



संस्कृति मंत्रालय  
भारत सरकार  
Ministry of Culture  
Government of India



नेहरु विज्ञान केन्द्र  
राष्ट्रीय विज्ञान संग्रहालय परिषद् की इकाई  
संस्कृति मंत्रालय, भारत सरकार

**NEHRU SCIENCE CENTRE**  
A Unit of National Council of Science Museums  
Ministry of Culture, Government of India  
Dr. E. Moses Road, Worli, MUMBAI-400018

**TENDER DOCUMENTS**  
FOR

**Supply, Installation, Testing and Commissioning of  
Ceiling Mounted 4-way DX Cassette Air Conditioning Units in  
'Hall of Space Exploration Gallery'**

**AT**

**REGIONAL SCIENCE CENTRE,  
BANGANGA ROAD, SHYMLA HILLS,  
BHOPAL-462002  
MADHYA PRADESH**

(Tender ID: NSCM/18012/303/2025)

## **Message No 1**

इस बोली के संदर्भ में कोई भी पत्राचार, बोलीदाता केवल आधिकारिक ई-मेल / सीपीपीपी पोर्टल/ एनसीएसएम वेबसाइट पर किए गए संचार / सूचना का ही संज्ञान लेगा। किसी अन्य स्रोत से प्राप्त संचार के अन्य साधनों/एसएमएस संदेशों पर कोई पुनरावृत्ति नहीं, कोई संज्ञान नहीं लिया जाएगा।

## **Message No 1**

Any correspondence with reference to this bid, bidder will only take cognizance to communication/information made in official e-mail/ CPPP portal/NCSM website. **No repeat No cognizance** may be taken to other means of communication/ SMS messages from any other sources.

## Message No 2

### जनहित में स्पष्टीकरण

राष्ट्रीय विज्ञान संग्रहालय परिषद (एन.सी.एस.एम. की) : निविदा प्रक्रिया

यह हमारे ध्यान में लाया गया है कि कुछ अनैतिक (बेईमान) तत्व "एनसीएसएम" / "कार्यकारी प्रशासक, एनसीएसएम" के होने का दावा करते हुए झूठे एसएमएस/व्हाट्सएप भेज रहे हैं। एसएमएस/ व्हाट्सएप पर एनएससीएम/सीआरटीएल की विभिन्न परियोजनाओं के लिए विभिन्न सामग्रियों/सेवाओं की खरीद के लिए अनिवार्य बोली शुल्क/प्रभार आदि के रूप में एक निश्चित राशि जमा करने के लिए कहा जाता है। एसएमएस/व्हाट्सएप को गलत तरीके से "एनसीएसएम"/"कार्यकारी प्रशासक, एनसीएसएम" का बताया जाता है।

एनसीएसएम ने ऐसा कोई एसएमएस/व्हाट्सएप नहीं भेजा है। कृपया ध्यान दें कि एनसीएसएम, अपनी नीति के अनुसार, बोली सुरक्षा जमा (ईएमडी) के अलावा कोई अन्य धनराशि नहीं मांगता है। ऑनलाइन निविदा जमा करते समय आवेदन शुल्क भुगतान गेटवे के माध्यम से या ऑफलाइन मोड पर निविदा शुल्क जमा करते समय डिमांड ड्राफ्ट के माध्यम से जमा किया जाना चाहिए।

इन संचारों में एनसीएसएम का निविदा आईडी या डोमेन नाम होता है। राष्ट्रीय विज्ञान संग्रहालय परिषद (एनसीएसएम) को प्रामाणिक बनाने के लिए एनसीएसएम इस मुद्दे से निपटने के लिए उचित कदम उठा रहा है।

एक जागरूक आपूर्तिकर्ता/निविदादाता/फर्म के रूप में, कृपया धोखाधड़ी वाले एसएमएस/व्हाट्सएप की पहचान करने के लिए निम्नलिखित बिंदुओं पर ध्यान दें :

- एनसीएसएम खरीद प्रक्रिया के किसी भी चरण में आपूर्तिकर्ता/निविदादाता/फर्म से लागू बोली सुरक्षा जमा (ईएमडी) के अलावा कोई धनराशि नहीं मांगता है, जिसका भुगतान एनसीएसएम के भुगतान गेटवे के माध्यम से ऑनलाइन या ऑफलाइन मोड पर बोली सुरक्षा जमा करते समय डिमांड ड्राफ्ट के माध्यम से किया जाना है।
- धोखाधड़ी वाले एसएमएस/व्हाट्सएप में किसी व्यक्ति का बैंक खाता नंबर का उल्लेख हो सकता है। धोखाधड़ी वाले एसएमएस/व्हाट्सएप में दिए गए नंबर पर कॉल करने पर खाते का विवरण दिया जाएगा। किसी भी स्थिति में बैंक खाता "एनसीएसएम" के नाम पर नहीं होगा।

हम विक्रेता/निविदादाता /फर्म को सलाह देते हैं कि वे किसी भी धोखाधड़ी वाले एसएमएस/ व्हाट्सएप/टेलीफोन कॉल का जवाब न दें और किसी भी व्यक्ति को कोई भुगतान न करें।

किसी भी संदेह की स्थिति में कृपया एनसीएसएम के दूरभाष सं. 022 31059028 पर संपर्क करें।

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**नेहरु विज्ञान केन्द्र / NEHRU SCIENCE CENTRE**

राष्ट्रीय विज्ञान संग्रहालय परिषद् की इकाई /

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डॉ. ई. मोसेस मार्ग, वर्ली, मुंबई / Dr. E. Moses Road, Worli, Mumbai-400 018

Tel. No.022 31059028, E-Mail: spo@nehrusciencecentre.gov.in

**LIST OF DOCUMENTS**

Sl.No.	Annexure	Details
1	Annexure-A	Instruction for Online Bid Submission
2	Annexure-B	General Terms & Conditions
3	Annexure-C	Declarations
4	Annexure-D	Technical (Techno-commercial) Bid & Checklist of Document Submitted
5	Annexure-E	Technical Specification and Scope of Work
6	Annexure-F	Deviation Statement Sheet (if any) duly signed and sealed
7	Annexure-G	The Financial Bid format to be uploaded in CPP Portal (Rate Quote Sheet – BoQ.xls)



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राष्ट्रीय विज्ञान संग्रहालय परिषद् की इकाई /

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Tel. No.022 31059028, E-Mail: [spo@nehrusciencecentre.gov.in](mailto:spo@nehrusciencecentre.gov.in)

### NOTICE INVITING E-TENDER

TENDER NO.NSCM/18012/303/2025

Online digitally signed e-Tenders are invited for **Supply, Installation, Testing and Commissioning of Ceiling Mounted 4-way DX Cassette Air Conditioning Units** in 'Hall of Space Exploration Gallery' at **Regional Science Centre, Banganga Road, Shymla Hills, Bhopal-462002, Madhya Pradesh** strictly as per the Technical Specifications and Terms & Conditions enclosed herewith. Bidders who have the necessary infrastructure and financial 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> as per the following schedule:-

Bid document Publishing Date	10.02.2026, 15.00 hrs
Bid document download Start Date	10.02.2026, 15.30 hrs
Bid document download End Date	21.02.2026, 17.30 hrs
Bid submission start date	10.02.2026, 15.30 hrs
Bid submission end date	21.02.2026, 18.00 hrs
Period of completion of work	30 days
EMD	₹43,100/-
Technical (Techno-Commercial) Bid opening date	23.02.2026 11.00 hrs

The online Bid both Technical (Techno-Commercial) Bid and Financial Bid duly furnished in Cover-I and Cover-II respectively should be uploaded by the due date and time as per the above schedule. The responsibility to ensure this lies with the Bidder. Off-line Tender shall not be accepted and no request in this regard will be entertained whatsoever. Online Technical (Techno-Commercial) Bids will be opened at the first instance in this Office at **11.00 hrs. on 23.02.2026** for Technical Evaluation as well as selection of Techno-Commercially acceptable offers and at the second stage, the Financial Bids of only the selected and Techno-Commercially offers will be opened at a date to be notified in the Portal later. The decision of Nehru Science Centre, Mumbai (NSCM) regarding selection of eligible and qualified Bidders / firms for opening the Financial Bids shall be final and binding on the Bidders. Bidders may be present during opening of Tenders, if required.

