



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**

**FABRICATION, SUPPLY AND INSTALLATION OF FIBERGLASS (FRP) MANNEQUINS, MODELS,
SCULPTURES, DIORAMA AND PAINTINGS 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.

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:

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: 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

TENDER No. SCCY-EX-2023-24 (108)

NOTICE INVITING e-TENDER

Name of the work: **FABRICATION, SUPPLY AND INSTALLATION OF FIBERGLASS (FRP)
MANNEQUINS, MODELS, SCULPTURES, DIORAMA AND PAINTINGS FOR 'CLIMATE CHANGE
GALLERY' AT SCIENCE CITY, KOLKATA**

The Science City, Kolkata is a constituent unit of National Council of Science Museums (NCSM), an autonomous organization under the Ministry of Culture, Government of India.

Online Digitally signed tenders are hereby invited under two Bid System from the experienced, competent and eligible agencies who satisfy the eligibility criteria enumerated in the Tender Document for fabrication, supply and installation of fiberglass (frp) mannequins, models, sculptures, diorama and paintings for 'Climate change gallery' at Science City, Kolkata

Interested agencies may download the Tender Document from the Central Public Procurement Portal (CPPP) [<https://eprocure.gov.in/eprocure/app>]

Important Dates :

Bid Document Published Date	10.01.2024, 1800 hrs
Bid Document Download Start Date	11.01.2024, 0900 hrs
Bid Clarification Start Date	11.01.2024, 0900 hrs
Bid Clarification End Date	15.01.2024, 1800 hrs
Pre Bid Meeting	17.01.2024, 1130 hrs
Bid Submission Start Date	20.01.2024, 0900 hrs
Bid Submission End Date	30.01.2024, upto 1800 hrs
Technical Bid Opening Date	31.01.2024, 1130 hrs
Date of Technical Presentation to be made at Science City, J.B.S. Haldane Avenue, Kolkata-700 046, West Bengal, India (Shall be communicated Only to the eligible bidders)	06.02.2024, 1100 hrs
Financial Bid Opening date	Shall be communicated later on
Estimated Cost	63,63,300/- (excluding 18% GST+ 1% labour cess)
Earnest Money Deposit	1,59,083/-

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 on the scheduled date for technical evaluation. Bidders who qualify the technical criteria will be called for technical presentation. In the second stage, **the Financial Bids of only the selected and technically qualified bidders (in all respects) will be opened**. Decision of Science City, regarding selection of eligible and technically qualified bidders shall be final and binding on the bidders.

GENERAL INFORMATION AND INSTRUCTIONS :

1. Bidders are advised to visit the site at Science City, Kolkata premises and ascertain the nature and quantum of work before tendering.
2. Details of Tender fee, EMD, submission of tender, etc. are indicated in the Tender Document.
3. Science City, Kolkata reserve the right to amend / withdraw any of the terms and conditions in the Tender Document or to reject any or all Tenders without giving any notice or assigning any reason. Science City, Kolkata shall also not be bound to accept merely the lowest tender but the *superior workmanship and fineness of the fibreglass (FRP) work shall be of prime consideration for selection.*
4. The instructions given herein will be strictly binding on the bidders and deviation, if any will make the Tender liable to be considered invalid. Tenders incorporating additional conditions by the bidder are liable for rejection.
5. Bids shall be submitted online only at CPPP website: <https://eprocure.gov.in/eprocure/app>. Manual bids shall not be accepted.
6. The instructions given in "Instruction for Online Bid Submission" should be strictly followed during submission of the Bid.
7. Bid documents may be scanned with 100 dpi with black and white option which helps in reducing size of the scanned document.
8. Bidders who are interested to participate should meet the eligibility criteria and submit their duly completed Tenders along with all the required documents in support of their eligibility qualification.
9. If at any stage, it comes to the notice of Science City that any successful/qualified bidder had misrepresented the facts/falsely claimed any qualification while submitting his tender or at any time subsequently, the agency will be disqualified. And in any such instance, Science City, Kolkata also reserves the right to take any further action against such bidder under law.
10. **Earnest Money Deposit (EMD) :**
 - (a) The bidders shall be required to deposit a sum of **Rs. 1,59,083/- (Rupees One lakh fifty nine thousand and eighty three 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.
 - (b) 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-‘D’** of the e-NIT.
 - (c) EMD of the unsuccessful Tenderer(s) shall be refunded without interest on written request within thirty days from the date of opening of the tenders. EMD of the successful bidder shall be returned upon acceptance of the Work Order and after receipt of the prescribed Security Deposit/Retention Money.
 - (d) **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.
- (e) EMD shall be forfeited and proposal of bidder shall be cancelled in the following cases:
 - a. If any information or document furnished by the bidder turns out to be misleading or untrue in any material respect.
 - b. 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 – 'J'**.
9. The Bids should **remain valid for 90 days** from the date of opening of financial bid.
10. 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.
11. 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.
12. The Bidders shall fill up the Prescribed Format for submission of Technical Bid as per **Annexure-'A'** format duly signed by the authorized signatory. The person signing the Tender Document should be authorized for submitting the online e-tender.
13. The Financial Bid shall be filled in and signed by the authorized signatory online as per format **Annexure-'B'** **available at Central Public Procurement Portal** website <https://eprocure.gov.in/eprocure/app>.
Offline Financial Bid shall not be accepted.
14. Bid documents may be scanned with 100 dpi with black and white option which helps in reducing size of the scanned document.
15. **The tenderers/bidders should fulfil the following eligibility criteria :**

