



Ministry of Culture
Government of India



SCIENCE CITY

(A unit of National Council of Science Museums)

**J.B.S. Haldane Avenue,
Kolkata-700 046, West Bengal, India**

**e-TENDER DOCUMENT
FOR**

**CONCEPT, DESIGN AND DEVELOPMENT OF 'INTERACTIVE MULTIMEDIA PRESENTATION'
INTERFACES FOR 'CLIMATE CHANGE GALLERY' AT SCIENCE CITY, KOLKATA**

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Disclaimer & Disclosures:

Science City, Kolkata has prepared this document to give background information on the captioned project to the interested bidders/agencies/contractors. While Science City, Kolkata has taken due care in preparation of the information contained herein and believe it to be accurate, neither Science City, Kolkata nor any of its authorities or agencies nor any of their respective officers, employees, agents or advisors give any warranty or make any representations, express or implied as to the completeness or accuracy of the information contained in this document or any information which may be provided in association with it.

The information is not intended to be exhaustive. Interested agencies/contractors are required to make their own inquiries and respondents will be required to confirm in writing that they have done so and they do not rely only on the information provided by Science City, Kolkata in submitting the Tender. The information is provided on the basis that it is non-binding on Science City, Kolkata or any of its authorities or agencies or any of their respective officers, employees, agents or advisors.

Science City, Kolkata reserves the right not to proceed with the Project or to change the configuration of the Project, to alter the time table reflected in this document or to change the process or procedure to be applied. It also reserves the right to decline to discuss the matter further with any bidder submitting the Tenders.

No contractual obligation on behalf of Science City, Kolkata, whatsoever, shall arise from this tender unless & until a formal contract is signed and executed by duly authorized officers of Science City, Kolkata and the bidder in due course after invitation of tenders.

Science City, Kolkata may modify any / all of the terms of this tender process giving due notification through the Science City, Kolkata's website (<https://sciencecitykolkata.org.in/>).

Science City, Kolkata will not be liable for any costs incurred by the Bidders in the preparation of the tender & its presentation. The preparation of Bidder's proposal will be made without obligation by Science City, Kolkata to acquire any of the items included in the Bidder's product, or to select any Bidder's proposal, or to discuss the reasons why a particular Bidder's proposal is accepted or rejected.

All information included by the bidders in their proposal will be treated in strict confidence.

SCIENCE CITY
(A unit of National Council of Science Museums)
J.B.S. Haldane Avenue, Kolkata-700 046, West Bengal, India

TENDER No. SCCY-18011/08/PUR/2023(157)

NOTICE INVITING E-TENDER

On-line Digitally signed e-tenders under QCBS (Quality and Cost Based Selection) method are invited in Two Bid System from competent Company/Firm/Agency/Consortium, who satisfy the eligibility criteria enumerated in the (tender document for CONCEPT, DESIGN AND DEVELOPMENT OF 'INTERACTIVE MULTIMEDIA PRESENTATION' INTERFACES FOR 'CLIMATE CHANGE GALLERY' AT SCIENCE CITY, KOLKATA, as per the Scope of Work.

Agencies having proven experience and capability of executing the order in the targeted time may download the Tender Papers from Central Public Procurement Portal (CPPP): <http://eprocure.gov.in/eprocure/app> or from website <https://sciencecitykolkata.org.in/> as per the following schedule:

Bid Document Published Date	13/03/2024(At 12:00hrs)
Bid Document Download Start Date	13/03/2024(At 18:00hrs)
Pre-Bid Meeting*	15/03/2024(12noon)
Bid Submission Start Date	16/03/2024(15:00hrs)
Bid Submission End Date	25/03/2024(Upto 10:00AM)
Technical Bid Opening Date	26/03/2024(Upto 10:30AM)
Technical Presentation (of those selected) **	Will be communicated
Estimated Cost of Work	10,00000 (including 18% GST + 1% Labour cess)
Earnest Money Deposit	Rs. 25,000/-
Period of Completion of Work	30 days

* Pre Bid Meeting will be organized through online video conferencing

** Technical Presentation will also be organized through online video conferencing

Bidders interested to participate through online video conferencing may send their confirmation to sccystore@gmail.com and they need to send their contact details and e-mail id to the above-mentioned e-mail address.

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. Offline 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 SCIENCE CITY, Kolkata

at 13:00 on 26/03/2024 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 SCIENCE CITY, Kolkata regarding selection of eligible and qualified vendors / firms for opening the Financial Bid shall be final and binding on the bidders. SCIENCE CITY, Kolkata reserves the right to accept or reject any or all tenders in full or part without assigning any reason whatsoever. SCIENCE CITY, Kolkata is not bound to accept merely the lowest tender but the technical suitability, capability and superiority of the job will be considered.

1. Tender document can be downloaded from Central Public Procurement Portal (CPPP) website "<http://eprocure.gov.in>"
2. Submission of the Bid: This Tender is an e-Tender and bids are to be submitted through CPP Portal (<http://eprocure.gov.in>) only. Bids submitted in physical forms will be summarily rejected.
3. Details of Earnest money deposit (EMD), submission of tender, etc. are indicated in the tender document.
4. 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 the same lies with the bidders.
5. SCIENCE CITY, Kolkata reserves the right to amend / withdraw any of the terms and conditions in the tender documents or to reject any or all bids without giving any notice or assigning any reason. SCIENCE CITY, Kolkata also reserves the right to accept or reject any or all tenders in full or part without assigning any reason whatsoever. SCIENCE CITY, Kolkata shall also not be bound to accept merely the lowest tender but the technical suitability, capability and superiority of the concept/ technology interface/system etc. shall be of prime consideration for selection of the appropriate set of concept/ technology interface /system collectively considered as a complete solution.

Store & Purchase Officer
SCIENCE CITY, Kolkata

General Information and Instructions

1. The instructions given herein will be strictly binding on the bidders and deviation, if any will make the tender or tenders liable to be considered invalid. Tenders incorporating additional conditions by the bidder 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 instructions 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. An agent of foreign OEM, for submitting the offer on behalf of OEM, would be required to produce a copy of their legal bid agreement with their principal as an Indian agent failing which their bid would be disqualified.
6. The bidders shall be required to deposit a sum of Rs. 25,000/- (Rupees Twenty five thousand only) as Earnest Money Deposit (EMD) along with the Technical bid (Cover – I). The earnest money shall be deposited in the form of Demand Draft/Pay Order in favour of “Science City, Kolkata” payable at Kolkata of any Nationalized or Scheduled bank or through electronic transfer mode (NEFT/RTGS).

Bank Details of Science City, Kolkata:

Name of Bank	: CANARA BANK
Branch Address	: Science City Branch
SB A/c No.	: 8419101020050
IFSC Code	: CNRB0008419

After fund transfer, the details such as UTR Number, date etc. shall be typed in the letter head of the Bidder and uploaded separately in Cover-I by the bidders.

Earnest Money deposit in the form of Bank Guarantee /Bond or any other instrument shall not be accepted and shall be rejected straightway.

If the successful bidder fails to execute the order strictly as per the Science City, Kolkata's specification in full or part within the stipulated delivery period of the purchase order, the Earnest Money deposit retained with the Science City, Kolkata shall be forfeited forthwith after cancellation of the concerned order. 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 agency through which tendered work will be carried out 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 Science city, Kolkata. Earnest Money deposit in respect of the successful bidders will be retained with the Science City, Kolkata until entire execution of the order as per terms of the tender.

If the successful bidder fails to execute the Agreement within the stipulated time as per the format of the Article of Agreement as given in this NIT document in **Annexure – ‘H’** / If any information or document furnished by the bidder turns out to be misleading or untrue in any material respect, EMD shall be forfeited and proposal of bidder shall be cancelled.

7. The bidders registered under Department of Micro, Small and Medium Enterprises (MSME) and/or eligible for exemption from submitting Bid Security / Earnest Money Deposit shall be required to submit Bid Security Declaration as per **Annexure- ‘F’** of the e-NIT.
 - (a) **The following procedure is to be adopted for the bidders of MSME’s registered with NSIC:**

The MSMEs who intent to claim benefits under MSME act, shall fulfill the following, otherwise they run the risk of their bid being passed over as “INELIGIBLE” for the benefits applicable to MSME’s and their bid will not be considered for evaluation.

 - i. MSMEs which are specified by the Ministry of Micro, Small and Medium Enterprises under MSME Act 2006 and Public Procurement Policy, 2012 as **Manufacturing/ Service Enterprises should have registered with NSIC under its Single Point Registration Scheme (SPRS).**
 - ii. NSIC certificate with monetary limit indicated should be valid on the scheduled date/ extended date of submission of tender. Certificates without monetary limit will not be considered.
 - iii. The items of Product/ Services mentioned under NSIC certificate should be the same or similar to the tendered items
 - iv. The monetary limit stipulated in the NSIC certificate of MSME’s should be equal or more than the value of work(s)/Supply is/are “In hand (Progress)” awarded under MSME benefits during the financial year plus estimated cost of this tender for availing EMD exemption.
 - v. If monetary limit is less than the value of work(s)/ Supply is / are “In hand (Progress)” awarded under MSME benefits during the financial year plus estimated cost of this tender, they should obtain “Competency Certificate” from NSIC for participating in this tender as well as to avail MSME benefits. The competency certificate should be uploaded along with the Tender Document through CPP document.
8. The Bids should **remain valid for 90 days** from the date of opening of financial bid.
9. Canvassing by the Bidder(s) in any form, unsolicited letter and post- tender correction may invoke summarily rejection of their bid(s). Conditional tenders will also be rejected. Non-compliance of applicable General Information and Instructions will disqualify the Bid.
10. The Bidders should have Digital Signature Certificate (DSC) for filling up the Bids. The person signing the Tender Document should be authorized for submitting the online e-tender.
11. The Bidders shall fill up the Prescribed Format for submission of Technical Bid as per **Annexure- ‘E’** format duly signed by the authorized signatory. The person signing the Tender Document should be authorized for submitting the online e-tender.
12. The Financial Bid shall be filled in and signed by the authorized signatory online as per format **Annexure-‘J’ available at Central Public Procurement Portal** e-tender system website <https://eprocure.gov.in/eprocure/app>.

