

TENDER
FOR
SUPPLY, INSTALLATION, TESTING
AND
COMMISSIONING
OF
IP IR BASED CCTV SURVEILLANCE
SYSTEM
AT
REGIONAL SCIENCE CITY,
LUCKNOW



NATIONAL SCIENCE CENTRE
(NATIONAL COUNCIL OF SCIENCE MUSEUMS)
BHAIRON ROAD, NEAR GATE NO. 2, PRAGATI MAIDAN
NEW DELHI – 110 001

NATIONAL SCIENCE CENTRE
(National Council of Science Museums)
Bhairon Road, Near Gate No. 2, Pragati Maidan,
New Delhi-110001

NOTICE INVITING E-TENDER

TENDER No. NSCD/18011/E-Tender- 27/17-18

On-line digitally signed E-Tenders are invited for Supply, Installation, Testing and Commissioning of IP IR based CCTV Surveillance System at **Regional Science City** (which is under the administrative control of National Science Centre, Delhi), Aliganj Extension, Sector - E, (Ekta Vihar), Lucknow - 226024 as per the Centre's Technical specification. Vendors having proven experience and capability of executing the order at a time may download the Tender Papers from Central Public Procurement Portal (CPPP): <http://eprocure.gov.in/eprocure/app> or from Centre's website www.nscdelhi.org or www.nscd.gov.in as per the following schedule:-

Bid Documents Published Date	9 th October, 2017
Bid Document Download Start Date	10 th October, 2017
Bid Submission Start Date	11 th October, 2017
Bid Document Download End Date	23 rd October, , 2017
Bid Submission End Date & Time	24 th October, 2017 (upto 01:00 P.M.)
Technical (Techno-Commercial) Bid Opening Date & Time	25 th October, , 2017 (at 03:00 P.M.)
Financial Bid Opening Date & Time	30 th October, 2017 (at 02:00 p.m)
Earnest Money Deposit	INR 15,500/- (Rupees Fifteen Thousand Five hundred only)
Tender Fee	INR 100/- (Rupees One Hundred Only)

The On-line bid should be uploaded by the due date and time as per the above schedule. The on-line bids will be opened on the scheduled date and time prescribed above. Bidders may be present during opening of tenders, if so desire. Off-line tenders shall not be accepted and no request in this regard will be entertained whatsoever. National Science Centre, Delhi reserves the right to accept or reject any or all tenders in full or in part without assigning any reason whatsoever.

CHECK LIST

Check list of Tender No. **NSCD/18011/E-Tender- 27/17-18** for Supply, Installation, Testing and Commissioning of IP IR based CCTV Surveillance System at Regional Science City, Aliganj Extension, Sector -E, (Ekta Vihar), Lucknow – 226024.

Sl. No.	Description	Yes	No
01.	Whether E-Tender uploaded in Two parts (i.e. Technical & Commercial) separately. Please note that one set of original signed bids must be delivered at NSC, Delhi before bid submission end.		
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 Tender Fee of ₹100.00 submitted by online / 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 last date of submission of the tender document.		
05	Whether Earnest Money of ₹15,500/- 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 last date of submission of the tender document.		
06	Whether Declaration regarding Non-relation, duly signed and stamped, and scanned copy of the same uploaded as Part – I of the Tender in central public procurement portal. Annexure D		
07	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		
08	Did you visit the actual site for execution of the work before submitting the Tender		

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**” for “**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.
5. Bid should be submitted along with the **Earnest Money of ₹15,500/- (Rupees Fifteen Thousand Five Hundred Only)** by way of crossed Demand Draft / Pay Order on any commercial Banks or payment online by NEFT/RTGS 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.
6. **Tender Fee** (Non-refundable) amounting to **₹100/- (Rupees One hundred only)** shall be deposited at NSC, Delhi by way of crossed Demand Draft / pay order on any of the commercial Banks or payment online by NEFT/RTGS in favour of ‘National Science Centre’ payable at Delhi. The parties paying the cost of Tender fee by Demand Draft are required to place the original Demand Draft / money transfer details in Part – I of the Tender. In case of non-receipt of Tender fee, the Tender is liable to be rejected.
7. **Validity of Bids:** The Bids should remain valid for 90 days from the date of bid opening.
8. **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.
9. 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.