Nehru Science Centre, Mumbai, reserves the right to accept or reject any or all Tenders in full or part without assigning any reason whatsoever. NSCM shall also not be bound to accept merely the lowest Tender but the Technical & Financial capability and proven infrastructure to execute the work within the scheduled time frame etc., shall be of prime consideration for selection of the Bidder.



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Tel. No.022 31059028, E-Mail: spo@nehru-sciencecentre.gov.in

### **GENERAL INFORMATION AND INSTRUCTIONS**

1. The instructions and specifications given herein will be strictly binding on the Tenderers and deviation, if any, makes 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 at CPPP website: <http://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. Validity of Bids: The Bids should remain valid for acceptance for **90 days** from the date of 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 online e-Tender.
8. 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>. Offline Financial Bid shall not be accepted.
9. **Tender must be uploaded online by the Bidder in two separate covers marked Cover-I and Cover-II. The contents of Cover-I and Cover-II will be as follows:**

#### **Cover-I (Technical)**

- i) Scanned copy of Demand Draft / Pay Order for **₹43,100/-** drawn in favour of **NEHRU SCIENCE CENTRE** payable at **MUMBAI** towards Earnest Money Deposit. Original must be sent to Nehru Science Centre, Dr. E. Moses Road, Worli, Mumbai-400018 by speed post / courier / by-hand so as to reach the same before the stipulated due date of opening of Technical Bid.

EMD can also be deposited by electronic fund transfer mode through RTGS/NEFT to the Bank account of Nehru Science Centre, Mumbai, details of which are as follows:

Name of the Account Holder	NEHRU SCIENCE CENTRE
Account No.	0113101027501
IFSC Code	CNRB0000113
Bank Name	CANARA BANK
Branch	Worli Branch
MICR CODE	400015069

In case of RTGS/ NEFT, the receipt of transaction to be uploaded.

OR

Scanned copies of valid and updated certificates issued by NSIC under Single Point Registration Scheme (SPRS) and MSME Registration certificate in .PDF format should be uploaded for considering the waiver of EMD submission. In addition, the bidders registered under Department of Micro, Small and Medium Enterprises (MSME) and/or eligible for exemption from submitting Bid Security / Earnest Money Deposit for similar services shall be required to submit Bid Security declaration as per Annexure-C of the e-NIT.

- ii) Scanned copy of **General Terms & Conditions** as detailed in **Annexure-B** duly signed with official stamp as a token of acceptance of the Terms & Conditions.
- iii) The **Declarations** of the Bidder as detailed in **Annexure-C** duly signed by the authorized signatory with official stamp.
- iv) **Technical (Techno-commercial) Bid** and **Check-List** as per **Annexure-D** format duly filled in, stamped and signed by the authorized signatory.
- v) Technical Specifications as per **Annexure-E** duly signed with official stamp as a token of acceptance for execution of the Tendered job.
- vi) Deviation Statement Sheet as per **Annexure-F** duly signed and sealed.
- vii) Rate Quote Sheet as per **Annexure-G** duly signed and stamp.
- viii) Scanned copy of the current and valid GST Certificate, Trade License, Authorised Dealership Certificate from Manufacturer (if the Bidder is a dealer) duly self-attested with official stamp.
- ix) Scanned copies of detailed work order in support of similar works executed with Central / State Government Departments, PSUs, Autonomous Bodies, Reputed Private Sector (BSE/NSE Listed) during the last 3 years.

The Technical Bids and other documents i.e. 'Cover-I' will be downloaded and evaluated at the first stage to select the techno-commercially capable and competent bidders. At the second stage, Financial / Price Bids i.e. 'Cover-II' of only the Techno-Commercially acceptable offers will be downloaded and evaluated for further ranking before awarding the contract. After opening of 'Cover-I', if all the bids are found Techno-Commercially unacceptable, the Financial (Price Bid) Bids i.e. 'Cover-II' submitted by the bidders against this Tender shall not be opened/downloaded for obvious reasons.

### **Cover-II (Financial)**

- (i) The Financial Bid (**as per given .xls format**) i.e. Rate Quote Sheet in the form of attached BoQ Proforma duly filled-in, digitally signed and uploaded online by the Bidder.
  - (ii) The authorities of Nehru Science Centre, Mumbai, 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 any reason whatsoever.
10. It may be noted that the Technical Bid Envelope which are not found in order as per requirements may be summarily rejected.
  11. Earnest Money Deposit is liable to be forfeited if the successful e-tenderer/bidder selected for the work fails to sign the formal agreement within 07 days from the date of issue of Letter of Intent to them by the Museum/Centre.

12. The selected tenderer will be issued a Letter of Intent/Work Order by the Museum/Centre and given 07 days mobilization time which shall be counted from the date of issue of the Letter of Intent/Work Order. Within the mobilization time the tenderer must scrutinize all the requirements, time of completion, specifications, etc. and obtain clarifications from the Competent Authority. During the mobilization time, the tenderer shall also mobilize all their resources including men and materials, obtain the supply of necessary required items for installation / construction, erect temporary storage facility at site if necessary and sign an Agreement with Museum/Centre in approved format on a non-judicial stamp paper of proper denomination. The date of commencement of work shall be the date of issue of Letter of Intent/Work Order.

**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, Mumbai against submission of supporting documentary evidence.



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डॉ. ई. मोसेस मार्ग, वर्ली, मुंबई / Dr. E. Moses Road, Worli, Mumbai-400 018

Tel. No.022 31059028, E-Mail: spo@nehrusciencecentre.gov.in

### 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 have to select the payment option as "offline" to pay the requisite Earnest Money Deposit (EMD) and enter detail of the instrument.
- 4) Bidders should submit the EMD or Exemption Document 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 DD/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.

- 5) A standard Price Schedule format (BOQ) has been provided with the tender document. Bidders are requested to note that they should necessarily submit their financial bids in the rate quote sheet format provided (.xls) and upload it in the cpp portal. 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. In case no rate value is required to be quoted in any particular cell, that cell may be kept blank, figure "0" (zero) shall not be entered in such cell(s). Bidders are required to download the BOQ file in .xls format, open it and quote the Rate and fill 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 file name. If the BOQ file is found to be modified by the bidder, the bid will be rejected.
- 6) 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.
- 7) 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. Overall, the uploaded tender documents become readable only after the tender opening by the authorized bid openers.
- 8) The uploaded tender documents become readable only after the tender opening by the authorized bid openers.
- 9) 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.
- 10) 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 3070 2232.

