

INDIAN ASSOCIATION FOR THE CULTIVATION OF SCIENCE
2A & B, RAJA SC MULLICK ROAD, JADAVPUR, KOLKATA-700032

NOTICE INVITING TENDER

Notice Inviting Tender No. IACS/ADM/MLS/15-16/21

Dated : 04.12.2015

Sealed item rate tender in **TWO BID SYSTEM** (viz. **Technical Bid & Financial Bid**) are invited from bonafide, resourceful and eligible vendors/bidders for **"Supply, Installation, Testing & Commissioning of CCTV Surveillance System" in the Campus of IACS, Jadavpur, Kolkata - 700032**". Tender documents may be downloaded from IACS Website (<http://www.iacs.res.in/tender>). The tender shall be submitted through two separate sealed envelopes viz **"Technical Bid" & "Financial bid"** covered by a **third envelop in sealed condition**. The **third cover shall bear the Name of Tender, NIT No., Date of Opening, Sender's Name etc.** which would be addressed to the Registrar, Indian Association for the Cultivation of Science, 2A&2B, Raja S.C. Mullick Road, Jadavpur, Kolkata-700032 and to be submitted to the Dispatch Section on or before **:29/12/2015 (up to 2.00 P.M.)**. The EMD (in a separate envelop) should be submitted along with the tender. The envelope containing the EMD will be opened before opening of the "Financial Bid". The Technical Bid will not be opened if the EMD is not submitted with the tender in proper form & shape and the offer shall be treated as cancelled. The Technical Bid will be opened on the same day at **3.30 P.M. (i.e. on 29/12/2015)** in presence of the intending bidders. The "Financial Bid" will be opened on a subsequent date pertaining to the bidders who will qualify in "Technical Bids". However, if Holiday is declared on the due date of opening, the tender will be opened on the next working day. In that case, tender will be received on the next working day also up to **2.00 P.M.** Conditional tender including conditional rebate, and incomplete tender shall be rejected. Bidders are also advised to keep watching IACS website for any amendments. The following are the details:-

- | | |
|--|---|
| 1. Earnest Money | Rs 30,000/- (Rs. Thirty Thousand Only) by crossed Demand Draft/Pay Order/ Banker's Cheque payable at Kolkata and drawn in favour of "Indian Association for the Cultivation of Science" . |
| 2. Time of Completion | 1 (one) month from the date of placement of order |
| 3. Pre Bid Conference | : At 3.30 P.M. on 17/12/2015 at SN Bose Meeting Hall |
| 4. Time and date of Submission of Tender | : Up to 2.00 PM on 29/12/2015 at Dispatch Section |
| 5. Time and Date of opening of Tender (Technical Bid only) | : At 3.30 PM on 29/12/2015 at SN Bose Meeting Hall |

The IACS authority is not bound to accept the lowest tender and reserves the right to accept or reject any or all the tenders received and to place order on one or more firms without assigning any reason whatsoever.

Acting Registrar
Indian Association for the Cultivation of Science
2A & B Raja S C Mullick Road, Jadavpur, Kolkata-700032

Technical Specification of IP CCTV Surveillance System

1. IP based IR Bullet Camera with audio facility

Camera	
Image Device	1/3 type progressive scan or better
Day/ Night	Yes
No. of effective pixels (H x V)	2.0 megapixel or better
White Balance Mode	Auto , Preset, One-push, Manual
Zoom ratio	2.7x or better
Horizontal Viewing angle	34-89 degrees
Focal length	F= 3.0-8.0mm
Image	
Codec Image Size (H x V)	1280x1024, 1280x800, 1280x720, 1024x768, 1024x576, 800x480, 768x576, 640x480, 640x368, 384x288, 320x240
Video Compression format	H.264, MPEG-4, JPEG
Image enhancement	Wide Dynamic range (WDR)
Minimum frame rate	25 fps (1280x720)
Audio	
Audio Compression	G.711/ G.726
Scene Analytics	
Intelligent Motion detection	Yes (With built-in Post Filter)
Network	
Protocols	IPv4, IPv6, TCP, UDP, ARC, ICMP, IGMP, HTTP, HTTPS, FTP, SMTP, DHCP, DNS, NTP, RTP/RTCP, RTSP, SNMP
S/N Ratio	More than 50db
Interface	
Ethernet	10BASE-T/ 100 BASE-TX (RJ 45)
Card Slots	1
Sensor input	1
External Microphone input	Mini-jack, MIC In 2.47 VDC plug-in power
Audio line output	Mini-jack, Max output level 1 Vrms
General	
Power requirements	PoE, AC24V, DC12V
Operating temperature	-10 to + 50 degree C
Certification	UL / EN/ FCC/ CE
Other Features	
	True Day/Night (with IR-cut filter), IR beam up to 40m, IP66 & ONVIF Profile S compliant