Offline Financial Bid shall not be accepted.

13. Tender must be uploaded on-line in two separate covers - namely Cover – 1 (Technical) and Cover– 2 (Financial) on Central Public Procurement Portal. The contents of Cover shall be as follows:

Cover- 1 (Technical)

Sl. No.	Description	Yes	No	Remarks
01.	Technical (Techno-Commercial) BID duly filled-in and signed with official stamp. (As per Annexure-E format)			
02.	<i>Proof of concept (PoC) document i.e.draft Scheme with sample story board for standalone Multimedia ‘Cyclone’ and a trilingual short script with (Bengali, Hindi & English) production details (scheme), shall be submitted by the bidder at Science City, Kolkata, West Bengal 700046 on or before 25/03/2024, 10 am.</i>			
03.	General Terms & Conditions (as detailed in Annexure - B) duly signed with official stamp as a token of acceptance			
04.	Annexure G along with copies of document showing last 3 years’ financial turnover of the firm.			
05.	Scanned Copy of the current and valid GST return Certificate.			
06.	The ‘Declaration’ duly signed with official stamp (As detailed in Annexure-F)			
07.	Format for Articles of Agreement (As per Annexure-H) duly signed with official stamp as a token of acceptance.			
08.	Signed and scanned copies of duly filled in consent letters of all the team members (As per Annexure – I)			
09.	Scanned copy of Demand Draft / details of online payment for Earnest Money Deposit of Rs. 25,000.00 (Rupees Thirty Thousand only)			

Cover-2 (Financial)

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

The Cover-1, i.e. Technical (Techno-commercial) Bid shall be opened by Science City, Kolkata at the first instance and evaluated by the competent authority. At the second stage, the Cover-2 containing Financial Bid of only techno-commercially acceptable offers shall be opened for further evaluation and ranking before awarding the contract.

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 Science City, Kolkata against submission of supporting documentary evidence.

The authorities of Science City, Kolkata who do 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.

Annexure – A

INSTRUCTIONS TO THE TENDERERS / BIDDERS FOR E-SUBMISSION OF BIDS ONLINE THROUGH E-PROCUREMENT SITE <https://eprocure.gov.in/eprocure/app>

This tender document has been published on the Central Public Procurement (CPP) Portal (URL: <https://eprocure.gov.in/eprocure/app>). The tenderers / bidders are required to submit soft copies of their bids electronically on the CPP Portal, using valid Digital Signature Certificates (DSC). The instructions given below are meant to assist the tenderers / bidders in registering on the CPP Portal, prepare their bids in accordance with the requirements and submitting their bids online on the CPP Portal. More information useful for submitting online bids on the CPP Portal may be obtained at: <https://eprocure.gov.in/eprocure/app>

REGISTRATION:

Tenderers / 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 "Click here to Enroll" on the CPP Portal. Enrolment is free of Charge.

As part of the enrolment process, the tenderers / bidders will be required to choose a unique username and assign a password for their accounts.

Tenderers / 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.

Upon enrolment, the tenderers / 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 / TCS / nCode / eMudhra etc.), along with their profile.

Only one valid DSC should be registered by tenderers / bidders. Please note that the tenderers / bidders are responsible to ensure that they do not lend their DSC's to others which may lead to misuse.

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.

JOINT VENTURES / CONSORTIUM

- i. In the event that the successful bidder is a consortium/joint venture formed, lead partner/prime contractor in whose name the bid was issued, shall be fully and solely responsible for the performance of contract and all works designed and executed under the contract.
- ii. Bids submitted by a consortium or joint venture of maximum two firms including lead partner, all partners shall comply with the following requirements:
 - a) The consortium as a whole must be a sound entity technically and the lead partner must be sound entity financially.
 - b) The Consortium as a whole must satisfy the qualification criteria set forth herein. **The turnover of lead partner must satisfy the eligibility criteria of the tender.** The bid shall contain a statement of the members of the consortium and shall provide all information necessary to satisfy Client/Employer that the Consortium fulfils the qualifying criteria.
 - c) The Bids shall contain **original copy of the Memorandum of Understanding (MOU) on Rs.100. Non-Judicial Stamp paper (or as applicable) between the consortium members** clearly

identifying the lead partner, scope and responsibility and financial part of each member in the performance of the contract.

- d) The consortium members will obtain approval of the Client for any change in the shareholding structure and scope of work or any other terms of MOU.
- e) The lead partner of the consortium shall be nominated as being in-charge to represent the Consortium in all dealings with the Client/Employer and for providing any information or clarification sought from the Consortium.
- f) The Bid shall be signed by all the consortium firms by their authorized person. The lead partner shall be authorized to incur liabilities and receive instructions for and on behalf of any and all member(s) of the Consortium and all dealings including billing and payments, shall be done exclusively with the leader of the consortium.
- g) Only firms or joint ventures that have been qualified under this procedure will be eligible to bid for this project.
- h) All members of the Consortium shall be liable for the execution of the project in accordance with the terms of the MOA and Contract agreement.
- i) Any individual bidder or member of a consortium cannot be member in another consortium and participate in this tender.
- j) All correspondence or communications will be done by the Lead partner (or authorized representative of Lead partner) of consortium.
- k) Net worth as on the last day of the preceding financial year should be positive during the preceding three consecutive financial years.
- l) Bidder submitting their bid shall not be under liquidation, court receivership or similar proceeding.

Notes : The bidder has to upload the compliance letter on its letterhead duly signed by the authorized signature & other supporting documents as asked for in the bid in scanned format. Failing to submit the same or non-compliance/deviation from any bid terms and conditions, eligibility criteria or technical specifications may result in rejection of the bid.

SEARCHING FOR TENDER DOCUMENTS

There are various search options built in the CPP Portal, to facilitate tenderers / bidders to search active tenders by several parameters. These parameters could include organization name, location, date, value, etc. There is also an option of 'Advanced Search' for tenders, wherein the tenderers / 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.

Once the tenderers / 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 tenderers / bidders through SMS / e-mail in case there is any corrigendum issued to the tender document.

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:

Tenderers / bidders should take into account any corrigendum published on the tender document before submitting their bids. 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 contents of each of the documents that need to be submitted.

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 formats as mentioned. Bid documents may be scanned with 100 dpi with black and white option.

To avoid the time and efforts 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 tenderers/bidders. Tenderers / bidders can use “My Space” area available to them to upload such documents. These documents may be directly submitted from the “My Space” area while submitting the bid just by tagging 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:

Tenderers / bidders should log into the site well in advance for bid submission so that he/she uploads the Bid in time i.e. on or before the bid submission time as per the system. Bidder will be responsible for any delay due to other issues.

Tenderers / bidders has to digitally sign and upload the required bid documents one by one as indicated in the tender document.

Tenderers / bidders has to select the payment option as “offline” to pay the Tender Fee & EMD and enter details of DD/any other accepted instrument.

Tenderers / bidders should prepare the EMD instrument as per the instructions specified in the tender document. Scanned copy of DD/any other acceptable instrument as mentioned towards EMD should be uploaded while online submission of the tender and the original should be posted/couriered/given in person to the Tender Processing Section latest by the last date and time of bid submission or as specified in the tender documents. The details 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 Tender will be summarily rejected.

The Tender Inviting Authority (TIA) will not be held responsible for any sort of delay or the difficulties faced during the submission of bids online by the tenderers / bidders. The bidder should see that the bid documents submitted should be free from virus and if the documents could not be opened, due to virus, during tender opening, the bid is liable to be rejected

Tenderers/bidders are requested to note that they should necessarily submit their financial bids in the format provided and no other format shall be acceptable. The price bid has been given as a standard Rate Quote Sheet with the tender document, which is to be downloaded and to be filled by all the tenderers/bidders. Tenderers/bidders are required to download the Rate Quote Sheet file, open it and complete the **green coloured (unprotected) cells** with their respective financial quotes and other details (such as name of the Tenderers/ bidders). No other cells should be changed. 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). Once the details have been completed, the tenderers / bidders should save it and submit it online, without changing the filename. If the Rate Quote Sheet file is found to be modified by the tenderers / bidders, the bid will be rejected. In addition to the above, the Cost Break-up shall be submitted in tabular format duly digitally signed with official stamp.

The server time (which is displayed on the tender's/bidder's dashboard) will be considered as the standard time for referring the deadlines for submission of the bids by the tenderers / bidders,

opening of bids etc. The tenderers / bidders should follow this time during bid submission. The tenderers / bidders are requested to submit the tenders/bids through online e-tendering system to the Tender Inviting Authority (TIA) well before the bid submission end date & time (as per Server System Clock).

All the documents being submitted by the tenderers / 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 opener's public keys. Overall, the uploaded tender documents become readable only after the tender opening by the authorized bid openers.

