Chapter 4 of this Tender Document. The points needs to be reproduced in the table at Column No 2 and then fill in the relevant details for each specifications.

Signature of the Bidder

Name

Stamp



**ANNEXURE-C**

**MANUFACTURER'S AUTHORIZATION FORM**

[The Bidder shall require the Manufacturer to fill in this Form in accordance with the instructions indicated. This letter of authorization should be on the letterhead of the Manufacturer and should be signed by a person with the proper authority to sign documents that re binding on the Manufacturer]

Date: [Insert date (as Day, month and year) of Bid submission]

Tender No.: [Insert number from Invitation for Bids]

To: [Insert complete name and address of Purchaser]

WHEREAS

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

We hereby extend our full guarantee and complete comprehensive warranty in accordance with the Terms and Conditions of Contract with respect to the Goods offered by the above firm for the complete warranty period.

Signed: [insert signature(s) of authorized representative(s) of the Manufacturer]

Name: [insert complete name(s) of authorized representative(s) of the Manufacturer]

Title: [insert title]

Duly authorized to sign this Authorization on behalf of: [insert complete name of Bidder]

Dated on \_\_\_\_\_ day of \_\_\_\_\_ [insert date of sign in]



**भारतीय विज्ञान शिक्षा एवं अनुसंधान संस्थान तिरुपति**  
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Transit campus: Sree Rama Engineering College Campus, Rami Reddy Nagar,  
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**ANNEXURE - D**

**Bid Securing Declaration Form**

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

Tender No. \_\_\_\_\_

To (insert complete name and address of the purchaser)

I/We. The undersigned, declare that:

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

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

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

b) having been notified of the acceptance of our Bid by the purchaser during the period of bid validity (i) fail or reuse to execute the contract, if required, or (ii) fail or refuse to furnish the Performance Security, in accordance with the Instructions to Bidders.

I/We understand this Bid Securing Declaration shall cease to be valid if I am/we are not the successful Bidder, upon the earlier of (i) the receipt of your notification of the name of the successful Bidder; or (ii) thirty days after the expiration of the validity of my/our Bid.

Signed: \_\_\_\_\_ (insert signature of person whose name and capacity are shown)

in the capacity of \_\_\_\_\_ (insert legal capacity of person signing the Bid Securing Declaration)

Name: \_\_\_\_\_ (insert complete name of person signing he Bid Securing Declaration)

Duly authorized to sign the bid for an on behalf of (insert complete name of Bidder)

Dated on \_\_\_\_\_ day of \_\_\_\_\_ (insert date of signing)

Corporate Seal (where appropriate)

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



# भारतीय विज्ञान शिक्षा एवं अनुसंधान संस्थान तिरुपति

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**Annexure-'E'**

### PREVIOUS SUPPLY ORDERS FORMAT

Name of the Firm \_\_\_\_\_

| Order placed by<br><i>{Full address of Purchaser}</i> | Order No. and Date | Description and quantity of ordered equipment | Value of order | Date of completion of delivery as per contract | Date of actual completion of delivery | Remarks indicating reasons for late delivery, if any and justification for price difference of their supply order & those quoted to us. | Has the equipment been installed satisfactorily? | Contact Person along with Telephone no., Fax no. and e-mail address. |
|---|--------------------|---|----------------|--|---------------------------------------|---|--|--|
|   |                    |   |                |  |                                       |   |  |  |

Signature and Seal of the Manufacturer/ bidder .....

Place:Date:





# भारतीय विज्ञान शिक्षा एवं अनुसंधान संस्थान तिरुपति

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**Annexure-'F'**

### **BIDDER INFORMATION FORM**

Company Name : \_\_\_\_\_  
Registration Number : \_\_\_\_\_  
Registered Address : \_\_\_\_\_  
\_\_\_\_\_

