

E-TENDER
FOR
SUPPLY
OF
COMPUTER BASED EXHIBITS'
HARDWARE FOR THE SETUP &
INSTALLATION
FOR
VIRTUAL EXPERIENTIAL MUSEUM,
VARANSI



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

**NATIONAL SCIENCE CENTRE,
NEAR GATE NO. 2, PRAGATI MAIDAN,
BHAIRON MARG, NEW DELHI-110001**

TENDER No. NSCD/18011/E-Tender – 17/18-19

NOTICE INVITING E-TENDER

On-line Digitally signed E-Tenders are invited in two Bid System from Manufacturers / authorized dealers for **“Supply of Computer Based Exhibits’ Hardware for the Setup & Installation for the upcoming Virtual Experiential Museum, Varanasi (Uttar Pradesh)”**. 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	06 th July, 2018 (06:30 P.M)
Bid Document Download Start Date	06 th July, 2018 (06:30 P.M)
Bid Clarification Start Date	06 th July, 2018 (06:30 P.M)
Bid Submission Start Date	06 th July, 2018 (06:30 P.M)
Bid Clarification End Date	16 th July, 2018 (04:00 P.M)
Bid Submission End Date	17 th July, 2018 (02:00 P.M.)
Technical Bid Opening Date	18 th July, 2018 (03:00 P.M.)
Financial Bid Opening date	Shall be communicated later on
Earnest Money Deposit	₹40,000/-

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 p.m. on 18th July, 2018 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 - 17/18-19** for “Supply of Computer Based Exhibits’ Hardware for the Setup & Installation for the upcoming Virtual Experiential Museum, Varanasi (Uttar Pradesh)”.

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 ₹40,000/- 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 – I 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	Did you visit the actual site for execution of the supply order before submitting the Tender		
08	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**” 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 ₹40,000/- (Rupees Forty Thousand 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.
6. **Validity of Bids:** The Bids should remain valid for 90 days from the date of bid opening.
7. **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.
8. 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.
9. The Financial Bid (BOQ) shall be filled in and signed by the authorized signatory online as per Proforma “**Annexure-G**” available at Central Public Procurement Portal e-tender system website <http://eprocure.gov.in/eprocure/app>. Off line Financial Bid shall not be accepted.

10. **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-D)**
- 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-C).**
- vi) The ‘Technical Specification’ as detailed in Annexure-E 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 for ₹40,000/- as Earnest Money Deposit.**

Set - 2

- i) The Financial Bid (as per Annexure-G) 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.

- 11. Order shall be placed in favour of the bidder whose technical bid is acceptable and offered lowest rate in individual item(s) as per BOQ in Annexure – G.
- 12. 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.

NATIONAL SCIENCE CENTRE
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TENDER No. : NSCD/18011/E-Tender- 17/18-19

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 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.

NATIONAL SCIENCE CENTRE
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TENDER No. : NSCD/18011/E-Tender- 17/18-19

GENERAL TERMS & CONDITIONS (GTC) FOR SUBMISSION OF TENDER FOR SUPPLY OF COMPUTER BASED EXHIBITS' HARDWARE FOR THE SETUP & INSTALLATION FOR THE UPCOMING VIRTUAL EXPERIENTIAL MUSEUM, VARANASI (UTTAR PRADESH)

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 the **COMPUTER BASED EXHIBITS' HARDWARE** at **NATIONAL SCIENCE CENTRE, NEAR GATE No.1, PRAGATI MAIDAN, NEW DELHI - 110001**. 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 3 (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 **Ten (10) 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. WARRANTY:

Manufacturer's standard onsite warranty for the equipment as per **annexures** 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 equipment to be supplied by the bidder shall conform to the technical specifications given by the Centre.
10. 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.
11. 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 the Centre.
12. 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.
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- 17/18-19

DECLARATION-I

We do hereby accept the “General Terms & Conditions” as provided by the National Science Centre along with the Tender documents for Supply of Computer Based Exhibits’ Hardware for the Setup & Installation for the upcoming Virtual Experiential Museum, Varanasi (Uttar Pradesh) 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 10 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

