



CLARIFICATION ON TENDER NUMBER: IISERT/PUR/0144/21

ITEM DESCRIPTION: SUPPLY, INSTALLATION AND COMMISSIONING OF SURVEILLANCE SYSTEMS AT IISER TIRUPATI MAIN CAMPUS YERPEDU.

REFER OUR TENDER NO: IISERT/PUR/0144/21, DATED:17/09/2021 FOR Supply, Installation and Commissioning of Surveillance Systems at IISER Tirupati Main Campus Yerpedu.

Pre-Bid meeting was held on September 28th, 2021 at 15:00 Via Google Meet and minutes of meeting is as under.

At the outset, the Chairman welcomed all the Members and the representative of the Prospective Bidders briefed in general the scope of the Project and thereafter requested Assistant Registrar (S&P) to brief the vendors on the salient features of the commercial terms and the Indenting Officer to read out the clarification sought by the Prospective Bidders and replied thereto as detailed in **Annexure -II & III**

The representatives present were satisfied with the replies given and it was informed that the corrections / additions / clarifications given, as discussed during the Pre-Bid Conference would be hosted on the website of IISER Tirupati and all the Prospective Bidders are required to take cognizance of the proceedings of the Pre-Bid Conference before submitting their bids as stipulated in the Bidding Documents.

The other terms & conditions of the notice issued on our IISER website <http://www.iisertirupati.ac.in/> will remain unchanged. No more correspondence in this regard will be entertained

The meeting ended with vote of thanks to the Chair

07/10/2021

Sd/-
Assistant Registrar (S&P)



Annexure II

**IISER TIRUPATI
PRE-BID CONFERENCE FOR SUPPLY, INSTALLATION AND COMMISSIONING OF SURVEILLANCE SYSTEMS AT IISER TIRUPATI MAIN
CAMPUS YERPEDU
TECHNICAL QUERIES AND CLARIFICATION**

TENDER NUMBER - IISERT/PUR/0144/21

DATE: 28/09/2021

Sr. No	Query/Clarification Sought	Clarification / Amendment
1	Can we provide Completion Certificate of the project with NVR, since NVR has got built-in VMS"	No Change. Original Tender Specifications prevail. Not acceptable since NVR is not a part of the tender requirement.
2	8MP Cameras are used at wider areas and it required good lighting condition. Recording 8MP will consumes huge bandwidth and Fixed Lens 8MP cameras are very rarely used. Most of the time 8MP cameras are used with vari-focal lens. Request you to consider minimum of 5MP or more.	No Change. Original Tender Specifications prevail.
3	ONVIF should be S,G,T. Since you have requested for H.265 cameras and if the software support H.265 and camera doesn't support ONVIF T then recording H.265 in software is not possible.	No Change. Original Tender Specifications prevail. H.265 video compression specification is required to be mandatorily complied with.

4	Request to lower down the minimum video stream requirement to 3 or better for IP Cameras (instead of original tendered specification of minimum 4 video stream support for each type of cameras) as very few OEMs with limited number of camera models supports 4 streams. Practically not more than 3 stream used in surveillance.	No Change. Original Tender Specifications prevail.
5	Request to change the weatherproof protection ratings for all types of required IP cameras to IP66 (replacing IP67 standard wherever asked for) or Better and IK10 Vandal Proof rating.	Tender specifications amended to: The weatherproof protection ratings for all types of required IP cameras are mandatorily required to comply with IP66 rating standards or better. The Vandal proof rating for all types of cameras to be supplied as a part of this tender requirement remains unchanged (Vandal Proof rating of IK10 or better)
6	In India most of the cameras we use has operating temperature range from -10 to +50 degree Celsius. Requested to accommodate.	No Change. Original Tender Specifications prevail.
7	Submission: In most of the 4K cameras, the image sensor has minimum of 1/2" image sensor with 4-9mm Lens. Consider the same.	No Change. Original Tender Specifications prevail. However, the bidders may offer a better product than specified in the tender.
8	Storage backup – Number of days backup details are not available	No Change. Original Tender Specifications prevail. Bidders are requested to go through details of the Point number 39, page 8 of the tender specifications.
9	Please clarify the purpose of I/O Box – as Most brand cameras has built-in I/O box	An I/O box with open interconnect standard has been provisioned for integration with boom barriers, access control system etc.