2. IP based IR Dome Camera with audio facility

Camera	
Image Device	1/3 type progressive scan CMOS
Day/ Night	Yes
No. of effective pixels (H x V)	2.0 megapixel or better
Auto Gain Control	Max gain setting LOW, MID, HIGH
Exposure control	Auto EV Compensation. Auto slow shutter
White Balance Mode	Auto (ATW, ATW-Pro), Preset, One-push WB, Manual
Zoom ratio	2.7x or better
Focal length	F= 3.6mm or better
Image	
Codec Image Size (H x V)	1280x1024, 1280x800, 1280x720, 1024x768, 1024x576, 800x480, 768x576, 640x480, 640x368, 384x288, 320x240, 320x192
Video Compression format	H.264, MPEG-4, JPEG
Minimum frame rate	25 fps (1280x720)
Audio	
Audio Compression	G.711/ G.726
Scene Analytics	
Intelligent Motion Detection	Yes (With built-in Post Filter)
Network	
Protocols	IPv4, IPv6, TCP, UDP, ARC, ICMP, IGMP, HTTP, HTTPS, FTP (client/server), SMTP, DHCP, DNS, NTP, RTP/RTCP, RTSP, SNMP, (MIB-2)
S/N Ratio	
	More than 50db
Interface	
Ethernet	10BASE-T/ 100 BASE-TX (RJ 45)
Analogue video output	Composite video (1Vp-p)
General	
Power requirements	PoE, AC24V, DC12V
Operating temperature	-10 to + 50 degree C
Certification	UL / EN/ FCC/ CE
Other Features	
	True Day/Night (with IR-cut filter), 3D Noise Reduction, White Balance, IP66, In-built IR LEDs with support for 15 meter or more, Back Light Compensation & ONVIF Profile S compliant

BILL OF MATERIALS FOR CCTV SECURITY & SURVEILLANCE SYSTEM

S.No.	Item Description	Make	UOM	Qty	Unit Price	U.Price with Tax	Amount with Tax
1	2	3	4	5	6	7	8
1	Supplying, Installation, testing and commissioning of 2.0 Megapixel IP IR Dome Camera with audio facility as per specification	Bosch/Pelco/ Honeywell/ Sony	No.	6			
2	Supplying, Installation, testing and commissioning of 2.0 Megapixel IP IR Bullet Camera with audio facility as per specification	Bosch/Pelco/ Honeywell/ Sony	No.	8			
3	Supplying, testing and commissioning of NVR with sufficient disk space for 15 days expandable data storage with Video Monitoring, Alarm Management with the capability of handling upto 32 cameras with playback features and networked multi-user option as required. Video Analytics shall be provided for all fixed and dome cameras, External Fixed Cameras for face recognition, Vehicle Number Plate Recognition.	Bosch/Pelco/ Honeywell/Sony/ Genetec/ Videonetics/ Milestone	No.	1			
4	Supplying, Installation, testing and commissioning of 8-Port 10/100/1000 PoE Data Switch with SFP ports as per specification	HP/Cisco/Brocade	No.	4			
5	Transceiver for above Switches	HP/Cisco/Brocade	No.	5			
6	Supplying, Installation, testing and commissioning of 12-Port LIU Fully loaded with couplers, pigtails, OFC patch cords etc.	Digilink /Dlink	No.	4			
7	Supplying, Installation and commissioning of 6U Wall Mount Rack	Comrack/Valrack	Set	3			
8	Supplying, Installation and commissioning of 12U Floor Mount Rack with Jack Panel, Patch Cords all complete	Comrack/Valrack	Set	1			
9	Supplying, testing and commissioning of 6 core Single Mode Fibre Optic Armoured Cable	Finolex/.Polycab/Me scab	Meter	400			
10	Supplying, testing and commissioning of UTP CAT6 Cable (1 box containing 305 Mtr)	Molex/Digilink / Avaya	Box	2			