The uploaded tender documents become readable only after the tender opening by the authorized tender/bid openers.

Upon the successful and timely submission of tenders/bids, the portal will give a successful tender/bid submission message & a tender/bid summary will be displayed with the NIT/tender/bid No. or Name of Work and the date & time of submission of the tender/bid with all other relevant details.

The tender/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 tender/bid opening meetings.

ASSISTANCE TO TENDERERS/BIDDERS:

1) Any queries relating to the tender document and the terms and conditions contained therein should be addressed to the Tender Inviting Authority (TIA), Science City, J.B.S Haldane Avenue, Kolkata, West Bengal 700046 Ph. 033 2285 4343 / 2285 1572 / 2285 2607, Email at: sccystore@gmail.com & sciencecity.kol@gmail.com.

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 Ph. 1800-3070-2232.

SCIENCE CITY

(A unit of National Council of Science Museums)

J.B.S. Haldane Avenue,

Kolkata-700 046, West Bengal, India

e-Tender document for concept, design and development of ‘interactive multimedia presentation’ interfaces for ‘Climate change gallery’ at Science City, Kolkata

Tenders under **QCBS (Quality and Cost Based Selection)** method are invited in Two Bid System from competent Company/Firm/Agency/Consortium, who satisfy the eligibility criteria enumerated in the document.

Introduction

The Science City, one of its kind in India, inaugurated on 1st July,1997 has been developed as a major attraction for the residents of Kolkata as well as for the national and international visitors to the metropolis. Developed by the National Council of Science Museums, it is one of the largest and finest in the world, presenting science and technology in a stimulating and engaging environment that is truly educational and enjoyable for the people of all ages. It has, over the years, become a place for memorable experience and enjoyment for both the young and the old.

Science City, Kolkata invites bids for concept, design and development of ‘interactive multimedia presentation’ interfaces for ‘Climate change gallery’ at Science City, Kolkata.

Eligibility Criteria for Applying:

Agencies / production houses that are fulfilling the following conditions will be eligible for submission of E-Tender:

- i. The bidder could be an Individual, Limited Company/Corporation, Proprietary Firm, Partnership Firm/Company etc. Consortium or Joint Venture are allowed to bid for the Works.*
- ii. The bidder should have minimum experience of 05 years preceding the proposal due date, in the similar field of works. Experience should be in design and development of interactive multimedia interfaces (standalone data retrieval interfaces having video, audio and music etc.) for museums, tourist centres or any business centre etc.*
- iii. The registered company/firm should have well trained production team, having graphics, VFX Animation Studio etc. (well build-up infrastructure) and the team leader should have a Post Graduate Diploma in Multimedia/film studies etc. or any equivalent degree or diploma from a renowned institution.*

- iv. *Firms / Companies should have average annual financial turnover of **Rs. 08.00 lakhs** during 3 financial years out of last 5 financial years (AY 2023-24, 2022-23, 2021-22, 2020-21, 2019-20). Exception may be considered only for AY 2021-22 (due to Pandemic).*
- v. *The Bidder should have the requisite work experience of completing similar projects during the last 5 years preceding the proposal due date as per the details given below:*

One similar work of value not less than **Rs. 8 Lakhs**;

Or **Two similar works** each of value not less than **Rs. 5 Lakhs**;

Or **Three similar works** each of value not less than **Rs. 4 Lakhs**;

*Here the **Similar Works** means: Design and development of interactive multimedia interfaces (standalone data retrieval interfaces having video, audio and music etc.) for museums, tourist centres or any business centre etc.*

- vi. *The bidder should provide documentary proof for the above in the form of a work order / supply order / contract document and completion report/ testimonials for completion.*

N.B Even though the bidders meet the above qualifying criteria, they are subject to be disqualified if they have:

- a. *Made misleading or false representation in the forms, statements and attachments submitted in proof of the qualification requirements; and/or*
- b. *Record for poor performance such as abandoning the works, not properly completing the contract, inordinate delays in completion, litigation history, or financial failures etc.*

vii. Proof of Concept (PoC)

The bidders must submit a proof of concept (PoC) document, as per the details appended below:

*Proof of concept (PoC) document i.e.draft Scheme with sample story board for standalone Multimedia ‘Cyclone’ and a trilingual short script with (Bengali, Hindi & English) production details (scheme),shall be submitted by the bidder at Science City, Kolkata, West Bengal 700046 on or before (See **Annexure – D1** for Brief details of the work)*

Submission of PoC document is mandatory. Non-submission of PoC document maylead to summarily rejection of bid.

Notes:

1. Techno-Commercial bids of the agencies that fulfil the above pre-qualification criteria shall be opened.
2. The bidder has to upload the compliance letter on its letterhead duly signed by the authorized signature & other supporting documents as asked for in the bid in scanned format. Failing to submit the same or non-compliance/deviation from any bid terms and conditions, eligibility criteria or technical specifications may result in rejection of the bid.

PROPOSAL EVALUATION / SELECTION CRITERIA

A three-stage procedure (two bid system) under Quality cum Cost Based (QCBS) evaluation will be adopted in evaluating the proposals

1. **Eligibility Criteria Evaluation:** Any short coming of the documents will lead to rejection of the bid and other envelope will not be opened.
2. **Thematic/Technical Presentation Evaluation:** The agencies qualifying on the basis of their eligibility criteria will only be called for Thematic/Technical Presentations (may be arranged online) which can be at a very short notice.
3. **Financial Evaluation:** Only the bidders/firms securing the minimum qualifying marks based on Eligibility Criteria Evaluation and Technical/Presentation Evaluation as described in details below will be eligible for their Financial Bid Opening & Financial Evaluation. Rates quoted in respect of all the items (overall financial offer) shall be considered to evaluation of bids on QCBS.

The evaluation shall be carried out in accordance of the marking system as detailed below.

Please note that ‘All bidders (MSME and non MSMEs) have to qualify in the Technical Evaluation, even if they fulfill the basic eligibility criteria. The financial bid for only the qualified bidder will be considered for evaluation’

A. Technical Evaluation

- i) The Evaluation Committee appointed by the Competent authority shall carry out its evaluation applying the evaluation criteria specified in the bid document. Evaluation of the application would be done as per the documents submitted. Bidders/agencies who are in the trade and are fulfilling the pre-qualification criteria as per the documents required would only be called for thematic presentation which can be at a very short notice of even three days.
- ii) Further during the technical presentation, the evaluation would be carried out on Quality and Cost Based Selection (QCBS) basis where the Technical cum creative evaluation would be given upto 100 marks.
- iii) Each responsive proposal shall be attributed a technical score. On the basis of the technical assessment, **agencies securing minimum 75 marks out of 100 will be shortlisted and the financial bids of only the shortlisted agencies will be opened.** The date and time of opening of the financial bids will be intimated to the selected/shortlisted agencies through CPP portal.

B. Financial Evaluation

Quality cum Cost Based (QCBS) Selection

a. Financial Bid:

The individual bidder's financial bid scores will be normalized as per the formula below:

$F_n = F_{min}/F_b * 100$ (rounded off to 2 decimal places), where

F_n = Normalized commercial score for the bidder under consideration (ie, the scaled score with reference to the L-1 quote for a particular bidder)

F_b = Absolute financial quote for the bidder under consideration (to be more specific, the rate quoted by the particular bidder, in hand)

F_{min} = Minimum absolute financial quote (ie; rate quoted by the L-1 bidder)

C. Bid comparison

There will be 70% weightage for Technical bid and 30% evaluation for Financial bid.

Composite score (S) = 0.7 Technical Score(A) + 0.3 Financial Score (B)

The bidder scoring maximum total marks {(A) + (B)} would be recommended for selection.

Note: Technical Bids will be evaluated on the basis of documents as detailed above & Presentations to be made by the eligible agencies before the Constituted Committee. The date and time of the presentations (if organised) will be conveyed to the eligible agencies.

D. Technical cum Creative Evaluation Marks

The Technical Bids will be evaluated on the basis of the indicated parameters in the table below:

Evaluation of bids found eligible as per pre-qualification criteria would be undertaken by Technical Evaluation Committee Constituted by the competent authority as per parameters cited below:

Sl. No.	Parameter	Criteria	Total Marks	Marks Obtained
01.	Credentials of applicant/ agency: The bidder should have minimum 05-year experience preceding the proposal due date, in the similar work* (Total Max. marks- 10)	5 Years - 6 Marks More than 5 years upto 10 years – Bonus 2 marks / More than 10 years – Bonus 4 Marks	10	
02.	Team (<i>Experience and Credentials will be taken into account for giving marks</i>). Provide detailed Biodata highlighting their past work (Total Max. marks- 10)	Team leader with a P.G Diploma or equivalent in Multimedia (from a renowned Institute) is mandatory and having experience more than 5 years – 7 Marks Experience between 3 to 5 years – 5 Marks Experience less than 3 years – 0 Marks And Team members having average work experience of 3 years – 3 Marks Less than 3 years but more than 2 years – 2 Marks Less than 2 years- 0 mark	10	
03.	Financial Soundness: Firms / Companies should have average annual financial	Avg. 3 yrs Turnover of Rs.08.00 lakh to ≤10.00 lakhs – 5 marks		

	turnover of Rs 8.00lakhs during the last 3 financial years out of 5 FY (AY 2023-24, 2022-23, 2021-22, 2020-21, 2019-20) {of Lead Partner in case of consortium} N.B - Exception may be considered only for AY 2021-22 (due to Pandemic) (Total Max. Marks- 08)	Avg. 3 yrs Turnover of > Rs.10 lakhs to ≤12.00 lakhs – Bonus 2 marks / Avg. 3 yrs Turnover of more than 12.00 lakhs – Bonus 3 marks.	08	
04.	Experience of works: Completion of similar projects during the last 5 years as per the details given below: One similar work of value not less than Rs. 8.0 Lakh of the estimated cost of work. Or Two similar work each of value not less than Rs. 5 Lakh of estimated cost of work. Or Three similar works each of value not less than Rs. 4 Lakh of estimated cost of work (Total Max. Marks- 12)	For completed works having value ≥ Rs. 8 Lakh - 12 marks for each work – 12 marks For completed works having value ≥ Rs. 5 Lakh <Rs. 8 Lakh – 6marks for each work (Maximum 12 marks) For completed works having value ≥ Rs. 4 Lakh < 5Lakh - 4 marks for each work (Maximum 12 marks)	12	
05.	Technical presentation before the Technical Evaluation Committee (Total Max Marks- 60)	Treatment to storyline of the Multimedia as mentioned below as Note	60**	

Note : A Sample Multimedia:

A small sample multimedia presentation for approximately 2mins on ‘Cyclone’ and a trilingual short script (Bengali, Hindi & English) production details may be designed and developed. (Please refer to point 7 and point G in Annexure D1).