10	Laying of UTP Cable with casing and capping per meter (billing will be done at actuals) – Any soft soil / Hard soil digging is applicable in Laying of cables – Please clarify.	No Change. Original Tender Specifications prevail. The UTP cable laying is only required in exceptional cases. The cable has to be laid clinging to the wall /ceiling as per actual site requirements with proper casing / capping. No excavation of ground is required.
11	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	No Change. Original Tender Specifications prevail.
12	"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 : a) Easily deploy certificates to devices b) Easily deploy HTTPS or 802.1X configurations on devices"	No Change. Original Tender Specifications prevail. This feature is required for remote but single window lifecycle tracking and maintenance of SSL certificates for all components of the tendered solution.
13	Bidder's Eligibility: The Camera OEM shall be in IP CCTV manufacturing since 20 years. The OEM to submit self-certification on the Letter head.	Pre-qualification criteria stands amended to: The Camera OEM shall be in IP CCTV manufacturing since last 7 years (as on the closing date for submission of Bids). The OEM to submit self-certification on the Letter head.
14	Bidder's Eligibility: OEM should be in camera business/CCTV Solutions business in India for atleast 3 years and should be profitable.	Pre-qualification criteria stands amended to: OEM should be in IP camera business/CCTV Solutions business in India for atleast 3 years (as on the closing date for submission of Bids).

15	<p>Two Way Audio and audio Compression</p> <ol style="list-style-type: none"> 1. 8 MP fixed cameras 2. 8 MP Vari focal Cameras 3. 8MP PTZ Cameras 	<p>Tender Specification amended to:</p> <ol style="list-style-type: none"> 1. Two way audio requirements w.r.t hardware Specifications for 8 MP Fixed Camera's (Tendered Qty. – 200) and Specifications for 8 MP Vari-Focal Camera's (Tendered Qty. – 125) stands removed wherever it appears in the tender document. 2. As far as the requirement of two way audio is concerned w.r.t hardware Specifications for 8 MP PTZ Camera Specification, the original tender specification prevails. <p>It may be noted that as far as capabilities of the solution pertaining to audio analytics and VMS audio processing is concerned, the tender specification remain unchanged.</p>
16	<p>Audio analytics</p>	<p>No Change. Original Tender Specifications prevail.</p> <p>The audio input and output processing requirements for the CCTV cameras (except for PTZ cameras) stand removed (refer above) only w.r.t. the hardware specifications.</p> <p>However; the scope for audio analytics pertaining to software part of the proposed tender supplies remain unchanged.</p>
17	<p>High Computation and data storage requirement (for the following):</p> <p>Processor: Server should be configured with Latest Gen 2nos. Of Server Grade CPU's each with 16C/32T, 2.9Ghz (Management Server)</p>	<p>No Change. Original Tender Specifications prevail.</p> <p>The computation (server/workstation) specifications are dimensioned to cater to the near future expansion of the facility (ies) at IISER Tirupati. It had been designed to serve the requirements of integrating at least 1000 cameras over the same platform.</p>
18	<p>memory : 24 DDR4 DIMM slots, Supports RDIMM /LRDIMM, speeds min 2666MT/s, 512GB max (Management Server)</p>	
19	<p>Processor: Server should be configured with</p>	

