

NATIONAL INSTITUTE OF BIOMEDICAL GENOMICS

(A premier Autonomous Institute of Dept. of Biotechnology, Ministry of Science & Technology, Govt. of India)

TENDER DOCUMENT

NIT No. NIBMG/CCTV/2024-25/018

Date: 17-09-2024

Tender for implementing a CCTV surveillance system in BRIC-NIBMG, Kalyani

August'2024

CRITICAL DATE SHEET

NIT No. NIBMG/CCTV/2024-25/018

Date : 17-09-2024

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Bid Document Download / Sale Start Date

18-09-2024 [09:00 AM]

Clarification Start Date

18-09-2024 [09:00 AM]

Clarification End Date

26-09-2024 [06:00 PM]

Bid Submission Start Date

18-09-2024 [09:00 AM]

Bid Submission End Date

08-10-2024 [04:00PM]

Bid Opening Date

09-10-2024 [04:30PM]

Biotechnology Research and Innovation Council-National Institute of Biomedical Genomics (BRIC-NIBMG), a premier Autonomous Institute of Govt. of India. This is the first institution in India explicitly devoted to research, training, translation & service, and capacity-building in biomedical genomics. It is in Kalyani, West Bengal, India, about 50 km. from Kolkata.

Online Tenders are invited in two parts namely Technical Bid (including General Terms & Conditions) and Price Bid for implementing a CCTV surveillance system in BRIC-NIBMG, Kalyani

Tender document can be downloaded from NIBMG website <https://www.nibmg.ac.in> or from Central Public Procurement Portal. Bidders should enrol/register in the e-procurement module of Central Public Procurement Portal through the website: <https://eprocure.gov.in/eprocure/app>. Bidders should also possess a valid DSC for online submission of bids.

Estimated value of the Tender is Rs. 22 lakhs (Twenty-two lakhs). The vendor willing to participate must submit documentary evidence of NEFT of Rs. 44,000/- (Rupees forty-four thousand only) as Earnest Money Deposit (EMD) along with the Technical Bid.

Earnest Money Deposit (EMD): An amount of Rs. 44,000/- (Rupees forty-four thousand only) should be deposited by NEFT directly to the institute **Account No- 0579010458047**, AC/ Name: **NATIONAL INSTITUTE OF BIOMEDICAL GENOMICS**, Bank: **Punjab National Bank**, Branch: **Kalyani**, IFS Code: **PUNB0057920**, proof of transaction advice should be enclosed in technical bid. Failure to deposit Earnest Money will lead to rejection of the tender.

Exemption from EMD shall be governed by Manual for Procurement of Goods 2017 and EMD exemption shall be applicable to firms registered with Central Purchase Organization, NSIC, MSME etc. for item tendered only.

Incomplete or conditional tenders submitted would be summarily rejected. The Director, NIBMG reserves the right to cancel any or all tenders without assigning any reason thereof.

I)	Eligibility criteria of a Bidder and OEM:	Documentary proof to be submitted along with Tender
1.	The bidder must have executed similar kind of works related to CCTV surveillance setup in India in last 5 financial years: A. At least one order of 80% of tender value OR B. At least two orders of 60% of tender value	Purchase order copies and completion certificate of the same must be submitted with the technical bid.
2.	Trade license, GST registration, PAN/TAN, and cancelled cheque of Bidder	Copy of Trade license, GST registration, PAN/TAN, and cancelled cheque of Bidder
	Bidder must have a registered office in and around Kolkata.	Documentary evidence to be submitted.
3.	OEM must have a positive net worth in last 3 FY	Balance sheet certified by CA
4.	Bidder must have a positive net worth in last 3 FY	Balance sheet certified by CA
5.	An amount of Rs. 44,000/- (Rupees forty-four thousand only) should be deposited as Earnest Money by NEFT directly to the institute Account No- 0579010458047, AC/ Name: NATIONAL INSTITUTE OF BIOMEDICAL GENOMICS, Bank: Punjab National Bank, Branch: Kalyani, IFS Code: PUNB0057920.	Proof of transaction advice should be enclosed in the technical bid. Failure to deposit Earnest Money will lead to rejection of the tender.
6.	If OEM and bidder from a country that shares a land border with India will be eligible to bid in the tender only if the bidder is registered with the Competent Authority (The Registered Committee constituted by the Department for Promotion of Industry and Internal Trade)	<u>If not applicable:</u> Must submit a Self-declaration letter from the OEMs. <u>If applicable:</u> Must submit relevant documentary evidence.
7.	a) OEM and Bidder must comply with MII clause of GOI. b) OEM should have its operational factory in India.	Relevant documentary evidence is to be submitted along with the Technical Bid
8.	OEM must have a registered office and service center in and around Kolkata.	Relevant documentary evidence is to be submitted along with the Technical Bid
9.	Supplied products must not be declared as EOL / EOS by the OEM in the next 5 years.	Declaration by OEM in Company's letterhead.
10.	Authorisation certificate from OEMs of Camera, NVR, Cables & Connectors for this tender	MAFs from OEMs specifically for this Tender
11.	The product datasheet of each item must be available on the OEM website for technical verifications	Make, model with product/part code must be submitted along with URL of datasheets for each active items.
12.	All cameras and NVR must be from the same OEM.	Documentary evidence must be submitted.
13.	a) OEM should not be banned by any organization in India. b) Bidder should not be banned by any organization in India	Declaration by OEM and Bidder in Company's letterhead.

