

**E -TENDER
FOR
SUPPLY & INSTALLATION OF
CCTV CAMERA SYSTEM & CORE
COMPONENTS
AT
NATIONAL SCIENCE CENTRE,
DELHI.**



Ministry of Culture
Government of India

**NATIONAL SCIENCE CENTRE
(NATIONAL COUNCIL OF SCIENCE MUSEUMS)
BHAIRON ROAD, NEAR GATE NO - 4, PRAGATI MAIDAN
NEW DELHI - 110 001**

NATIONAL SCIENCE CENTRE
(A Unit of National Council of Science Museums)
NEAR GATE NO - 4, PRAGATI MAIDAN,
BHAIRON MARG, NEW DELHI-110001

TENDER No. NSCD/18011/E-Tender - 08 / 2025 - 26

NOTICE INVITING E-TENDER

On-line Digitally signed E-Tenders are invited in two Bid System from Manufacturers / authorized dealers for “**Supply & Installation of CCTV Camera System & Core Components at National Science Centre, Delhi**”. The experienced / eligible manufacturers/reputed authorized dealers may download the tender documents from the Central Public Procurement Portal (CPPP): <http://eprocure.gov.in/eprocure/app>

Bid Document Published Date	07 th July, 2025 (18:15 PM)
Bid Document Download Start Date	07 th July, 2025 (18:20 PM)
Bid Clarification Start Date	08 th July, 2025 (10:00 AM)
Bid Submission Start Date	08 th July, 2025 (12:00 Noon)
Bid Clarification End Date	25 th July, 2025 (17:30 PM)
Bid Submission End Date	28 th July, 2025 (14:30 PM)
Technical Bid Opening Date	29 th July, 2025 (15:00 PM)
Financial Bid Opening date	Shall be communicated later on
Estimated Cost	₹6.81 Lakhs
Earnest Money Deposit	₹17,025/-

The online bid both Technical Bid and Financial Bid, should be uploaded by the due date and time as per the above schedule. The responsibility to ensure the same lies with the bidders. Off-line tenders shall not be accepted and no request in this regard will be entertained whatsoever. **Online Technical Bid will be opened at the first instance in National Science Centre, Delhi at 03:00 PM on T-Day + 29th July, 2025 for Technical Evaluation as well as selection of technically acceptable offers.** In the second stage, the Financial Bids of only the selected and techno-commercially acceptable offers / system / equipment will be opened. Decision of the Centre, regarding selection of eligible and qualified vendors / firms for opening the Financial Bid shall be final and binding on the bidders. Bidders may be present during opening of tenders.

NSC, Delhi reserves the right to accept or reject any or all tenders in full or part without assigning any reason whatsoever. NSCD shall also not be bound to accept merely the lowest tender but the technical suitability, capability and superiority of the equipment / system as well as after sales service including infrastructure to render such service, etc. shall be of prime consideration for selection of the equipment /system.

CHECK LIST

Check list of Tender No. NSCD/18011/E-Tender – 08/ 2025 – 26 for “Supply & Installation of CCTV Camera System & Core Components at National Science Centre, Delhi”

Sl. No.	Description	Yes	No
01	Whether E-Tender uploaded on Central Public Procurement Portal of Govt. of India (i.e. Technical & Commercial) separately.		
02	Whether Tender documents carefully studied & understood.		
03	Whether Tender documents duly signed and stamped on all pages is scanned and uploaded as Part - I of the Tender in central public procurement portal.		
04	Whether Earnest Money of ₹17,025/- submitted by online / vide Demand Draft No. dated..... and Scanned copy of DD uploaded as Part - I of the Tender. Please note that the original DD should be couriered /hand delivered to NSC Delhi / online payment details shall be sent to NSCD before the time of opening Technical Bid.		
05	Whether Declaration regarding Non-relation, duly signed and stamped, and scanned copy of the same uploaded as Part - II of the Tender in central public procurement portal. Annexure-C		
06	Whether Declaration certifying that there is no extra conditions quoted in the Offer Form duly signed and stamped, and scanned copy of the same uploaded as Part - I of the Tender in central public procurement portal. Annexure-C		
07	Whether Technical Specification & Scope of Work of CCTV Installation and essential details of Items/Services required given in Annexure E duly signed and stamped, and scanned copy of the same uploaded in the Tender in Central Public Procurement Portal.		
08	Did you visit the actual site for execution of the supply order before submitting the Tender		
09	Authorization Letter issued from OEM enclosed with the Technical Bid.		

Date:

Signature of the Tenderer

Place:

Official Seal

General Information and Instructions

1. The instruction given herein will be strictly binding on the tenderers and deviation, if any will make the tender or tenders liable to be considered invalid. Tenders incorporating additional conditions by the tenderer are liable for rejection.
2. Bids shall be submitted online only at CPPP website: <https://eprocure.gov.in/eprocure/app> Manual bids shall not be accepted.
3. The instruction given in “Annexure-A” i.e. “**Instruction for Online Bid Submission**” should be strictly followed during submission of the Bid.
4. Bid documents may be scanned with 100 dpi with black and white option which helps in reducing size of the scanned document.
- i) Bid should be submitted along with the **Earnest Money of ₹17,025/- (Rupees Seventeen Thousand and Twenty Five only)** through NEFT/RTGS in the account of National Science Centre as per Annexure F or by way of crossed Demand Draft / Pay Order on any nationalized bank of India payable in favour of “**NATIONAL SCIENCE CENTRE, Payable at DELHI**”. Earnest Money deposit in the form of Bank Guarantee /Bond or any other instrument shall not be accepted and shall be rejected straightway. Earnest Money deposits in respect of such offers which are not accepted will be returned to the bidders within 30 working days from the date on which the final decision is taken about the source from which the items under tender are to be procured or within 2 (two) months from the date of the opening of the tenders, whichever is earlier. No interest will be paid on the Earnest Money deposited with the Council. Earnest Money deposit in respect of the successful bidders will be retained with the NSCD until entire execution of the order as per terms of the tender. If the successful bidder fails to execute the order strictly as per the NSCD’s specification in full or part within the stipulated delivery period of the purchase order, the Earnest Money deposit retained with the NSCD shall be forfeited forthwith after cancellation of the concerned order. In case of non-receipt of EMD, the Tenders are liable to be rejected. **However, exemption will be given to the MSME/NSIC registered agencies for submission of EMD.**
5. **Validity of Bids:** The Bids should remain valid for 90 days from the date of bid opening.
6. **Rejection of Bids:** Canvassing by the Bidder in any form, unsolicited letter and post-tender correction may invoke summary rejection. Conditional tenders will be rejected. Non-compliance of applicable General Information and Instruction will disqualify the Bid.
7. The tenderers should have Digital Signature Certificate (DSC) for filling up the Bids. The Person signing the tender documents should be authorized for submitting the on line e-tender.
8. The Financial Bid (BOQ) shall be filled in and signed by the authorized signatory online as per Proforma “**Annexure-H**” available at Central Public Procurement Portal e-tender system website <http://eprocure.gov.in/eprocure/app>. Off line Financial Bid shall not be accepted.

9. **Tender must be uploaded on-line in two separate sets – namely Set – 1 (Technical on Central Public Procurement Portal. The contents of Cover shall be as follows:-**

Set – 1

- i) Tender Document uploaded with digital signature as token of acceptance of all terms and conditions and duly filled wherever applicable ('Declaration' forms duly signed with official stamp).
- ii) The Bidder must furnish details of GST Number and PAN Number (mandatory) and also upload the scanned copy of these documents in e-procure portal.
- iii) Scanned Copy of the current and valid Trade License and Dealership Certificate as applicable.
- iv) Scanned Copy of the current and valid Tax Clearance Certificate.
- v) Technical Brochures of each of the equipment with technical explanation for every feature of the product offered by the bidder.
- vi) Scanned copy of Demand Draft for ₹17,025/- as Earnest Money Deposit. Please note that the original DD should be couriered /hand delivered to NSC Delhi / online payment details shall be sent to NSCD before the time of opening Technical Bid.

Set - 2

- i) The Financial Bid (as per Annexure-H) i.e. Schedule of Price Bid in the form of attached BOQ Proforma shall be duly filled in, digitally signed and uploaded online by the bidder.

N.B. : The bidders shall consider the prevailing tax rates while quoting the rates. However, in the event of any changes in the statutory taxes and duties, the rates applicable at the time of payment shall be made by the competent authority of the NSC, Delhi against submission of supporting documentary evidence.

10. Order shall be placed in favour of a single agency considering the total cost arrived based upon consolidated BOQ as per **Annexure – H.**
11. The authority of National Science Centre, Delhi who does not bind themselves to accept the lowest tender and reserves the right to reject or accept any or all tenders wholly or partially without assigning and reason whatsoever.

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TENDER No. : NSCD/18011/E-Tender – 08/ 2025 – 26

Instructions for Online Bid Submission

1. 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.
2. 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: <https://eprocure.gov.in/eprocure/app>) by clicking on the link “**Online bidder Enrollment**” on the CPP Portal which 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 / 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 DSC’s 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 / e-Token.

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 / RAR / DWF/JPG formats. Bid documents may be scanned with 100 dpi with black and white option which helps in reducing size of the scanned document.
- 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” or “Other Important Documents” 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 they can 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) Bidders should submit the EMD / EMD Exemption Documents as per the instructions specified in the tender document. The original instrument should be posted/couriered/given in person to the Tender processing Section at the above address, latest by the last date of bid submission. The detail of the Demand Draft / any other accepted instrument, physically sent, should tally with the details available in the scanned copy and the data entered during bid submission time. Otherwise the uploaded bid will be rejected.
- 4) A standard Price Schedule format (BOQ) has been provided with the tender document to be filled by all the bidders. Bidders are requested to note that they should necessarily submit their financial bids in the format provided and no other format is acceptable. 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 Light Blue 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) All the documents being submitted by the bidders would be encrypted using PKI encryption techniques to ensure the secrecy of the data. The data entered cannot be viewed by unauthorized persons until the time of bid opening. The confidentiality of the bids is maintained using the secured Socket Layer 128 bit encryption technology. Data storage encryption of sensitive fields is done. Any bid document that is uploaded to the server is subjected to symmetric encryption using a system generated symmetric key. Further this key is subjected to asymmetric encryption using buyers/bid openers public keys.
- 7) The uploaded tender documents become readable only after the tender opening by the authorized bid openers.
- 8) Upon the successful and timely submission of bids (i.e. after Clicking "Freeze Bid Submission" in the portal), 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.
- 9) The bid summary has to be printed and kept as an acknowledgement of the submission of the bid. This acknowledgement may be used as an entry pass for any bid opening meetings.