	Latest Gen 2nos. Of Server Grade CPU's each with 16C/32T, 2.9Ghz (Recording Server)	
	memory : 24 DDR4 DIMM slots, Supports RDIMM /LRDIMM, speeds min 2666MT/s, 512GB max (Recording Server)	
20	SAN Storage Dimensioning.	
21	Request to lower down the MTBF from 100000 hours to 60000 for cameras calculated at 40 degree Celsius	No Change. Original Tender Specifications prevail. Better MTBF is required for longevity / durability of the tendered solution.
22	Specifications for alarm I/o box is given in the VMS (page no 41, Point no 13) and a separate Specification in page no 57 of tender document separately	No Change. Original Tender Specifications prevail. It is clarified that the Alarm I/o Box specification though listed at two different locations in the same tender document are not mutually contradictory; they are rather complementary to one another. The bidders are advised that the hardware specifications and functionality of the proposed alarm box should be arrived at only after reading both the clauses in unison. It is to be noted that only one alarm I/o box has to supplied and integrated with the solution (in total).
23	All the network cameras supplied must be certified for: 1. FCC , CE and UL (or) 2. BIS (Certificates to be enclosed) BIS for network cameras should be made mandatory	No Change. Original Tender Specifications prevail. For the networked surveillance cameras the bidders are requested to quote either 1. FCC , CE and UL certified product lines. OR 2. Products with BIS certification. However in case of BIS certified products, the bidders may ensure that the exact product models may be inarguably identifiable from the copy of BIS certificate thus submitted as a part of compliance.
24		No Change. Original Tender Specifications prevail.

	<p>NDAA compliant IK10 The above certificates for network cameras mentioned in the tender document are not given for Make in India/ Made in India equipment's. Kindly clarify.</p>	<ol style="list-style-type: none"> 1. NDAA Compliance: The OEM should satisfy all technical specifications / prohibitions enlisted in NDAA Act 2019. A self-declaration to the effect may be submitted with the bid. This is essentially required for privacy, public safety and security of Government facilities. 2. There are sufficient numbers of IK Impact testing facilities in India. The OEM is required to get their products tested (from Industry standardized accredited laboratories) and get certified before bidding. Bidders are also required to submit the copy of such document with the bid.
25	<p>Request to clarify: Face Detection capabilities.</p>	<p>The face detection shall broadly be put to use for the following (including the feature sets offered by the VMS):</p> <ol style="list-style-type: none"> 1. Identify the object as a human being. 2. Trace and identify an individual person across the views served by the active cameras. The same feature should also be rendered for analytics provided upon the fed recordings to the system.
26	<p>Bidder's eligibility criteria: The bidder should have successfully installed and commissioned at least two projects for any central government, state government or any central/state PSU with 150 cameras along with VMS. Request had been received for including Airports (domestic / international) as allowed clients with which the successful SITC had been done by the bidder in the past.</p>	<p>Tender Specification amended to: Bidders eligibility criteria amended to: The bidder should have successfully installed and commissioned at least one project for any central government / state government or any central/state PSU or Indian Airports (domestic / international) or central government / state government Autonomous bodies with 150 cameras or more along with VMS</p> <p>Note: The bidder is required to submit the duly filled form (Annexure-'E') with all relevant details in this context for independent verification.</p>

27	<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 already currently manufactured at their manufacturing facility which may be cross verified by IISER if required.</p>	<p>Tender Specification amended to:</p> <p>OEM to give a self-declaration 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.</p> <p>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.</p> <p>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>
28	<p>I/O Box (Shall be of the same make of VMS or Camera) – Page No. 66 of the tender document: Submission: The camera/ VMS OEMs do not have their own make I/O box. The same may be amended to allow integration of an alarm box from a reputed brand (OEM other than that of Camera / VMS)</p>	<p>Tender Specification amended to:</p> <p>The bidders are free to quote an alarm box from a different OEM of a reputed brand. It is also mandatorily required that the alarm I/O box is be supplied with 5 year standard warranty.</p>
29	<p>Consider cameras of non-Chinese origin/ no components manufactured in china.</p>	<p>No Change. Original Tender Specifications prevail.</p> <p>Any bidder from a country sharing a land border with India will be eligible to bid in</p>