Name of Partners /Director : \_\_\_\_\_  
\_\_\_\_\_

City : \_\_\_\_\_

Postal Code : \_\_\_\_\_

Company's Establishment Year : \_\_\_\_\_

Company's Nature of Business : \_\_\_\_\_

Company's Legal Status 1) Limited Company

(tick on appropriate option ) 2) Undertaking

3) Joint Venture

4) Partnership

5) Others

Company Category 1) Micro Unit as per MSME

2) Small Unit as per MSME

3) Medium Unit as per MSME

4) Ancillary Unit

5) SSI

6) Others

### **CONTACT DETAILS**

Contact Name: \_\_\_\_\_

Email Id : \_\_\_\_\_

Designation : \_\_\_\_\_

Phone No : ( \_\_\_\_\_ ) \_\_\_\_\_

Mobile No : \_\_\_\_\_

### **BANK DETAILS**

Name of Beneficiary : \_\_\_\_\_

A/c. No. CC/CD/SB/OD: \_\_\_\_\_

Name of Bank : \_\_\_\_\_

IFSC NO. (Bank) : \_\_\_\_\_



# भारतीय विज्ञान शिक्षा एवं अनुसंधान संस्थान तिरुपति

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Branch Address and Branch Code: \_\_\_\_\_

### Other Details

Vendor's PAN No. \_\_\_\_\_

Vendor's CST No/LST No/WCT No/TIN No: \_\_\_\_\_



# भारतीय विज्ञान शिक्षा एवं अनुसंधान संस्थान तिरुपति

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**Annexure-'G'**

### **DECLARATION REGARDING CLEAN TRACK/NO LEGAL ACTION**

(to be provided on letter head of the firm)

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

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

Date:

Authorized Signatory

Place:

Name:

Designation:

Contact No.:



# भारतीय विज्ञान शिक्षा एवं अनुसंधान संस्थान तिरुपति

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**Annexure-'H'**

### CERTIFICATE

#### ON COMPANY LETTERHEAD

#### CERTIFICATE BY BIDDER- DPIIT REGISTRATION

I have read the clause regarding restrictions on procurement from a bidder of a country which shares a land border with India; I certify that this bidder is not from such a country or, / if from such a county, has been registered with the Competent Authority (copy of the Registration Certificate enclosed) .

I hereby certify that this bidder fulfils all requirements in this regard and is eligible to be considered for this tender no. \_\_\_\_\_ dated \_\_\_\_\_ listed by IISER Tirupati.

Signature with Date and Stamp

Of the Bidder



# भारतीय विज्ञान शिक्षा एवं अनुसंधान संस्थान तिरुपति

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**Annexure-'I'**

### **Self-Certification regarding Local Content (LC) for Goods, Services or Works** **(to be provided on Rs. 100/- Stamp Paper)**

Date: .....

I \_\_\_\_\_ S/o, D/o, W/o \_\_\_\_\_, Resident of \_\_\_\_\_

do hereby solemnly affirm and declare as under:

That I will agree to abide by the terms and conditions of Indian Institute of Science Education and Research, Tirupati, Ministry of Education, Government of India issued vide Tender Enquiry No. .... dated .....

That the information furnished hereinafter is correct to best of my knowledge and belief and I undertake to produce relevant records before the procuring authority or any authority nominated by IISER Tirupati for the purpose of assessing the LC.

That the LC for all inputs which constitute the said Goods /Services/Works has been verified by me and I am responsible for the correctness of the claims made therein.

That in the event of the LC of the Goods/Services/Works mentioned herein is found to be incorrect and not meeting the prescribed LC norms, based on the assessment of an authority nominated by IISERT Tirupati and I will be liable as under clause 9(f) of Public Procurement (Preference to Make in India) Order 2017.

I agree to maintain all information regarding my claim for LC in the Company's record for a period of 2 years and shall make this available for verification to any statutory authorities:

i. Name and details of the Local Supplier:

(Registered Office, Manufacturing unit location, nature of legal entity)

ii. Date on which this certificate is issued:

iii. Product for which the certificate is produced:

iv. Procuring agency to whom the certificate is furnished:

v. Percentage of LC claimed:

vi. Name and contact details of the unit of the manufacturer:

For and on behalf of \_\_\_\_\_ (Name of firm/entity)

Authorized signatory (To be duly authorized by the Board of Directors)

<Insert Name, Designation and Contact No.>



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**Annexure-'J'**

### **NO RELATIONSHIP CERTIFICATE**

(On Company Letterhead)

1. I/We hereby certify that I/We\* am/are\* related/not related (\*) to any officer of IISER Tirupati. (If Related provide the details of the employee)
2. I/We\* am/are\* aware that, if the facts subsequently proved to be false, my/our\* contract will be rescinded with forfeiture security deposit and I/We\* shall be liable to make goods the loss or damage resulting from such cancellation.
3. I//We also note that, non-submission of this certificate will render my / our tender liable for rejection.