The bidder is required to submit a multimedia and a hardware interface. The multimedia so developed should have an interface to control open source electronic hardware such as arduino.

*** *Breakup of marks in the Technical Presentation:**

The marks distribution for the technical presentation is given below-

1. Soundness of the Technical Solution (Weightage: 12)

Cross-Platform Frameworks Used: Evaluation of whether the agency uses frameworks like Flutter, React Native, or Electron, which allow for cross-platform compatibility, particularly for deployment on single board computers.

Performance on Low-End Hardware: How well does the solution perform on lower-spec devices such as Raspberry Pi or Jetson boards, considering their processing power and memory constraints?

Scalability: Can the software easily scale in terms of functionality and user load without significant changes to the architecture?

Dependency Management: How the software manages external dependencies, ensuring they are up-to-date and secure, minimizing potential vulnerabilities.

Update and Deployment Mechanism: The process for updating the software on devices especially important for standalone applications and single board computers.

2. Modifiability of Content at User End (Weightage: 12)

Content Management System (CMS) Integration: Whether the software includes or integrates with a CMS to allow non-technical staff to update content.

Dynamic Content Updating: Ability to update content (text, images, videos) without needing to restart the application or affect the user experience negatively.

Localization and Accessibility: Support for different languages and accessibility features, allowing updates to cater to a diverse audience.

Version Control and Rollback: Systems in place for version control, enabling easy rollback to previous content versions if needed.

Security Measures for Content Updates: Ensuring that the content update mechanisms are secure from unauthorized access.

3. Richness of Graphical User Interface/User Experience (Weightage: 12)

Intuitiveness: How easy it is for a new user to navigate and interact with the software without instructions.

Adaptability to Different Screen Sizes: The interface's ability to adapt and remain user-friendly across various display sizes.

Consistency in Design: Uniformity in visual elements and interaction patterns throughout the software.

Interactive Elements: Use of animations, transitions, and interactive elements that engage users without overwhelming them.

Accessibility Compliance: Adherence to accessibility standards (e.g., WCAG) to accommodate users with disabilities.

4. Image Processing Capabilities (Weightage: 18)

Accuracy of Image Recognition: The software's ability to correctly identify and process various images under different conditions.

Processing Speed: How quickly the software can process an image and respond to the user, enhancing the interactive experience.

Robustness to Variances: Ability to handle image variances such as lighting, orientation, and partial obstructions.

Integration with Local Server: Efficient and secure mechanisms for transmitting images to and from a local server over WiFi.

Feedback Mechanism: Providing users with immediate feedback (visual or otherwise) upon image submission, indicating successful reception or need for re-submission.

5. Multi-Display Support in Full HD (Weightage: 06)

Resolution Independence: Software's ability to maintain clarity and detail when scaled to full HD resolution across multiple displays.

Aspect Ratio Handling: Capability to handle different aspect ratios without distorting the user interface.

Synchronization Across Displays: Ensuring synchronized content playback across multiple displays when required.

Performance Optimization: Techniques in place to optimize performance and reduce lag when running on multiple FHD displays.

Configuration and Setup: Simplicity of the setup process for configuring the software to run seamlessly on multiple displays.

N.B - All the criteria are to be substantiated with necessary valid documents

** Here the **Similar Works** means: Design and development of interactive multimedia interfaces (standalone data retrieval interfaces having video, audio and music etc. for) for museums, tourist centres or any business centre etc.*

Note: Bidders who are awarded zero marks in any of the item from S.No. 1 to 3 will not be qualified for technical presentation. Bidders must get 12 marks for the item in the S.No.4, else will not be qualified for technical presentation (if organised).

In the event, composite bid scores are "tied", the bidder securing the highest technical score will be declared as the Best Value Bidder for award of the Job

CHECKLIST

Check list of TENDER No. SCCY-18011/08/PUR/2023(157)_____internal file for concept, design and development of 'interactive multimedia presentation' interfaces for 'climate change gallery' at science city, Kolkata.

Sl. No.	Description	Yes/No	Page reference
01.	Whether E-Tender uploaded in Two parts (i.e. Technical & Financial) separately. Please note that one set hard copy of original signed bids and sample Multimedia and documentary video in portable media must be delivered at Science City, Kolkata on or before 25/03/2024(Upto 10:00AM)		
02.	Whether Tender documents carefully studied & understood.		
03.	Whether Tender documents duly signed and stamped on all pages is scanned and uploaded as Cover-1 of the Tender in Central Public Procurement Portal		
04.	Whether Earnest Money of Rs. 25000.00 (Rupees Twenty-five Thousand only) submitted by online / vide Demand Draft No. dated..... and Scanned copy of DD uploaded as Cover-1 of the Tender. Please note that the original DD should be couriered /hand delivered to Science City, Kolkata / online payment details shall be sent to before last date of submission of the tender document.		
05.	Whether Declaration regarding Non-relation, duly signed and stamped, and scanned copy of the same uploaded as Cover-1 of the Tender in central public procurement portal. Annexure – C		
06.	Whether Declaration certifying that there is no extra condition quoted in the Offer Form duly signed and stamped, and scanned copy of the same uploaded as Cover-1 of the Tender in central public procurement portal. Annexure – C		

GENERAL TERMS AND CONDITIONS FOR SUBMISSION OF TENDER

For concept, design and development of 'interactive multimedia presentation' interfaces for 'Climate change gallery' at Science City, Kolkata, the tenderers are required to submit the tender in two covers i.e. Cover-I and Cover – II as per the details given in the point 11 of General Information and Instructions.

1. **PRICE:** The rates quoted/indicated shall include cost as per the details specified in Annexure-D "Technical specification and Scope of Work", in the tender document. The rates of GST and other taxes/levies to be imposed on the quoted rates shall have to be clearly and separately mentioned. Price and rate quoted shall be firm and fixed for the entire period of execution of the work and no escalation of rate on any ground whatsoever shall be allowed.
2. 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 Science City, Kolkata against submission of supporting documentary evidence.
3. The successful tenderer shall submit the following documents within 03 (three) days from the date of placement of Letter of Intent.
 - a. Duplicate copy of Letter of Intent duly signed and stamped as a token of acceptance of the work order.
 - b. Non-judicial stamp paper of appropriate value for preparing the Agreement governing the terms and conditions of the Contract.
 - c. Security Deposit/ Performance Guarantee as detailed in Clause No. 12 of General Terms & Conditions.
4. **TIME OF COMPLETION:** Time is the essence of the tender. The entire work of final Multimedia interfaces supply shall be completed in time bound manner. The entire work shall be completed within **30 (Thirty days)** from the date of placement of Letter of Intent. The tenderer may please note that all the Multimedia interfaces shall have to be completed in the same time frame.
5. For non-compliance of any of the above terms and non-delivery of the tendered item complete in all respects within the above stipulated period, Science City, Kolkata shall either cancel the order or impose penalty as detailed in Clause 6 below. Science City, Kolkata reserves the right to cancel the order and no payment will be made under such condition. Decision of the authority in this regard shall be final and binding on the successful tenderers.