		this tender only if the bidder is registered with the Department for Promotion of Industry and Internal Trade (DPIIT) (Vide Ministry of Finance OM No. 6/18/2019-PPD dated 23rd July 2020.)
30	Request to lower down the resolution specification for PTZ cameras (Tender Qty- 05) from Supported Resolution for 8 MP PTZ Cameras 3840 x 2160, 1920 x 1080, 1280 x 720, 640 x360	<p>Tender Specification amended to:</p> <p>Tender Specifications w.r.t. hardware specification of 8 MP PTZ camera (Tender Qty- 05) is relaxed as below (for where ever it appears in the context of this tender):</p> <ol style="list-style-type: none"> 1. The native resolution of the camera is lowered from 8 MP to 5 MP or better 2. Resolutions supported (minimum): 1920 x 1080, 1280 x 720, 640 x360 or better 3. MTBF may be read as - 100000 hours for cameras calculated at 40 degree Celsius (eliminating a typographical mistake wherein the temperature mentioned was 400 Celsius)
31	Minimum of 64 numbers of Cameras to be provided with different types of video analytics software with floating license and should be capable of being changed to any camera if needed.	<p>Tender Specification amended to:</p> <p>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.</p>
32	Page No. 14 of the tender document: In case the VMS 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 City / Town / Police / Para Military / Defense project in India or abroad comprising of atleast 100 cameras	<p>Tender Specifications amended to:</p> <p>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</p>

	<p>along with proof of where the Source Code of software resides.</p>	<p>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>
33	<p>Solution to be offered as mix and match of the product lines from different OEMs</p>	<p>It is hereby clarified that:</p> <ol style="list-style-type: none"> 1. The IP Surveillance camera along with the software part of the solution (VMS and AI analytics platform) may be sourced from a single OEM. 2. The bidders are also allowed to include Software part of the supplies against this tender sourced from an OEM different from that of IP Surveillance cameras. 3. All Servers / Workstation / Data Storage devices should be sourced from a single OEM (may or may not be different from the OEM of IP Surveillance cameras / software solutions). 4. All IP Surveillance cameras models offered must be essentially sourced from a single OEM only. 5. The Alarm I/O Box can be sourced from a different OEM altogether. 6. Individual Authorizations for each and every item/component quoted must be mandatorily submitted in the name of the bidder along with the technical bid. 7. Bids having incomplete/ partial /self- authorizations shall be summarily rejected.
34	<p>Location of the installation</p>	<p>All the equipment to be supplied against this tender are required to be installed at IISER Tirupati Campus only. The actual location and final placement of the equipment</p>

		(Within IISER Tirupati Campus) shall be guided and supervised by IISER Tirupati nominated project engineer in-charge.
35	<p>Page No. 9 Special Terms and Conditions: <i>The Bidder needs to Provide the Country of Origin Certificate in original for each model quoted before the supply of the equipment.</i></p> <p>It is requested to consider self-declaration from the bidder as a compliance against the above</p>	<p>Tender Specification amended to:</p> <ol style="list-style-type: none"> 1. 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). 2. 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. 3. No deviation (between above 1 & 2) will be allowed.
36	Request to drop alarm input and output processing capabilities from the technical Specifications for 8MP fixed cameras and for 8MP vari-focal cameras.	<p>Tender Specification amended to</p> <p>The technical requirement for processing alarm input and output stands removed across all the types of cameras in the tender specifications.</p>
37	The VMS shall support control of a pan-tilt-zoom camera with a network keyboard with joystick.	<p>No Change. Original Tender Specifications prevail.</p> <p>The term “Network keyboard” should only be interpreted in context of CCTV / surveillance system terminology.</p>
38	The VMS shall support max 74 partitions per one Recording Service.(Logical Drive Partition 24ea+Physical Drive Partition 50ea)	No Change. Original Tender Specifications prevail.



Annexure III

**IISER TIRUPATI
PRE-BID CONFERENCE FOR SUPPLY, INSTALLATION AND COMMISSIONING OF SURVEILLANCE SYSTEMS AT IISER TIRUPATI MAIN
CAMPUS YERPEDU
COMMERCIAL QUERIES AND CLARIFICATION**

TENDER NUMBER - IISERT/PUR/0144/21

DATE: 28/09/2021

Sr. No	Query/Clarification Sought	Clarification / Amendment
1.	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	The 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.
2.		
3.		
4.		