Date:

Place:

Authorized Signatory

Name:

Designation:

Contact No.:



# भारतीय विज्ञान शिक्षा एवं अनुसंधान संस्थान तिरुपति

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**ANNEXURE-'K'**

### ANNUAL MAINTENANCE CONTRACT

We hereby certify that the Annual Maintenance Contract for the equipment, after expiry of warranty period will be charged as follows :

#### For Comprehensive AMC

- 1) 1<sup>st</sup> year \_\_\_ % of the equipment value
- 2) 2<sup>nd</sup> year \_\_\_% of the equipment value
- 3) 3<sup>rd</sup> year \_\_\_% of the equipment value.

#### For Non - Comprehensive AMC

- 1) 1<sup>st</sup> year \_\_\_ % of the equipment value
- 2) 2<sup>nd</sup> year \_\_\_% of the equipment value
- 3) 3<sup>rd</sup> year \_\_\_% of the equipment value.

We also certify that the spares for the equipment will be available for the equipment for \_\_\_ years.

Date:

Place:

Authorized Signatory

Name:

Designation:

Contact No.:



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**ANNEXURE-'L'**

## UNDERTAKING FOR SUBMISSION OF PERFORMANCE BANK GUARANTEE

(On company Letter Head)

Date:.....

Tender No.:.....

We undertake to submit Performance Bank Guarantee (PBG) of 3% of the order value in case IISER Tirupati decides to award the contract to us against tender no. .... dated ..... for Design, supply, installation, Integration, Testing and commissioning of **MALDI TOF/TOF System**. The PBG will be valid for 60 days beyond the expiry of post installation, comprehensive maintenance / warranty period of three years for the proposed installation.

Thanking you,

Sincerely,

For M/s \_\_\_\_\_ (Name of the bidder)

Signature & company

Seal

Name

Designation

Contact.





# भारतीय विज्ञान शिक्षा एवं अनुसंधान संस्थान तिरुपति

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**ANNEXURE-'M'**

### PRE CONTRACT INTEGRITY PACT

**The specimen of the Pre-Contract Integrity Pact which is part of tender documents is as follows: -**

#### **INTEGRITY PACT**

This pre-bid pre-contract Agreement (hereinafter called the Integrity Pact) is made on \_\_\_\_ day of the month \_\_\_\_ 2021 between the Indian Institute of Science Education & Research, Tirupati (herein after referred to as 'BUYER'), which expression shall mean and include, unless the context otherwise requires, his successors in office and assigns) of the First Part and M/s \_\_\_\_\_ represented by Shri \_\_\_\_\_ Chief Executive Officer (hereinafter called the " BIDDERS / Seller" , which expression shall mean and include, unless the context otherwise requires, his successors and permitted assigns) of the Second Part.

Whereas the BUYER proposes to procure Supply, Installation & Commissioning of \_\_\_\_\_ and the BIDDERS / Seller is willing to offer / has offered the stores and  
Whereas the BIDDERS is a private company/public company/partnership/ registered

export agency, constituted in accordance with the relevant law in the matter and

the BUYER is a Department of the Government of India under Ministry of Education performing functions on behalf of the President of India.

Now, therefore,

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

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

Enabling BIDDERS to abstain from bribing or indulging in any corrupt practice in order to secure the contract by providing assurance to them that their competitors will also abstain



# भारतीय विज्ञान शिक्षा एवं अनुसंधान संस्थान तिरुपति

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from bribing and other corrupt practices and the BUYER will commit to prevent corruption in any form by its officials by following transparent procedures.