1	2	3	4	5	6	7	8
11	Supplying, testing and commissioning of 1" HDPE Pipe(surface cabling/underground cabling)	ISI Make	Meter	200			
12	Supplying, testing and commissioning of 1" PVC Casing/Conduit Pipe	ISI Make	Meter	500			
13	Supplying, Installation and commissioning of 2" GI Pipe	ISI Make	Meter	40			
14	Supplying, Installation, testing and commissioning of any other hardware and software required to make the system complete in all respects		Set	1			
15	Extra Cablling Charges with HDPE/Casing/Conduit pipe/GI Pipe/RJ45 (surface cabling/underground cabling)		Meter	1000			
16	Installation, Testing, Commissioning, Training Charges at site		Job	1			
17	Installation, testing and commissioning of Departmentally supplied Monitor to make the above system complete in all respect		Job	1			

Total Rs.

(In words Rupees.....)

(Signature of Bidder)
Seal of the Company/Firm

Place:

Date:

GENERAL TERMS & CONDITIONS

Delivery/Completion of Project: 1 month from placement of order.

Payment: 100% on successful implementation of system and on Issue of Completion Certificate.

Submission of Proposals

The envelope containing the vendor's proposal shall consist of three separate sealed envelopes super scribed as "EMD" (Envelop - I), "Technical" (Envelop - II) and "Financial" (Envelop - III) and all the above three envelopes are covered by the 4th envelop and deposited in the Despatch Section of IACS, Jadavpur, Kolkata 700032 on any working day up to **2.00 P.M. of 29/12/2015**. Any tender received after 2.00 p.m. of the last date of submission of proposal will not be considered.

Tender Opening Date & Venue

Tenders will be opened later in presence of the vendors/bidders or their authorized representatives. The venue of the opening of the Technical Proposals will be at **SN Bose Meeting Hall of IACS at 3.30 PM on 29.12.2015**.

Validity of Offer

The proposal shall remain valid for a period of 180 days from the scheduled date for submission of proposals.

Taxes & Duties

Prices quoted by vendor/bidders shall be inclusive of all taxes, duties, etc. No extra claim on this account will in any case be entertained.

Tender Acceptance & Rejection

IACS reserves the right to reject any/all tenders without assigning any reason whatsoever.

Product Literature

The vendor/bidder shall enclose product brochures, data sheets etc. of all major components like cameras, video management software, server, storage, switch, etc. along with the technical bid.

Earnest Money Deposit (EMD)

- a) Earnest money amounting to **Rs.30,000/-** only in the shape of crossed demand draft/pay order/banker's cheque, payable at Kolkata, drawn on any scheduled nationalized commercial bank in India, in favour of 'Indian Association for the Cultivation of Science'.
- b) The Vendor/bidder shall seal the EMD envelope separately, suitably super scribe on the cover, writing the address of the purchaser and the tender reference number on that and place it in a separate cover.
- c) The Earnest Money will be refunded to the non-qualified vendor/bidders in respect of technical bid against the prayer of the vendor/bidder. No interest will be offered on the Earnest Money.
- e) Successful vendor/bidder s' Earnest Money will be returned without any interest, after receipt of security deposit.

Deposition of Security Money (i.e. Performance Security):

- (a) The selected vendor/bidder must deposit the requisite amount of security money (**@ 10% of the ordered value**) within the stipulated date (which will be specified in the acceptance letter/Purchase

Order issued by the undersigned in favour of the approved firm) in the form of a Crossed Demand Draft of any nationalized banks drawn in favour of Indian Association for the Cultivation of Science.