ASSISTANCE TO BIDDERS

1. Any enquiries 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.
2. 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 1800 233 7315.
3. Any queries relating to the Tender may be addressed to dsr2275@gmail.com, nscdelhi10@gmail.com with proper credentials of the bidders before the bid clarification date thereafter no queries will be entertained.

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TENDER No. : NSCD/18011/E-Tender – 08/ 2025 – 26

GENERAL TERMS & CONDITIONS (GTC) FOR SUBMISSION OF TENDER FOR SUPPLY & INSTALLATION OF CCTV CAMERA SYSTEM & CORE COMPONENTS AT NATIONAL SCIENCE CENTRE, DELHI.

1. Bidders should have necessary infrastructure and facilities so as to take up the supply of the tendered items strictly as per enclosed specifications with required financial capability.
2. **PRICE:**
The prices and rates indicated/quoted shall be inclusive of cost of materials, supply and all incidental charges to deliver & install the **CCTV CAMERA SYSTEM & CORE COMPONENTS** at **NATIONAL SCIENCE CENTRE, DELHI**. GST and any other taxes/levies to be imposed on the rate shall be clearly mentioned. Price and rate quoted shall be firm and fixed for the entire period of execution of the order and no escalation of rate on any ground whatsoever shall be applicable.
3. The successful bidder shall submit the following documents within 03 (Three) days from the date of Placement of the order:-
 - i) Duplicate copy of the order duly signed and stamped as a token of acceptance of the order.
4. **TIME OF COMPLETION:** Time is the essence of this tender. The delivery of the tendered item as per enclosed technical specifications shall be made at **NATIONAL SCIENCE CENTRE, DELHI** strictly within **Thirty (30) days** from the date of placement of the order. For non-compliance of any of the above terms and non-delivery of the tendered items, complete in all respects within the above stipulated delivery period, the Centre shall have the right either to cancel the order or impose penalty as detailed in Clause No.05. Decision in this regard taken by the NSCD shall be final and binding on the successful bidder.
5. **PENALTY CLAUSE:-**
The time allowed for executing the supply as detailed in Clause No.04 shall be strictly observed by the successful bidder. The supply shall throughout the stipulated period of the order, be proceeded with all the diligence (time being deemed to be the essence of the order) and the successful bidder shall pay to the Centre , an amount equal to 1% of the amount of the contract value for every week that the supply may remain incomplete as per delivery schedule as stipulated in Clause No.04 subject to a **maximum compensation of 10% of the contract value** after which period, action will be taken by the Centre as will deem fit.
The Centre may extend the time of delivery of the ordered items at their discretion on the application of the successful bidder for such purpose provided that the Centre considers the reasons for such extension as good, sufficient and acceptable.
6. Every effort should be made to complete the supply by the successful bidder within the specified time schedule. In case the firm fails to comply with Clause no. 4 within the specified time schedule as per the finalized and accepted terms & conditions, the Centre shall have the right to either impose penalty clause or cancel the order forthwith and the earnest money deposit retained with the Centre shall be automatically forfeited.

7. PAYMENT TERMS:-

No advance payment shall be made by the Centre on any circumstances. Digital Payment (e-Payment) through RTGS/NEFT/TT/etc. shall be released within **30 (Thirty)** working days from the date of receipt of Tax-Invoice (supplies covered under clause No.04), duly supported by receipted challan subject to satisfactory inspection report of the ordered materials issued by the competent authority of the Centre. Invoice should be submitted indicating the Name of the Banker, IFSC Code, Account number, RTGS and Swift number of the banker, etc. for releasing e-payment to the supplier.

8. **DEFECT LIABILITY PERIOD:** The defect liability period shall be **24 (Twenty four) months** from the date of completion of the work. The successful tenderer shall be responsible for all defects in the material supplied like defective workmanship, use of defective materials, breakage, etc. for a period of 24 (Twenty four) months from the date of completion of the job. The successful tenderer shall rectify the defects/defective parts within 24 hrs. or maximum up to 48 hrs. from the time of lodging the complaint up to the satisfaction of the competent authority of the Centre or otherwise the Centre shall have the right to rectify the defect at the successful tenderer's own risk and the cost of which will be adjusted from the security Deposit.

9. WARRANTY:

Two (2) years Manufacturer's standard warranty should be offered by the bidder. The bidder shall be responsible for all defects of materials including transportation, etc. for the entire warranty period of the manufacturer effective from the date of final acceptance of the ordered materials.

