

Tender Document
Containing
Specification and Terms and Conditions
For
Supply and Installation of CCTV Surveillance System [Extension]
(Total Estimated cost of the items is **Rupees Ten Lakh** Only)

Last Date of submitting Tender document: 26/02/2018



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Sealed tenders are invited from manufacturer or their authorized business partner / authorized distributors for:

Supply and Installation of CCTV Surveillance System [Extension]

The Tender Document (TD) is available in the Institute Website or CPP Portal from 05/02/2018 to 26/02/2018. The cost of downloaded TD, Rs. 500/- is to be paid through Demand Draft in favour of “**Director, NITTTR, Kolkata**” payable at Kolkata. Interested vendors may submit their quotation on or before 26/02/2018 latest by 3:00 p.m. Technical Bid will be opened at **4 p.m. on** the same date.

Advt. No. 13/2017-18

Director

Note: Interested vendors may attend the Pre-bid meeting scheduled on 12/02/18 at Technology Development Cell, NITTTR and Kolkata. One may also do a site survey on the same date.

A. Technical Specification ::

2 Megapixel Varifocal Network Outdoor Bullet Camera (17 Pcs)

Camera Specification	
Image Sensor	1/3" Progressive Scan CMOS
Lens	2.8 - 12 mm @ F1.4, Angle of view: 113°-33.8°
Day & Night	IR cut filter with auto switch
Wide Dynamic Range	Digital WDR
Video Compression	H.264/ MJPEG
Audio	Supported
Max. Resolution	1920×1080
Standard	ONVIF, PSIA, CGI, ISAPI
POE & Communication Interface	PoE IEEE 802.3af power input; 1 RJ45 10M/100M Ethernet interface
Rating	IP66
IR Range	Approx. 20-30 meters
Certification	CE, FCC, UL
Preferred Make	Axis, Bosch, Honeywell, Hikvision, Pelco.
Warranty	3 years on-site comprehensive warranty with parts and labour with Next Day support

2 Megapixel Fixed Network Indoor Cube Camera (1 Pc)

Camera Specification	
Image Sensor	1/2.8" Progressive Scan CMOS
Lens	4mm@ F2.0, Angle of view: 85° (2.8mm, 6mm optional)
Day & Night	IR cut filter with auto switch
WDR	Digital WDR
Video Compression	H.264 / MJPEG
Audio	Supported
Max. Resolution	1920 x 1080
Standard	ONVIF, PSIA, CGI, ISAPI
POE & Communication Interface	PoE IEEE 802.3af power input; 1 RJ45 10M/100M Ethernet interface
Wireless Standards & Frequency Range	IEEE802.11b, 802.11g, 802.11n; 2.4 GHz ~ 2.4835 GHz;
Wireless Range	50m(depend on environment)
IR Range	10 meters
Certification	CE, FCC, UL
Preferred Make	Axis, Bosch, Honeywell, Hikvision, Pelco.
Warranty	3 years on-site comprehensive warranty with parts and labour with Next Day support

2 Megapixel Network Indoor Fish Eye Camera (1 Pc)

Camera Specification	
Image Sensor	1/2.5" Progressive Scan CMOS
Lens	1.05 mm @ F2.2, horizontal field of view: 180° , vertical field of view: 180°
Day & Night	IR cut filter with auto switch
WDR	Wide Dynamic Range 120 dB
Audio	Supported
Max. Resolution	2560 x 1920
Standard	ONVIF, PSIA, CGI, ISAPI
POE & Communication Interface	PoE IEEE 802.3af power input; 1 RJ45 10M/100M Ethernet interface
Display Mode	Fisheye View, 180 Panorama View, 4PTZ, Fisheye + 3PTZ, 360 Panorama View, 360 Panorama + PTZ, 360 Panorama + 3PTZ, 360 Panorama + 6PTZ, 360 Panorama + 8PTZ, 2PTZ, Fisheye + 8PTZ, Panorama View, Panorama + 3PTZ, Panorama + 8PTZ
IR Range	08 meters
Certification	CE, FCC, UL
Preferred Make	Axis, Bosch, Honeywell, Hikvision, Pelco.
Warranty	3 years on-site comprehensive warranty with parts and labour with Next Day support