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## नेहरु विज्ञान केन्द्र / NEHRU SCIENCE CENTRE

राष्ट्रीय विज्ञान संग्रहालय परिषद् की इकाई /

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Tel. No.022 31059028, E-Mail: spo@nehrusciencecentre.gov.in

TENDER No: NSCM/18012/303/2025

### GENERAL TERMS AND CONDITIONS FOR SUPPLY, INSTALLATION, TESTING AND COMMISSIONING (SITC) OF CEILING MOUNTED 4-WAY DX CASSETTE AIR CONDITIONING UNITS IN 'HALL OF SPACE EXPLORATION GALLERY' AT REGIONAL SCIENCE CENTRE (RSC), BHOPAL

Bidders should have necessary infrastructure and facilities so as to take-up the job of SITC of tendered items strictly as per enclosed specifications with required financial capability at Regional Science Centre, Bhopal

#### 1. Price:

The price and rates quoted/indicated in the enclosed 'BoQ (Offer Form)' shall include cost of all materials, labour for supply, installation, commissioning, testing, painting, finishing, scaffolding, labour supervision, transportation etc. and all working accessories, tools and tackles, reliable standard testing equipment etc. and all incidental charges, import/shipping charges, custom clearance charges etc. to supply and install and other allied works mentioned in the Technical Specifications towards execution of works in 'Hall of Space Exploration Gallery' of Regional Science Centre (RSC), Bhopal. Considering the sophisticated nature of the AC Units, suitable lifting arrangement shall be made for safe lifting of machine to the installation site. Hence rate may be quoted accordingly. Price quoted in the breakup sheet shall be firm and fixed for the entire period of execution of the work order and no escalation of rate on any ground whatsoever shall be applicable. *The total amount in the Breakup Sheet should be entered in Column No.7 and applicable rate of GST in Column No.8 of the Financial BoQ (in .xls format). The total amount with Taxes in the Financial BoQ (in .xls format) should mandatorily match with the total amount with Taxes in the Break up sheet.*

#### 2. WARRANTY: The Complete AC unit along with Compressor shall have standard Warranty as per OEM.

#### 3. The successful tenderer shall submit the following documents within 7 (seven) days from the date of placement of the Work Order:

- Duplicate copy of the Work Order duly signed and stamped as a token of acceptance of the Order.
- Security Deposit as detailed in Clause No. 7.
- A non-judicial stamp paper of appropriate value for preparation of Agreement (as per enclosed format). An agreement will be prepared as per enclosed format between the Successful Tenderer and Nehru Science Centre, Mumbai.

#### 4. Time of Completion:

Time is the essence of the Tender. The entire work viz. Supply, Installation, Testing & Commissioning of the Ceiling Mounted 4-way DX Cassette Air Conditioning Units as per enclosed Technical Specifications, shall be completed at Regional Science Centre, Bhopal within **30 days** from the date of placement of 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 period, Nehru Science Centre, Mumbai (NSC Mumbai) shall either cancel the order or impose Penalty as detailed in Clause No.5. Decision of NSC, Mumbai in this regard shall be final and binding on the Successful Tenderers.

**5. Penalty Clause:**

The Successful Tenderer shall strictly observe the time allowed for carrying out the works as detailed in Clause No.4. The work shall, throughout the stipulated period of the contract, be proceeded with all the diligence (time being deemed to be the essence of the contract). If the Successful Tenderer fails to complete the work in the stipulated time, the Successful Tenderers shall pay to NSC, Mumbai an amount corresponding to @1% of the Total Contract Value or Actual Value of Work done, whichever is greater, for every week that the work may remain incomplete as per delivery schedule/completion time as stipulated in Clause No.4 subject to a maximum compensation of @10% of the Total Contract Value or Actual Value of Work done, whichever is greater, and after such period, appropriate action will be taken by NSC, Mumbai as it may deem fit.

NSC, Mumbai may extend the completion time/time of delivery of the tendered job at their discretion on the application of the Successful Tenderer for such purpose provided that NSC, Mumbai considers the reasons for such extension as good, sufficient and acceptable. Decision of NSC, Mumbai in this regard shall be final and binding on the Successful Tenderers.

**6. Refund of EMD**

- (i) EMD of successful Bidder shall be discharged (without any interest) on or before the 30<sup>th</sup> day after award of work to the successful Bidder and signing of contract, whichever is later, after receipt and acceptance of the Security Deposit/Retention Money in the valid format.
- (ii) EMD of unsuccessful Tenderers/Bidders shall be discharged (without any interest) on or before the 30<sup>th</sup> day of opening of Financial Bids.

**7. Security Deposit (SD):**

Total Security Deposit shall be @10% of the total value of the order and shall be paid in the form of Demand Draft / Banker's Cheque / Pay Order / Bank Guarantee / FDR by the Successful Tenderer to NSC, Mumbai. If the Successful Tenderer fails to deposit the same at a time before taking up the job, deduction @ 10% shall be made from every bill duly supported by receipted challan & satisfactory inspection / work completion certificate from Competent Authority of RSC, Bhopal and the said amount shall be retained by NSC, Mumbai as Security Deposit. The Security Deposit shall be released after expiry of the Defect Liability Period (Defect Liability Period shall be 12 (twelve) months from the date of final completion of work). In case the total value of the order exceeds the assessed value of the work order, Security Deposit for the excess amount will also be deducted in the similar manner. No interest shall be paid on the Security Deposit retained with NSC, Mumbai.

**8. Inspection:**

The Successful Tenderer shall arrange for inspection of the job by the competent authorities of RSC, Bhopal at every stage of work execution. Inspection may also be made at any point of time during the process of Installation & Commissioning work, if felt by the Competent Authority of RSC, Bhopal. Any defect like poor workmanship, unprofessional approach towards installation pointed out during such inspections has to be promptly rectified to ensure desired quality of work. It would be mandatory on the part of the Successful Tenderer to arrange inspection and obtain approval at every stage of the work, failing which action shall be taken as will deem fit by NSC, Mumbai. The decision of NSC, Mumbai in this regard shall be final and binding on the Successful Tenderer.

**9. Terms of payment**

No advance payment shall be made to the contractor by NSC, Mumbai. However, Interim Payment will be considered depending upon overall progress of work i.e. Supply, Installation, Testing & Commissioning and based on the discretion of the Competent

Authority. The final payment shall be released after satisfactory completion of the entire job and within **30 (thirty) days** from the date of receipt of GST Invoice/Bill duly mentioning the Bank details and GST number and supported by receipted challan and satisfactory inspection/Work Completion Certificate issued by the Competent Authority of RSC, Bhopal.

**10. Defect Liability Period:**

The defect liability period shall be 12 (twelve) months from the date of final completion of work and acceptance by the authorities of RSC, Bhopal. The Successful Bidder shall be responsible for all defects including the operation & performance of the Air Conditioning Units for a period of 12 (twelve) months from the date of final completion of work. The Successful Bidder shall rectify the defects/defective parts within the specified time up to the complete satisfaction of the competent authority of RSC, Bhopal or otherwise NSC, Mumbai shall have the right to rectify the defect at the Successful Bidder's own risk but in that case, the requisite cost will be adjusted from the Security Deposit of the Successful Bidder/Contractor retained with NSC, Mumbai. Decision of the NSC, Mumbai in this regard shall be final and binding on the Successful Bidder.

11. If it is noticed that the goods supplied do not conform to the specification of the order, the NSC Mumbai shall have the right to reject the materials in part or full. The Successful Tenderer/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 does 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 NSC Mumbai will deem fit. The NSC Mumbai 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 NSC Mumbai shall also be entitled to recover the expenses made by them on account of storage and handling of such rejected goods till the goods are removed from the premises of the RSC, Bhopal.
12. The authorities of NSC Mumbai 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 any reason whatsoever.
13. The supply done by the Successful Bidder / Supplier shall conform to the specifications given by the NSC Mumbai. Substandard quality of materials & Workmanship will not be accepted. Bad workmanship/materials will not be accepted and if carried out is liable to be rejected and shall be rectified / replaced by the Supplier at his own cost & risk as per specifications and directions given by the authorised representative of the RSC, Bhopal. The decision of NSC, Mumbai as to items of bad workmanship and proper replacement/rectification will be final and binding on the successful Tenderers.
14. In case, the Successful Bidder refuses to accept the offer after finalization or does not comply with the Clause No.3 within 07 (seven) days from the date of placement of the order as per the finalized and accepted Terms & Conditions, the order shall be cancelled forthwith and the EMD will be forfeited without any further reference.
15. Every effort should be made to complete the work by the Successful Bidder within the specified time schedule. In case the firm fails to comply with Clause No.4 i.e., the specified time schedule as per the finalized and accepted Terms and Conditions, NSC, Mumbai shall have the right to either impose Penalty Clause or cancel the order. The decision of NSC, Mumbai in this regard shall be final and binding on the Successful Tenderer.
16. Technical Specifications of the tendered job are enclosed for guidance. However, if any ambiguity in the Technical Specifications is detected, it shall be promptly brought to the notice of NSC, Mumbai for clarifications. The Successful Bidder without written approval/permission of NSC, Mumbai shall make no deviation from the approved Technical Specifications.
17. NSC, Mumbai shall not be liable for injury partial or full disability or death of any employee

who is deployed by the successful tenderer within/outside the work-site during the time of execution of the work order.