Forfeiture of Security Deposit (Penalty)

(a) In the event of failure to complete the project within the stipulated period as mentioned in the purchase order. In that situation, the purchase may be made from the next higher vendor/bidder without any further reference, so that the loss incurred would be recoverable from the security deposit of the said vendor/bidder or from any sum due or which may become due to the vendor/bidder.

(b) If the selected vendor failed to maintain the supplied CCTV System within the "warranty period".

(c) If any equipment is damaged by the vendor/bidder during maintenance within warranty period but not fully repaired or replaced by them.

Refund of Security Deposit:

After successful completion of the Warranty period of three years.

Comprehensive Warranty:

i) The Comprehensive Warranty shall be for a period of 36 (thirty six) months from the date of satisfactory installation, testing, commissioning and handing over the equipment which covered under warranty in working order. During the Guarantee/ Warranty period the replacement of any part(s) of the equipment or rectification of defect of product will be free of cost. If, the down time exceeds seven consecutive days at any one time, the guarantee period will be extended beyond aforesaid 12 (twelve) months by duration equal to the total down time during the period of warranty.

ii) If, the tenderer is required to replace the rejected equipment and/ or other articles, he will replace them forthwith, but not later than a period of 14 (fourteen) days from the date of rejection. The tenderer shall bear all cost of such replacement, including freight, if any, of such replacement or repaired equipment and/ or other articles but without being entailed to any extra payment on that or any other account.

iii) Training to be given to IACS staff for operation & maintenance, troubleshooting, user level training pertaining to system after successful commissioning.

iv) Vendor shall make necessary arrangements for keeping the sufficient spares at site to minimize the down time.

Scope of Work

(1) Design, Engineering, Supply, Erection and Commissioning of complete CCTV surveillance system at the designated locations as per features and requirements given in this document.

(2) Supply and laying of all cables through cable racks, cable trays, conduits or inside suitable trenches (to be provided by the vendor including back filling) as required.

(3) Installation, acceptable, testing, commissioning, field acceptance, test run and stabilization of the complete system.

(4) Completion of drawings / documents as per the execution of project at site.

(5) User Documentation, Warranty Certificates, Training etc. to be provided by the vendor/bidder.

(6) Authorization letter from the Original Equipment Manufacturer (OEM) in their original letterhead addressed to IACS to support the offered Cameras, Network Switches, and Video Management Software and other accessories being provided for completion of the said project and to support during AMC shall be submitted along with the tender.

(7) Any other instruments / equipments / services, which are not explicitly mentioned above or in the price bid but deemed necessary for the successful operation of the system complete in all respects, shall be in vendor/bidder's scope.

(8) Commissioning all the installed equipment and fine-tuning the total system so as to deliver performance detailed in this document.

Note:

COMPLETION OF PROJECT: Scope shall not be restricted to the items listed in the schedule or requirement and specifications only. All the items, components and equipment needed to make the complete system functional and secure shall be included in the technical and price bid submitted by the Bidder.

VENDOR PRE-QUALIFICATION CRITERIA

The vendor/bidder shall provide the following organization details and also submit documentary proof in support of all the Pre Qualification criteria mentioned below.

- a) The vendor/bidder should be a firm/ organization/institute/ company/ corporation/ society/ trust registered and incorporated in India and should be registered as bona fide Manufacturer (OEM) of CCTV/ security/ surveillance or Authorised Dealer and should have been in existence prior to 01-04-2012. Consortium in any form is not allowed.
- b) The net worth of the vendor/bidder in the last three financial years, i.e. 2012-2013 & 2013-2014, 2014-2015 should be positive.
- c) The Vendor/bidder should be operational in the relevant field for at least 4 (four) consecutive years.
- d) The vendor/bidder should have required experience of supplying, installing and maintenance of CCTV cameras and surveillance system products least 3 customers located in Kolkata or near Kolkata.
- e) The Vendor/bidder should have a registered number of
 - i. VAT/Sales Tax where his business is located
 - ii. Service Tax
 - iii. Income Tax / Permanent Account Number (PAN).
- f) The OEM should have a registered office with service setup based in India and the vendor/bidder should have a fully functional service centre in Kolkata.
- g) The OEM shall confirm that the offered Hardware/ Software is as per latest technology and not likely to be declared as End of Service/support within next 5 years.
- h) The OEM shall confirm that the Vendor/bidder is allowed to sell & service their security/surveillance product.
- i) The vendor/bidder must have their office with support services available in Kolkata or near Kolkata. Stock of spares should be available at Kolkata/near Kolkata to ensure the uninterrupted functioning of the System.
- j) The vendor/bidder has to provide three Client references with Name of the designated person, Address, Phone No., E-mail Address.
- k) A firm is not eligible to participate in this tender if at the time of bidding, the firm is black-listed/ debarred in participating in any procurement process undertaken by - any Procuring Entity, debarred by any State Government/ Government of India.
- l) The Vendor shall not sublet or assign the Contract or its any part to anyone without the prior written approval IACS authority.