64 Channel Network Video Recorder (1 Pc)

NVR Specification	
IP video input	64-ch
Two-way audio	1-ch, RCA (2.0 Vp-p, 1kΩ)
Incoming bandwidth	Min. 320 Mbps, or 200 Mbps (when RAID is enabled)
Recording resolution	8 MP/6 MP/5 MP/4 MP/3 MP/1080p/UXGA/720p/VGA/4CIF/DCIF/2CIF/CIF/QCIF
Video output interface	VGA , HDMI
SATA	min. 8 SATA interfaces for 8HDDs
eSATA	min. 1 x eSATA interface
Capacity	6TB capacity for each HDD
Array type	should support - RAID0, RAID1, RAID5, RAID10
Network interface	2, RJ-45 10/100/1000 Mbps self-adaptive Ethernet interface
ANR Function	Should support ANR
Certification	CE, FCC, UL
Preferred Make	Axis, Bosch, Honeywell, Hikvision, Pelco.
Warranty	3 years on-site comprehensive warranty with parts and labour with Next Day support

08 Channel Network Video Recorder (1 Pc)	
<u>NVR Specification</u>	
IP video input	08 Channel
Two-way audio	1-ch, RCA (2.0 Vp-p, 1kΩ)
Incoming bandwidth	80 Mbps.
Recording resolution	6 MP/5 MP/4 MP/3 MP/1080p/UXGA/720p/VGA/4CIF/DCIF/2CIF/CIF/QCIF
Video output interface	VGA , HDMI
SATA	min. 2 SATA interfaces.
Capacity	6TB capacity for each HDD
Network interface	1 RJ-45 10/100/1000 Mbps self-adaptive Ethernet interface
Certification	CE, FCC/UL
Preferred Make	Axis, Bosch, Honeywell, Hikvision, Pelco.
Warranty	3 years on-site comprehensive warranty with parts and labour with Next Day support

Hi-POE Switch (1 Pc)

Switch Specification	
10/100M RJ45 Port	8
10/100/1000M RJ45	2
PoE Standard	IEEE 802.3af, IEEE802.3at
Power Supply	100 to 240 VAC.
Network Standard	IEEE 802.3, IEEE 802.3u, IEEE802.3ab, IEEE 802.3af, IEEE802.3at, IEEE 802.3x, IEEE802.3z
Port	When Extend mode is enabled, the maximum data transmission (for 10 Mbps full / half duplex communication only) and power supply distance can be extended to 820 ft (250 m) via a CAT5e twisted pair, or higher.
PoE	IEEE 802.3at/IEEE 802.3af; Enable / Disable PoE; PoE over-temperature protection; Display power supply status and output power of the PoE port; Dynamic power supply of the PoE port. Power supply priority (Port 1 > Port 2 > ... > Port 8)
Certification	CE, FCC, UL
Preferred Make	Extreme, Hikvision, Juniper.
Warranty	3 years on-site comprehensive warranty with parts and labour with Next Day support.

*** The above specification is minimum. Vendors may quote equivalent / higher configuration. However lower configuration will not be accepted.

**** Comply 100% with existing system.

*** Bidder should submit tender specific **Manufacturer's Authorization Form for Camera, NVR, Hi-POE.**

Terms & Conditions:

1. The Tenderer (s) shall be either manufacturer of base machine / equipment / tool or an authorized business partner / marketing agent / service agent / reseller etc. of the OEM. In case of authorized business partner / marketing agent / service agent /reseller etc. authorization certificate shall be attached along with the tender. *It is expected that the Tenderer(s) should quote product of renowned company with global presence and acceptance.*
2. **Tenderer(s) must quote all items.**
3. The quoted items shall be as per the specifications. The rate quoted must be F.O.R. NITTTR, KOLKATA inclusive of packing, forwarding, supply, installation, testing, commissioning and handed over in good working condition to the NITTTR, Authority. GST, surcharge and insurance, if any must be indicated separately. Educational discount shall be indicated clearly. For imported items, Custom duty shall be indicated separately. The institute will provide the necessary documents for Excise and Custom duty exemption on selected items while placing the purchase order.
 - 3.1 GST must be quoted in the tender, wherever applicable.
 - 3.2 All legal disputes shall be under the jurisdiction of the Kolkata Courts in the state of West Bengal.
4. **Earnest Money Deposit (EMD):**
 - 4.1 EMD at the rate of 4% of the estimated price in the form of Crossed Account payee demand draft, fixed deposit receipt from commercial bank or Bank guarantee from a commercial bank drawn in favour of “**Director, NITTTR, Kolkata**” payable at Kolkata on any scheduled bank at Kolkata shall be submitted along with the Tender in a separate envelope marked as EMD. Tender without earnest money deposit shall be **OUTRIGHTLY REJECTED**. A model format of bank guarantee for furnishing EMD is enclosed in Annexure- A.
 - 4.2 Forfeiture of EMD: EMD of a tenderer will be forfeited if the tenderer withdraws or amends its tender or impairs or derogates from the tender in any respect within the period of validity of its tender. Further, if the successful tenderer fails to furnish the required performance security within the specified period, its EMD will be forfeited.
 - 4.3 Refund of EMD: EMD furnished by all unsuccessful tenderers should be returned to them without any interest whatsoever, at the earliest after expiry of the final tender validity period but not later than 30 days after conclusion of the contract. EMD of the successful tenderer should be returned, without any interest whatsoever, after receipt of performance security from it as called for in the contract.
 - 4.4 Exemption from payment of Earnest Money should be claimed with scanned copies of required documents to substantiate the claim towards their credentials along with the tender.

5. Each bidder shall submit only one tender.

6. Validity of Tender:

Tender shall remain valid for a period not less than 6 months after the deadline date specified for submission.

7. Delivery Period:

Delivery period shall be maximum 45 days from the day of receipt of award of contract.

8. Evaluation of Tender:

NITTTR, KOLKATA will evaluate and compare the tenders determined to be substantially responsive i.e., which are

8.1 properly signed; and

8.2 conform to the technical specifications and terms and conditions

8.3 The tender would be evaluated on total cost basis for all items.

9. Submission of Documents

The tender should inter alia include the following:

9.1 Copy of current GST Return.

9.2 Copy of Income Tax acknowledgement for the financial year 2016-17.

9.3 Copy of Valid Trade License.

9.4 Copy of current exercise duty Clearance Certificate.

9.5 Copy of current custom duty clearance certificate.

9.6 Copy of valid registration certificate of SSI Unit if any.

9.7 The Tenderer(s) should be required to furnish a list of clients serviced during the last 3 years (2014-15 to 2016-17).

9.8 The tenderer(s) shall submit a list of projects/supply handled in the last 3 years (2014-15 to 2016-17).

9.9 The tenderer(s) shall furnish the Audited statement of Accounts for last 3 years (2014-15 to 2016-17).

10. Bid Price:

While furnishing the quoted price, the tenderer(s) may note the following:

10.1 The tenderer(s) is/are required to quote for all the items.

10.2 All duties, taxes and other levies payable by the contractor under the contract shall be included in the total price and Taxes should be quoted separately.

10.3 The rates quoted by the bidder shall be fixed for the duration of the contract and shall not be subject to adjustment on any account.

10.4 The prices should be quoted in Indian Rupees only.

10.5 The rate quoted must be both in words and figures.

11. Award of Contract:

The NITTTR, KOLKATA will award the contract to the bidder whose tender has been determined to be substantially responsive in terms of technical specifications, terms & conditions and price quoted.

- 11.1 Notwithstanding the above, NITTTR, KOLKATA reserves the right to accept or reject any tenderer(s) and to cancel the bidding process and reject all tenderer(s) at any time prior to the award of contract.
- 11.2 The bidder whose bid is accepted will be notified of the award of contract by the NITTTR, KOLKATA prior to expiration of the tenderer(s) validity period.

12. Performance Security:

- 12.1 Performance security at the rate of 8% of the contract value in the form of account payee demand draft, fixed deposit receipt from commercial bank or Bank guarantee from a commercial bank in favour of Director, NITTTR, Kolkata shall be submitted within 21 days after the notification of the award of contract. Performance security should remain valid for a period of sixty days beyond the date of completion of all contractual obligations of the supplier, including warranty obligations. A model format of Bank guarantee for providing performance security is enclosed at Annexure – B
- 12.2 Forfeiture of Performance Security: Performance security is to be forfeited and credited to the Institute Account in the event of a breach of contract by the supplier, in terms of the relevant contract.
- 12.3 Refund of Performance security: Performance security should be refunded to the supplier without any interest, whatsoever, after it duly performs and completes the contract in all respects but not later than 60 days of completion of all such obligations under the contract.
- 12.4 Liquidated Damages will become payable in case of delay in delivery.
- 12.5 In case of delay in supply on part of supplier, a penalty @ 0.5% per week of order value will be charged for delayed period subject to a maximum of 10% of the order value.
- 12.6 The same rate of penalty shall be applicable for late installation of the equipment also.