The agency must fulfil the criteria mentioned below and submit the documents in support of the following:

Financial:-

- (a) **Average Financial Turnover during the last 03 (three) years should be at least 80%** of the estimated cost put to tender during the immediate last three consecutive financial years.
- (b) Trade License, Valid GST Registration and PAN no. in the name of Agency/ Proprietor.

Technical:-

- (a) Registration/Empanelment with other Govt. Departments/Agencies, if any. Please provide proof of registration / empanelment.
- (b) The agency should have experience of having successfully executed **similar works** with Central / State Govt. Departments, PSUs, Autonomous Bodies, Reputed Private Sector, **during the last 07 (seven) years** ending previous day of last date of submission of tenders -

3(three) similar completed works (at least one of them should be in Central Government / Central Autonomous Bodies/ State PWD/ Central Public Sector Undertakings, Reputed Private Sector), each costing not less than **40%** of estimated cost.

OR

2(two) similar completed works (at least one of them should be in Central Government / Central Autonomous Bodies/ State PWD / Central Public Sector Undertakings, Reputed Private Sector), each costing not less than **60%** of the estimated cost.

OR

1(one) similar completed work (it should be in Central Government / Central Autonomous Bodies/ State PWD / Central Public Sector Undertakings, Reputed Private Sector) of aggregate cost not less than **80%** of the estimated cost.

Note: Similar Completed work shall mean work of executing of executing of fibreglass (FRP) Mannequins, Models, Sculptures, Diorama and Painting works etc. in reputed Museums / Monument / Parks / Public places / Memorial / Heritage places / Ethnic/ Cultural spaces / Art galleries / Spiritual places and other similar spaces at International / Central / State level.

Tender must be uploaded in two separate covers marked Cover-1 (Technical Bid) and Cover-2 (Financial Bid/BOQ).The contents of Cover-1 and Cover-2 shall be as follows:-

Cover -1 (Technical Bid envelope)

- i) "Technical Bid" (as per **Annexure-‘A’** format) duly filled in and digitally signed with official stamp containing Scanned copies of documents of EXPERIENCE CERTIFICATES / **WORK COMPLETION CERTIFICATE** along with **Work Order/Letter of Intent** issued by Govt./Semi-Govt./ Autonomous/PSUs/Municipal Bodies/Corporate Bodies and/or Corporate firms of repute as per the e-NIT and other relevant document in PDF format.
- ii) Copy of PAN/GST Registration Certificate/Trade License
- iii) Scanned copy of Income tax returns for last 3 years (**20-21, 21-22, 22-23**) in .pdf format.
- iv) Audited Statements of Profit & Loss Account and Balance Sheet of the bidder for last three years (**20-21, 21-22, 22-23**) along with brief summary of average annual turnover duly certified by authorized Chartered Accountant as per the **Annexure-‘H’**.
- v) All relevant documents related to "Technical Bid" as per **Annexure-‘A’**.
- vi) A scanned copy of Demand Draft / Pay order / Banker's Cheque of any Nationalised/Scheduled Bank issued in favour of **Science City, Kolkata** payable at Kolkata towards **Earnest Money Deposit (EMD)** in .pdf format and submit physical Demand Draft/Pay Order/Bankers Cheque at the Science City within the bid submission date and time.