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

### **Commitments of the BUYER**

- 1.1. The BUYER undertakes that no official of the BUYER, connected directly or Indirectly with the contract, will demand, take a promise for or accept, directly or through intermediaries, any bribe, consideration, gift, reward, favour or any material or immaterial benefit or any other advantage from the BIDDER either for themselves or for any person, organization or third party related to the contract in exchange for an advantage in the bidding process, bid evaluation, contracting or implementation process related to the Contract.
- 1.2. The BUYER will, during the pre-contract stage, treat all Bidders alike, and will provide to all Bidders the same information and will not provide any such information to any particular Bidder which could afford an advantage to that particular Bidder in comparison to other Bidder
- 1.3. All the officials of the BUYER will report to the appropriate Government office any attempted or completed breaches of the above commitments as well as any substantial suspicion of such a breach.

In case any such preceding misconduct on the part of such official (s) is reported by the Bidder to the BUYER, with full and verifiable facts and the same is prima facie found to be correct by the BUYER, necessary disciplinary proceedings, or any other action as deemed fit, including criminal proceedings may be initiated by the BUYER and such a person shall be debarred from further dealings related to the contract process. In such a case while an enquiry is being conducted by the BUYER the proceedings under the contract would not be stalled.

### **Commitments of BIDDER**

2. The BIDDER commits himself to take all measures necessary to prevent corrupt practices, unfair means and illegal activities during any stage of its bid or during any pre-contract or post-contract stage in order to secure the contract or in furtherance to secure it and in particular commits himself to the following:

- 2.1 The BIDDER will not offer, directly or through intermediaries, any bribe, Consideration, gift, reward, favour, any material or immaterial benefit or other



## भारतीय विज्ञान शिक्षा एवं अनुसंधान संस्थान तिरुपति

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advantage, commission, fees, brokerage or inducement to any official of the BUYER, connected directly or indirectly with bidding process, or to any person, organization or third party related to the contract in exchange for any advantage in the bidding, evaluation, contracting and implementation of the Contract.

- 2.2 The BIDDER not to enter into any undisclosed agreement or understanding with other bidders with respect to prices, specifications, certifications, subsidiary contracts etc.
- 2.3 The BIDDER further undertakes that he has not given, offered or promised to give, directly or indirectly any bribe, gift, consideration, reward, favour, any material or immaterial benefit or other advantage, commission, fees, brokerage or inducement to any official of the BUYER or otherwise in procuring the Contract or forbearing to do or having done any act in relation to the obtaining or execution of the Contract or any other Contract with the BUYER for showing or forbearing to show favour or disfavour to any person in relation to the Contract or any other Contract with respect to the BUYER's Organization.
- 2.4 BIDDERS shall disclose the name and address of agents and representatives and Indian BIDDERS shall disclose their foreign principals or associates.
- 2.5 BIDDERS shall disclose the payments to be made by them to agents/brokers on any other intermediary, in connection with this bid/contract.
- 2.6 The BIDDERS further confirms and declares to the BUYER that the BIDDER is the original manufacturer/ integrator/ authorized Govt. sponsored Export entity of the stores and has not engaged any individual or firm or company whether Indian or foreign to intercede, facilitate or in any way to recommend to the BUYER, or any of its functionaries, whether officially or unofficially to the award of the contract to the BIDDER; nor has any amount been paid, promised or intended to be paid to any such individual, firm or Company in respect of any such intercession, facilitation or recommendation.
- 2.7 The BIDDER, either while presenting the bid or during pre-contract negotiations or before signing the contract, shall disclose any payments he has made, is committed to or intends to make to officials of the BUYER or their family members, agents, brokers or any other intermediaries in connection with the contract and the details of services agreed upon for such payments.