II)	TERMS AND CONDITIONS:
A	Scope of work:
	1. Supply, Installation, Testing and Commissioning of Goods.
B	Warranty:
	<ol style="list-style-type: none"> 3 years comprehensive and onsite warranty from the OEM for Camera, NVR. 5 years comprehensive and onsite warranty from the OEM for Hard disk. 5 years product warranty from OEM should be provided for network cabling items, and it should be compliant with the existing 25 years passive network performance warranty support. Each item's warranty must be certified by the OEM by mentioning the product name, model, part code, and machine serial number in the OEM's letterhead.
C	Payments, Penalty and SLA:
	<ol style="list-style-type: none"> Payment will be made after the successful completion of delivery, installation, commissioning, and submission of a complete project document in the accepted format of NIBMG. Delivery of items must be completed by 4 weeks and installation must be completed by 6 weeks. If the Vendor fails to complete the installation in the period mentioned above, LD of 0.5% of total contract value per week of delay, a maximum upto 10% of total contract Value will be deducted from the final bill. 10% of the total estimated value of this tender must be submitted as a Performance Bank Guarantee (PBG) for 39 months within 15 days of receipt of work order. Payment will be made only after successful installation and commission of the items, submission of PBG and submission of complete escalation matrix for support services in Company's letterhead and warranty certificate from OEM as per warranty terms and conditions. Service level agreement (SLA) during the warranty period: Call must be attended either physically or remotely within 1 hour of reporting a call by the end users from Monday to Saturday from 9 am to 6:30 pm and the same must be solved within 24 hours. In case of a delay in solving the problem within 24 hours, a standby device needs to be installed within 36 hours of reporting a call for the items. Only attending a call will be allowed through remote tools but all kinds of repairing, troubleshooting, and replacement activities need to be done physically by sending an engineer at the NIBMG. In case of failure to adhere to the schedule mentioned above, the Director, NIBMG shall have the right to deduct the penalty of Rs.1000/- per day for each call from PBG
D	General Terms and Conditions:
	<ol style="list-style-type: none"> Unit wise price for all the items must be quoted separately but selection of the vendor will be based on total tender amount. NIBMG should have a single point of contact for all kinds products to be used for this solution. Rates shall be quoted inclusive of all charges, levies, GST etc. NIBMG will not bear the liability of any GST variation that may happen after the Tender is published. The bids will be accepted in single stage two bids system i.e., Technical Bid and Financial Bid. All pages of technical bid shall be signed by the bidders. Incomplete or conditional applications submitted would be summarily rejected. The Director, NIBMG reserves the right to cancel any or all applications without assigning any reason thereof. The datasheet from OEM of each product must be submitted along with the technical bids The tender is not transferable. The contractor shall be responsible for any loss or damage caused to NIBMG owing to negligence on his part. Any kind of outsourcing or offloading this job to any another agency will not be acceptable. NIBMG reserves the right to accept or reject any or all tenders without assigning any reasons. No subletting of contract shall be allowed at any point of time of contract. All disputes in this connection shall be settled in Kolkata jurisdiction only.