18. The successful Bidder shall submit necessary trade and other licenses as may be required to carry out the tendered job at **Regional Science Centre, Banganga Road, Shymla Hills, Bhopal-462002, Madhya Pradesh** and shall also be responsible for compliance of all rules and regulations, which may be in force from time to time by the appropriate authority at his/her own cost and shall keep NSC, Mumbai indemnified from all his/their acts/or omissions.
19. The Successful Bidder shall not under any circumstance whatsoever transfer wholly or partially the contract/agreement/work order to any other person(s)/firm/company or assign the agreement or benefits of this agreement to any other party for any reason whatsoever. Otherwise this agreement will automatically stand cancelled.
20. The Successful Bidder shall furnish a copy of the license that they obtained from the competent authority for carrying out the contract work.
21. The Successful Bidder shall be liable to pay minimum wages etc., as prescribed by the Competent Authority for the personnel to be deployed by them for the work, and shall keep proper records of all such payments so that the same can be produced for inspection any time on demand by any officer duly authorized by the NSC, Mumbai. If at any time it is found that minimum wages are not paid to the workers deployed by the Successful Bidder they will be directed by NSC, Mumbai to pay the lawful wages and such directions shall be binding on the Successful Bidder. In the event of failure on the part of the Successful Bidder to comply with such direction, the contract may be terminated/cancelled without any compensation. Alternatively, NSC, Mumbai may pay to the labourers the difference and deduct the same with penalty from the Successful Bidder's bill.
22. The authorities of NSC, Mumbai reserves the right to amend, alter or modify the Terms & Conditions mentioned above, if necessary, from time to time.
23. All the debris arising out of the work shall be removed by the Successful Bidder on daily basis and shall arrange to clean the working area properly.
24. The raw materials supplied by the Successful Bidder shall conform to the Technical Specification given by NSC, Mumbai. Sub-standard quality of materials as well as workmanship will not be accepted.
25. Income Tax shall be deducted at source, if applicable, from each bill/claim of the firm as per prevailing Government rules.

**26. Termination of Contract:**

If the Successful Bidder suspends the work without obtaining extension of time or in the opinion of the Authority of NSC Mumbai neglects or fails to proceed with due diligence in executing part of this contract or if he makes default in due performance of the contract as per the Technical Specification and Scope of Work or defaults in complying with any of the Terms & Conditions of the contract, the Competent Authority of NSC Mumbai shall have power to terminate the contract by giving a Notice in writing to the Successful Bidder specifying the act of default on the part of the Successful Bidder. After such Notice has been given, the Successful Bidder shall not be at liberty to remove from the site of work any plant or materials belonging to him which had been placed thereon for the purpose of the work and the NSC Mumbai shall have a lien upon all such plants and materials to subsist from the date of such Notice being given until the Notice has been complied with. In case of Termination of the contract, the Security Deposit whether paid in one sum or deducted by instalments shall stand forfeited and be absolutely at the disposal of the NSC Mumbai. The Successful Bidder shall have no claim or compensation for any loss sustained by him by reasons for his having purchased or procured any materials or entry into any engagements or made advances on account of or with a view to the execution of the work for the performance of the Contract. The Successful Bidder shall be entitled to be paid the value of

work actually performed under the contract and so certified by the authority of NSC Mumbai.

**27. Force Majeure:**

Neither the Successful Bidder nor NSC Mumbai shall be considered in default in performance of its obligations under the terms of this NIT, if such performance is prevented or delayed for any causes beyond the reasonable control of the party affected such as war, hostilities, revolution, riots, civil commotions, strikes, lockouts, epidemic, explosion, flood, earthquake or because of any law and other proclamation, regulations or ordinance of any government or sub-division thereof or because of any act of God or any other cause beyond the control of the concerned party which could not have been foreseen or avoided by the exercise of due diligence and so it becomes impossible to perform, provided notices in writing of any such cases, with necessary evidence that the obligation under this tender thereby affected or prevented or delayed is hereby given within 14 days from the happening of the event in case it is not possible to serve the notice within the said 14 days period, then within the shortest possible period without delay. As soon as the cause of Force Majeure has been removed, the party whose liability to perform its obligation has been affected shall notify the other party the actual delay occurred in such affected activity and resume the performance immediately.

The Successful Bidder shall not transfer wholly or partially the work to any other person(s) / firm / company for any reason whatsoever and in which case the order shall automatically stand cancelled.

28. All disputes and differences between the Successful Bidder and NSC, Mumbai of any kind, except quality of workmanship and materials, whatever arising out of or in connection with the order on the carrying out of the work (whether during the progress of the work or after their completion and either before or after the determination, abandonment or breach of the terms and 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 NSC, Mumbai. The provisions of the Arbitration and Reconciliation Act, 1996 or any statutory modification or reenactment thereof and of the rules made thereunder for the time being in force shall apply to arbitration's proceedings under this Clause.



संस्कृति मंत्रालय  
भारत सरकार  
Ministry of Culture  
Government of India



**नेहरु विज्ञान केन्द्र / NEHRU SCIENCE CENTRE**

राष्ट्रीय विज्ञान संग्रहालय परिषद् की इकाई /

A unit of National Council of Science Museums

डॉ. ई. मोसेस मार्ग, वर्ली, मुंबई / Dr. E. Moses Road, Worli, Mumbai-400 018

Tel. No.022 31059028, E-Mail: [spo@nehrusciencecentre.gov.in](mailto:spo@nehrusciencecentre.gov.in)

TENDER No: NSCM/18012/303/2025

**DECLARATION - I**

I/We do hereby accept the "General Terms & Conditions" as provided by the Nehru Science Centre, Mumbai along with the Tender documents for **Supply, Installation, Testing and Commissioning of Ceiling Mounted 4-way DX Cassette Air Conditioning Units in 'Hall of Space Exploration Gallery' at Regional Science Centre, Banganga Road, Shymla Hills, Bhopal-462002, Madhya Pradesh** strictly as per the Technical Specifications and Terms & Conditions provided by Nehru Science Centre, Mumbai and also undertake to deliver/complete the work strictly as per the Technical Specifications of Nehru Science Centre, Mumbai as provided along with the Tender documents, in the event of placement of any order on us. Nehru Science Centre, Mumbai shall be at liberty to cancel the order in full or in part and forfeit the Earnest Money Deposit (EMD) in the event of failure of any of the above declaration made by us.

**Signature of the Bidder / Constituted Attorney**

Address :

Official seal with date

**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 Bidder / Constituted Attorney**

Official seal with Date:

Place:



संस्कृति मंत्रालय  
भारत सरकार  
Ministry of Culture  
Government of India



**नेहरु विज्ञान केन्द्र / NEHRU SCIENCE CENTRE**

राष्ट्रीय विज्ञान संग्रहालय परिषद् की इकाई /

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डॉ. ई. मोसेस मार्ग, वर्ली, मुंबई / Dr. E. Moses Road, Worli, Mumbai-400 018

Tel. No.022 31059028, E-Mail: spo@nehrucentre.gov.in

TENDER No.NSCM/18012/303/2025

**DECLARATION - III**

I/We ..... (name of the bidder), hereby declare that are registered under Micro and Small & Medium Enterprises (MSME) and eligible for exemption for submitting Bid Security (EMD) for participating in the e-Tender for **Supply, Installation, Testing and Commissioning of Ceiling Mounted 4-way DX Cassette Air Conditioning Units in 'Hall of Space Exploration Gallery' at Regional Science Centre, Banganga Road, Shymla Hills, Bhopal-462002, Madhya Pradesh.**

I/We further declare and accept that if we withdraw or modify our bid during the period of validity, or if we are awarded the contract and we fail to sign the contract, or to submit a Performance Security (Security Deposit) before the deadline defined in the e-NIT, we will be suspended for the period of time specified in the e-NIT from being eligible to submit bids for contract in Museum/Centre.