10. The equipment to be supplied by the bidder shall conform to the technical specifications given by the Centre.
11. If it is noticed that the goods supplied do not conform to the technical specification of the order, the Centre shall have the right to reject the materials in part or full. The supplier shall be liable to replace the rejected materials within the stipulated time. Till the replacement is done, the rejected materials shall be lying at the risk, cost and responsibility of the supplier.
12. If the supplier do not arrange to replace the rejected materials within the stipulated time, the same may be disposed of at the risk of the supplier and in the manner which the Centre will deem fit. The Centre shall be entitled to retain the proceeds of the disposal either in part or in full towards expenses incurred on storage, handling and disposal of the materials. The Centre shall also be entitled to recover the expenses made by them on account of storage & handling of such rejected goods till the goods are removed from the premises of the Centre.
13. In case the bidder refuse to accept the offer after finalization or does not comply with the Clause No.03 within 03 (Three) days from the date of placement of the order as per the finalized and accepted terms & conditions and the order shall be cancelled forthwith.
14. The authorities of the National Science Centre, Delhi have the right to amend, alter or modify the terms & condition mentioned above, if necessary, from time to time.
15. The authorities of National Science Centre, who does not bind themselves to accept the lowest tender, reserves the right to reject or accept any or all tenders wholly or partially without assigning and reason whatsoever.
16. The quantities specified in the tender may be decreased or increased at the sole discretion of NSCD authorities.
17. The agencies participating in the tenders & bidding may obtain on specific request, details about the outcome of the Tender and other related details, if any.

18. All disputes and differences between the successful bidder and the Centre of any kind except quality of workmanship and materials whatever arising out of or in connection with the order on carrying out the supply (whether during the progress of the work or after their completion and whether before or after the determination, abandonment or breach of the Terms & conditions of the order) shall be referred to the sole arbitration of a person nominated by the Director General, National Council of Science Museums, whose decision in this regard will be final and binding on both the successful bidder and the Centre.

The provisions of the Arbitration and Conciliation Act 1996 or any statutory modification or re-enactment thereof and of the rules made there under for the time being in force shall apply to arbitration's proceedings under this Clause.

19. **FORCE MAJEURE:-** In the event of either party being rendered unable by Force Majeure to perform any obligation required to be performed by them under the contract, the relative obligation of the party affected by such Force Majeure shall be suspended for the period during which such cause lasts. The term "Force Majeure" as employed herein shall mean acts of God, War, Civil Riots, Fire directly affecting the performance of the MOU, Flood and Acts and Regulations of the government. Upon the occurrence of such cause and upon its termination, the party alleging that it has been rendered unable as aforesaid thereby, shall notify the other party in writing, the beginning of the cause amounting to Force Majeure as also the ending of the said cause by giving notice to the other party within 72 (seventy two) hours of the alleged beginning and ending of the cause respectively. If performance under the MOU is suspended by Force Majeure conditions lasting for more than 02 (two) months, either party shall have the option of cancelling the MOU, in whole or it part, at its discretion without any liability on its part.

20. Make in India (MII)

The tender abide with GOI order date 15th June 2017 to give purchase preference to Make In India (MII) product mentioned in order. Document link as follows:

https://dpiit.gov.in/sites/default/files/publicProcurement_MakeinIndia_15June2017.pdf

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TENDER No. : NSCD/18011/E-Tender - 08/ 2025 - 26

DECLARATION-I

We do hereby accept the “General Terms & Conditions” as provided by the National Science Centre along with the Tender documents for “**Supply & Installation of CCTV Camera System & Core Components at National Science Centre, Delhi**” and also undertake to supply the said materials at National Science Centre, Delhi strictly as per the technical specifications of National Science Centre as provided along with the tender documents, in the event of placement of any order on us. The Centre shall be at liberty to cancel the order in full or in part the event of failure of any of the above declaration made by us.

Signature of the Bidder / Constituted Attorney

DECLARATION-II

This is to certify that I/We have no close relative as an employee of the National Council of Science Museums (close relatives means: Father, Mother, Brother, Sister, Son, Daughter and Spouse) nor any such close relatives are associated with us as proprietor/partner/share holder/ director and like.

Signature of the tenderer

Address:

Official seal with date

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TECHNICAL (Techno-Commercial) BID

Notes: ALL PARTICULARS / INFORMATIONS SHOULD BE GIVEN IN THE FOLLOWING FORMAT WITH COMPLETE DETAILS.

01. Name & Address of the Firm/Bidder :
02. Telephone Number :
- Office :
- Office at Delhi/NCR :
03. i) Background details of the firm :
(State whether original manufacturer/direct Dealer of the manufacturer).
- ii) In case of direct dealers, submit copy of valid dealership license issued by the manufacturer.
04. State the Name of the Banker including IFSC Code :
and Account Number of the Tenderer for releasing digital mode of payment.
05. Past experience in such business for last 3 years :
giving details of established clients especially Government Offices. Submit satisfactory certificate issued by such clients and Government Offices.
06. i) Whether capable to execute the tendered item strictly as per enclosed technical specification. (Please mention 'YES' or 'NO')
- ii) If it is mentioned 'NO' above, submit detailed deviation to be made from the enclosed technical specification. (Extra sheet may be attached, if required)
- iii) If it is mentioned 'YES' above submit copies of product brochure (for product categories) as a proof of their statement.