10. The Financial Bid (BOQ) shall be filled in and signed by the authorized signatory online as per Proforma “**Annexure-F**” available at Central Public Procurement Portal e-tender system website <http://eprocure.gov.in/eprocure/app>. Off line Financial Bid shall not be accepted.
11. **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) **Technical (Techno-Commercial) BID duly filled-in and signed with official stamp. (as per Annexure-E format)**
- ii) **General Terms & Conditions (as detailed in Annexure-B) duly signed with official stamp as a token of acceptance**
- 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) **The ‘Declaration’ duly signed with official stamp (as detailed in Annexure-D-1 & D-2).**
- vi) **The ‘Technical Specification’ as detailed in Annexure-G duly signed with official stamp**
- vii) **Technical Brochures of each equipment with technical explanation for every feature of the product offered by the bidder.**
- viii) **Scanned copy of Demand Draft / details of online payment for ₹15,500/- as Earnest Money Deposit.**
- ix) **Scanned Copy of Demand Draft / details of online payment for ₹100/- towards Tender Fee.**

Set - 2

- i) **The Financial Bid (as per Annexure-F) 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.

12. Order shall be placed in favour of a single agency considering the total cost arrived based upon consolidated BOQ as per Annexure – F.
13. The authorities of National Science Centre, Delhi 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.

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TENDER No. : NSCD/18011/E-Tender-27/17-18

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 & Tender Fee 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.

- 6) The uploaded tender documents become readable only after the tender opening by the authorized bid openers.

- 7) 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.

- 8) 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.

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TENDER No. : NSCD/18011/E-Tender- 27/17-18

GENERAL TERMS & CONDITIONS (GTC) FOR SUBMISSION OF TENDER FOR SUPPLY, INSTALLATION, TESTING AND COMMISSIONING OF IP IR BASED CCTV SURVEILLANCE SYSTEM AT REGIONAL SCIENCE CITY, LUCKNOW.

1. Bidders should have necessary infrastructure and facilities so as to take up the job of supply of the tendered items strictly as per enclosed technical specifications, drawing and details of items/services required, with required financial capability. The Agency shall execute an agreement with the National Science Centre, Delhi on non-judicial stamp paper of appropriate value before commencement of the job.
2. **Price:**
The prices and rates indicated/quoted shall be inclusive of cost of supplies, charges on Installation, Testing Commissioning and providing Training to staff with all incidental charges for the set up at Regional Science City, Aliganj Extension, Sector -E, (Ekta Vihar), Lucknow – 226024. The rate of GST or any other taxes/levies to be imposed on the rate shall be clearly mentioned. Prices 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.
03. The successful bidders shall submit the following documents within 7 (Seven) days from the date of Placement of the order:-
 - i) Duplicate copy of Letter of Intent duly signed and stamped as a token of acceptance of the order.
 - ii) Non-judicial Stamp paper of appropriate value for preparing the Agreement governing the terms and conditions of the Contract.
 - iii) Security Deposit as detailed in clause No. 6 of General Terms & Conditions
4. **Time of Completion:** Time is the essence of this tender. The entire work viz. Supply, Installation, Testing, Commissioning of the System & providing Training to staff shall be completed in time bound manner. The entire work shall be completed within **45 (Forty Five) days** from the date of placement of Letter of Intent.

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 SITC 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 2% of the amount of the contract value for every week that the commissioning of the system 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. **Security Deposit :** The successful tenderer shall deposit 10% of the gross value of the work awarded, as refundable security deposit after adjusting the EMD already deposited with this tender, which is to be paid in the form of Bank Draft / Banker's cheque by the tenderer drawn in favour of "National Science Centre" and payable at Delhi. The Security Deposit of the successful tenderer shall be released after expiry of **Two (2) years defect liability** period (defect liability period shall be 24 (Twenty four) months from the date of final completion of the work/job. In case the total value of order exceeds the assessed value of the work order, security deposit of the excess amount will also be deducted. No interest shall be paid on the security deposit retained with National Science Centre, Delhi.