Signature of the Bidder / Constituted Attorney.

Address :

Official seal with date

(To be submitted/uploaded on Agency's Letterhead in the Portal  
as well as hard copy to the TIA)

Ref:

Date :

**DECLARATION**

We, M/s. ...., hereby solemnly declare as follows, in respect of the Ref. Tender No. NSCM/18012/303/2025:

- a) That, we have downloaded all the documents from CPP e-Procurement Portal of NIC and all the uploaded information / statements are true to the best of our knowledge.
- b) That, our firm is not involved in any **Litigation or Arbitration** with NCSM/its Satellite Units/other Govt. Institutions, during the last 05 (five) years.
- c) That, our firm is not having any unsatisfactory remarks/comments due to poor workmanship, uses of substandard materials etc. for similar nature of works executed at NCSM/its Satellite Units/other Govt. Agencies. If our firm is found to be defaulted in any of the above, then our firm can be disqualified without assigning any reason and no clarification on this ground would be raised by our firm. The decision of the Museum/Centre authority would be final, binding & acceptable to our firm.

Yours faithfully,

Signature of the Agency with Seal



संस्कृति मंत्रालय  
भारत सरकार  
Ministry of Culture  
Government of India



## नेहरु विज्ञान केन्द्र / NEHRU SCIENCE CENTRE

राष्ट्रीय विज्ञान संग्रहालय परिषद् की इकाई /

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Tel. No.022 31059028, E-Mail: [spo@nehrusciencecentre.gov.in](mailto:spo@nehrusciencecentre.gov.in)

**TENDER No: NSCM/18012/303/2025**

### TECHNICAL (Techno-Commercial) BID

**Note: ALL PARTICULARS / INFORMATIONS SHOULD BE GIVEN IN THE FOLLOWING FORMAT WITH COMPLETE DETAILS :**

01.	Name & Address of the Firm/Bidder	:	
02.	Telephone Number	:	
	Office (Local)	:	
	Mobile No.(to be available for 24 Hrs)	:	
	E-mail ID	:	
	Website	:	
03	Background details of the Firm	:	
04	Whether Manufacturer / Dealer of AC units	:	
05	If Manufacturer, mention the Brand name of the AC	:	
06	If Dealer, mention the Brand for which dealer and name of the Manufacturer	:	
07	Mention the validity of the Dealership Certificate	:	
08	Mention the Make and Model No. of the tendered item for which the Rate has been quoted in the Financial Bid	:	
09	Man Power set up of the firm and Qualification of professionals	:	
10	Past experience in such business for last 3 years giving details of established clients especially Government offices. Submit certificate issued by such clients and Government offices for satisfactory executing of orders.	:	
11	i) Whether capable to Supply, Install, Test & Commission the AC Units as per the 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 inform number of days required for completion of the job.	:	
	iv) State whether the Air Conditioning Units to be offered by the firm shall either come with or in compliance with all the features as detailed in enclosed Technical Specification. (State YES or NO)	:	
12	Proof of financial status of the company / audited Balance Sheet for last 3 years indicating total turnover as well. (Submit documentary evidence).	:	
13	Whether agreed to accept 30 days credit Payment Terms? (Please mention 'YES' or 'NO').	:	
14	Minimum time required to SITC of the tendered item at Regional Science Centre, Bhopal.	:	
15	Mention GST Registration Number and attach current and valid GST Clearance Certificate.	:	
16	Whether agreed to supply, install, test & commission the Air Conditioning Units as per enclosed Technical Specifications 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 Nehru Science Centre, Mumbai 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**

## **CHECKLIST OF DOCUMENTS SUBMITTED**

<b>SR. NO.</b>	<b>PARTICULARS</b>	<b>SUBMITTED</b>	<b>NOT SUBMITTED</b>
01	Scanned copy of Demand Draft / Pay Order for ₹43,100/- or transaction receipt towards Earnest Money Deposit.		
02	Authorized dealership of the listed manufacturer (quoted by the bidder)		
03	Seal & Signed Copy of Technical Specification as per Annexure-E		
04	Details of PAN		
05	GST details		
06	Tender Acceptance Letter (on company letterhead)		
07	Details of the bank account		
08	Declaration as per Annexure-C		
09	Deviation Statement as per Annexure- 'F' & Technical data sheet		
10	Similar work experience with Government & Government undertaking (Last 3 Years)		
11	Financial Bid (upload of BoQ in .xls format)		

## PROFORMA FOR AGREEMENT

ARTICLES OF AGREEMENT made at ..... this ..... day of ..... 2025 between **Nehru Science Centre, Dr. E. Moses Road, Worli, Mumbai-400018** a unit of **National Council of Science Museums (NCSM)**, a Society registered under the **Societies Registration Act of West Bengal, 1961** functioning under the **Ministry of Culture, Government of India**, hereinafter referred to as "**the Centre**" which expression shall include its successors and assigns on the **One Part** and M/s..... hereinafter referred to as "**the Agency**" which expression shall include his / their respective heirs, executors and administrators on the **Other Part**.

WHEREAS the Centre is desirous of getting the work of **Supply, Installation, Testing and Commissioning of Ceiling Mounted 4-way DX Cassette Air Conditioning Units in 'Hall of Space Exploration Gallery' at Regional Science Centre, Banganga Road, Shymla Hills, Bhopal-462002, Madhya Pradesh**, done and issued e-Tender Notice vide e-Tender ID: \_\_\_\_\_ and e-Tender Ref. No.NSCM/18012/303/2025 with BoQ, Technical Specifications and General Terms & Conditions of the e-NIT, which shall be the integral part of this Agreement.

AND WHEREAS the Agency has submitted duly completed tenders accepting all the Terms & Conditions and Technical Specifications stipulated in e-NIT.

AND WHEREAS the Financial Bid made by the Agency in response to the said e-NIT has been accepted as the most competitive and accordingly award of contract, which shall form a part of this Agreement, was issued to the Agency vide Work Order No. \_\_\_\_\_ dated \_\_\_\_\_ awarding the work of **Supply, Installation, Testing and Commissioning of Ceiling Mounted 4-way DX Cassette Air Conditioning Units in 'Hall of Space Exploration Gallery' at Regional Science Centre, Banganga Road, Shymla Hills, Bhopal-462002, Madhya Pradesh** at the tendered amount of ₹ \_\_\_\_\_/- (₹ \_\_\_\_\_/- + GST @ : ₹ \_\_\_\_\_/-) (Rupees \_\_\_\_\_ only) inclusive of GST, as applicable, with completion time of **30 days** w.e.f. \_\_\_\_\_.

NOW IT IS HEREBY AGREED AND DECLARED BY AND BETWEEN THE PARTIES HERETO AS FOLLOWS:

1. In consideration of the payment to be made by the Centre and subject to the terms and conditions contained in subject e-NIT and enclosed at Annexure-B, the Agency shall execute and complete the work within **30 days** from the date of issue of the Work Order as per the BoQ, Technical Specifications, Scope of Work and General Terms & Conditions furnished to them.
2. No advance payment shall be made by this Centre under any circumstances. However, interim payment may be considered depending upon the supply and progress of the work at the discretion of the competent authority of the Centre. The final payment shall be released after satisfactory completion of the entire job and within 30 (Thirty) days through NEFT/e-transfer mode upon receipt of pre-receipted GST-compliant Invoice/Bill duly mentioning the Bank details.
3. Time is the essence of this Agreement and the Agency shall proceed with the work, throughout the stipulated period of this contract. At any stage during execution, if the work lags behind the schedule for reasons directly attributable to the Agency, they shall pay or allow the Centre to deduct from any money due to them as Penalty as detailed in Clause No.5 of the General Terms and Conditions (Annexure-B).