EMD can also be deposited by electronic fund transfer mode through RTGS/NEFT to the bank account of Science City. In case of RTGS/ NEFT, the receipt of transaction is to be uploaded.

OR

- Scanned copies of valid and updated certificates issued by NSIC under Single Point Registration Scheme (SPRS) and MSME Registration certificate in .PDF format should be uploaded for considering the waiver of EMD submission. In addition, the bidders registered under Department of Micro, Small and Medium Enterprises (MSME) and/or eligible for exemption from submitting Bid Security / Earnest Money Deposit for similar services shall be required to submit Bid Security declaration as per **Annexure-‘D’** of the e-NIT.
- vii) The scanned copy of e-Tender Document (Scope of Work, Bill of Quantities, General Terms & Conditions etc.) along with addenda/corrigendum, if any issued to the technical bid document, duly signed by the Authorized Signatory with official stamp as a token of acceptance of the same by the bidders along with a Hard copy of e-NIT endorsing signature and rubber seal of the bidder/tenderer on all pages should be submitted to the Science City **on or before the due date of submitting the tender.**

Cover – 2 (Financial Bid Envelope)

- (i) Rate Quote Sheet in .XLS format.
- (ii) "Cost Break-up" for each quoted components (as per Detailed Scope of Work and Bill of Quantities) duly filled in tabular format and digitally signed with official stamp as per **Annexure-‘B’**.

Online Technical Bid will be opened at the first instance in Science City, Kolkata on the scheduled date for technical evaluation. Bidders who qualify the technical criteria will be called for technical presentation. In the second stage, **the Financial Bids of only the selected and technically qualified bidders (in all respects) will be opened** for further evaluation and ranking before awarding the contract.

16. Pre-Bid Meeting :

A Pre-Bid meeting will be held at Science City, Kolkata on date and time mentioned under the Important Dates above, to clarify queries, if any, of the Bidders before submission of their tenders. Intending bidders must submit their queries either through email / hard copy (at the address for communication) at least two days before the date of pre-bid meeting. The minutes of the Pre-Bid meeting will be integral part of this tender document and will be communicated as per the provisions of the tender document. No further queries after the Pre-bid meeting will be entertained.

17. EVALUATION METHODOLOGY/ SELECTION CRITERIA

A two-stage procedure under **Least Cost Based (LCS) Evaluation** will be adopted in evaluating the proposals

Stage – 1 General cum Technical Bid Evaluation

- i. The bidders have to make a presentation of their past works and also develop a scale model of a 'Eskimo Man' in full details. (Refer). Successful bidders are required to give their presentation on Feb 06, 2024 at Science City. The presentation followed by model demonstration are to be made before the Technical Evaluation Committee (TEC) who will evaluate the proposals and award marking as per the format and weightage are given below :

Section	Sl. No.	Required Experience/ Qualification	Max. Score	Bidder's Score
A	1.	Experience : Min. 07 years – 15 marks For every additional year, 01 mark will be awarded.	20	
	2.	Average Financial Turnover during the last 03 (three) years Min. 60 lakhs – 15 marks For every additional 02 lakhs, 01 mark will be awarded.	20	
	3.	Work experience of completing similar projects : (i) 1(one) similar completed works of aggregate cost not less than 80% of the estimated cost – 10 marks (ii) 2(two) similar completed works of aggregate cost not less than 60% of the estimated cost – 05 marks each (iii) 3(three) similar completed works of aggregate cost not less than 40% of the estimated cost – 03 marks each (iv) For each additional work, marks will be added based on the quantum of work, as mentioned above.	20	
B	4.	Technical Presentation by the bidder will involve following aspects : <ul style="list-style-type: none">• Miniature model of the Eskimo man – Scale fibre glass model as per details mentioned in the Annexure-F. Height – 18”• Marking will be done on following counts :<ul style="list-style-type: none">Finishing – 06 marksRealistic – 06 marksProportion – 06 marksAesthetics – 06 marksOverall Composition – 06 marks• Presentation of the previous works – 10 marks	40	

- ii. The Technical Evaluation Committee appointed by 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, presentation as well as the model made by the bidder.