6. **PENALTY CLAUSE:** The successful Tenderer shall strictly observe the time allowed for carrying out the job as detailed in Clause No. 4. The job shall, throughout the stipulated period of the order be proceeded with all the diligence and the successful Tenderer shall pay to Science City, an amount equal to 1% of the amount of the order value for every week that the delivery may remain incomplete as per delivery schedule as stipulated in Clause no. 4, subject to a maximum compensation of 10% of the order value and after that period appropriate action will be taken by the , as it will deem fit.
7. Science City may extend the time of delivery of the tendered job at its discretion on the application of the successful tenderer for such purpose provided that it considers the reasons for such extension as good, sufficient, acceptable and unavoidable.
8. **SCOPE OF WORK:** As per **Annexure – D**
9. **PAYMENT TERMS:**
 - i) No advance payment shall be made by the Science City under any circumstances. Payment shall be released after satisfactory completion of the entire job and within 60 (sixty) days from the date of receipt of Tax Invoice duly supported by receipted challan and satisfactory inspection/work completion certificate issued by the competent authority of the Science City .
 - ii) Payment shall be released through NEFT/RTGS for which details of bank account shall be mentioned in their bill.
10. **COPYRIGHT:** The brief story-line and script provided to the bidders for quoting their rates and the finally developed Multimedia interfaces will be the sole property of Science City, Kolkata. The successful Tenderer under no circumstances will sell, lease, use, lend or donate the Multimedia interfaces, wholly or partly, to any other client. Also, the images, videos and other material to be used in the Multimedia interfaces should be copyright free.
11. In case, the successful Tenderer refuses to accept the offer after finalization or does not comply with the Clause No. 4 as per the finalized and accepted terms and conditions, the order shall be cancelled forthwith without any further reference and the EMD will be forfeited.
12. **Security Deposit/ Performance Guarantee:** Technically lowest successful tenderer shall deposit 5% of the total amount of work awarded at Science City as refundable security deposit in the form of DD after adjusting the EMD already deposited with this NIT, after getting the confirmed order and before

the commencement of work. The security deposit shall be refunded to the successful bidder one year after the completion of work.

13. Every effort should be made to complete the work by the successful Tenderer within the specified time schedule. In case the successful tenderer fails to comply with Clause No.4 i.e., the specified time schedule as per the finalized and accepted terms and conditions Science City shall have the rights to either impose Penalty Clause or cancel the order forfeiting the EMD. The decision of Science City in this regard shall be final and binding on the successful Tenderer.
14. Bad quality of work will not be accepted and if carried out is liable to be rejected and should be rectified by the successful Tenderer at his cost as per specifications and directions given by the authorized representatives of Science City. The decision of the Science City, as to bad quality and proper rectification, will be final and binding on the successful Tenderers.
15. Any ambiguity in the specification / scope of work is detected; it shall be promptly brought to the notice of the Science City for clarifications. The successful tenderer without written approval/permission of the Science City shall make no deviation from the approved specifications.
16. The successful Tenderer shall submit necessary trade and other licenses as may be required to carry on the tendered job and shall also be responsible for compliance at his/her own cost of all rules and regulations, enforced from time to time by the appropriate authorities.
17. The successful Tenderer shall not under any circumstances whatsoever transfer wholly or partly the contract/agreement/Purchase 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, the order/ agreement will automatically stand cancelled.
18. The authorities of the Science City, reserve the right to amend, alter or modify the terms and conditions mentioned above, if necessary, from time to time and also cancel the tender without assigning any reason.
19. Income Tax and Work Contract Tax or any other tax as applicable shall be deducted at source, if applicable, from each bill/claim of firm as per prevailing Government rules.
20. Incomplete offers, i.e. offers received without prescribed "Offer Form" (BOQ), "General Terms of Conditions", Technical Specifications" duly signed on all

pages with official seal may be rejected straightway without reference to the tenderer.

21. Party must have valid **TIN/PAN/GST** Registration number and attach a documentary proof with the Tender.
22. The agency shall take care of all statutory obligations as are required under the Contract Labour Regulation Act, etc.
23. The offer shall be valid for **a minimum period of 3 months from** the date of opening of the tender.
24. The agencies participating in the tender and bidding, may obtain on specific request, details about the outcome of the tender and other related details, if any.
25. **Arbitration** : All disputes and differences between the successful tenderer and the Science City of any kind, except quality of workmanship and materials, whatever arising out of or in connection with the order on carrying out of the work (whether during the progress of the work or after their completion and whether before or after the determination, abandonment or breach of point of 22 (mentioned above) of the terms and conditions of the order) shall be referred to the sole arbitration of a person nominated by the **Director, Science City**, Kolkata whose decision in this regard will be final and binding on both the parties – the successful Tenderer and the Science City. 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.
26. **Force Majeure**: In the event of either party being rendered unable by Force Majeure to perform any obligation required to be performed by them under the contract, the relative obligation of the party affected by such Force Majeure shall be suspended for the period during which such cause lasts. The term "Force Majeure" as employed herein shall mean acts of God, War, Civil Riots, and Fire directly affecting the execution of the work, Flood and Acts and Regulations of the government. Upon the occurrence of such cause and upon its termination, the party alleging that it has been rendered unable as aforesaid thereby, shall notify the other party in writing, the beginning of the cause amounting to Force Majeure as also the ending of the said cause by giving notice to the other party within 72 (seventy- two) hours of the alleged beginning and ending of the cause respectively. If performance under the Lol is suspended by Force Majeure conditions lasting for more than 2 (two) months, either party shall have the option of cancelling the Lol, in whole or in part, at its discretion without any liability on its part.

Time for performance of the relative obligation suspended by Force Majeure shall stand extended by period for which such cause lasts.

SCIENCE CITY
(A unit of National Council of Science Museums)
J.B.S. Haldane Avenue,
Kolkata-700 046, West Bengal, India

Tender No. **SCCY-18011/08/PUR/2023(157)**

DECLARATION-I

This is to certify that I/We have no close relative as an employee in Science City, Kolkata, a unit of National Council of Science Museums (close relatives mean: 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
(With date and Official Seal)

Address:

DECLARATION-II

We, do hereby accept the General Terms and Conditions as provided by the Science City, Kolkata along with tender documents for Concept, Design and Development of 'Interactive multimedia presentation' interfaces for 'Climate change gallery' at Science city, Kolkata, and also undertake to execute the job strictly as per the specifications of Science City, Kolkata as provided along with the tender documents. Science City, Kolkata shall be at liberty to cancel the order in full or in part and forfeit the Earnest Money Deposit or Performance Guarantee retained with them in the event of failure of any of the declaration made by us.

Signature of the tenderer / Constituted Attorney
(With date and Official Seal)

Scope of Work:**Concept, Design and Development of 'Interactive multimedia presentation' interfaces for 'Climate change gallery' at Science city, Kolkata as per the following details:**

All the multimedia presentations will be developed using Unity/ Python/ Visual studio (C#), Adobe AIR, Adobe animate additional technology like HTML5,CSS, Java Script, JQuery, Video editing tools, Sound editing and mastering tools may be required for developing the digital artifacts. This software takes inputs from the touch screen and delivers pre-stored information to the user. Animation, Graphics, Text and Audio will elaborate the relevant data to the user, and the development of all the elements will come under the developer's scope.

These multimedia presentations (as per Table A) will be played on Windows operated computer/ Linux based SBCs with a touch screen / display with specially integrated hardware with electronic interfacing having a minimum of 8GB RAM and a storage space not exceeding 10GB allotted for the multimedia. Science City, Kolkata will provide the hardware. The developer has to provide the executable software / web app.

All artworks and graphics used in the software are included within the scope of work. Necessary music and other Foley audio will be used.

The bidder (agencies/individuals/consortium etc.) must quote for development of Multimedia and production charges including all charges for the following: The work/ cost includes -

Language of the Multimedia/ Video presentation	:	Tri-lingual (English, Bengali and Hindi)	
Story Board for the Multimedia	:	<i>A brief story-line will be provided and bidder/agency needs to prepare a detailed story board on their own.</i>	<i>Approval to be taken in all the steps</i>
Voice-Over	:	<i>Needs to be used where it is necessary (to be specified by Science City, Kolkata)</i>	<i>Approval to be taken</i>
Script for Voice-Over	:	<i>To be prepared by the bidder/agency</i>	<i>Approval to be taken in all the step</i>
Bengali and Hindi Translation	:	<i>To be done by the bidder/agency</i>	<i>Approval must be taken before finalization</i>

Technical Specification of the multimedia:

Development Platforms and Compilation Software (s)	:	<i>The project is supposed to be developed in Unity, Python and Visual studio, Adobe AIR, adobe Animate etc. using animation, image, video and audio, which serve all functionalities. If necessary, any other suitable technique may be used for better results.</i>
Programming Languages to be used	:	<i>Python, C#, JS, PHP etc (if necessary, there should be a scope customize contents, as per our requirement)</i>
Final compilation	:	<i>*.exe or any other extension as applicable (with all resources, if possible, text and graphics/video etc. may be loaded through an external *.xml)</i>
Source file	:	<i>To be supplied to the Science City, Kolkata (order will not be accepted without source file and sourcecodes)</i>
Delivery Date	:	<i>30 days from placement of firm order (may be altered depending upon the job requirement)</i>
Delivery	:	<i>Applications and content completed in all respects, once accepted, must be submitted to the competent authority in the form of physical media.</i>

***N.B - The bidder needs to submit his own design and plan for the said work.**

Brief story-line (see Annexure – D1) for all these Multimedia or mixed media is attached herewith for a better understanding of the work. This will be evaluated by the expert committee and decided by the competent authority of Science City, Kolkata.