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.04 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. The decision of the Centre in this regard shall be final and binding on the successful bidder.

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. Decision of National Science Centre, Delhi in this regard shall be final and binding on the successful tenderer.

7. **Payment terms:-**

No advance payment shall be made by the Centre on any circumstances. However, interim payments may be released at the discretion of the Centre based on the following :

- i) Upto 50% payment may be released after supply of the entire equipment/materials at site.
- ii) Balance 50% (Final) payment may be released within 30 days from the date of receipt of Invoice/Bill duly supported by receipted challan and satisfactory inspection/work completion certificate from RSC, Lucknow / NSCD authority for the entire job.

Digital Payment (e-Payment) through RTGS/NEFT/TT/etc. shall be released. 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.

08. 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.

9. The materials to be supplied by the bidder shall conform to the technical specifications given by the Centre. Sub-standard quality of materials & workmanship will not be accepted.
10. The Centre shall not be liable for injury of any employee who are deployed by the bidder within/ outside the Centre premises at the time of execution of the order.
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. If the supplier do not arrange to replace the rejected materials within the stipulated time, the same may be disposed off 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 RSC, Lucknow.
12. In case the bidder refuse to accept the offer after finalization or does not comply with the Clause No.03 within 07 (Seven) days from the date of placement of the order as per the finalized and accepted terms & conditions and the order shall be cancelled forthwith.
13. 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.
14. 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.
15. The quantities specified in the tender may be decreased or increased at the sole discretion of NSCD authorities.
16. 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.
17. 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.

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TENDER No. : NSCD/18011/e-Tender- 27/17-18

DECLARATION

We do hereby accept the “General Terms & Conditions” as provided by the National Science Centre along with the Tender documents for Supply, Installation, Testing and Commissioning of IP IR based CCTV Surveillance system at Regional Science City, Lucknow and also under take to supply the said materials strictly as per the technical specifications/Drawing 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.

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DECLARATION

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) Back ground 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. :

:2:

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 :
Regional Science City, Lucknow.
11. Mention GST Registration Number and attach :
Current valid Tax Clearance Certificate.
12. Whether agreed to complete the tendered items as per
enclosed Specification (Annexure-G1 & II) positively
by 45 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 regarding selection of eligible firms for opening of Financial Bid (Part-II) shall be final and binding on me/us.

Date

Official Seal

**Signature of the Tenderer/
Constituent Attorney**

ESSENTIAL DETAILS OF ITEMS/SERVICES REQUIRED AND TECHNICAL SPECIFICATION

**For
Regional Science City, Lucknow**

1. Schedule of Requirements.

Sr.No.	Item	A/U	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) IP IR HD Dome Camera (indoor) with IP 66 Housing as per specification (Make - CP Plus, Hikvision, Zicom, Samsung, Panasonic and equivalent approved)	Nos.	17
	(ii) IP IR HD Bullet Camera (outdoor) with IP 66 weather Proof Housing as per Specification (Make - CP Plus, Hikvision, Zicom, Samsung, Panasonic and equivalent approved)	No.	13
	(iii) Supply, installation, testing and commissioning of 16 Channel HD Network Video Recorder as per Specification (Make - CP Plus, Hikvision, Zicom, Samsung, Panasonic and equivalent approved)	Nos.	2
	(iv) Supply, installation, testing and commissioning of Operator Workstation with two 32" LED monitor as per Specification (Make - Samsung , LG , Panasonic or equivalent approved)	Nos.	2
	(v) Supply, installation, testing and commissioning of 8 Port PoE Switch as per Specification (Make - Dlink , Netgear)	Nos.	3
	(vi) Supply, installation, testing and commissioning of 16 Port PoE Switch as per Specification (Make - Dlink , Netgear)	Nos.	1
	(vii) Supply, installation, testing and commissioning of 9U wall mounted Rack (Make - Rittal , Dlink)	No.	4
	(viii) 1 KVA Online Uninterrupted Power Backup System (Make: Microtek, APC, Luminous, SuKam or equivalent approved by NSCD)	Nos.	2
	(ix) 3 KVA Online Uninterrupted Power Backup System (Make: Microtek, APC, Luminous, SuKam or equivalent approved by NSCD)	No.	1
	(x) Cat6 UTP Patch Cable (Make: Dlink or equivalent approved)	Nos.	30
	(xi) Supply, Laying and termination of Cat 6 UTP Cable with RJ45 connectors (Make: Dlink or equivalent approved)	Mtrs.	6000
	(xii) Supply, Laying and termination of 25mm PVC Conduit, Channel, Flexible pipe & Cable Tray (ISI marked)	Mtrs.	3000