Credentials without valid proof will be invalid and will not be considered for eligibility. The Science City reserves the right to accept or reject proof of credentials at its sole discretion without having to give reasons to the Bidders thereof.

- iii. Each responsive proposal shall be scrutinized by the Technical Evaluation Committee. On the basis of the technical assessment, all bidders who score **minimum qualifying marks of 75% in both sections ie; A(Point 1,2,3) and B (Point 4) individually** shall 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.

Science City, Kolkata reserves the right to completely reject any proposal in case the required documentary proof is not submitted. Financial bids will be only be opened for the shortlisted tenderer/firms as per the criterion mentioned above.

Financial Evaluation

Least Cost Selection (LCS) with qualifying score would be considered.

Under the Least Cost Selection (LCS) with required qualifying score, the overall lowest cost proposal among those who passed the minimum technical score of 75 marks(as mentioned above) shall be considered for the award of work. It may please be noted that the **OVERALL LOWEST** bidder will be awarded the entire work . However the bidders have to quote the rate for each of the exhibits, as given in the BOQ.

Note:

- a. Only fixed price financial bids indicating **total price for all the work together** specified in this bid document will be considered. The **composite lowest bidder (L1)** will be awarded the Project.
 - b. The award of work will be given to the single successful bidder (L1) and will not be split.
 - c. In the event, composite bid scores are "tied", the bidder securing the highest technical score along with the composite Lowest bid will be declared as the Best Value Bidder for award of the Project.
 - d. *Errors & Rectification: Arithmetical errors will be rectified on the following basis: "If there is a discrepancy between the unit price and the total price that is obtained by multiplying the unit price and quantity, the unit price shall prevail and the total price shall be corrected. If there is a discrepancy between words and figures, the amount in words will prevail".*
18. The successful Bidder shall submit within 3 (three) days from the date of placement of the work order the duplicate copy of the work order duly signed with official stamp on all the pages as a token of their acceptance of the work order/Lol.
 19. In case the successful bidder refuses to accept the offer after finalization or does not comply with sending of acceptance of the order within 03 (three) days from the date of placement of the order as per the finalized and accepted terms & conditions, earnest money deposit would be automatically forfeited and the order shall be cancelled forthwith.
 20. The authorities of SCIENCE CITY do not bind themselves to accept the lowest tender and reserves the right to accept or reject any or all tenders wholly or partially without assigning any reason whatsoever.
 21. The quoted rate shall remain unchanged during the entire contract period.
 22. The successful bidder shall be liable for depositing all taxes, levies, cess, etc. on account of service rendered by it to concerned tax collection authorities from the time to time as per extant rules and regulations on the matter.
 23. The successful bidder shall maintain all statutory registers under the applicable laws. The bidder shall produce the same, on demand, to the concerned authority of this Office or any other authority under Law.
 24. The Tax Deduction at Source (TDS) shall be effected, as and when applicable, as per the provisions of Income Tax Act, as amended from time to time and a certificate to this effect shall be provided to the bidder/contractor/supplier by this Office.
 25. In case, the successful bidder fails to comply with any statutory/ taxation liability under appropriate law and as a result thereof this Office is put to any loss/ obligation, monetary or otherwise, this Office (Science City, Kolkata) will be entitled to get itself reimbursed out of the outstanding bills or the Security Deposit of the Agency, to the extent of the loss or obligation in monetary terms.
 26. Before submitting the offer, bidders may visit the Science City. Kolkata at their own cost and risk, to get an idea of actual site condition etc. which may help in getting a fair idea about the scope and quantum of work.
 27. **The registered office or one of the branch offices of the tenderer/bidder should be located in and around Kolkata. In case the tenderer/bidder do not have such facilities, they should sign a declaration on their letter head to the effect that "In case the tenderer/bidder get the contract after being technically lowest tenderer, the tenderer/bidder will open an office or hire a space to run our office within 20 km within two weeks of such award of contract, having regular telephone/mobile and other means of communication like fax/email etc. where Science City is located. Failure to do so on our part, the EMD and Security Deposit/Retention Money of the tenderer/bidder will be forfeited and the contract will be terminated forthwith" as per the Declaration given in Annexure-E.**
 28. The successful bidder shall be required to depute a team of qualified and experienced personnel to co-ordinate, execute and supervise all the activities from commencement till completion and handing over the system. This team of personnel will also be required to monitor the progress and review in consultation with Science City officials on a regular basis.
 29. Bidder should submit the details of the major projects which they have done in the last seven Years.