07. State the Name & Address of the Manufacturer :
whose product has been offered /quoted by the tenderer.
08. Proof of financial status of the company/audited Balance :
Sheet for last 3 years indicating total turnover as well
(Submit documentary evidence.)
09. Whether agreed to accept 30 days credit Payment Terms. :
(Please mention 'Yes' or 'NO')
10. Minimum time required to complete the tendered item at :
NSC, Delhi.
11. Mention GST Registration Number and attach :
Current valid Tax Clearance Certificate.
12. Whether agreed to supply tendered items as per enclosed :
Specification (Annexure-E) positively by 30 days and failing
which ready to absorb heavy penalty, if any order is placed on
the bidder after observing tender procedure.
(Please mention 'YES' or 'NO')

I/We hereby declare that the above statements are true. I/We also declare that the decision of National Science Centre, Delhi regarding selection of eligible firms for opening of Financial Bid (Part-II) shall be final and binding on me/us.

Dated

Official Seal

Signature of the Tenderer/Constituted Attorney

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Technical Specification & Scope of Work of CCTV Installation and essential details of Items/Services required.

Schedule of Requirements:-

S. No.	Item	Unit	Qty.
(a)	Surveillance IP System Supply, installation, testing and commissioning of following IP IR PoE cameras including integrated housing, Connectors, Camera Mounts and all associated equipment & all accessories as per specification.		
(i)	Supply, installation, testing and commissioning of IP IR Dome camera (Indoor) with IP 67 Housing as per specification.(Make - Godrej/CP Plus /Honeywell/Sony/Samsung/LG, Camera should be STQC certified)	Nos.	30
(ii)	Supply, installation, testing and commissioning of IP IR Bullet camera (Outdoor) with IP 67 weather Proof Housing as per specification. (Make - Godrej/CP Plus /Honeywell/Sony/Samsung/LG, Camera should be STQC certified)	Nos.	13
(iii)	Supply, installation, testing and commissioning of Surveillance Hard Disc WD/Seagate 10Tb	No.	4
(iv)	Supply, installation, testing and commissioning of 8PoE+Uplink ports (Gigabits) switch as per specification.(Make - CP Plus/D-Link)	Nos.	7
(v)	Indoor wall Rack,4U size 40cm x 55 cm x 14 cm for PoE switch with PDU, Shelf & Accessories with lock .	Nos.	5
(vi)	PoE Extender	Nos.	4
(vii)	Point to Point CPE (Wireless Gigabit) Make- Tenda	Nos.	4
(viii)	Outdoor PVC Box with glands for Bullet Camera	Nos.	13
(ix)	Cat 6 cable, with RJ45 connectors.305 m Real in box (Make-D-Link/Digisol/Polycab)	Box.	9
(x)	Conduit pipe, 25 mm inner dia laying for Cat 6 UTP cable with accessories. (Make-Cap/AKG/ISI mark)	Mtrs.	900
(xi)	PVC Bend, Metal Clamp with screw & gitti	~	~
(xii)	Weather proof Enclosure/Rack for PoE Switch with power socket for outdoor purposes	No.	1
(xiii)	43" LED Smart Monitor as per specification - (Male-LG/Samsung/Panasonic)	No.	1
(ix)	Supply, installation, testing, commissioning & training	Job	1

SCOPE OF WORK

1. Installation of 43 cameras at desired locations.
2. All cameras should have IP based IR night vision capability & with STQC certified.
3. Centralize view of all cameras in Central Control Room.
4. Basic analytics like:-
 - a) Tripwire detection and tempering of cameras to be provided in all cameras.
 - b) All cabling as per requirement and consideration of the buyer.
 - c) The scope of work installation, commissioning, testing and training to be provided.
 - d) Training manual in hardcopy to be provided with hardcopy of cable layout diagram site.
5. Once the supply order is placed, it will be the vendors' responsibility to make the project functional. Any additional cost incurred for completing the integrated project and for which the vendor has not bid at the time of submission of the final offer will be borne by the vendor.
6. The CCTVs Surveillance System need to be functional on 24x7 basic i.e. 24 hours all the days and need to have at least 30 days data storage capacity for all CCTVs.
7. The contractor will liaison on behalf of **National Science Center, Delhi**, with other different OEMs for repairing of equipment(s) and all other accessories during warranty period.
8. At NSCD fault clearing should happen with 2 days and outside NSCD fault clearing should happen within 7 days of registration in all cases.
9. Repair status will be clear after user is satisfied with the repair.
10. The contractor has to provide a standby hardware in case of breakdown maintenance takes more than two working days for on-site repair. For any repair not carried out within two working days or a standby provision period not exceeding 7 working days competent authority may impose a penalty of Rs. 200/- per item per day till the date the item / equipment is made functional subject to maximum amount as equivalent to the cost of the item/ equipment.
11. All equipment/items/components and associated accessories under the contract will have preventive maintenance once in every three months. The required tools and software for this purpose will be provided by contractor. The contractor will send a part time supervisor at least once in every three months to inspect the system.
12. The contractor will maintain "History Card" and documentation for each equipments under contract. Contractor will distinctively do the marking on each & every item under this contract. The contractor will be required to submit summary of monthly call reports to NSCD.
13. Contractor liable to hand-over the entire system under its warranty to the successor/NSCD in working condition, failure of which shall leads to forfeiture of Security Deposit.