Specifications of computer hardware of Varanasi, Uttar Pradesh**ANNEXURE –E1**

Item: SFF based Computer System (PC)
Quantity: 3 Nos.
Warranty: 3 years onsite
Make HP, Lenovo, Dell & equivalent approved

SYSTEM SPECIFICATIONS

Processor 7th generation Intel® Core™ i7 (3.60Ghz or more)
Operating System Genuine Windows(R) 10 Pro 64 bit (English)
Memory 8GB DDR4 SDRAM or more expendable upto 64GB
Hard Drive 256 GB SSD / 1000 GB or more
Sound Card Integrated HD audio supporting 5.1 HD Sound (Internal / external)
Communications Wireless (802.11a/g/n) WLAN Half-Height mini-Card
Ports
Front / Rear VGA/HDMI/DP, USB 2.0 / USB 3.0, DVI-D, Audio in, Audio out
Expansion Slots PCIe3.0 x 16 / PCIe 3.0x 1
(internal/external)
Keyboard & Mouse USB optical Keyboard & Mouse
Weight 4-6 litres

ANNEXURE –E2

Item: NUC
Quantity: 5 Nos.
Warranty: 3 years onsite
Make Intel, HP & equivalent approved

SYSTEM SPECIFICATIONS

Processor 7th generation Intel® Core™ i3 (2.1 GHz)
Operating System Genuine Windows(R) 10 Pro 64 bit (English)
Memory 8GB DDR3 SDRAM or more
Hard Drive 120 GB SSD or more
Sound Card Integrated HD audio
Communications Wireless (802.11 ac)
Ports
Front / Rear HDMI/DP, USB 2.0, USB 3.0, Audio in, Audio out
Keyboard & Mouse USB optical Keyboard & Mouse
Dimension (H x W) App. (17cm x 15cm)
Voltage Input 1.2 Volts

ANNEXURE –E3

Item: Macbook Air
Quantity: 2 Nos.
Warranty: 3 years onsite on System and Battery

SYSTEM SPECIFICATIONS

Processor	6th generation Dual Core Intel® i5 (1.6Ghz or more)
Operating System	Mac OS Sierra or Latest
Memory	8GB LPDDR3
Hard Drive	256 GB SSD or more
Communications	Ethernet Gigabit 1-0/100/1000, Wireless (802.11a/b/g/n)
Bluetooth	4.0 or higher
USB Port	USB 3.0 (2)
Thunderbolt port	1
Display Size	13”
Display Resolution	1440 x 900
Webcam	Available HD
Keyboard & Mouse	USB optical Keyboard & Mouse
Backlit Keyboard	Yes
Battery Type	Built-in (Li-ion / Li-Polymer)
Battery Backup	12 hours
ROHS Compliance	Yes

ANNEXURE –E4

Item: LED Monitor
Quantity: 2 Nos.
Warranty: 3 years onsite
Make Samsung, LG, Acer & equivalent approved

SPECIFICATIONS

Display Size	27 inch LED
Resolution	1920 x 1080 (FHD)
Number of Colors	16.7 M Color
Aspect Ratio	16:9
Response Time	4-5ms
Display Connectivity	HDMI / DP
Wall mounting	Yes

ANNEXURE –E5

Item: 40” – 43” 4K TV / Monitor
Quantity: 2 Nos.
Warranty: 1 years onsite
Make Samsung, LG, Panasonic & equivalent approved

SPECIFICATIONS

Display Size 40” – 43”
Screen Type LED
Resolution Ultra HD 4K (3840 x 2160)
Aspect Ratio 16:9
Display Connectivity HDMI (2 or more)
USB Connectivity Yes (2 or more)
Built-in WiFi Yes
Ethernet (RJ45) 1
Refresh Rate 100 Hz. or more
Sound Technology Dolby Digital Decoder, DTS Decoder
Number of Speakers 2
Speaker output RMS 20W
Power Requirement AC 100 – 240 V , 50/60 Hz.
Wall mounting Yes