4. The Agency shall strictly observe the time allowed for carrying out the works as detailed in Clause No.4 of the General Terms and Conditions (Annexure-B). The work shall, throughout the stipulated period of the contract, be proceeded with all the diligence (time being deemed to be the essence of the contract). If the Agency fails to complete the work in the stipulated time, the Agency shall pay to NSC, Mumbai an amount corresponding to @1% of the Total Contract Value or Actual Value of Work done, whichever is greater, for every week that the work may remain incomplete as per delivery schedule/completion time as stipulated in Clause No.4 of the General Terms and Conditions (Annexure-B) subject to a maximum compensation of @10% of the Total Contract Value or Actual Value of Work done, whichever is greater and after such period, appropriate action will be taken by NSC, Mumbai as it may deem fit. NSC, Mumbai may extend the completion time/time of delivery of the tendered job at their discretion on the application of the Successful Tenderer for such purpose provided that NSC, Mumbai considers the reasons for such extension as good, sufficient and acceptable. Decision of NSC, Mumbai in this regard shall be final and binding on the Agency.
5. The tender (including appendix), BoQ, Technical Specifications and General Terms & Conditions shall form the basis of this agreement and the decision of the Centre in reference to all matters or dispute as to material and workmanship shall be final and binding on the Agency.
6. All the safety provisions required in the work are to be taken by the Agency. Compliances of all the labour laws, insurance for the workmen/labour and/or third party insurance, etc. shall be the sole responsibility of the Agency.
7. The Centre reserves to itself the right of altering the contents and Technical Specifications, Terms & Conditions and of adding to or omitting any item of work or of having portions of the same carried out departmentally or otherwise and such alterations or variations shall not vitiate this Agreement.
8. The Agreement comprises the work above and all subsidiary work connected therewith, even though such work is not described in the said Technical Specifications.
9. All the damages, if any, done to any existing facility/structure has to be made good and brought back to its original state by the Agency. No payment will be made for this purpose.
10. **Defect Liability Period :**  
The Agency shall guarantee that all material, machinery, and components, supplied and installed by him/them shall be free from defects for a period of 12 Months due to faulty material and / or workmanship and that the installation shall perform satisfactorily, and the efficiency of the system and all the components shall not be less than the values laid down in the specifications and the capacities shall be at least equal to those specified.

The Defect Liability Period, as detailed in Clause No.10 of the General Terms and Conditions (Annexure-B), shall be 12 (twelve) months from the date of final completion of work and acceptance by the Authorities of the Centre. The Agency shall be responsible for all defects including the operation and performance of the **Air Conditioning Units** for a period of 12 (twelve) months from the date of final completion of work. The Agency shall rectify the defects/defective parts within the specified time up to the complete satisfaction of the competent authority of the Centre or otherwise the Centre shall have the right to rectify the defect at the Agency's own risk but in that case, the requisite cost will be adjusted from the Security Deposit of the Agency retained with the Centre. Decision of the Centre in this regard shall be final and binding on the Agency.

11. All disputes and differences between the Agency and the Centre of any kind, if any, except quality of workmanship and materials used in work, whatever arising out of or in connection with the contract on the carrying out of works (whether during the progress of the work or after their completion and whether before or after the determination, abandonment or breach of the contract) shall be referred to arbitration as per Clause No.28 of the said conditions of contract.

The provision 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 proceedings under this clause.

12. In case of any legal dispute, other than the arbitration, the Court of Jurisdiction shall be at the place of written in the first line of this Agreement.

**IN WITNESS WHEREOF** the parties have set their respective hands the day and the year hereinabove written:

Signed by .....  
for & on behalf of the Centre.

(with official seal)

In presence of (1) .....  
(2) .....

Signed by .....  
for & on behalf of the Agency.

(with official seal)

In presence of (1) .....  
(2) .....



**नेहरु विज्ञान केन्द्र / NEHRU SCIENCE CENTRE**

राष्ट्रीय विज्ञान संग्रहालय परिषद् की इकाई /

A unit of National Council of Science Museums

डॉ. ई. मोसेस मार्ग, वर्ली, मुंबई / Dr. E. Moses Road, Worli, Mumbai-400 018

Tel. No.022 31059028, E-Mail: spo@nehrusciencecentre.gov.in

**TECHNICAL SPECIFICATIONS AND SCOPE OF WORK FOR  
SITC of Ceiling Mounted 4-way DX Cassette Air Conditioning Units**

**for**

**Hall of Space Exploration Gallery' at**

**REGIONAL SCIENCE CENTRE, BHOPAL**

(Tender ID: NSCM/18012/303/2025 )

## **TECHNICAL SPECIFICATION AND SCOPE OF WORK**

**Project: Space Exploration Zone – Regional Science Centre, Bhopal**

Indoor Design Conditions: 25–26°C, Composite Climate, Power 415V/3Ph/50Hz

### **1. Ceiling Mounted DX Cassette Air Conditioners (DX Type)**

#### **1.1 General Description**

The air conditioning system shall comprise **ceiling mounted 4-way cassette type DX air conditioning units** complete with matching outdoor condensing units, designed to provide efficient, uniform and reliable cooling suitable for comfort air conditioning.

Each system shall be factory assembled, factory tested, and designed for continuous duty operation under the prevailing ambient conditions.

The units shall be suitable for operation on **415V ±10%, 3 Phase, 50 Hz power supply** and shall use **eco-friendly refrigerant (R410A / R32)** as applicable.

#### **1.2 Construction & Performance**

The cassette units shall be complete with:

- High efficiency **hermetic rotary / scroll compressor** (in outdoor unit)
- Copper tube aluminium fin heat exchangers
- **Electronically balanced blower** with low noise operation
- Factory fitted **condensate drain pump**
- Decorative fascia panel with 4-way air discharge
- Washable synthetic air filters
- Electronic expansion device / capillary control
- Microprocessor based control system
- Wireless / wired remote controller
- Noise level for Indoor Units should be less than 55db

The system shall be designed to maintain indoor conditions of **25–26°C DB** under peak ambient conditions.

### **2. Refrigerant Piping System**

#### **2.1 Copper Piping**

Supply, installation, testing & commissioning of **refrigerant piping network** between indoor and outdoor units using **soft drawn, seamless copper tubes** of suitable sizes as recommended by the manufacturer.

Piping shall be:

- Pressure tested with dry nitrogen
- Properly supported with clamps & saddles at suitable intervals
- Laid with proper slope and oil return consideration

#### **2.2 Thermal Insulation**

All refrigerant piping shall be insulated with **closed cell elastomeric nitrile rubber insulation**, minimum **13 mm thick** (thickness as per pipe size)

### **3. Condensate Drain System**

Supply & installation of **condensate drain piping** from each indoor unit using **uPVC / CPVC piping** of adequate diameter, including:

- Proper gradient for gravity flow
- Necessary traps and clean-out points
- Supports & clamps
- Final discharge to nearest drain point as per site conditions

Drain lines shall be tested for leakage and proper flow before commissioning.

#### 4. Electrical Power & Control Cabling

##### 4.1 Power Cables

Supply & laying of **FRLS copper power cables** from electrical panel to indoor and outdoor units, of suitable sizes, including:

- PVC insulated copper conductors
- Cable trays / conduits / raceways
- Cable glands, lugs, ferrules & labelling

##### 4.2 Control Cables

Supply & installation of **shielded communication / control cables** between indoor & outdoor units, including termination, dressing and tagging.