TECHNICAL SPECIFICATION WIT COMPILATION SHEET**(Compulsory to fill-up in the given format)****SPECIFICATIONS****Item:** IP IR Dome Camera (Indoor)**Quantity:** 30 Nos.**Technical Specifications :** Make - CP Plus/Godrej/Honeywell/Sony/Samsung/LG Equivalent Approved makes & with STQC approved compliance report

Image Sensor	1/2.8" 2MP 1 / 2.8" 2 MP PS CMOS Image Sensor (0.9071 Centimeter)
Certificates	MTBF Certificate from STQC, ISO9001, STQC approved compliance report
IR Distance	40 Mtr. (IR)
Weatherproof Standard	IP67
Effective Pixels	1920 (H) × 1080 (V)
Shutter Speed	Auto/Manual 1/3 s–1/100,000 s
Angle Adjustment	Pan: 0°–355°, Tilt: 0°–65°, Rotation: 0°–355°
RAM	512 MB
ROM	128 MB
White Balance	Auto, natural, street lamp, outdoor, manual, regional custom
Lens	2.7mm~13.5mm
Gain Control(AGC)	Auto
Lens Type	Motorized
Max. Aperture	F1.5
Lens Mount	M14
Close Focus Distance	0.8 Mtr.
DORI Distance	W: 44.1 Mtr. (Detect), 17.7 Mtr. (Observe), 8.8 Mtr. (Recognize), 4.4 Mtr.(Identify) T: 144.8 Mtr. (Detect), 57.9Mtr. (Observe), 29.0Mtr. (Recognize), 14.5 Mtr. (Identify)
Back Light Compensation	BLC / HLC / WDR(120dB)
Angle of view	H: 109°–30°, V: 56°–17°, D: 131°–35°
Stream Capability	Quad Stream
Video Format	PAL/NTSC
Video Compression	Instastream, H.264+, H.265, H.264, H.264H, H.264B, MJPEG (Only supported by the sub stream)
Resolution	2MP(1920 × 1080),1.3MP(1280× 960),1MP(1280×720),D1(704×576/704×480), VGA(640 × 480), CIF(352 × 288/ 352 × 240)
Bit Rate Control	CBR/VBR
Image Stabilization	Electronic Image Stabilization (EIS)
Motion Detection	OFF/ON (4 Areas, Rectangular)
Privacy Mask	4 Area
ROI	Support (4 Areas)
Audio Compression	PCM, G.711a, G.711Mu, G.726, MPEG2-Layer2, G.722.1
Audio	Built-in Mic
Alarm IN	1 channels in: 5mA 3V–5V DC
Alarm Out	1 channel out: 300mA 12V DC
OSD	Camera title, Date & Time
Protocol	SFTP, IPv6, IPv4, DNS, RTCP, NTP, RTP, HTTP, HTTPS, SNMP V1/V2/V3, TCP/IP, PPPoE, UPnP, NFS, UDP, ICMP, SSL, DHCP, SMTP, RTSPS,ONVIF (Profile S, Profile G,Profile T), unicast, Multicast
IVS (Optional)	Tripwire, Intrusion, Object Abandon/ Missing, SMD, Face Detection
SDK and API	Support
Ethernet	RJ-45 (10/100Base-T)
Day/Night	Auto(ICR)/Color/B/W
IR Number	3 (IR LED)
Storage	SFTP, Micro SD card (support max. 512 GB), NAS
Frame Rate	Main stream: 2MP/1.3MP/1MP/D1 @ (1-25/30fps) Sub stream 1: D1/VGA/CIF@ (1-25/30fps) Sub stream 2: 2MP/1.3MP/1MP/D1 @ (1-25/30fps) Sub stream 3: D1/VGA/CIF@ (1-25/30fps)
Operating Temperature	–30 °C to +60 °C (–22 °F to +140 °F)
Image Rotation	0°/90°/180°/270° (Support 90°/270° with 1080p resolution and lower)
Power Source	12 VDC/24 VAC/PoE (802.3af)
Power Consumption	Basic: 1.6 W (12 VDC), 1.9 W (24 VAC), 3.1 W (PoE) Max. (H.265 + WDR + Intelligence on + IR on: 7.9 W (12 VDC), 9.5 W (24 VAC), 9.9W (PoE)

TECHNICAL SPECIFICATION WIT COMPILATION SHEET**(Compulsory to fill-up in the given format)****SPECIFICATIONS****Item:** IP IR Bullet Camera (Outdoor)**Quantity:** 13 Nos.**Technical Specifications :** Make - CP Plus/Godrej/Honeywell/Sony/Samsung/LG Equivalent Approved makes & with STQC approved compliance report