30. Notwithstanding anything contained herein above, in case of any dispute, claim and/or legal action arising out of this contract, the same shall be subject to the jurisdiction of courts at Kolkata only.
31. **Bad workmanship 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 the Science City, Kolkata. The decision of Science City, Kolkata, as to items of bad workmanship and proper replacement/rectification will be final and binding on the successful tenderer.**
32. Drawings and specifications of the tendered job under tender are enclosed for guidance. However, if any, ambiguity in the specification is detected, it shall be promptly brought to the notice of the Science City, Kolkata for clarifications. The successful tenderer without written approval/permission of Science City, Kolkata shall make no deviation from the approved specifications and drawings.
33. Science City, Kolkata shall not be liable for injury of any employee who is deployed by the successful tenderer within/outside the Science City, Kolkata premises/site during the time of execution of the work order.
34. Proper anti-termite treatment should be done on all the models, if required.
35. The successful tenderer shall not under any circumstance whatsoever transfer wholly or partially the contract to any other person(s)/firm/company or assign the agreement or benefits of this contract to any other party for any reason whatsoever. Otherwise this agreement will automatically stand cancelled.
36. The authorities of Science City, Kolkata, reserves the right to amend, alter or modify the terms & conditions, mentioned above, if necessary from time to time.
The raw materials supplied by the successful tenderer shall conform to the drawing and specifications given by Science City, Kolkata. Sub-standard quality of raw materials as well as workmanship will not be accepted.

The instructions given herein will be strictly binding on the bidders and deviation, if any, will make the Tender liable to be considered invalid. Tenders incorporating additional conditions by the bidder are liable for rejection.

This document is the property of Science City, Kolkata which may not be copied, distributed or recorded on any medium, electronic or otherwise, without Science City, Kolkata's written permission thereof, except for the purpose of responding to Science City, Kolkata for the said purpose. The use of the contents of this document, even by the authorized personnel / agencies for any purpose other than the purpose specified herein, is strictly prohibited and shall amount to copyright violation and thus, shall be punishable under the Indian Law.

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

GENERAL TERMS & CONDITIONS

Inspection :

1. The successful tenderer shall arrange for inspection of the job by the Science City authorities at Science City premises. Inspection may also be made any time during the process of fabrication of Clay Modelling of Human Figures and other models, if felt by the officials of Science City, Kolkata. Any defect pointed out by the competent representative of the Science City, Kolkata during such inspections, has to be promptly rectified to ensure desired quality of work. It would be mandatory on the part of the successful tenderer to arrange inspection and obtain approval at every stage of work failing which action shall be taken as will be deemed fit by Science City, Kolkata. In case the models are made outside the Science City premises, the tenderer has to arrange the logistics for the officials of Science City, for inspection. The inspection has to be done at major steps during the development of the models. The decision of Science City, Kolkata in this regard shall be final and binding on the successful tenderer.
2. The agency shall be required to enter into an agreement with Science City for the work of 'Fabrication & Supply of Fiberglass (FRP) Mannequins, Models, Sculptures, Diorama and Paintings for Climate Change Gallery at Science City, Kolkata' governing the terms & conditions of the contract on non-judicial stamp paper of appropriate value as per the standard format.
3. The Successful e-tenderer is required to be paid at net rates as quoted. The provided prices and rates must encompass all expenses related to materials, labor for fabrication, machining, assembly, testing, painting, polishing, finishing, scaffolding, erection, installation, labor supervision, and necessary accessories such as tools, tackles, reliable standard testing equipment, etc. Additionally, these rates should cover all individual charges associated with the delivery, unloading, and installation of models, mannequins, exhibits, etc., at the exhibit site, specifically the 'Climate Change Gallery' within the Earth Exploration Hall of Science City, Kolkata. This includes the creation of Fiberglass Moulds and Casting of models with required metallic reinforcement, as well as the paintings, as specified in **Annexure K**, ensuring their supply to the designated location. He should include in his rates allowance for increase or decrease in the prices due to market fluctuation. He shall not be entitled to any separate amount on account of GST, other taxes, Labour Cess, duties etc. which are in force or will be enforced or enhanced by Government or local bodies during contract period or after e-tendering. Accepted e-tender rates shall not be changed due to changes in wages of labour either. **The rates considered in the respective items are inclusive of the defects liability period of 1 year post the actual satisfactory completion of the entire work in all sense. A consolidated rate must be quoted, taking into account the overall nature of work.**
4. Science City shall not be liable for any injury or death of an employee who is deployed by the successful bidder within/outside the work site during the time of execution of the work order.
5. All necessary permissions and approvals (including statutory, regulatory permissions, approvals, etc.) required for carrying out and implementation of the contract work shall be the responsibility of the bidder.