13. Payment:

Payment will be made after delivery & satisfactory commissioning of the goods / services and training of personnel.

14. Normal Commercial Warranty/ Guarantee:

Normal commercial warranty/ guarantee of three years shall be applicable to the supplied goods/ services and this should be specified clearly by the bidder.

15. Live Demonstration:

Live demonstration of the item(s) shall be arranged by the vendors at their cost, if asked by the Institute.

16. Points which are not explicitly covered under “terms and conditions” above shall be covered by Manual on Policies and Procedures for Purchase of Goods circulated by Ministry of MHRD, Govt. of India. A copy of the same is available in the office of the Technology Development Cell for perusal of the Tenderers. Tenderers are advised to go through the manual before submission of their Tenderers.

17. In case of any deviations of the terms and conditions of this contract after award of contract, the Director, NITTTR, Kolkata shall have the right to cancel the contract at his / her discretion.

18. The non-transferable tender document excluding standard agreement for can be obtained form the Office of the Accountant as per above users on payment of ₹ 500/- (Rupees Five Hundred only) in cash or Demand Draft in favour of the Director, NITTTR, Kolkata. The users of downloaded tender document shall have to pay the cost of tender document i.e. ₹ 500/- by way of Demand Draft in favour of the Director, NITTTR, Kolkata payable at Kolkata while submitting their tender. Otherwise the Tender will not be accepted.

You are requested to provide your offer as per schedule provided in Notice Inviting Tender in the sealed envelope super-scribing “quotation for Tender Advt. No. 13/2017-18

**To,
Director,
National Institute of Technical Teachers’ Training and Research, Kolkata
Block – FC, Sector – III, Salt Lake City, Kolkata – 700 106
Tel. No. +91(033) 2337-0479/4125**

ANNEXURE - A

MODEL BANK GUARANTEE FORMAT FOR FURNISHING EMD

Whereas (here in after called the "Tenderer")..... has submitted their offer dated for the supply of..... (hereinafter called the "tender")..... against the purchaser's tender enquiry No. KNOW ALL MEN by these presents that WE ofhaving our registered office atare bound unto..... (Hereinafter called the "Purchaser) in the sum of for which payment will and truly to be made to the said Purchaser, the Bank binds itself, its successors and assigns by these presents. Sealed with the Common Seal of the said Bank thisday of20.....

THE CONDITIONS OF THIS OBLIGATION ARE:

- (1) If the tenderer withdraws or amends, impairs or derogates from the tender in any respect within the period of validity of this tender.
- (2) If the tenderer having been notified of the acceptance of his tender by the Purchaser during the period of its validity:-
 - a) If the tenderer fails to furnish the Performance Security for the due performance of the contract.
 - b) Fails or refuses to accept/execute the contract.

WE undertake to pay the Purchaser up to the above amount upon receipt of its first written demand, without the Purchaser having to substantiate its demand, provided that in its demand the Purchaser will note that the amount claimed by it is due to it owing to the occurrence of one or both the two conditions, specifying the occurred condition or conditions.

This guarantee will remain in force up to and including 45 days after the period of tender validity and any demand in respect thereof should reach the Bank not later than the above date.

(Signature of the authorized officer of the Bank)

Name and designation of the officer

Seal, name & address of the Bank and address of the Branch

ANNEXURE - B

MODEL BANK GUARANTEE FORMAT FOR PERFORMANCE SECURITY

To
The Director,
NITTTR, Kolkata.

WHEREAS
(Name and address of the supplier) (hereinafter called "the supplier") has undertaken, in pursuance of contract no dated to supply (description of goods and services) (herein after called "the contract").