2. Scope of Work

- (a) Installation of 30 cameras at desired locations.
- (b) All cameras should have IP based IR night vision capability.
- (c) Centralise view of all cameras in Central Control Room.
- (d) Basic analytics like:-
 - (i) Tripwire detection and tempering of cameras to be provided in all cameras.
 - (ii) All cablings as per requirement and consideration of the buyer.
 - (iii) The scope of work installation, commissioning, testing and training to be provided.
 - (iv) Training manual in hardcopy to be provided with hardcopy of cable layout diagram site.
3. 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.
4. 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.
5. The contractor will liaison on behalf of RSCL, with other different OEMs for repairing of equipment(s) and all other accessories during warranty period.
6. At RSCL fault clearing should happen with 2 days and outside RSCL fault clearing should happen within 7 days of registration in all cases.
7. Repair status will be clear after user is satisfied with the repair.
8. 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 PC, RSCL 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.
9. All equipments/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.
10. The contractor will maintain "History Card" and documentation for each equipment 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 RSCL.
11. Contractor liable to hand-over the entire system under its warranty to the successor/RSCL in working condition, failure of which shall leads to forfeiture of Security Deposit.

ITEM INDEX FOR TECHNICAL SPECIFICATION

Technical Details.

Specification	Description	Deviation	
		Status	Remarks
IP IR DOME CAMERA – 17 Nos.			
Compression	H.264 and MJPEG		
Resolution	1280 x 960 at 25 FPS		
Protocols	TCP/IP,ICMP,HTTP,HTTPS,FTP,DHCP,DNS,DDNS,RTP,RTSP,RTCP,PPPoE,NTP,UPnP,SMTP,SNMP,IGMP,802.1X,QoS,IPv6,Bonjour		
Setup	Web server based remote camera video and network parameters setup		
Power	Should have Power over Ethernet (PoE) for Dome and Box Camera and AC24V/ DC12V support		
Image Sensor:	1/3" Progressive Scan CMOS		
Min. Illumination:	0.01 Lux @(F1.2,AGC ON), 0 Lux with IR		
Shutter time:	1/25s ~ 1/100,000s		
Lens:	4mm@ F2.0, Angle of view: 73.1°		
Lens Mount:	M12		
Day& Night:	IR cut filter with auto switch		
Wide Dynamic Range:	Digital WDR		
Angle Adjustment	Pan:0° - 355°, Tilt: 0° - 65°		
Digital noise reduction:	3D DNR		
Video Compression:	H.264/M-JPEG		
Bit Rate:	32 Kbps ~ 16 Mbps		
Audio Compression:	G.711/G.726		
Dual Stream:	Yes		
Max. Image Resolution:	1280 x 960		
Network Storage:	NAS		
Alarm Trigger:	Motion detection, Dynamic Analysis, Tampering alarm, Network disconnect, IP address conflict, Storage exception		
Protocols:	TCP/IP,ICMP,HTTP,HTTPS,FTP,DHCP,DNS,DDNS,RTP,RTSP,RT		
Security:	User authentication, watermark		
System Compatibility:	ONVIF, PSIA, CGI, ISAPI		
Communication Interface:	1 RJ45 10M / 100M Ethernet interface		
Image Settings	Rotate mode, Saturation, Brightness, Contrast adjustable by client software or web browser		