## भारतीय विज्ञान शिक्षा एवं अनुसंधान संस्थान तिरुपति

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- 2.8 The BIDDER will not collude with other parties interested in the contract to impair the transparency, fairness and progress of the bidding process, bid evaluation, contracting and implementation of the contract.
- 2.9 The BIDDER will not accept any advantage in exchange for any corrupt practice, unfair means and illegal activities.
- 2.10 The BIDDER shall not use improperly, for purposes of competition or personal gain, or pass on to others, any information provided by the BUYER as part of the business relationship, regarding plans, technical proposals and business details; including information contained in any electronic data carrier. The BIDDER also undertakes to exercise due and adequate care lest any such information is divulged.
- 2.11 The BIDDER not to pass any information provided by the BUYER as part of business relationship to others and not to commit any offence under PC/IPC act;
- 2.12 The BIDDER commits to refrain from giving any complaint directly or through any other manner without supporting it with full and verifiable facts.
- 2.13 The BIDDER shall not instigate or cause to instigate any third person to commit any of the actions mentioned above.
- 2.14 If the BIDDER or any employee of BIDDER or any person acting on behalf of BIDDER, either directly or indirectly, is a relative of any of the officers of the BUYER, or alternatively, if any relative of an officer of the BUYER has financial interest / stake in the BIDDERS firm, the same shall be disclosed by the BIDDER at the time of filling of tender. The term 'relative' for this purpose would be as defined in Section 6 of the Companies Act 1956.

### **3. Previous Transgression**

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



# भारतीय विज्ञान शिक्षा एवं अनुसंधान संस्थान तिरुपति

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#### 4. **Bid Security Declaration**

- 4.1. While submitting the technical bid, the BIDDER shall also submit Bid security declaration as per Annexure- XX
- 4.2. In the case of successful BIDDER, a clause would also be incorporated in the Article pertaining to Performance Bond in the Purchase Contract that the Provisions of Sanctions for Violation shall be applicable for forfeiture of Performance Bond in case of a decision by the BUYER to forfeit the same without assigning any reason for imposing sanction for violation of this pact.
- 4.3. No interest shall be payable by the BUYER to the BIDDER(s) on Security Deposit for the period of its currency.

#### 5. **Sanctions for Violation**

Any breach of the aforesaid provisions by the BIDDER or any one employed by him or acting on his behalf (whether with or without the knowledge of the BIDDER) shall entitle the BUYER to take all or any one of the following action, wherever required: -

(i) To immediately call off the pre-contract negotiations without assigning any reason or giving any compensation to the BIDDER. However, the proceedings with the other BIDDER(s) would continue.

(ii) The Earnest Money (in pre - contract stage and /or/ Security deposit/Performance Bond (after the contract is signed) shall stand forfeited either fully or partially, as decided by the BUYER and the BUYER shall not be required to assign any reason therefore.

(iii) To immediately cancel the contract, if already signed without giving any compensation to the BIDDER.

(iv) To recover all sums already paid by the BUYER, and in case of an Indian BIDDER with interest thereon at 2% higher than the prevailing Prime Lending Rate, while in case of a BIDDER from a country other than India with interest thereon at 2% higher than the LIBOR. If any outstanding payment is due by the BUYER to the BIDDER in connection with any other contract for any other stores, such outstanding payment could also be utilized to recover the aforesaid sum and interest.

(v) To encash the advance bank guarantee and performance bond/warranty bond, if furnished by the BIDDER, in order to recover the payments, already made by the BUYER, along with interest,

(vi) To cancel all or any other Contracts with the BIDDER. The BIDDER shall be liable to pay compensation for any loss or damage to the BUYER resulting from such cancellation/rescission and the BUYER shall be entitled to deduct the amount so payable from the money due to the BIDDER.



# भारतीय विज्ञान शिक्षा एवं अनुसंधान संस्थान तिरुपति

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(vii) To debar the BIDDER from participating in future bidding process of the Government of India for a minimum period of five years, which may be further extended at the discretion of the BUYER.

(viii) To recover all sums paid in violation of this pact by the BIDDER(s) to any middleman or agent or broker with a view to securing the contract.

(ix) In cases where irrevocable Letters of Credit have been received in respect of any contract signed by the BUYER with the BIDDER, the same shall not be opened.

(x) Forfeiture of Performance Bond in case of a decision by the BUYER to forfeit the same without assigning any reason for imposing sanction for violation of this Pact.

5.1. The BUYER will be entitled to take or any of the actions mentioned at para 5.1 (i) to (x) of the Pact also on the Commission by the BIDDER or any one employed by it or acting on its behalf (whether with or without the knowledge of the BIDDER), of an offence as defined in Chapter IX of the Indian Penal Code, 1860 or Prevention of Corruption Act 1988 or any other statute enacted for prevention of corruption.