AND WHEREAS it has been stipulated by you in the said contract that the supplier shall furnish you with a bank guarantee by a scheduled commercial recognized by you for the sum specified therein as security for compliance with its obligations in accordance with the contract;

AND WHEREAS we have agreed to give the supplier such a bank guarantee;

NOW THEREFORE we hereby, affirm that we are guarantors and responsible to you, on behalf of the supplier, up to a total of (amount of the guarantee in words and figures), and we undertake to pay you, upon your first written demand declaring the supplier to be in default under the contract and without cavil or argument, any sum or sums within the limits of (amount of guarantee) as aforesaid, without your needing to prove or to show grounds or reasons for your demand or the sum specified therein.

We hereby waive the necessity of your demanding the said debt from the supplier before presenting us with the demand.

We further agree that no change or addition to or other modification of the terms of the contract to be performed there under or of any of the contract documents which may be made between you and the supplier shall in any way release us from any liability under this guarantee and we hereby waive notice of any such change, addition or modification.

This guarantee shall be valid until the Day of, 20

(Signature of the authorized officer of the Bank)

Name and designation of the officer

Seal, name & address of the Bank and address of the Branch

ANNEXURE - C
ESTMATED BILL OF QUANTITY

SL.NO.	Description	MAKE	QTY	UOM
1	IP IR Varifocal Bullet Camera 2MP.	HIKVISION/AXIS/PELCO/BOSCH/HONEYWELL	16	NOS
2	IP IR Cube Camera 2MP.	HIKVISION/AXIS/PELCO/BOSCH/HONEYWELL	1	NOS
3	Fish Eye Camera 5MP.	HIKVISION/AXIS/PELCO/BOSCH/HONEYWELL	1	NOS
4	NVR - 64 Channel - 08 SATA Slot.	HIKVISION/AXIS/PELCO/BOSCH/HONEYWELL	1	NOS
5	NVR - 08 Channel.	HIKVISION/AXIS/PELCO/BOSCH/HONEYWELL	1	NOS
6	6 TB Surveillance HDD	SEAGATE / WD	8	NOS
7	4 TB Surveillance HDD	SEAGATE / WD	1	NOS
8	08 Port POE Switch.	DLINK / DIGISOL / TP LINK.	1	NOS
9	Hi - POE Switch - 08 Channel [Upto 250 Mtr. Range]	HIKVISION/EXTREME/JUNIPER	1	NOS
10	POE Injector.	DLINK / DIGISOL / TP LINK.	8	NOS
11	Desktop Switch - 08 Port.	DLINK / DIGISOL / TP LINK.	1	NOS
12	Media Converter.	DLINK/DIGISOL/TPLINK	4	NOS
13	UPS 600 VA.	CYBERPOWER/NUMERIC/APC	2	NOS
14	CAT - 6 STP Cable.	DLINK	1500	Mtrs
15	3 Core x 1.5 Sq mm, Armoured Shielded, Multi strand Copper Conductor.	POLYCAB / MESCAB	200	Mtrs
16	6 Core Armoured - Fiber optic Cable.	DLINK / DIGISOL / REPUTE	400	Mtrs
17	25 mm PVC Conduit with accessories.	AKG/EQUV.	450	Mtrs
18	25/32 mm HDPE pipe.	REPUTE	400	Mtrs
19	25 mm GI Conduit.	TATA / JINDAL	100	Mtrs
20	Key Stone - Toolness	DLINK/DIGISOL/TPLINK	50	NOS
21	Cat6 1 Mtrs Patch Cord	DLINK/DIGISOL/TPLINK	60	NOS
22	SC Pigtail	DLINK/DIGISOL/TPLINK	6	NOS
23	SC-SC Patch Cord - 1 Mtr.	DLINK/DIGISOL/TPLINK	12	NOS
24	MCB Box with MCB - 10A.	HAVELLS/ SIEMENS/ LEGRAND	5	NOS
25	6U rack with Accessories.	VALRACK / DLINK	2	NOS
26	Termination GI Box. For Cameras.	ISI MARKED	8	NOS
27	Outdoor JB Box.	RACKOM/EQUV.	2	NOS
28	MS Angle with Plate for Camera Mounting - 3 Mtr. Length	REPUTE	1	NOS
29	Installation, Testing, Commissioning, Delivery Charges for Underground, Over ground Cable laying, FO Job, Splicing, Electrical wiring, connection, devices & JB & rack installation etc.		1	SET