Backlight compensation	Yes, zone optional		
ROI	Yes, up to 4 configurable areas		
Ingress Protection level	IP66		
Impact Protection	IEC60068-2-75Eh, 20J; EN50102, up to IK10		
Reset Button	Yes		
WDR (For WDR cameras)	120db		
Operating Conditions:	-30 °C ~ 60 °C (-22 °F ~ 140 °F) Humidity 95% or less (non-condensing)		

Appendix 'G' (Contd)

IP IR BULLET CAMERA – 13 Nos.			
Compression	H.264 and MJPEG		
Resolution	1280 x 960 at 25 FPS		
Protocols	TCP/IP,ICMP,HTTP,HTTPS,FTP,DHCP,DNS,DDNS,RTP,RTSP,RTCP,PPPoE,NT P,UPnP,SMTP,SNMP,IGMP,802.1X,QoS,IPv6, Bonjour		
Setup	Web server based remote camera video and network parameters setup		
Power	Should have Power over Ethernet (PoE) for Dome and Box Camera and AC24V/ DC12V support		
Image Sensor:	1/3" Progressive Scan CMOS		
Min. Illumination:	0.01 Lux @(F1.2,AGC ON), 0 Lux with IR		
Shutter time:	1/25s ~ 1/100,000s		
Lens:	4mm@ F2.0, Angle of view: 73.1°		
Lens Mount:	M12		
Day& Night:	IR cut filter with auto switch		
Wide Dynamic Range:	Digital WDR		
Angle Adjustment	Pan:0° - 355°, Tilt: 0° - 65°		
Digital noise reduction:	3D DNR		
Video Compression:	H.264/M-JPEG		
Bit Rate:	32 Kbps ~ 16 Mbps		
Audio Compression:	G.711/G.726		
Dual Stream:	Yes		
Max. Image Resolution:	1280 x 960		
Network Storage:	NAS		
Alarm Trigger:	Motion detection, Dynamic Analysis, Tampering alarm, Network disconnect, IP address conflict, Storage exception		
Protocols:	TCP/IP,ICMP,HTTP,HTTPS,FTP,DHCP,DNS,DDNS,RTP,RTSP,RT		
Security:	User authentication, watermark		
System Compatibility:	ONVIF, PSIA, CGI, ISAPI		
Communication Interface	1 RJ45 10M / 100M Ethernet Interface		
Image Settings	Rotate mode, Saturation, Brightness, Contrast adjustable by client software or web browser		
Backlight compensation	Yes, zone optional		
ROI	Yes, up to 4 configurable areas		
Ingress Protection level	IP66		
Impact Protection	IEC60068-2-75Eh, 20J; EN50102, up to IK10		
Reset Button	Yes		
WDR (For WDR cameras)	120db		
Operating Conditions:	-30 °C ~ 60 °C (-22 °F ~ 140 °F) Humidity 95% or less (non-condensing)		

Appendix 'G' (Contd)

Specification	Description	Deviation	
		Status	Remarks
LED Display	Make: LG, Samsung, Panasonic, or equivalent approved – 2 Nos.		
	32" LED		
	1920 x 1080 resolution		
	2*2W Speaker		
	VGA, HDMI -2 Inputs		
	Wall Mount, Data and power Cable with supported connectors, Remote Controller and Batteries		

Appendix 'G' (Contd)