#### 5. Outdoor Unit Mounting & Structural Provisions

Outdoor condensing units shall be mounted on:

- Fabricated MS structural stands
- Hot dip galvanized / epoxy painted
- Anti-vibration rubber pads / spring isolators
- Proper anchoring & alignment

The structure shall be designed to withstand wind loads and operating vibrations.

#### 6. Testing, Commissioning & Performance Verification

The complete system shall be:

- Pressure tested with nitrogen
- Vacuumized to required micron level
- Charged with refrigerant as per manufacturer's recommendation
- Electrically tested for voltage, current, phase sequence & protections
- Operated under full load and part load conditions
- Verified for airflow, temperature & drainage performance

#### 7. Handover & Documentation

The contractor shall provide:

- As-built drawings
- Operation & Maintenance manuals
- Warranty certificates
- Test & commissioning reports
- Training to client's maintenance staff

### List of Approved Makes

Sr. No.	Item Description	Approved Makes
1	DX Cassette Air Conditioners	Daikin / Voltas / Mitsubishi Electric / O-General / Toshiba / Blue Star / Carrier
2	Compressors	As per OEM
3	Condenser & Evaporator Coils	Copper Tube
4	Refrigerant Piping (Copper Tubes)	Mandev / Mexflow / Indigo
5	Refrigerant Pipe Insulation	A-Flex / K-Flex / Supreme / Armacell
6	MCB / MCCB / RCCB / ELCB / RCBO	Havells / L&T / Legrand / ABB / Siemens
7	Drain Pumps & Accessories	As per OEM
8	Control Cables & Power Cables	Finolex / Polycab / RR / KEI / Havells
9	Fasteners, Anchors & Hardware	Hilti / Fischer

**NOTE:**

1. The bidder must clearly state the equipment's make and model in the technical data sheet.
2. Only Authorized dealers of make as listed above will be considered. A certificate of Authorized dealership from the manufacturer must be provided.
3. The Agency is responsible for supplying all spares and accessories, including remote controls, screws, installation manuals, and product catalog, to the site.
4. A scanned copy of a certificate on company letterhead, confirming that the bidder has not been blacklisted by any central or state government ministry, department, public sector organization, institution, organization, society, or company within the last three years, must be uploaded. This certificate should bear the company stamp and be signed by an authorized signatory.
5. The Agency must possess sufficient experience, trained personnel, and staff for equipment installation, commissioning, and post-sale maintenance support at the site.
6. The bidder will deploy their own manpower for equipment installation and commissioning. Outsourcing to unauthorized third parties is not permitted without client approval.
7. Participation in the tender bids automatically implies acceptance of all tender Terms and Conditions.
8. **Supply:** All items must be supplied at the installation site of the **Regional Science Centre, Banganga Road, Shymla Hills, Bhopal-462002, Madhya Pradesh**, properly packed and sealed. The packages shall only be opened for inspection in the presence of an authorized representative of RSC, Bhopal. All expenses related to lifting, shifting, and positioning the equipment for installation shall be borne by the bidder. The bidder is solely responsible for ensuring safe delivery. RSC, Bhopal / Competent Authority of NSC, Mumbai reserve the right to reject any supplied components or equipments that do not comply with the specifications at any point during installation or inspection.
9. RSC, Bhopal or its representatives / Competent Authority of NSC, Mumbai reserves the right to inspect or test items to confirm their conformity to the ordered specifications. Should the installation and operation of the machine fail to conform to the specification, NSCM may reject them. In such cases, the supplier shall either replace the item or make all necessary alterations to meet the required specifications, free of cost, at the site.
10. **Delivery:** The vendor is exclusively responsible for all aspects of safe delivery. At the destination site, cartons shall only be opened in the presence of a nominated officer from RSC, Bhopal and the vendor's representative. The intact condition of the seal, indicating no tampering, shall be the basis for receipt in good condition. Delays incurred due to obtaining relevant permits will not exempt the vendor from penalties. A Delivery Challan must be signed and stamped upon completion of item delivery.

**Terms and Conditions**

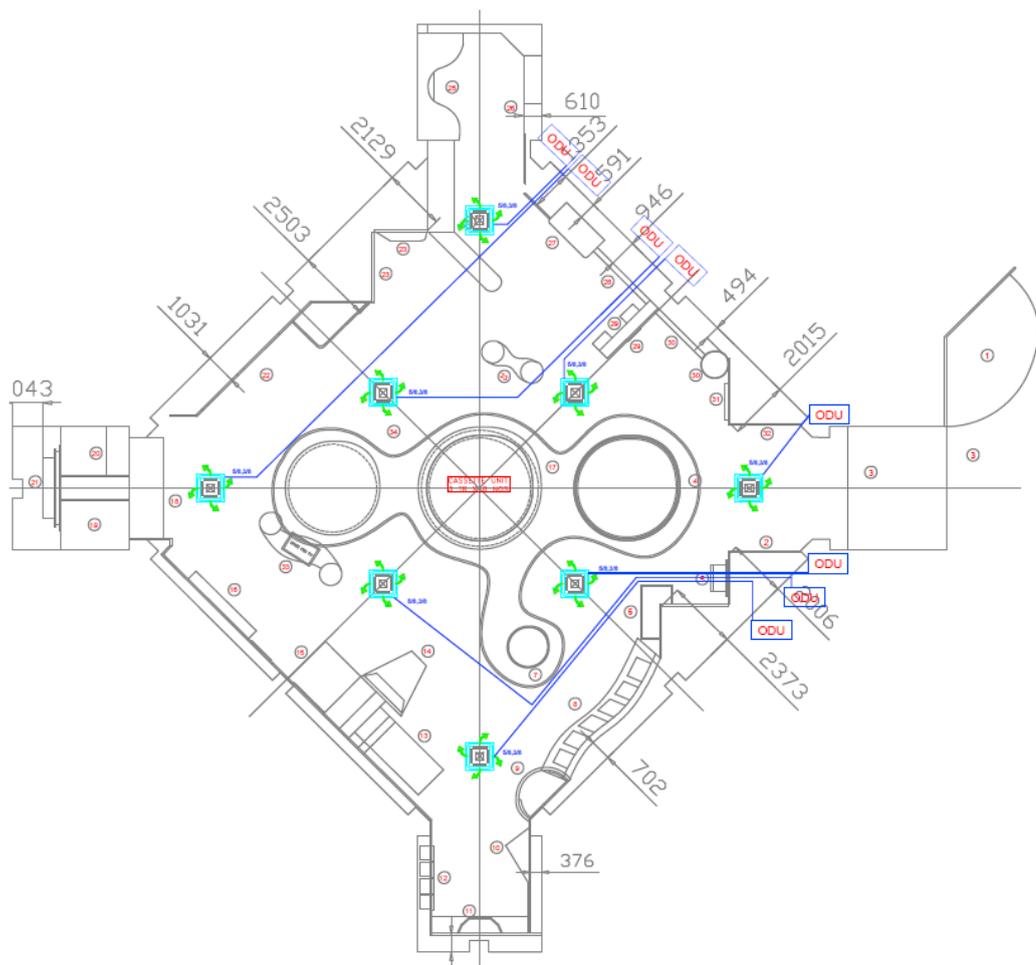
- Only authorized dealers of the listed AC manufacturers are eligible, and a dealership certificate is required.
- The Agency must supply all standard accessories, manuals, etc., and provide a certificate stating they haven't been blacklisted in the last three years.
- The Agency needs adequate experience, trained manpower for SITC, and post-sale maintenance support. Outsourcing without client approval is prohibited.
- All items must be supplied properly packed and sealed to the installation site at RSC, Bhopal.