Annexure D1

Brief details of the Work (Multimedia interfaces to be developed):

Interactive Multimedia for touch screen kiosk and other modes of presentations (such as Dual Screen Multimedia Presentation, Interactive Hemispherical Projection etc.) are to be designed on the following subjects and title (as per Table A, appended below):

Sl. No	Title of multimedia	Brief description	Remarks (if any)
1.	The Climate Sufferers	<p>This exhibit will focus on the challenges faced by animals in the natural world as they endure the impacts of climate change. Lenticular holograms featuring images of about 24 animals will be placed all around the concave mirror. Along with this static display, a touchscreen will be used to explain the exhibit.</p> <p>The visitor will use the touchscreen (that will have the image of the exhibit, i.e the eye) to select one of his/her preferred blinking images of the animal. The image, required information, and video for the animal/plant that was selected by the visitor will be displayed on the touchscreen. While the content for the selected animal is being viewed, the “eye” icon will remain minimised and inactivated at the top of the screen. Once the video gets completed, the eye will get activated and the visitor can opt for a next round.</p>	This multimedia will have 30% video, 30% image, 20% text and 20% animation.
2.	The Carbon Emitters	<p>a. Peaking C-emissions has aggravated an increasing trend in temperature. Exhibit will have a structure that features "CO₂" in block letters. The letter "O" will be covered by an oval screen. Through this window the visitor can watch a brief animated video, using holographic projection, of the world that shows CO₂ emissions (bar graphs projected outwards from different countries of the world) vis a vis years. Major developments like Industrialization, advent of automobiles, World wars etc that has resulted in a spike of CO₂ will also pop out corresponding to the respective years.</p> <p>b. In addition, a separate touchscreen with relevant texts and graphs will be present. For developing this data, the data from the Keeling curve will be used as a source and a musical symphony will be developed where the visitor can hear the shrillness of the music as he passes from the past to the present. This music will become very shrill as we project the same into the future.</p>	This multimedia will have 30% video, 10% image, 10% text and 50% animation.

		<p>#Another aspect to be covered is the cumulative emission of CO₂ over the ages by different countries across the timeline, starting from 1750.</p> <p>#The major sources of CO₂ emissions will also be highlighted so that the visitor understands the source of this ever-increasing CO₂, in the atmosphere.</p>	
3.	Melting Poles	<p>This exhibit will showcase the changes seen at the poles. A video will be shown comparing the old and modern lifestyle of eskimos, as the Arctic ice has started to melt, on a 4x4 video wall. The video will be playing in a loop. Another video will show the receding summer ice line, as witnessed through satellite imagery.</p> <p>These two videos will be played separately, when triggered by an external switch.</p>	This multimedia will have real videos as well as animation of receding ice lines.
4.	Wave Tank (Sea level rise)	<p>Average global increases in temperatures have led to a significant rise in sea levels and this is concerning as the coastal cities face a threat of being submerged with passing time. The exhibit will feature a water tank initially filled with water to a specific level. Visitor B, standing in front of the exhibit, will observe Visitor A standing behind the water tank, creating the illusion that Visitor A is standing in shallow water. Visitor A presses a switch that indicates a future year. Selecting that option will trigger a mechanical animation and the water level will rise considerably.</p> <p>There will be a touch screen in front of the exhibit that visitor B will be using. The touch screen will display multimedia content showcasing cities in India as well as World that are at risk of submerging due to rising sea levels.</p> <p>This interactive visual display will demonstrate that we are really in deep waters! The touchscreen will function as a flipbook, allowing visitors to compare the present vs future scenarios for coastal cities on the map by using numerical indicators under moderate and extreme carbon emissions.</p>	This multimedia will have AI generated videos/images that will showcase the futuristic situation of the different places of the World.
5.	Heat waves	<p>A multi-touch table illustrating the consequences of heatwaves will be present.</p> <p>(i) An interactive Heat Index calculator will be made that will allow visitors to input temperature and humidity values, of their choice, to calculate the heat index. That result could be linked to the impact of the heat index on human health through animated graphics, demonstrating symptoms of heat-related illnesses at different ranges of heat index.</p> <p>(ii) Data on global wildfire incidents could be used to prepare interactive maps to showcase the geographical distribution of wildfires over time. It can incorporate filters and overlays to highlight factors such as severity, causes,</p>	This multimedia will have animations, texts, some real videos of heat waves, forest fires etc along with supporting texts.

		<p>and affected regions.</p> <p>(iii) A time-frequency frame of Heatwave incidences has to be made to illustrate the frequency and intensity of heat waves over the years. This will enable the visitor to understand how the incidences of heat waves have increased in recent times, with the advent of climate change.</p> <p>(iv) Interactive displays using 3D bar graphs can be used to represent the increase in electricity demand and costs, and increase in AC sales over the past 8-9 years. This visual representation will allow visitors to comprehend the economic implications that he/she might directly feel as a consequence of climate change.</p> <p>(v) Animal migration could be a potential effect of increasing heatwaves. An animation could be provided where animals could be shown migrating to higher elevations, in search of suitable habitat and weather. The entire presentation would be in the form of multitude of options for multiple visitor interactions.</p>	
6.	Bird migration	Climate change induced habitat loss affects migratory birds. A diorama will be made with 3D models of 10 migratory birds. A touch screen kept beside the exhibit will feature audio outputs of their calls and video outputs of their behaviours along with a small supporting text.	This multimedia will have 50% audio & video, 30% images, 20% text.
7.	Cyclones	<p>The proportion of severe Tropical Cyclones (category 4 & 5) has increased, possibly due to anthropogenic climate change. This proportion of intense TCs is projected to increase further, bringing a greater proportion of storms having more damaging wind speeds, higher storm surges, and more extreme rainfall rates. In future, the cases of severe cyclone will increase manifold.</p> <p>An animation of the formation of a mega cyclone like 'Amphan' will be shown using back projection, where the entire life cycle of the cyclone would be seen, along with trilingual script explaining the inter-relationship of climate change with cyclones.</p>	Multimedia with 90% animation and 10% text. The video will be developed in portrait mode.
8.	Vanishing ice	A movie will showcase a thick glacier slowly melting as a consequence of rising global temperatures. Melting ice will be accompanied by the sound of dripping water to give a more realistic view. This movie will be played using back projection and it will be shown between two parallel mirrors to create an infinite number of reflections that will amplify the visual effect.	The multimedia will just have videos.
9.	Heritage under siege	5-6 important heritage structures around the globe have been selected that are affected by a changing climate. 3D fiberglass models of these structures will be created and a touchscreen will be kept in front of them to present the	This multimedia will have videos and texts.

		story of each one. Individual videos for each structure will depict how climate change threatens them. Visitor will use the touchscreen to pick the video of his/her choice.	
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Brief story-line

Sl. No	Title of multimedia	Brief story-line
A.	The Climate Sufferers	<p>Human activity, the consumption of fossil fuels, the acidification of the oceans, pollution, deforestation, and forced migrations threaten life forms of all kinds. It is estimated that one-third of corals, freshwater molluscs, sharks, and rays, one-fourth of all mammals, one-fifth of all reptiles, and one-sixth of all birds are heading towards extinction. The previous five extinctions had occurred over the last 450 million years, due mainly to meteorites and volcanic eruptions. The sixth extinction, however, has to do with human beings. A study by the University of Connecticut (United States), published in the Science journal, indicates that climate change is accelerating this, as climate change by itself will cause the disappearance of nearly 8% of the current species.</p> <p>Ample evidence demonstrating the reduction in the natural biodiversity of our planet can be found in the Red List of Threatened Species, from the International Union for Conservation of Nature (IUCN). In its 2017 edition, this list now includes 42,100 endangered species out of 150,388 assessed</p> <p>There are many animals and plants which are on the brink of extinction, primarily due to climate change. Even though scientists could ascertain few of these extinctions primarily to climate change, there might be many which are yet to be recorded.</p>
B.	The Carbon Emitters	<p>Historically, carbon dioxide (CO₂) emissions from different countries have increased significantly since the Industrial Revolution began in the mid-18th century. However, the pace and magnitude of this increase have varied among countries depending on their level of industrialization, population size, and energy consumption.</p> <p>The following are some key points in the history of CO₂ emissions from different countries:</p> <p>The United Kingdom was the first country to industrialise, and its CO₂ emissions began to increase in the mid-19th century. The UK was the world's largest emitter until the early 20th century, when the United States surpassed it.</p> <p>The United States became the world's largest emitter in the early 20th century and has remained so ever since. The US accounted for almost a third of global emissions in 2019, despite having only about 4% of the world's population.</p> <p>Other developed countries in Europe and North America also experienced significant increases in emissions during the 20th century, as they developed and modernised their economies.</p> <p>China's emissions began to rise rapidly in the late 20th century, as the country underwent a period of rapid economic growth and industrialization. China became the world's largest emitter in the early 2000s and has remained so ever since.</p> <p>Other developing countries, such as India, Brazil, and Indonesia, have also seen their emissions rise in recent decades as they have industrialized and modernized their economies.</p>