Specification	Description	Deviation	
		Status	Remarks
HD Network Video Recorder (NVR) – 2 No.			
IP Video Input:	16-ch		
Two-way Audio:	1-ch BNC(2.0Vp-p, 1k)		
VGA Output:	1-ch, resolution: 1920×1080P/60Hz,1600×1200/60Hz,1280×1024/60Hz, 1280×720/60Hz, 1024×768/60Hz		
CVBS Output:	1-ch, BNC (1.0 Vp-p, 75) Resolution: 704 × 576 (PAL); 704 × 480 (NTSC)q		
HDMI Output:	1-ch, resolution: 1920 × 1080P /60Hz, 1920 × 1080P /50Hz, 1600 × 1200 /60Hz, 1280 × 1024 /60Hz, 1280 × 720/60Hz, 1024 × 768 /60Hz		
Recording resolution:	5MP / 3MP / 1080P / UXGA / 720P / VGA / 4CIF / DCIF / 2CIF / CIF / QCIF		
Audio Output:	2-ch BNC(Linear electrical level, 600)		
Playback Resolution:	5MP /3MP / 1080P / UXGA / 720P / 4CIF / VGA / DCIF / 2CIF / CIF / QCIF		
Synchronous Playback:	16-ch		
Interface Type:	4 SATA interfaces for 2 HDDs + 1 DVD-R/W (default), or 4HDDs		
Capacity:	Up to 4TB capacity for each disk		
e-SATA Interface:	1 eSATA interface		
Network Interface:	1 RJ45 10M/100M/1000M adaptive Ethernet Interface		
USB Interface:	3 USB2.0 interfaces		
Serial Interface:	1 RJ45 RS-232 interface; 1 RS-485 interface; 1 RS-485 keyboard interface		
Alarm Input:	16-ch		
Alarm Output:	4-ch		
Working Temperature:	-10 °C ~ +55 °C		
	The alarms may be triggered by the following events: a. Motion (or lack of motion) in camera view b. Change in sound level c. Text data string d. Digital input signal from an external device e. Missing camera signal (resulting for example from sabotage) f. Custom event from 3rd party application.		

	<p>The alarm management shall support the following automatic responses:</p> <ol style="list-style-type: none"> a. Pre- and post-recording of video b. Opening an alarm camera window (real-time or playback) c. Displaying the alarm on the alarm list d. Activating a digital output e. Turning a dome camera to a pre-set position f. Starting a dome camera tour g. Sending an alarm e-mail message h. The alarm management shall be able to acknowledge alarm automatically or manually the following applications simultaneously without interfering with any of the Archive Server operations (Recording, Alarms,etc.) 		
	<ol style="list-style-type: none"> a. Live display of cameras and audio b. Live display of camera sequences c. Playback of video and audio d. Media search tools e. PTZ control f. Display and control of Maps g. Alarm management h. Digital I/O control 		
	<p>System shall support any form of IP network connectivity including: LAN, WAN, VPN, Internet and Wireless</p>		
	<p>System shall support IP Multicast (RTP) and Unicast (TCP or RTP) video and audio streaming as required depending on the network capabilities</p>		
	<p>The camera toolbar shall be displayed when the mouse is moved over a camera or if a camera is selected with other means. If the mouse is not moved for some time, the camera toolbar disappears automatically.</p> <p>The camera toolbar shall contain atleast the following items.</p> <ul style="list-style-type: none"> • Camera settings control • Export control • Image print control • Camera closing and duplication control • Two way audio control • View or virtual zoom control • highlight control • Image Control plugin control • 360 camera de-warping control (In case of 360 Cameras) • Other toolbar plugins 		

Appendix 'G' (Contd)