- The bidder is responsible for all expenses related to lifting, shifting, and positioning the equipment/material from ground floor to 1<sup>st</sup> Floor.
- RSC, Bhopal has the right to inspect and reject non-compliant items.
- The vendor is solely responsible for safe delivery, and cartons will be opened in the presence of RSC, Bhopal and the vendor's representative.
- **The contractor is responsible for all civil, electrical, and carpentry work related to SITC, which must be included in the quoted rate.**
- All safety precautions during installation are the contractor's responsibility.
- The contract cannot be transferred, assigned, or sublet.
- Equipment must conform to specifications and be guaranteed for a minimum of 12 months from the date of satisfactory SITC completion.
- The contractor must provide a minimum of three standard after-sales services within 12-months warranty period.
- The entire work must be completed within **30 days** from the placement of Purchase Order.

## Bill of Quantities

Item No.	Item Name and Description of Item	Unit	Qty
<b>1.0</b>	<b>Cassette AC :-</b> Supply installation testing and commissioning of split type <b>ceiling cassette air conditioning unit</b> of capacity including indoor, outdoor unit fitted with rotary compressor, copper condenser and first charge refrigerant R410A/ecofriendly green gas only, cordless remote control, auto air swing louvers, connection copper lead wire between outdoor and indoor unit, connection copper lead wire upto 1.5 mtr., excluding connection copper pipe of required size, insulation, floor stand for outdoor unit, condense water outlet complete etc as required. Outdoor/indoor units should be of same make (brand).		
<b>1.1</b>	<b>3 TR and above three phase</b>	Each	8
<b>2.0</b>	<b>Copper piping: -</b> Supply, installation, testing and commissioning of interconnecting copper refrigerant pipe work (19mm/13mm thick) duly insulated with elastomeric nitrile rubber type tubular insulation between indoor & outdoor units as per specifications. And exposed piping should be wrapped with glass woven cloth and lag coating for vapour barrier and weather protection. Joints shall be covered with nitrile rubber tape of 3 mm thick complete as per specification.		
<b>2.1</b>	<b>15.9 mm O.D.</b> wall thickness 0.8mm (insulation –13 mm thick)	Rmt	90
<b>2.2</b>	<b>9.5 mm O.D.</b> wall thickness 0.8mm (insulation – 13 mm thick)	Rmt	90
<b>3.0</b>	<b>Drain piping :-</b> Providing and fixing of CPVC, 6Kg/cm2 drain water piping with fittings, support and insulated with 6 mm thick closed cell elastomeric nitrile rubber insulation complete as per specification.		
<b>3.1</b>	25 mm dia ID	Rmt	85
<b>3.2</b>	32 mm dia ID	Rmt	25
<b>4.0</b>	<b>Refrigerant:-</b> Supply and additional refrigerant charge of refrigerant R410/410A & equivalent Eco friendly green gas to compensate the additional piping done at site for all systems including testing commissioning as required,	Kg	20
<b>5.0</b>	<b>Control cable: -</b> Supply and laying, testing & commissioning of following sizes of copper conductor control cables on existing tray including fixing clamps & proper connections to equipment etc. complete as required.		
<b>5.1</b>	4Cx1.5 sq.mm	Rmt	90
<b>5.2</b>	4Cx 2.5 sq.mm	Rmt	90
<b>5.3</b>	4Cx 4 sq.mm	Rmt	40
<b>5.4</b>	4Cx 16 sq.mm	Rmt	30

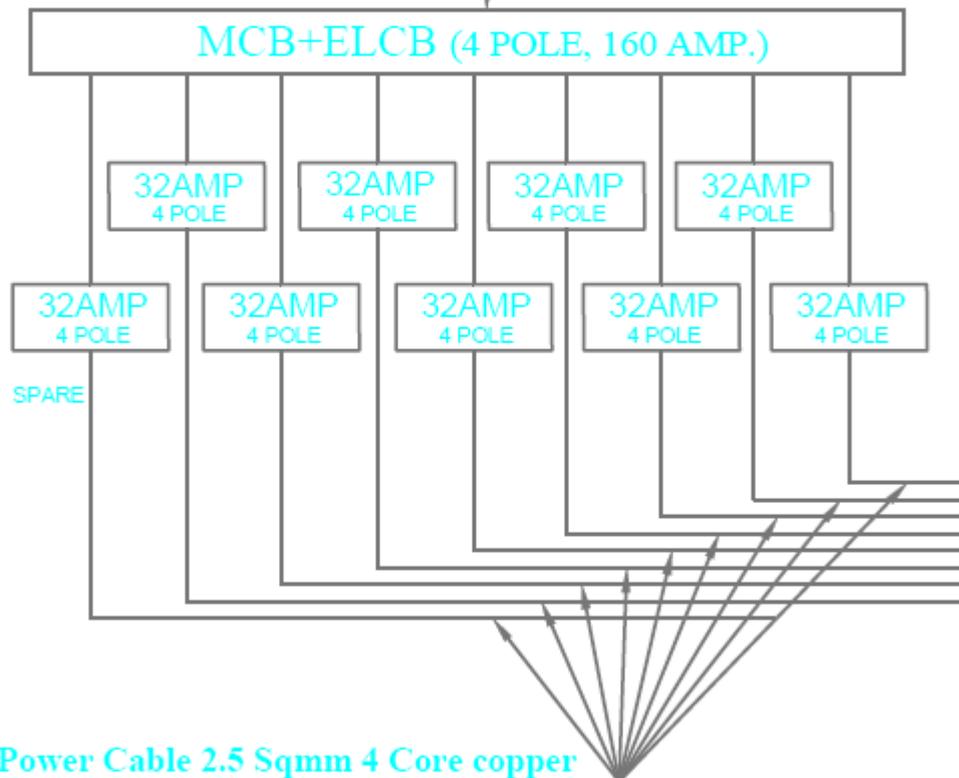
<b>6.0</b>	<b>Cable tray</b> Supply and erection of hot dip G.I. cable tray perforation not more than 17.5% for specific dimensions along with tees, bends. The cable tray shall be hang from ceiling/ fixed to wall with necessary angle/flat iron/hanging rod, for ceiling suspensions, clamp, anchor fastener, nuts, bolts, washers, not more than 1.0 mtr. apart complete as per specification to complete the job. The tray shall be as follows :-		
<b>6.1</b>	150 x 50 x 1.6mm thick	Metre	30
<b>6.2</b>	300 x 50 x 1.6mm thick	Metre	30
<b>7.0</b>	<b>Electrical Panel for DX Cassette AC System</b> Supply, installation, testing & commissioning of complete Electrical Power & Control Panel for DX cassette air conditioning system comprising of powder-coated CRCA sheet steel enclosure, suitable for indoor/outdoor installation as required, with TPN incomer (rating as per connected load), ELCB/RCCB for earth leakage protection, outgoing MCBs for individual outdoor units and indoor units, heavy-duty contactors, control MCBs, phase indication lamps, copper busbars with heat shrink sleeves, internal wiring with FRLS copper conductors, neutral & earth bars, proper earthing arrangement, cable glands, lugs, ferrules, labeling and all accessories; complete in all respects including testing, safety checks and commissioning as per site requirements and relevant IS/IEC standards. <b>(Please refer drawing of Electrical panel)</b>	Nos	1
<b>8.0</b>	<b>Misc. Civil Work</b> Civil Work including Wall Openings, Black Paint on AC Units, <b>Powder Coated</b> Cable Trays, etc.	Lot	1



## Drawing of Electrical Panel

# FOR FIRST FLOOR

Main panel to AC Panel Incoming Power  
Cable and earthing as power Required



Outgoing Power Cable 2.5 Sqmm 4 Core copper  
Conductor XLPE Insulated Armoured/ Unarmoured

**To Indoor Unit**

☆	32 Amp. = 9 nos.
☆	Total = <u>9 nos.</u>