5.2. The decision of the BUYER to the effect that a breach of the provisions of this Pact has been committed by the BIDDER shall be final and conclusive on the BIDDER. However, the BIDDER can approach the independent Monitors appointed for the purpose of the Pact.

### **6. Fall Clause**

6.1 The Bidder undertakes that he has not supplied/is not supplying the similar systems or subsystems at a price lower than that offered in the present bid in respect of any other Defense/ Public Sector Undertakings/Public sector undertakings/Ministry of Defense and if it is found at any stage that the similar system or sub-system was supplied by the BIDDER to any other Defense Public Sector Undertakings/Public Sector Undertaking/Ministry of Defense at a lower price, then that very price, with due allowance for elapsed time, will be applicable to the present case and the difference in the cost would be refunded by the BIDDER to the BUYER, if the contract has already been concluded.

### **7. Independent External Monitor(s)**

7.1. The BUYER is in the process of appointing independent Monitors (herein after referred to as Monitors), for this Pact in consultation with Central Vigilance Commission.

7.2. The task of the Monitor is to review independently and objectively, whether and to what extent the parties comply with the obligations under this Pact.

7.3. The Monitor shall not be subject to instructions by the representatives of the parties and performs their functions neutrally and independently.



# भारतीय विज्ञान शिक्षा एवं अनुसंधान संस्थान तिरुपति

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- 7.4. Both the parties accept that the Monitors have the right to access all the documents relating to the project / procurement, including minutes of meetings.
- 7.5. As soon as the Monitor notices, or has reason to believe, a violation of this Pact, he will so inform the Authority designated by the IISER.
- 7.6. The BIDDER(s) accepts that the Monitor has the right to access without restriction to all project documentation of the BUYER including that provided by the BIDDER. The BIDDER will also grant the Monitor, upon his request and demonstration of a valid interest, unrestricted and unconditional access to his project documentation. The same is applicable to subcontractors. The Monitor shall be under contractual obligation to treat the information and documents of the BIDDER(s) / Contractor(s) / Subcontractor(s) with confidentiality.
- 7.7. The BUYER will provide to the Monitor sufficient information about all meetings among the parties related to the Project provided such meetings could have an impact on the contractual relations between the BUYER and the Contractor. The parties offer to the Monitor the option to participate in such meetings.
- 7.8. The Monitor will submit a written report to the Director IISER, Tirupati within 8 to 10 weeks from the date of reference or intimation to him by the BUYER and BIDDER and should the occasion arise, submit proposals for correcting problematic situations.

### **8. Facilitation of Investigation**

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

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

This Pact is subject to Indian Law. The place of performance and Jurisdiction is Tirupati.

### **10. Other Legal Actions**

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



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### **11. Validity**

11.1. The validity of this Integrity Pact shall be from date of its signing and extend up to 5 years or till the complete execution of the contract to the satisfaction of both the BIDDER and the BUYER, whichever is later.

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

12 The Parties hereby sign this Integrity Pact at \_\_\_\_\_ on \_\_\_\_\_

BUYER  
Name of the Officer  
Designation  
IISER Tirupati

BIDDER

Witness

Witness

1. \_\_\_\_\_

1. \_\_\_\_\_

2 \_\_\_\_\_

2 \_\_\_\_\_





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INDIAN INSTITUTE OF SCIENCE EDUCATION AND RESEARCH TIRUPATI  
(An Autonomous Institution of Ministry of Human Resource Development Govt. of India)



### DETAILS OF THE ACCOUNT HOLDER

|   |  |
|---|--|
| Name of the Account Holder A As per Bank records) | Indian Institute of Science education and Research Tirupati          |
| Account Number of the above account               | 35029946671  |
| Complete contact address                          | IISER Tirupati, Karakambadi Road, Mangalam (B.O.), Tirupati – 517507 |
| Telephone No.                                     | 0877 - 2500400   |
| Fax No.   | 0877 - 2500250   |
| E-mail  | director@iisertirupati.ac.in   |

### BANK ACCOUNT DETAILS

|  |  |
|--|--|
| Bank name ( Full)                          | State Bank of India                                      |
| Branch name                                | Korlagunta Branch, Tirupati                              |
| Complete Contact address                   | 20-3-124, Penumadi towers, Leela mahal circle, Tirupati. |
| Telephone No.                              | 0877-2251408   |
| E-mail                                     | sbi.01901@sbi.co.in                                      |
| 9-digit code No. of Bank & Branch          | 517002004  |
| Account Number                             | 35029946671  |
| Account Type (SB/ CURRENT/CASH/CREDIT Etc) | CURRENT  |
| IFSC code No. of the Bank                  | SBIN0001901  |

Certified that the Institute's account is on RTGS enabled branch.