	<p>11. Location of cameras and network racks will be given by the Institute during installation.</p> <p>12. An email address, phone number or URL of the support call logging portal must be provided by the vendor for reporting all support and preventive calls.</p> <p>13. A complete escalation matrix starting from service engineer to head of the organization must be submitted along with the technical bid.</p> <p>14. Queries or change requests, if any, must be sent with necessary justification and to purchase.ict@nibmg.ac.in within 3 days of floating this tender. No response will be given to a query or change request received after 3 days of floating this tender.</p> <p>15. The cost of any other items which are not mentioned in the BOQ but essential for the completion of the project must be included in the price bid (item sl. no. 14). The institute will not pay the cost of any extra items, if required, for completion of the project.</p> <p>16. The MAC address of the cameras, NVR and Switches must not conflict with others and must be registered in the name of OEM. If the MAC address does not match, it means that the device is not created by the original manufacturer, it's only an assembling or a labelling which has been done, and such party shall be immediately rejected.</p>
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III)	TECHNICAL SPECIFICATIONS OF PRIMARY ITEMS:			
	A) Fixed Lens Network Dome Camera			
Sl. No.	<u>Technical Specification:</u>		Compliance (Yes/No)	Name of product Datasheet file and page number
1	Image Sensor	1/3" Progressive Scan CMOS		
2	Min. illumination	Color: 0.01 Lux @ (AGC ON), B/W: 0 Lux with IR or better		
3	Image Resolution	4MP or higher		
4	Day & Night	IR Cut Filter		
5	Shutter speed	1/3 s to 1/100,000 s		
6	Lens	2.8mm / 3.6 mm (fixed lens) or better		
7	IR range	30m IR or higher		
8	Streaming Type	Dual streams		
9	Video Compression	H.265, H.264		
10	Image Enhancement	BLC, 3D DNR		
11	Day/Night Switch	Auto/Scheduled/Day/Night		
12	Network Protocol	TCP/IP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, RTP, RTSP, NTP, UPnP, SMTP, IGMP, 802.1X, QoS		
13	Preferable analytics	Motion detection, Video tampering, exception		
14	Ethernet Port	1 x RJ45 10M/100M Ethernet port		
15	Power Supply	DC12V, PoE		

16	Operating Conditions	-10° C to 50° C or better		
17	Ingress Protection	IP67 Ingress Protection		
18	Certifications	OEM should have BIS, Onvif		
19	General Function	privacy mask		
20	Camera and NVR systems models must support Video management system (VMS)			
21	The MAC address of all products must not conflict with others and must be registered in the name of the OEM.			
22	Camera & NVR should be from the same OEM for smooth integration.			

	B) <u>Outdoor Fixed Lens Network Bullet Camera</u>			
Sl. No.	<u>Technical Specification:</u>		Compliance (Yes/No)	Name of product Datasheet file and page number
1	Image Resolution	4MP or higher		
2	IR range	30m IR or higher		
3	Image Sensor	1/3" Progressive Scan CMOS or better		
4	Min. illumination	Color: 0.01 Lux @ (AGC ON), B/W: 0 Lux with IR		
5	Day & Night	IR Cut Filter		
6	Shutter speed	1/3 s to 1/100,000 s		
7	Lens	3.6 mm (fixed lens) or better		
8	Streaming Type	Dual streams		
9	Video Compression	H.265, H.264		
10	Image Enhancement	BLC, 3D DNR		
11	Day/Night Switch	Auto/Scheduled/Day/Night		
12	Network Protocol	TCP/IP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, RTP, RTSP, NTP, UPnP, SMTP, IGMP, 802.1X, QoS,		
13	Preferable analytics	Motion detection, Video tampering, exception		
14	Ethernet Port	1 x RJ45 10M/100M Ethernet port		
15	Power Supply	DC12V, PoE		
16	Operating Conditions	-10° C to + 50° C or better		
17	Ingress Protection	IP67 Ingress Protection		
18	General Function	Password protection, privacy mask, watermark		
19	Certifications	OEM should have BIS, Onvif		
20	Camera and NVR systems models must support Video management system (VMS)			

21	The MAC address of all products must not conflict with others and must be registered in the name of the OEM.		
22	Camera & NVR should be from the same OEM for smooth integration.		

C) Network Video Recorder (NVR) - 32 Channels				
Sl No	Feature	Specification	Compliance (Yes/No)	Name of product Datasheet file and page number
1	Maximum IP Video Input	32 Channels		
2	Bandwidth	256 Mbps or higher		
3	Video Output	One HDMI and one VGA or more		
4	Audio Output	1 Channel, RCA		
5	Decoding format	H.265, H.264 and higher		
6	Recording resolution	Maximum 12 MP resolution supported		
7	Synchronous Playback	16 Channels		
8	Network Protocol	TCP/IP, DHCP, IPv4, DNS, DDNS, NTP, RTSP, SMTP, SNMP, UPnP, HTTP, HTTPs		
9	OnVIF	Shall support		
10	Network Interface	Two RJ45 (10/100/1000 Mbps) ports		
11	Serial Ports	RS232, RS485		
12	Number of HDD Slots	Upto 4 SATA Interfaces		
13	HDD Capacity	Upto 10 TB Hard Disk for Each SATA		
14	Alarm I/O	16/4 or better		
15	USB	2 x USB2.0 and 1 x USB3.0		
16	Power Requirement	100 - 240 VAC		
17	Operating Condition	-10°C to 50°C or better		
18	Humidity	upto 90%		
19	Certification	OEM should have BIS, Onvif		
20	Camera and NVR systems models must support Video management system (VMS)			
21	The MAC address of all products must not conflict with others and must be registered in the name of the OEM.			
22	Camera & NVR should be from the same OEM for smooth integration.			