Image Sensor	1/2.7" 2MP PS CMOS Image Sensor (0.9407 Centimeters)
Certificates	MTBF Certification from STQC, ISO9001, STQC approved compliance report
IR	IR Range of 60 Mtr.
Weatherproof Standard	IP67
Effective Pixels	1920 (H) × 1080 (V)
Shutter Speed	Auto/Manual 1/3 s–1/100,000 s
Angle Adjustment	Pan: 0°–360°, Tilt: 0°–90°, Rotation: 0°–360°
RAM	128 MB
ROM	128 MB
White Balance	Auto, Natural, Street lamp, Outdoor, Manual, Regional custom
Lens	6mm Fixed Lens
Max. Aperture	F1.4
Close Focus Distance	6 mm: 2.6 m
Gain Control(AGC)	Auto, Manual
Iris Control	Fixed
Lens Type	Fixed-focal
Lens Mount	M12
DORI Distance	Lens 6 mm: 85.5 m (Detect), 34.2 m (Observe), 17.1 m (Recognize), 8.6 m (Identify)
Angle of view	6 mm: H: 54°, V: 29°, D: 63°
stream Capability	Triple stream
Video Format	PAL/NTSC
Video Compression	Instastream, H.265, H.264, H.264H, H.264B, MJPEG (only supported by the sub stream)
Resolution	2MP (1920 × 1080), 1.3MP (1280 × 960), 720p (1280 × 720), D1 (704 × 576/704 × 480), VGA (640 × 480), CIF (352 × 288/352 × 240)
Bit Rate Control	CBR/VBR
Motion Detection	OFF/ON (4 areas, rectangular)
Privacy Mask	4 areas
Smart IR	Support
ROI	Support (4 Areas)
Audio Compression	G.711a, G.711Mu, PCM, G.726, AAC
Audio	Built-In Mic
OSD	Camera title, Date & Time
Protocol	SFTP, IPv6, IPv4, DNS, RTCP, NTP, RTP, HTTP, HTTPS, SNMP V1/ V2/ V3/, TCP/IP, PPPoE, NFS, UDP, ICMP, SSL, DHCP, SMTP, RTSPS, ONVIF (Profile S, Profile G, Profile T), unicast, multicast
Smart search	Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos
Ethernet	RJ-45 (10/100 Base-T)
SDK and API	Support
IR Control	Auto, Manual
Day/Night	Auto(ICR)/Color/B/W
Storage	SFTP, NAS, Mirco SD card (Max. 512GB)
Frame Rate	Main stream: 2MP (1920 × 1080)/1.3MP (1280 × 960)/ 720P@25/30fps Sub stream 1: 720p/D1/VAG/CIF@25/30Fps Sub stream 2: D1/VGA/CIF/@25/30fps
Operating Temperature	–40 °C to +60 °C (–40 °F to +140 °F)
Image Rotation	0°/90°/180°/270° (Support 90°/270° with 1080p resolution and lower)
Human body Detection	Support the classification and accurate detection of human
Browser	IE, Chrome, Firefox
User/Host	6 (Total bandwidth: 24 M)

TECHNICAL SPECIFICATION WIT COMPILATION SHEET**(Compulsory to fill-up in the given format)****SPECIFICATIONS****Item:** HD Network Video Recording**Quantity:** 01 No.**Technical Specifications :** Make - CP Plus/Godrej/Honeywell/Sony/Samsung/LG or Equivalent Approved makes

Processor	Industrial-grade processor
IP Camera Input	64 Channel
Video Display Split	Main screen: 1/4/8/9/16/25/36/64, Sub screen: 1/4/8/9/16
Operating System	Embedded LINUX
User Interface	Web, Local GUI
Interface Ports	4 (2 front USB 2.0 ports, 2 rear USB 3.0 ports), 1 eSATA Port, 1 RS232, 2 RS485 (1 port for halfduplex serial communication, 1 port for full-duplex serial com
Protocols	HTTP, HTTPS, TCP/IP, IPv4/IPv6, UDP, SNMP, NTP, DHCP, DNS, SMTP, UPnP, IP Filter, PPPoE, FTP, DDNS, Alarm Server, Multicast, InstaOn, Auto Registration, iSCSI, ONVIF 22.06 (Profile T, Profile S, Profile G), CGI, SDK
Hard Disk	8 SATA ports, each disk can contain up to 20 TB. This limit varies depending on the environment temperature
Disk Group	Support
Video Output	2 VGA: 1920 × 1080, 1280 × 1024, 1280 × 720 2 HDMI: 3840 × 2160, 1920 × 1080, 1280 × 1024, 1280 × 720 Heterogeneous video source output for HDMI1 and HDMI2 Simultaneous video source output for VGA1 and HDMI1 Simultaneous video source output for VGA2 and HDMI2
Video Compression	Instastream, H.265, H.264+, H.264, MJPEG
Decoding Capability	AI disabled: 2 Channel 32 MP@25 fps, 2 Channel 24 MP@25 fps, 4 Channel 16 MP@30 fps, 5 Channel 12 MP@30 fps, 8 Channel 8 MP@30 fps, 10 Channel 6 MP@30 fps, 12 Channel 5 MP@30 fps, 16 Channel 4 MP@30 fps, 32 Channel 1080p@30 fps AI enabled: 1 Channel 32 MP@25 fps, 1 Channel 24 MP@25 fps, 2 Channel 16 MP@30 fps, 4 Channel 12 MP@30 fps, 6 Channel 8 MP@30 fps, 8 Channel 6 MP@30 fps, 8 Channel 5 MP@30 fps, 12 Channel 4 MP@30 fps, 24 Channel 1080p@30 fps
AI by NVR	Face detection, Face recognition, Perimeter protection, SMD Plus
AI by Camera	Face detection, Face recognition, Video metadata (Human, Motor vehicles, Non-motor vehicles), Perimeter protection, SMD Plus, Stereo analysis, Crowd distribution, People counting, ANPR, Vehicle density, Heat map
Resolution	32 MP, 24 MP, 16 MP, 12 MP, 8 MP, 6 MP, 5 MP, 4 MP, 3 MP, 2 MP, 720p, 960p, D1, CIF, QCIF
Network Bandwidth	AI disabled: 384 Mbps incoming, 384 Mbps recording and 384 Mbps outgoing AI enabled: 200 Mbps incoming, 200 Mbps recording and 200 Mbps outgoing
Perimeter Performance AI by NVR	4 Channels, 10 IVS rules for each Channel
Perimeter Performance of AI by Camera	All channels (16 targets/s)
Face Detection	16 channels
Face Database Capacity	Up to 20 face databases with 20,000 images, with a total capacity of 2.5 G. Name, gender, birthday, address, credential type, credential No., countries & regions and state can be added to each face image.
Face Recognition Performance of AI by NVR (Number of Channels)	1. 16 Channel FD (by camera) + FR (by NVR), image stream: 2. 16 face images/s 2. 2 Channel FD (by NVR) + 3. FR (by NVR), video stream: 12 face images/s