I hereby declare that the particulars given above are correct and complete.

Date: 14 Dec 2017

Signature of the Competent Authority  
of the Institute  
विशेष अधिकारी / Director  
भारतीय विज्ञान शिक्षा एवं अनुसंधान संस्थान तिरुपति  
Indian Institute of Science Education and Research Tirupati  
Tirupati - 517507, भारत/India.

Certified that the particulars furnished above are correct and complete.

Date: 14/12/2017

For STATE BANK OF INDIA

मुख्य प्रबंधक, कोरलागुन्टा (तिरुपति)  
Chief Manager, Korlagunta, (Tirupati)  
Authorized Official with Bank seal.

Please attach a photocopy of cheque (if possible) along with the verification obtained from the bank.

Transit Campus Sree Rama Engineering College Karakambadi Road Mangalam (B.O.)  
Tirupati 517507 Andhra Pradesh India  
Tel +91 (0877) 2500 400 Fax +91 (0877) 2500 450 Website: [www.iisertirupati.ac.in](http://www.iisertirupati.ac.in)



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**Annexure-'O'**

### ACCEPTANCE OF TENDER TERMS

(To be given on Company Letter Head)

Date: DD/MM/YYYY

To,  
The Director  
Indian Institute of Science Education and Research, Tirupati  
Tirupati – 517507.Andhra Pradesh, India

Sub: Acceptance of Terms & Conditions of Tender.

Tender Reference No: \_\_\_\_\_

Name of Tender / Work: -

Dear Sir,

1. I / We have downloaded / obtained the tender document(s) for the above mentioned 'Tender' from the web site(s) namely \_\_\_\_\_ as per your advertisement, given in the above mentioned website(s).

2. I / We hereby certify that I / we have read the entire terms and conditions of the tender documents (including all documents like annexure(s), schedule(s), etc.), which form part of the contract agreement and I / we shall abide hereby by the terms / conditions / clauses contained therein.

3. The corrigendum(s) issued from time to time by your department/ Organisation too have also been taken into consideration, while submitting this acceptance letter.

4. I / We hereby unconditionally accept the tender conditions of above mentioned tender document(s) / corrigendum(s) in its totality / entirety.

5. I / We certify that all information furnished by our Firm is true & correct and in the event that the information is found to be incorrect/untrue or found violated, then your department/ Organization shall without giving any notice or reason therefore or summarily reject the bid or terminate the contract, without prejudice to any other rights or remedy including that we can be debarred for a period up to two years as, per Rule 151(iii) of GFR 2017, in case of false declaration.

Yours Faithfully,

(Signature of the Bidder, with Official Seal)



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## **CHECKLIST FOR BIDDER**

BIDDERS to indicate whether the following are enclosed/mentioned by striking out the non-relevant option