		Overall, global CO ₂ emissions have increased by more than 400% since the mid-20th century, driven largely by the growth of industrialized economies and the increasing use of fossil fuels for energy.
C.	Melting Poles	<p>“What happens in the Arctic doesn’t stay in the Arctic”.</p> <p>The Arctic is nearing that tipping point. Nearly five months after Antarctica’s high temperature record, the Siberian city of Verkhoyansk reached a searing historical high of 38°C (100.4°F) on June 20, 2020, heralding a summer of extreme heat and wildfires in a region better known for ice storms. Overall, 2020 marked the hottest year on record for both poles, and both the Arctic and the Antarctic saw precipitous declines in sea ice. When there isn’t enough ice to reflect the sun’s rays back into space, that heat is absorbed by the dark ocean, accelerating rising water temperatures and ice melt, altering ocean currents, weakening the jet stream, and changing wind patterns. The effects ripple through the global ecosystem, manifesting in greater drought, heat, floods, and storms.</p> <p>The Inuit people had a nomadic existence, using tents for temporary shelter or living in turf houses or igloos that they constructed. As the sea ice melts, they are relocating inland and constructing new homes. After being forced to give up their nomadic hunting lifestyle, many Inuit people now reside in towns and cities and work in mines and oil fields. They now consume cooked meals instead of raw meat. And for those who still hunt, rifles have mostly taken the place of harpoons, and dogsleds have been replaced by snowmobiles. Kayaks were traditionally paddled with whalebone paddles, but now they are powered by engines.</p>
D.	Wave Tank (Sea level rise)	<p>Global sea level rise has been accelerated by the effects of global warming and climate change. Since the 1880s, there has been a significant increase in sea-level by about 8–9 inches. This rise is primarily attributed to the melting of glaciers and ice sheets worldwide which adds up to the entire water content in our oceans. Secondly, water expands on heating, so the rise in average temperature of the earth leads to the expansion of seawater volume.</p> <p>But what could be the consequences of this sea-level surge?</p> <p>Along coastlines, urban areas face an imminent danger of submersion as there’s a possibility of rising seas to encroach upon the roads, bridges, and power plants. High-tide flooding could be exacerbated by higher sea levels and that pose a constant risk. Rising tides are known to devastate lives. This could affect the local population residing there. As homes and communities become inundated, a significant number of people may be displaced from their homes and that would bring in the need of rehabilitation and support. This would put immense pressure on the already strained local economies and lead to a cascade of crises.</p> <p>But how much and by when will the cities get submerged depends on the future rates of GHG emissions.</p> <p>According to a NOAA analysis published in 2022, even with the lowest possible GHG emissions and warming, global mean sea level will increase by at least 0.3 metres, and with extremely high rates of emissions, a 2 metre rise in sea level will occur by 2100.</p>
E.	Heat waves	A heat wave can be defined as a prolonged period of excessive hot weather, often

		<p>accompanied by high humidity, lasting several days. Climate change makes heatwaves hotter and more frequent.</p> <p>The heat index considers air temperature and humidity. High humidity inhibits sweat evaporation, making us feel hotter. Lower humidity aids sweat evaporation, making us feel less hot. As temperature and humidity rise (or fall), so does the heat index, affecting how hot or cool we perceive the weather. Heat waves are more dangerous when combined with high humidity. Humans may experience a variety of physiological effects depending on the heat index value, including exhaustion, heat cramps, heat stroke, and more.</p> <p>Wildfires have been a natural occurrence throughout history, often sparked by lightning. Climate change has increased hot and dry conditions which have enabled any fire to spread more quickly, burn longer, and rage with greater intensity. Warmer temperatures also sap plants of moisture, converting them to dry fuel that facilitates the spread of flames.</p> <p>Climate change impacts individuals directly through various economic factors. The increased demand for air conditioning units contributes to higher energy demands, which in turn increases the average cost of electricity supply. These highlight how climate change not only affects the environment but also has effects on daily life and household expenses for individuals.</p> <p>Reports show that animals and some plants are moving along the higher altitudes, to run away from exceeding heat wave. This, in turn, is leading to the introduction of new species away from their natural habitat.</p>
F.	Bird migration	<p>Many birds migrate seasonally to areas with less harsh weather and more food resources in order to increase their chances of survival and reproduction. Flyways are areas used by a group of birds that include breeding areas, stop-over areas and wintering areas. The Central Asian Flyway (CAF), one of nine global flyways, has seen a rapid decline in migratory land birds. These birds have to cross the mighty Himalayan ranges to reach their wintering grounds in different parts of India. Long-term datasets show that CAF migratory land birds are declining rapidly. Anthropogenic activities have had a significant impact on the loss of habitat of these birds and climate change is another pressing concern that is adding up to the cause. Research and monitoring efforts are going on to model the effects of climate change on migration patterns.</p>
G.	Cyclones	<p>Cyclones are formed when there is a significant temperature difference between a warmer ocean and a colder atmosphere. However, with a warming climate, this temperature difference is more likely to decrease as the ocean temperatures increase, leading to a predicted decrease in the number of tropical cyclones. It is predicted that due to climate change the cyclones will be more severe due to climate change.</p> <p>Typically, a cyclone churns the water and weakens as it moves ahead to find warmer water to fuel itself.</p> <p>However, as the ocean warms deeper, the cyclone moves slower because it is fuelled by the moisture of the warm ocean. The slower the process of cyclone development,</p>

		<p>the faster it will intensify, wreaking more havoc after landfall.</p> <p>Additionally, these intense cyclones will be associated with more rainfall and storm surges, significantly impacting coastal communities.</p>
H.	Vanishing ice	<p>The polar regions serve as a sensitive indicator of climate change. As the earth's average temperature rises, the melting of ice sheets in Greenland and Antarctica could lead to significant sea level rise thereby posing a threat to the coastal cities. Antarctica is experiencing a loss of approximately 150 billion tons of ice annually, whereas Greenland is losing roughly 280 billion tons each year. From the Swiss Alps to the glaciers in the Garhwal Himalaya in India, iconic snows are melting due to the effects of climate change. The influx of freshwater from molten ice has the potential to alter ocean and atmospheric circulation patterns, impacting weather patterns in even distant urban areas. This loss of glacial ice also leads to a scarcity of freshwater available to plants and animals.</p>
I.	Heritage under siege	<p>(i) Rising sea levels in the Pacific pose a significant threat to Easter Island (Rapa nui), leading to coastal erosion that can damage and potentially wash away the iconic Mo'ai statues.</p> <p>(ii) The historical port city of Kilwa Kisiwani in Tanzania faces threats from climate change, particularly rising sea levels, heavy rainfall and subsequent drier weather impacting the structural stability of the heritage structures.</p> <p>(iii) The historic mosque city of Bagerhat in Bangladesh faces a threat from excessively high levels of salt in the soil and water. Due to rising sea levels, saltwater intrusion occurs into the buildings, and as the water evaporates, salt residue accumulates within the structures, making them vulnerable to deterioration.</p> <p>(iv) Chan Chan, Peru, faces climate challenges like increased precipitation and El Niño-induced erosion, harming its adobe architecture. Rising water tables threaten site integrity.</p> <p>(v) Edinburgh, Scotland's capital since the 15th century, faces significant climate-related pressure, including extreme weather and increased rainfall. Aging roof structures and drainage systems are struggling to handle intensified stormwater. Most buildings are made from porous sandstones and increased wetting and drying increases the decay of these stones.</p>

SCIENCE CITY
(A unit of National Council of Science Museums)
J.B.S. Haldane Avenue,
Kolkata-700 046, West Bengal, India

Tender No. **SCCY-18011/08/PUR/2023(157)**

TECHNICAL (Techno-Commercial) BID

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

TECHNO-CHECKLIST

Sl. No.	Title Submitted	(Yes / No)
01.	Form – 1: Application Form	
02.	Form – 2: Proposer's Experience	
03.	Form – 3: Sample Story Board and Script [Please see Proof of Concept (PoC)]	
04.	Form – 4: Sample CD/potable media of earlier work/s	
05.	Form – 5: Details of key personnels	

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

Date:

Signature of the Tenderer/
 Constituent Attorney with Official Seal

FORM – 1

Sl. No.	Particulars	Details
1.	Name of Proposer	
2.	Name of the firm/company	
3.	Complete Address for communication (Address with pin code, telephone numbers, fax no and emails)	
4.	i. Phone /Mobile Number ii. Email Id	
5.	Legal status of Organization Is it a registered Firm/company? <i>(If a partnership firm, state the name/s and address/es of your partners. If company, state the names and addresses of Directors, photocopies of the certificate of registration should be attached)</i>	Yes/No
6.	i. PAN Number ii. GST Registration No. iii. Average Financial Turnover of the Firm/ company during 3 out of last 5 years <i>(Please see Annexure – G also)</i>	
7.	Brief Description of the Proposer's Activities	Please add extra sheet, if necessary
8.	Number of years' experience in similar works <i>(Attached work orders of earlier works with other government departments/autonomous bodies /PSUs and other)</i>	
9.	Number of Multimedia interfaces developed (for Museums/Science Centres/Cultural Centre/Tourist centres/Business Houses etc.)	
10.	Has the Agency/ its sister concern/any director ever been blacklisted/defaulted by any organization? If yes, please provide details thereof	
11.	Bank details of the Tenderer with IFSC and other details (for releasing payment through digital mode)	
12.	Whether agreed to accept Payment Terms as per clause 9 of General Terms & Conditions of the Tender. (Please mention 'Yes' or 'NO')	
13.	Minimum time required to complete the tendered item at Science City, Kolkata	
14.	Whether agreed to complete the work as per scope of work (Annexure-D) positively by 30 days as per clause 4 of the General Terms & Conditions of the Tender (Please mention 'YES' or 'NO')	
15.	Details of enclosed EMD (for Rs. 25,000/- only)	Online Transfer..... DD No dated drawn on bank.....
16.	Any other relevant information	

FORM – 2

PROPOSER'S EXPERIENCE

1. Brief description of the proposer's activities related to development of Multimedia interfaces (attach separately) in the last five years

Sl. No.	Name of the Multimedia interface (interactives)	Development Platform	Output format	Organization for which produced	Copy of the work order / documentary proof

2. Experience in the production of video films/documentary on Indian science & technology/ Art & Culture/or any other promotional video etc. in last five years:

Sl. No.	Name of the Production	Year of Production	Format	Duration	Language	Organization for which produced	Copy of the work order / documentary proof

3. Awards, certificates and accolades received

Sl. No.	Name of the Award	Details	Year

4. Agency Experience in similar works in past 5 years (Private/PPP/Joint Venture/Consortium Projects) Agency must submit the work order and completion certificate for the projects

Sl. No.	Name of the Project	Cost of the Order	Name of the Client	Phone of Contact Person of Client	Starting Date of Project	Completion Date of Project	Any other relevant details

SIGNATURE OF THE PROPOSER WITH STAMP

Form – 3

TREATMENT AND APPROACH

Sample Story Board & Script

Instructions: Enclose a detailed sample Story Board and script for proposed film/s which may include description of contents, visuals, music etc. [*Please see Proof of Concept (PoC)*]

Present the treatment and approach to be adopted for the film/s. Give a detailed description of how a typical Multimedia interface and the animation-based film would look like. The treatment should not exceed 3 pages for the story board for the multimedia interface and 2 pages for the animation-based documentary.