NOTE:

1. In order to be allowed to participate in this tender, vendor/bidder must meet all pre Qualification criterions as stated above.
2. Documentary evidence for the above items must be submitted along with submission of completed vendor pre-qualification form in the technical bid. Vendor/bidder failing to do so shall not be considered for participation in this tender.

Objective of IP CCTV Surveillance System at IACS

- i) Live viewing of camera images at IACS Control Room under all lighting conditions.
- ii) Recording of images will be at IACS Control Room.

- iii) Viewing of recorded video images at the control room so that persons, vehicles etc can be clearly identified from the recording under all lighting conditions.
- iv) Recording of at least 15 days at 1280x720 resolutions.
- v) Minimum Uptime of system including network shall be 99.9%.

GENERAL RULES AND INSTRUCTIONS FOR THE GUIDANCE OF TENDERERS

1. Sealed item rate tenders in Two Envelope system (Technical Bid & Financial bid) are invited from bonafide vendors/bidders for "**Supply, Installation, Testing & Commissioning of CCTV Surveillance System in the Campus of IACS**, situated at 2A & B Raja S C Mullick Road, Jadavpur, Kolkata 700 032.
2. The site for the project will be made available to the vendors/bidders in its present conditions. No space other than the above site can be made available to the vendors/bidders for site office, labour camps, storage etc.
3. Pre bid Conference will be held with the intending vendors/bidders on **17/12/2015 at 3.30 P.M.** at SN Bose Meeting Hall of Indian Association for the Cultivation of Science at 2A & 2B Raja S C Mullick Road, Kolkata 700 032 to clarify any point that the intending vendors/bidders may have regarding this project.
4. Sealed tenders on the prescribed form are to be addressed to the **Registrar, Indian Association for the Cultivation of Science, 2A&2B, Raja S.C. Mullick Road, Jadavpur, Kolkata-700032** which would be submitted to the Dispatch Section on or before **29/12/2015 (up to 2.00 P.M.)**. The EMD (in a separate envelop) should be submitted along with the tender as stated earlier. The tender documents consisting of three separate sealed covers containing the documents as under shall be covered by a fourth envelop (outer cover) :-

i) **Technical Bid:**

The Envelop-I shall consist of Earnest Money Deposit (EMD) in proper form and shape.

The Envelop -II shall consist of Technical Bid with following documents :-

- a) Proof of eligibility criteria as per Vendors Pre-Qualification Criteria.
- b) PAN Card, Service Tax Registration Certificate, VAT Registration Certificate, IT Return copy for the last three financial years, Company Profile etc. and any other documents found to be suitable in support of their technical competency.

ii) **Financial Bid:**

The Envelop-III shall consist of the following document(s).

- (a) **Bill of Materials (BOM)** as provided with the tender documents. The rate should be quoted in figure and word both. (b) **Bank Account details** of the firm mentioning the **Beneficiary Name, Account Number, Bank Name, Branch Name, IFS Code & MICR Code.**

5. The vendors/bidders should quote the rate in figures as well as in words, and amount tendered by them. The amount for each item should be worked out and the requisite totals given.