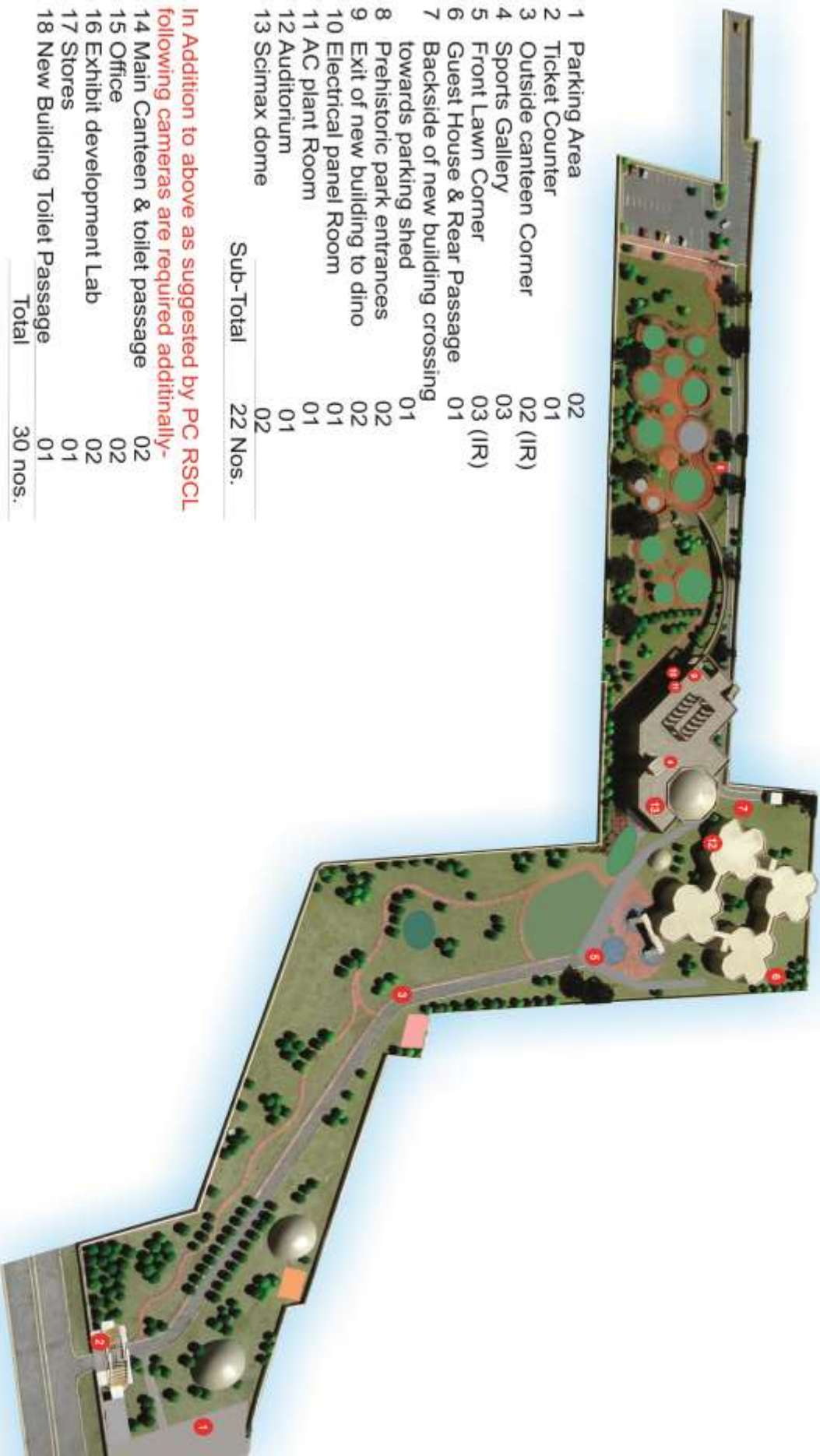
Specification	Description	Deviation	
		Status	Remarks
Layer 2 Switch (8 Port) – 3 Nos.			
Interfaces	8 x 10/100/1000 Mbps ports • 2 x SFP ports		
Port Standards	IEEE 802.3 10BASE-T Ethernet (twisted-pair copper) • IEEE 802.3u 100BASE-TX Fast Ethernet (twisted-pair copper) • IEEE 802.3ab 1000BASE-T Gigabit Ethernet (twisted-pair copper) • IEEE 802.3az compliance • Auto-negotiation • IEEE 802.3x Flow Control		
Network Cables	UTP Cat. 5, Cat. 5e, Cat 6 (100 m max.)		
Duplex Mode	Full/Half-duplex for 10/100 Mbps • Full-duplex for 1000 Mbps		
Media Interface Exchange	Auto MDI/MDIX adjustment for all twisted-pair ports		
Switching Capacity	20 Gbps		
Transmission Method	Store-and-forward		
MAC Address Table	16,000 entries per device		
Flash Memory	16 MB		
AC Input	100 to 240 VAC 50/60 Hz internal universal power supply		
Maximum Power Consumption	13.59 W		
Standby Power Consumption	100 V: 9.3 W • 240 V: 9.4 W		
Acoustics	0 dBA		
Heat Dissipation	46.37 Btu/hr		
Operating Temperature	• -5 to 50 °C (23 to 122 °F)		
Storage Temperature	• -20 to 70 °C (-4 to 158 °F)		
Operating Humidity	0% to 95% non-condensing		
Storage Humidity	0% to 95% non-condensing		