SIGNATURE OF THE PROPOSER WITH STAMP

Form – 4

SAMPLE CD / PORTABLE MEDIA OF EARLIER WORKS

Sample copy of earlier works (maximum 5 such) developed by the applicant

I/ We enclose a sample works developed by our firm/ agency titled_____for _____in DVD/ portable media (to be delivered physically or electronically)

1. Name of the Multimedia interface or similar work:
2. Year of production:
3. Brief description (not more than 100 words for each)
4. Awards/ accolades won, if any:
5. Any other information:

SIGNATURE OF THE PROPOSER WITH STAMP

Form – 5

KEY PERSONNELS FOR THE PROJECTS APPLIED FOR

1. Name of the Head of the Creative team :
2. Name of the subject expert(s) :
3. Name of the Story Writer(s) :
4. Name of Graphics Developer (s) :
5. Name of the programmer (s) :
6. Motion graphics, VFX Animation Studio/Member(s):
7. Render farm and Sound studio (may be in-house) :
8. Other personals in creative team :

(Please attach separate sheets in the following format for sl no. 1 to 5)

- a. Name of the expert:
- b. Address:
- c. Contact Number:
- d. Educational qualifications:
- e. No. of year of working experience:
- f. Brief background of the Head of the creative team/other experts:

SIGNATURE OF THE PROPOSER WITH STAMP

DECLARATION ON REGISTRATION AS MSME

(Following declaration to be provided by the Bidder on the Company letterhead) This is to certify that
our Company (Name of the Company) located at (Address of the Company) has registered as MSME.

The details of registration are provided below:

Sl. No.	Particulars	Details
1.	Name of the Vendor / Company	
2.	Date of incorporation	
3.	Udyog Aadhaar Number	
4.	GST Number	
5.	PAN Number	
6.	Type of Enterprise	Micro / Small / Medium
7.	Major Activity	
8.	Type of Organization	Proprietary / Hindu Undivided Family / Partnership / Co-operative / Private Limited Company / Public Limited Company / Self Help Group / Limited Liability Partnership / Society / Trust / Non-MSME (not a MSME)
9.	Have your investment in plant and machinery crossed the prescribed limits of MSME Act	Yes / No Value (for MSME only):
10.	Copy of Udyog Aadhaar	Yes / No (for MSME only):
11.	Annual ceiling amount upto which they can take contract under MSME	
12.	Value of orders already at hand as on date of application	

I / we undertake to keep the Science City, Kolkata informed if at any point in future, we cease to become MSME vendor or change in category as per the extant rules and such disclosures is entirely our responsibility. Until then, the company does not hold Science City, Kolkata as responsible for any issues related to MSME

Date:

Signature of Authorized Person with Company Seal

**FORMAT FOR ANNUAL TURNOVER AS PER THE AUDITED
ACCOUNTS TOWARDS THE QUALIFYING EXPERIENCE**

Sl. No.	Assessment Year	Turnover in INR
01.	2023-24 (FY 2022-23)	
02.	2022-23 (FY 2021-22)	
03.	2021-22 (FY 2020-21)	
04.	2020-21 (FY 2019-20)	
05.	2019-20 (FY 2018-19)	

(In case of Consortium, the Turnover of only lead partner needs to be mentioned)

(Signature of Authorised Signatory)

This is to certify that the above information has been examined by us on the basis of relevant documents; books of accounts & other relevant information and the information submitted above is as per record and as per details annexed.

Signature, Address, Seal & Membership No of Chartered Accountant.

FORMAT FOR ARTICLES OF AGREEMENT

INSTRUCTIONS (not to be typed in Agreement)

(Articles of Agreement have to be typed on non-judicial stamp paper. The value of the stamp paper varies from state to state and is to be known from the particular place. The stamp paper will be purchased by the successful bidder and submitted to Science City, Kolkata for execution as per the format given below.)

ARTICLES OF AGREEMENT made at

.....

 (Place)
 this..... day of
 (Date) (Month & Year)
 between the

.....

 (Science City, Kolkata, a unit of National Council of Science Museums) (a Society registered under the Societies Registration Act of West Bengal, 1961), which expression shall include its successors and assigns on the one part and

..... (Name of
 the successful bidder) trading in the name and style of

.....
 (Name and complete address of the successful bidder) hereinafter referred to as the successful bidder which expression shall include his/their respective heirs, executors, administrators and assigns on the other part. WHEREAS the Science City, Kolkata is desirous of getting the work of

..... thereindone and has caused
 (Name of the work) Notice Inviting E-tender (Including appendix), drawings, schedule of quantities and specifications describing the work and conditions of contract to be prepared by

AND WHEREAS the said NIT (including appendix) drawings as per list attached, specifications and the priced schedule of quantities and conditions of contract have been signed by or on behalf of the parties hereto. AND whereas the Successful bidder has

deposited in Bank Draft/Pay Order/
NEFT/RTGS.....

(Exact amount in words) the amount being 10% of the ordered value of the e-tender) with Science City, Kolkata as Security Deposit/ Performance Guarantee for the due performance of this Agreement as provided in the said conditions.

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

1. In consideration of the payments to be made to him as hereinafter provided the successful bidder shall upon and subject to the conditions herein contained execute and complete the work within..... days/months from the date of issue of letter of intent / Work Order (as defined in the scope of work of the NIT) and as per the said drawings and such further detailed drawings as may be furnished to him from time to time and described in the said specifications and the said priced schedule of quantities along with the progress of the building work.
2. Science City, Kolkata shall pay to the successful bidder such sum as shall become payable hereunder at the time and in the manner specified in the said conditions.
3. Time is the essence of this agreement and the successful bidder shall proceed with the work, throughout the stipulated period of this contract, strictly according to the CPM/PERT/BAR CHART attached herewith and forming a part of this agreement. At any stage during execution, if any work lags behind the target as indicated in the CPM/PERT/BAR CHART for reasons directly attributable to the successful bidder, he shall pay or allow Science City, Kolkata to deduct from any money due to him a liquidated damage as per Penalty Clause 6 of the General Terms and Conditions of contract.
4. This agreement comprises the work above and all subsidiary works connected therewith, even though such works may not be shown on the drawings, or described in the said specifications or the priced Schedule of Quantities.
5. Science City, Kolkata reserves to itself the right of altering the drawings 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.
6. The General Terms and Conditions, Scope of Work, Bill of Quantities etc. that are part of the tender document for this work will form an integral part of this agreement.
7. All disputes and differences of any kind 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 42 contract) shall be referred to arbitration as per Clause 25 of General Terms and Conditions of contract (Annexure – B). In case of any legal dispute, other than the arbitration, the court of jurisdiction shall be at the place written in the first line of this agreement.

FORMAT FOR THE CONSENT LETTER FROM TEAM MEMBERS

I _____, voluntarily agree to participate in the project if _____ is awarded the work of concept, design and development of 'interactive multimedia presentation' interfaces for 'climate change gallery' at Science city, Kolkata.

I understand that if I agree to participate now, I cannot withdraw from the project or refuse to work without any consequences of any kind, except under exceptional circumstances.

I understand that I can withdraw from the project, under the justifiable exceptional circumstances, with minimum of two weeks' notice, only with the approval of the authority of Science City, Kolkata.

I understand that my participation involves [outline briefly in simple terms what will be your specific work for this project]

I understand that no financial or other benefit, directly or indirectly, will be given to me by Science City for participating in this project.

I understand that in any report on the results of this project my identity will remain anonymous and no credit for this project will be directly attributed to me.

I understand that I will have no claim on the content that I will provide for this project as an expert.

I understand that I am free to contact any of the people involved in the project to seek further clarification and information.

Signature & Seal (if any) of the Expert

Signature & Seal of the Bidder (Name and Designation of Expert)

Bills of Quantities (BoQ)

Tendering Authority: Science city, Kolkata

Name of the Work: CONCEPT, DESIGN AND DEVELOPMENT OF 'INTERACTIVE MULTIMEDIA PRESENTATION' INTERFACES FOR 'CLIMATE CHANGE GALLERY' AT SCIENCE CITY, KOLKATA

Name of the Bidder/bidding firm:

Price Schedule							
Sl. No.	Item Description	Qty.	Basic Rate in fig.	GST%	Total Amt. without GST	Total Amt. with GST	Total Amount in word
1.	The Climate Sufferers						
2.	The Carbon Emitters						
3.	Melting Poles						
4.	Wave Tank (Sea level rise)						
5.	Heat waves						
6.	Bird migration						
7.	Cyclones						
8.	Vanishing ice						
9.	Heritage under siege						

Bidders are requested to quote rates for all the individual items. Overall total financial offer in respect of all the items taken together, shall be considered for Financial evaluation, through QCBS method.