Security Deposit:

6. Security Deposit shall mean **10%** of the total cost of work awarded or the final gross value of work done & paid against this contract, whichever is greater. Upon receipt of the work order, the successful bidder shall deposit the Security Deposit to Science City, Kolkata in the form of NEFT/Demand Draft or e-transfer to cover risk or any loss to the Science City for negligence, failure, inefficiency, fraud or theft, pilferage etc., on the part of the services in the event of any such occurrence and/or breach of contract in any way or form etc, during the contractual period. In the event of any such occurrence and/or breach of contract, the amount of compensation, as assessed by Science City, shall be recovered either from the bill due to the agency or from their Security Deposit. The Security Deposit shall be released after expiry of the defect liability period of 12 months from the date of final completion of work. The Security Deposit shall carry no interest.

Defect Liability Period

7. Defect Liability Period (DLP) shall be of **one year** from the date of actual satisfactory completion & handing over of the entire job as certified by the authorities of Science City, Kolkata. During the Defect Liability Period, the successful bidder should rectify any or all the observed defects or any or all the defects as pointed out to them within a reasonable time, as decided by the competent authority of Science City, Kolkata. A penalty in the form of deduction as deemed fit by Science City, Kolkata authority shall be applied and be deductible from the Retention Money / Security Deposit of the bidder for any lapse in providing services, rectifying defects or in case of an inordinate delay in attending the faults/defects. If the successful bidder fails to rectify the defects within a reasonable time, such defects will be rectified by Science City, Kolkata by engaging departmental staff or outside Agencies at their discretion, and the cost thereof, as decided by Science City, Kolkata will be deducted from the Retention Money / Security Deposit of the successful bidder retained by Science City, Kolkata. Decision of the Science City, Kolkata in this regard shall be final and binding on the successful tenderer.
8. **Payment :**
- (i) No advance payment shall be made by Science City in any circumstances.
 - (ii) Interim payment(s) upto 50% of the total value of work may, however, be released by Science City at its discretion on satisfactory completion of 75% of the total quantum of work, in all respects.
 - (iii) The final payment shall be released through NEFT/e-transfer after satisfactory supply of the exhibits/materials and within 30 days from the date of receipt of invoice duly supported by receipt or challan and satisfactory inspection/work completion certificate issued by the Competent Authority of Science City, Kolkata.
 - (iv) Statutory deductions/recoveries towards Income Tax, TDS GST, Labour Welfare Cess, etc. shall be made as per the relevant provisions from the payment due to the successful bidder.
 - (v) Science City shall pay to the agency nothing more than the amount as may be due under the contract terms.
9. The whole of the works including the contract shall be executed by the Successful e-tenderer and he/they shall not directly or indirectly transfer or assign or underlet the contract or any part, share or interest therein nor shall he take a new partner without the written consent of Science City and no subletting shall relieve the Successful e-tenderer from the full and entire responsibility of the contract or from active superintendence of the works during the progress.