| <b>Envelope-1(Technical-Bid)</b><br>(Following documents to be provided as single PDF file) |               |   |            |                   |
|---|---------------|---|------------|-------------------|
| Sl. No.   | Documents     | Content   | File Types | Document Attached |
| 1   | Technical Bid | Scan copies of both Tender Fee of Rs.1,000/-  | .PDF       | ( Yes /No )       |
| 2   |               | ANNEXURE – A - FORMAT/QUESTIONNAIRE FOR COMPLIANCE OF TERMS AND CONDITIONS                  | .PDF       | ( Yes /No )       |
| 3   |               | ANNEXURE – A - FORMAT/QUESTIONNAIRE FOR COMPLIANCE OF TERMS AND CONDITIONS                  | .PDF       | ( Yes /No )       |
| 4   |               | ANNEXURE – B - FORMAT OF COMPLIANCE STATEMENT OF SPECIFICATIONS                             | .PDF       | ( Yes /No )       |
| 5   |               | ANNEXURE – C- MANUFACTURER’S AUTHORIZATION FORM   | .PDF       | ( Yes /No )       |
| 6   |               | ANNEXURE – D- BID SECURING DECLARATION FORM   | .PDF       | ( Yes /No )       |
| 7   |               | ANNEXURE – E – PREVIOUS SUPPLY ORDER LIST FORMAT  | .PDF       | ( Yes /No )       |
| 8   |               | ANNEXURE – F - BIDDER INFORMATION FORM  | .PDF       | ( Yes /No )       |
| 9   |               | ANNEXURE – G - BLACKLIST CERTIFICATE  | .PDF       | ( Yes /No )       |
| 10  |               | ANNEXURE – H - CERTIFICATE BY BIDDER- DPIIT REGISTRATION                                    | .PDF       | ( Yes /No )       |
| 11  |               | ANNEXURE – I - SELF-CERTIFICATION REGARDING LOCAL CONTENT (LC) FOR GOODS, SERVICES OR WORKS | .PDF       | ( Yes /No )       |
| 12  |               | ANNEXURE – J - NO RELATIONSHIP CERTIFICATE  | .PDF       | ( Yes /No )       |
| 13  |               | ANNEXURE – K – ANNUAL MAINTENANCE CONTRACT  | .PDF       | ( Yes /No )       |
| 14  |               | ANNEXURE – L- UNDERTAKING FOR SUBMISSION OF PERFORMANCE BANK GUARANTEE                      | .PDF       | ( Yes /No )       |
| 15  |               | ANNEXURE – M PRE-CONTRACT INTEGRITY PAC=  | .PDF       | ( Yes /No )       |
| 16  |               | SELF-ATTESTED COPY OF GST NUMBER (AS APPLICABLE)  | .PDF       | ( Yes /No )       |



# भारतीय विज्ञान शिक्षा एवं अनुसंधान संस्थान तिरुपति

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| 17                               |               | TENDER TERMS & CONDITIONS ACCEPTANCE SIGNED WITH OFFICIAL SEAL IS ATTACHED  | .PDF       | ( Yes /No )       |
|----------------------------------|---------------|---|------------|-------------------|
| 18                               |               | SOLVENCY CERTIFICATE FOR RS -----) (NOT OLDER THAN TWELVE MONTHS) ISSUED BY SCHEDULED/NATIONALIZED BANK WITH WHICH BIDDER HOLDS THE CURRENT ACCOUNT | .PDF       | ( Yes /No )       |
| <b>Envelope-2(Financial-Bid)</b> |               |   |            |                   |
| Sl. No.                          | Documents     | Content   | File Types | Document Attached |
| 1                                | Financial Bid | Price bid should be submitted in PDF Format along with bill of material   | .pdf       | ( Yes /No )       |
| 2                                | Financial Bid | Price bid should be submitted in Excel (BOQ) Format   | .xls       | ( Yes /No )       |



## भारतीय विज्ञान शिक्षा एवं अनुसंधान संस्थान तिरुपति

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### **IMPORTANT NOTICE**

TENDERERS RESPONDING TO THIS ENQUIRY SHALL BE DEEMED TO BE AGREEABLE TO THE TERMS AND CONDITIONS HEREIN CONTAINED. THESE TERMS AND CONDITIONS SHALL BE BINDING ON THE SUCCESSFUL TENDERER. CONDITIONAL TENDERS ARE LIABLE TO BE REJECTED. IISER TIRUPATI WILL PROCESS THE TENDER AS PER IISER TIRUPATI STANDARD PROCEDURES. THE DIRECTOR OF THE INSTITUTE RESERVES THE RIGHT TO REJECT ANY OR ALL OR PART OF TENDER WITHOUT ASSIGNING ANY REASON AND SHALL ALSO NOT BE BOUND TO ACCEPT THE LOWEST TENDER. IISER TIRUPATI WOULD NOT BE UNDER ANY OBLIGATION TO GIVE ANY CLARIFICATIONS TO THE AGENCIES WHOSE BIDS ARE REJECTED.

I agree to all terms and conditions mentioned in the tender document of the Institute

Signature of the Tenderer