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Face Recognition Performance of AI by Camera (Number of Channels)	16 channels
Audio Input	1 Channel RCA
Audio Output	2 Channel RCA
Audio Compression	G.711a, G.711u, PCM, G726, AAC
Multi-channel Playback	Up to 16 Channels
Intelligent Alarm	Face detection, Perimeter protection, Face recognition, Video metadata (Human, Motor vehicles, non-motor vehicles), SMD Plus, Stereo analysis, Crowd distribution, People counting, ANPR, Vehicle density, Heat map
General Alarm	Motion detection, local alarm, alarm box, camera external alarm, network alarm, scene changing, PIR alarm, thermal alarm
Alarm Input	16 Channel
Alarm Output	8 Channels (1-channel 12 V 1 A output)
Record Mode	General, Motion detection, Intelligent, Alarm, POS
Backup Method	USB device and network
Playback Mode	Instant playback, General playback, Event playback, Tag playback, Smart playback (face and motion detection)
Smart Phone	iPhone, iPad, Android Phone
RAID	RAID 0/1/5/6/10
Network Mode	Multi-address mode, load balance, fault tolerance and other network port binding modes
Ethernet	2 (10/100/1000 Mbps Ethernet port, RJ-45)
Browser	Chrome, IE, Safari, Edge, Firefox
Power Supply	100–240 VAC, 50-60 Hz
Power Consumption	Total output of NVR is ≤ 13 W (without HDD)
Operating Temperature	-10 °C to +55 °C (14 °F to +131 °F)

TECHNICAL SPECIFICATION WIT COMPILATION SHEET
(Compulsory to fill-up in the given format)

SPECIFICATIONS

Item: PoE 8 Port with 2 Uplink Port Switch
Quantity: 07 Nos.

Technical Specifications :

PoE Standard	IEEE802.3 10Base-T, IEEE802.3u 100Base-TX, IEEE802.3ab 1000Base-T, IEEE802.1W Spanning Tree, IEEE 802.3x flow control
Data Transmission Port	1×8 RJ45, 1×2 RJ45
Transmission Rate	10/100Mbps auto-negotiate, 10/100/1000Mbps auto-negotiate
Transmission Distance	10Base-T: ≤250m (CAT3,4,5 UTP), 100Base-TX: ≤100m (CAT3,4,5 UTP), 1000Base-T: ≤100m (CAT3,4,5 UTP)
Forwarding Mode	Store and forward
Transmission mode	Support Half/Full duplex Mode
MAC Address List	4K
Case space	1Mb
Jumbo Frame	921
Packet Forwarding Rate	4.1664Mpps@64byte
Bandwidth	5.6G
Power Indicator	Green power
Ethernet indicator	Yellow, Per Ethernet Port
DIP switch indicator	Green per PoE port, Green per uplink port
DIP switch	100m:Standard mode - All ports can communicate with each other, 250m: Extend mode, port 1-8 are isolated from each other, transmission distance can up to 250m, and can communicate with port 9-10
Power Input	AC100~240V, 50Hz
Power Consumption	Standby: ≤3W, whole: ≤96W
PoE Pin	1/2+, 3/6-
The Port max. Rate	≤25.4W
Operating Temperature	-20°C ~ 60°C
Storage Temperature	-40°C ~ 85°C
Operating Humidity	5% ~ 95% non-condensing
Heat dissipation method	Natural Heat dissipation

TECHNICAL SPECIFICATION WIT COMPILATION SHEET**(Compulsory to fill-up in the given format)****SPECIFICATIONS****Item: 43" LED Smart Monitor****Quantity: 01 No.****Technical Specifications :**

Smart LED Display	Make-LG, Samsung, Panasonic, or equivalent approved-1 no.
	Screen display size -43"
	Resolution - 3840x2160 Pixels
	In build Speaker system
	Display Technology - LED
	Connectivity - USB ports -02 nos. & HDMI -2 (Minimum)
	Viewing Angle - 178 Degree
	Wall mounting, Data and power cable with supported connectors, Remote controller with batteries.

BANK DETAILS OF NATIONAL SCIENCE CENTRE, DELHI

Name of the Account Holder	NATIONAL SCIENCE CENTRE, DELHI
Account No.	2417101004100
Bank Name	CANARA BANK
Bank Address	6, Bhagwan Das Road, New Delhi
IFSC Code	CNRB0002417
MICR Code	110015045
Type of Account	Saving Account
Branch Code	2417
GST No.	07AAAAN2541C1Z5