6. All corrections shall be attested by the initials of the vendors/bidders with the seal of the firm. In case any discrepancy/difference is found on checking between rates quoted by the contractor in words and figures or in the amount worked out by him, the following procedure shall be followed :
 - a) When there is a difference between the rates in figures and in words, the rate which corresponds to the amounts worked out by the vendors/bidders, shall be taken as correct.
 - b) When the amount of any item is not worked out by the contractor or it does not correspond with the rate written either in figures or in words, the rate quoted by the contractors in words shall be taken as correct.
 - c) When the rate quoted by the contractor in figures and in words tallies but the amount is not worked out correctly, rate quoted by the contractor shall be taken as correct and not the amount.
 - d) Amendments as mentioned above shall be based on the tender marked "Original" only.

7. When a vendors sign a tender in an Indian language the tendered amount and the total amount tendered should also be written in the same language

8. EMD amounting to **Rs.30, 000/-** in the form of Crossed Demand Draft/Pay Order/Banker's Cheque drawn in favour of Indian Association for the Cultivation of Science, Kolkata must accompany.

9. The acceptance of a tender will rest with the IACS, Kolkata which does not bind itself to accept the lowest tender, and reserves to itself the authority to reject any or all of the tenders received and to place order on one or more firms without assigning any reason.

10. Canvassing in connection with tenders is strictly prohibited and the tenders submitted by the vendors who resort to canvassing will be liable to rejection.

11. All rates shall be quoted on the proper form of the tender alone.

12. On acceptance of the tender, the name of the accredited representative(s) of the vendor who would be responsible for taking instructions from the IACS Authority shall be communicated.

13. The vendors shall give a list of his relatives working with the IACS (if any) along with their designations and addresses.

14. No employee of the IACS is allowed to work as a vendor for a period of two years of his retirement from IACS service, without the previous permission of the IACS. This contract is

liable to be cancelled if, either the vendor or any of his employees is found at any time to be such a person who had not obtained the permission of IACS as aforesaid before submission of the tender or engagement in the vendor's service.

15. The tender for project shall remain open for acceptance for a period of 60 days from the date of opening of tenders (Financial Bid). If any tenderer withdraws his tender before the said period, then the IACS shall be at liberty to forfeit the Earnest Money (EM) Deposited along with the tender.
16. The notification of award of project will be made in writing to the successful vendor by Indian Association for the Cultivation of Science.

Acting Registrar
Indian Association for the Cultivation of Science
2A & 2B Raja S C Mullick Road, Jadavpur,
Kolkata 700 032

FORM OF TENDER

(To be filled up by the Tenderer)

The Registrar
Indian Association for the Cultivation of Science
2A & 2B Raja S C Mullick road
Jadavpur
Kolkata 700 032.

Dear Sir :

Subject : Supply, Installation, Testing & Commissioning of CCTV Surveillance System in the campus of IACS, Jadavpur, Kolkata

1. I/We refer to the NIT No **ADM/CCTV/2015/** dated/12/2015 issued by IACS for submitting tender in connection with the subject mentioned above.

2. I/We do hereby offer to supply, install, testing, commissioning and maintain for three years in conformity with Terms and Conditions, Bill of Materials for the sum of Rs. at the respective rates quoted in Bill of Materials.

3. I/We have satisfied myself/ourselves as to the site conditions and all other respect of the tender conditions, subject to above. I/We do hereby agree, should this tender be accepted in whole or in part, to :

- a) Abide by and fulfill all the terms and provisions of the said conditions annexed hereto;
- b) Complete the project within one month as per the terms and conditions enclosed with the tender documents at no extra cost to the IACS.

4. I/We have deposited the EMD of **Rs.30,000/-** (Rupees Thirty Thousand only) in the form of Demand Draft/Pay order/Banker's Cheque which, I/We note, will not bear any interest and is liable for forfeiture :

- i) If our offer is withdrawn within the validity period of acceptance.

Or

ii) If the project is not commenced within 1 (one) month after issue of work order.

6. I/We understand that you are not bound to accept the lowest or any tender you receive.

6. Name of Partners/Directors of our Firm :

i)

ii)

iii)

Yours faithfully,

Signature _____

Name of Partner/Director of the firm authorized to sign or Name of person having power of attorney to sign the contract. (Certified true copy of power of attorney should be attached)

Designation _____

Signature and address of Witness

a) Signature _____

Name _____

Address _____

b) Signature _____

Name _____

Address _____