Completion Time :

10. Time is the essence of this contract. The successful bidder shall carry out and execute the awarded work strictly in accordance with the drawings, specifications, scope of work, BOQ, job requirements, terms & conditions of the e-NIT. The entire work shall be executed at Science City site and its supply thereof shall be made at the designated location of Science City, Kolkata, as per with the enclosed specifications and drawings after obtaining approval at different stages of work, shall be completed within **75 (seventy five) days** from the date of placement of order.
- However, completion of entire job(s) should not exceed 75 days in any case. No extension of time whatsoever may be granted in this regard. However, extension of time may be considered in line with the provisions mentioned in the Clause No.12 below. In case the successful bidder fails to comply with the specified time schedule as per the approved bar chart and accepted terms & conditions, and where the progress of work is not found satisfactory, and commensurate with the expected progress as per the bar chart, Science City reserves the right to terminate the contract. In such case, the Retention Money/Security Deposit shall stand forfeited. The decision of Science City shall be final & binding on the successful bidder. The successful bidder cannot claim any compensation for such cancellation or determination of contract.
11. The contract can be terminated by Science City at any time without notice in the event of gross security risk or gross damage to Science City's property due to the agency's failure or persistent failure of the agency in providing satisfactory service to Science City and the decision of Science City in this regard shall be final and binding on the agency.

12. For reasons other than mentioned in the clause above, the contract can be terminated by either party by providing clear three months' notice in writing.

Penalty:

13. The successful tenderer(s) shall strictly observe the time allowed for carrying out the works as detailed in Clause No.8 above. The work shall, throughout the stipulated period of the contract, be proceeded with all the diligence (time being deemed to be the essence of the contract) and the tenderer(s) shall pay to the Science City an amount equal to 1% of the amount of the Contract value for every week that the work may remain incomplete as per delivery schedule, subject to a maximum compensation of 10% of the contract value after which period appropriate action will be taken by the Science City as they will deem fit.

In case of non-completion of the entire work within the stipulated time, and the delay is not attributable to site requirements, Liquidated Damage (L.D.) @ half per cent per week of the total cost of work awarded subject to a maximum of 10% of the gross value of work done or cost of work awarded, whichever is greater, shall be recovered from the bill of the successful bidder.

14. *Science City may extend the time of delivery/ completion of the tendered job at their discretion on the application of the successful tenderer(s) for such purpose provided that Science City considers the reasons for such extension as good, sufficient and acceptable.*
15. The Agency shall indemnify the Science City, Kolkata against all claims which may be made under the Minimum Wages Act, 1948, any other Labour Laws in force and any compensation payable in consequence of any accident or injury sustained by any workman engaged for the performance of the contract.

Force Majeure:

16. In the event of either party being rendered unable by Force Majeure to perform any obligation required to be performed by them under the contract, the relative obligation of the party affected by such Force Majeure shall be suspended for the period during which such cause lasts. The term "Force Majeure" as employed herein shall mean acts of God, War, Civil Riots, Fire directly affecting the 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. Time for performance of the relative obligation suspended by Force majeure shall stand extended by period for which such cause lasts. During the period for which such force majeure cause lasts, the service charges shall not be payable to the agency. However, Science City may consider paying the service charges at mutually agreed reduced rate only if the agency has fulfilled partial obligation on its part during such period of force majeure. If deliveries/services are suspended by Force Majeure conditions lasting for more than two months, Science City shall have the option of cancelling this contract in whole or part at their discretion without any liability on their part.

Arbitration:

17. In case of any dispute arising out of this contract between Science City and the Agency, the matter shall be referred to the sole arbitration to be appointed by the Director General of National Council of Science Museums on receipt of an official request with details of the dispute, from either Science City or the Agency. The award of the arbitrator so appointed shall be final, conclusive and binding on all parties to the contract. The submission shall be deemed to be submission to arbitration under the Arbitration and Conciliation Act, 1996 or any statutory modifications or re-enactment thereof and of the rules made thereunder for the time being in force.
18. It is agreed that the successful e-tenderer shall not delay the carrying out of the work by reasons of any reference to arbitration and shall proceed with the work with all due diligence and shall, until the decision of arbitration, abide by the decision of the engineer duly conveyed to him.