		Compliance (Yes/No)	Name of product Datasheet file and page number
	D) Enterprise-grade Surveillance Hard disk for NVR		
1	Size: 10 TB		
2	RPM: 7200		
3	Cache, Multi-segmented (MB): 256		
4	Transfer Rate up to: 263MB/s		
5	Form Factor: 3.5-Inch		
6	Enterprise-grade		
7	Surveillance-type Hard Disk		
8	Average Latency (ms): 4.16		
9	OEM Warranty: 5 years		

		Compliance (Yes/No)	Name of product Datasheet file and page number
	E) 24 PORT POE+ Switch with RACK Mounting Kit		
1	Must be capable of running on the full load of 24 Cameras and other connected accessories and connections.		
2	24 10/100/1000 Mbps gigabit auto ethernet ports		
3	2 SFP ports		
4	Must be designed for running 24x7x365 days.		
5	Lighting Protection		
6	Flow control for protection against loss data		
7	<u>Should support Functions:</u> VLAN, EXTEND, QoS, Auto MDI/MDI-X crossover on all ports <u>PoE Functionality:</u> IEEE 802.3af/at compliant <u>Switching Fabric throughput:</u> minimum 52 Gbps <u>Power output:</u> Up to 30 W per PoE port		

IV) TECHNICAL SPECIFICATIONS OF NETWORK CABLING ITEMS:			
	Items	Compliance (Yes/No)	Name of product, model number and Datasheet file
1	<p><u>Network cables and connectors:</u></p> <p>Specifications and Quality of all proposed items under this category must be equivalent or higher to the existing networking infrastructure of the Institute for smooth connectivity. Structured network cabling from Tyco/TE Connectivity/CommScope are being used in the existing networking infrastructure of the Institute.</p> <p><i>Model/Part Nos. of existing Network items are: CAT6A Patch Panel - 24Port from CommScope (760206839), Cable from TE Connectivity (2171014-1), Patch cord from CommScope (6645-2-825-04), etc.</i></p>		
2	<p><u>Network Racks:</u></p> <p>Specifications and Quality of all proposed items under this category must be equivalent or higher to the existing networking infrastructure of the Institute for smooth connectivity.</p> <p><i>9U Wall Mount Rack from APW (WMLC-A409-SPL), VALRACK, etc. are being used the existing networking infrastructure of the Institute</i></p>		
3	<p><u>UPS (portable):</u></p> <p>Specifications and Quality of all proposed items under this category must be equivalent or higher to the existing infrastructure of the Institute.</p> <p>Must be as per required power load of each RACK with 10 mins backup and easy to fix inside the rack.</p> <p><i>UPS from APC/Vertiv/Numeric are being used in the existing networking infrastructure of the Institute.</i></p>		
<p>Note: Specification Compliance Certificate from each OEM need to be submitted along with technical bids, if makes/models of proposed items under this category are not same as the existing items mentioned in this table.</p>			

PRICE BID

NIT No. NIBMG/CCTV/2024-25/018

Date: 17-09-2024

	SUPPLY INSTALLATION & COMMISSIONING OF THE FOLLOWING ITEMS	QTY.	UNIT PRICE INCLUDING GST (RS.)	TOTAL PRICE INCLUDING GST(RS.)
1.	DOME Camera - 4 MP	107		
2.	BULLET Camera - 4 MP	43		
3.	NVR 32 CHANNELS FOR MINIMUM 4 DISKS	7		
4.	10 TB ENTERPRISE GRADE HARD DISK FOR SURVEILLANCE	16		
5.	24 PORT POE+ SWITCH	9		
6.	UPS – SMALL & PORTABLE WITH A MINIMUM 10 MINUTE BACKUP ON FULL LOAD OF EACH RACK	8		
7.	RACK 9U RACK LOADED WITH FAN, PDU & ALL ACCESSORIES	8		
8.	FULLY LOADED UTP PATCH PANEL - 24 PORTS	9		
9.	CAT 6 UTP CABLE PER MTR (including supply and installation with casing, capping & piping) *	6000*		
10.	CAT6 UTP PATCH CORDS (1 meter in length)	225		
11.	CEILING CONNECTORS – CAT6 (FOR CAMERA SIDE)	150		
12.	PVC BOX FOR FIXING CAMERAS	150		
13.	Installation, commissioning documentation charges	1 lot		
14.	The cost of any other items which are not mentioned in the BOQ but are essential for the completion of the project must be included in the price bid. (if required) <u>Please note:</u> The institute will not pay any cost for extra items, if required, for completion of this project.			
	All Total including GST in INR			
*Quantity will be finalised based on actual measurement and payment will be made accordingly				