Appendix 'G' (Contd)

Specification	Description	Deviation	
		Status	Remarks
Layer 2 Switch (16 Port) – 1 No.			
Interfaces	16 x 10/100/1000 Mbps ports • 2 x SFP ports		
Port Standards	IEEE 802.3 10BASE-T Ethernet (twisted-pair copper) • IEEE 802.3u 100BASE-TX Fast Ethernet (twisted-pair copper) • IEEE 802.3ab 1000BASE-T Gigabit Ethernet (twisted-pair copper) • IEEE 802.3az compliance • Auto-negotiation • IEEE 802.3x Flow Control		
Network Cables	UTP Cat. 5, Cat. 5e, Cat 6 (100 m max.)		
Duplex Mode	Full/Half-duplex for 10/100 Mbps • Full-duplex for 1000 Mbps		
Media Interface Exchange	Auto MDI/MDIX adjustment for all twisted-pair ports		
Switching Capacity	20 Gbps		
Transmission Method	Store-and-forward		
MAC Address Table	16,000 entries per device		
Flash Memory	16 MB		
AC Input	100 to 240 VAC 50/60 Hz internal universal power supply		
Heat Dissipation	46.37 Btu/hr		
Operating Temperature	• -5 to 50 °C (23 to 122 °F)		
Storage Temperature	• -20 to 70 °C (-4 to 158 °F)		
Operating Humidity	0% to 95% non-condensing		
Storage Humidity	0% to 95% non-condensing		

Details of locations

List of Cameras to be installed at RSCL			
Sl.No.	Location	Camera Type	Qty
1	Parking	IP IR Bullet (Outdoor)	2
2	Ticket Counter	IP IR Dome (Inside)	1
3	Canteen Corner	IP IR Bullet (Outdoor)	2
4	Sports Gallery	IP IR Dome (Inside)	3
5	Front Lawn Corner	IP IR Bullet (Outdoor)	3
6	Guest house and rear passage	IP IR Bullet (Outdoor)	1
7	Backside of new building	IP IR Bullet (Outdoor)	1
8	Prehistoric park entrance	IP IR Bullet (Outdoor)	2
9	Exit of new building to Dino	IP IR Bullet (Outdoor)	2
10	Electrical Panel Room	IP IR Dome (Inside)	1
11	AC Plant Room	IP IR Dome (Inside)	1
12	Auditorium	IP IR Dome (Inside)	1
13	Scimax Dome	IP IR Dome (Inside)	2
14	Main Canteen & Toilet passage	IP IR Dome (Inside)	2
15	Office	IP IR Dome (Inside)	2
16	Exhibit Development Lab	IP IR Dome (Inside)	2
17	Stores	IP IR Dome (Inside)	1
18	New Building Toilet passage	IP IR Dome (Inside)	1
			30



- | | | |
|----|--|---------|
| 1 | Parking Area | 02 |
| 2 | Ticket Counter | 01 |
| 3 | Outside canteen Corner | 02 (IR) |
| 4 | Sports Gallery | 03 |
| 5 | Front Lawn Corner | 03 (IR) |
| 6 | Guest House & Rear Passage | 01 |
| 7 | Backside of new building crossing towards parking shed | 01 |
| 8 | Prehistoric park entrances | 02 |
| 9 | Exit of new building to dino | 02 |
| 10 | Electrical panel Room | 01 |
| 11 | AC plant Room | 01 |
| 12 | Auditorium | 01 |
| 13 | Scimax dome | 02 |

Sub-Total 22 Nos.

In Addition to above as suggested by PC RSCL following cameras are required additionally-

14	Main Canteen & toilet passage	02
15	Office	02
16	Exhibit development Lab	02
17	Stores	01
18	New Building Toilet Passage	01
Total		30 nos.

ANNEXURE-H

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