ANNEXURE –E6

Item: 55” 4K TV / Monitor
Quantity: 4 Nos.
Warranty: 1 year onsite
Make Samsung, LG, Panasonic & equivalent approved

SPECIFICATIONS

Display Size 55”
Screen Type LED
Resolution Ultra HD 4K (3840 x 2160)
Aspect Ratio 16:9
Display Connectivity HDMI (2 or more)
USB Connectivity Yes (1 or more)
Built-in WiFi Yes
Ethernet (RJ45) 1
Refresh Rate 100 Hz. or more
Sound Technology Dolby Digital Decoder, DTS Decoder
Number of Speakers 2
Speaker output RMS 40W
Power Requirement AC 100 – 240 V , 50/60 Hz.
Wall mounting Yes

ANNEXURE –E7

Item: 65” 4K TV / Monitor
Quantity: 1 Nos.
Warranty: 1 years onsite
Make Samsung, LG, Panasonic & equivalent approved

SPECIFICATIONS

Display Size	65”
Screen Type	LED
Resolution	Ultra HD 4K (3840 x 2160)
Aspect Ratio	16:9
Display Connectivity	HDMI (2 or more)
USB Connectivity	Yes (2 or more)
Built-in WiFi	Yes
Ethernet (RJ45)	1
Refresh Rate	100 Hz. or more
Sound Technology	Dolby Digital Decoder, DTS Decoder
Number of Speakers	2
Speaker output RMS	40W
Sub-Woofer	1
Power Requirement	AC 100 – 240 V , 50/60 Hz.
Wall mounting	Yes

ANNEXURE –E8

Item: Nvidia Quadro graphic card for SFF machine
Quantity: 2 Nos.
Warranty: 1 year onsite
Make Leadtek, PNY & equivalent approved

SPECIFICATIONS

GPU Memory	4 GB GDDR5
Memory Interface	128-bit
Memory Bandwidth	Up to 82 GB/s
NVIDIA CUDA® Cores	640
System Interface	PCI Express 3.0 x16
Max Power Consumption	47 W
Thermal Solution	Active
Form Factor	2.713” H x 5.7” L, Single Slot, Low Profile
Display Connectors	4x mDP 1.4(miniDP)
Max Simultaneous Displays	4 direct, 4 DP 1.4 Multi-Stream
Display Resolution	4x 4096x2160 @ 60Hz 4x 5120x2880 @ 60Hz

ANNEXURE –E9

Item: 4K Ultra HD video & RightLight 3 with HDR Webcam
Quantity: 2 Nos.
Warranty: 1 years onsite
Make Logitech & equivalent approved

SPECIFICATIONS

Video Capture Quality	4K Ultra HD video calling (up to 4096 x 2160 pixels @ 30 fps) 1080p Full HD video calling (up to 1920x1080 pixels @ 30 or 60 fps) 720p HD video calling (up to 1280 x 720 pixels @ 30, 60, or 90 fps)
USB connectivity	Plug-and-play USB connectivity
FOV	90-degree field of view (FOV) with two additional settings (65 and 78 degrees) available with optional software download
Zoom	5x digital zoom in Full HD
Focus	Autofocus
Technology	RightLight™ 3 with HDR for clear image in various lighting environments ranging from low light to direct sunlight
Mic	Built-in dual omni-directional mics with noise cancellation
Mounting	Multiple mounting options, including clip and tripod mount
USB Support	Supports multiple connection types, including USB 2.0 Type A and USB 3.0 Type A and C connections

ANNEXURE –E10

Item: Wireless Keyboard Mouse Combo
Quantity: 4 Nos.
Warranty: 3 years onsite
Make Logitech, HP. Dell & equivalent approved

SPECIFICATIONS

Keyboard	wireless Keyboard
Mouse Type	Wireless Mouse
Receiver	USB receiver
Battery Type	AAA or AA bateries

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