19. Scope of Work

TECHNICAL SPECIFICATIONS FOR FABRICATION OF FIBERGLASS MODELS

Clay modeling

- i. The quality, skill and proficiency in making the clay model of the specified human species and other models like the Caribou, Dogs, Birds, Artifact replicas etc are the key for this work. Natural morphological features, emotions, postures and the final finish of the models is the criteria for this work.
- ii. The texture of skin and the contour of the muscles must be properly maintained in the clay model to give a realistic look.
- iii. While making the clay model, changes or modifications as suggested by the competent authority of Science City, have to be incorporated to produce the model nearest to perfection.
- iv. The drawings and sketches provided by Science City at the time of tender are for reference and the size, texture, external features and proportions may be changed by Science City authority, during the phase of clay modeling, to produce the model to perfection. The agency has to carry out all the modifications suggested by the competent authority at the rate quoted by the agency.
- v. **Agency must take approval of the 'finished clay model' from the competent authority of Science City before taking up the final FRP moulds of the given models.**
- vi. For intermediate and final inspection of the clay models by the Science City authorities, the agency should intimate the authorities at least 5 days in advance and the exact date of inspection shall be decided by the Science City authorities.
- vii. To ensure the desired quality of the modeling, Science City authorities shall inspect the clay modeling work not more than three times for each assigned job. If Science City authority is not satisfied with the job done by the agency even after three inspections, the same may be rejected by the Science City authority.
- viii. Once the 'finished clay models' are approved by the Science City authorities, the agency cannot make any changes in it without taking approval from the authorities of Science City.
- ix. All materials, tools, tackles, manpower, supervision, etc. required for clay modeling work have to be arranged by the agency at their own cost and risk.
- x. **Agency has to execute the given job at Science City premises. Only open space shall be provided by the Science City and it is the responsibility of the concerned agency to arrange temporary shade to undertake the work. They will also have to arrange at their cost supply of electric power at the working site. On completion of the given job, the agency shall remove temporary shade and clear all the debris from the site and restore the place to its original shape.**
- xi. The agency has to give an undertaking in specified format as in **Annexure-'I'** given by Science City stating that only one mould shall be taken out of the clay model and that shall be used only for the job of Science City. No extra mould or casting should be made out of this clay model for other clients of the agency. Appropriate legal action shall be taken against the agency, if found guilty.
- xii. Agency must destroy the clay model after taking up the FRP mould with prior permission from the authorities of Science City.

Mould Making

- i. Agency may start making mould of the model(s) only after taking the approval of the committee of Science City for the 'finished clay models'.
- ii. The mould of the models should be of the highest standard and quality. The technical specifications of the raw materials to be used are mentioned below.
- iii. Minimum thickness, of each mould of the given model, should be at least **06 mm approx.** at any section of the mould. Pigment of suggested color should be used while making the mould.
- iv. Agency should try to keep minimum joints while making the mould of a given model(s). There should be proper arrangement to join all the parts (pieces) of a mould with high grade Stainless Steel bolts and nuts 1-1.5" (AISI 316 grade).
- v. **Mould (s) made by the agency will be the sole property of the Science City, Kolkata.**
- vi. The agency shall deposit the mould in complete assembled condition of the each work assigned to them along with the required number of castings to Science City authorities.

- vii. The agency shall not keep any copy of this mould or casting or supply these models to any other clients in India or abroad.
- viii. **The agency shall have to give an undertaking to the Science City that they shall abide by the condition mentioned in the mould making section of the technical specifications.** The format of undertaking is attached as **Annexure-'I'** to this tender.
- ix. While supplying the casts of these moulds to Science City, the agency shall have to supply the mould in a completely jointed form/shape and no loose parts should be there. Each part of the mould should be numbered and named suitably for ease in assembly and stacking.
- x. Wherever necessary (as mentioned in the drawings) the agency should provide reinforcement in the mould if advised by the competent authorities of Science City.
- xi. To inspect the thickness of the mould, the Science City authorities have the liberty to cut a section of the mould and measure it. Necessary mending to the mould has to be carried out by the agency without any extra cost.
- xii. All the materials, tools, tackles, labour, manpower, supervision of the work have to be arranged by the agency at his/their own cost.

Casting of Models

- i. All the materials (Fire proof resin, fire proof fiberglass mat, chemicals required for casting of these models, separators, tools and tackles) should be of the highest standard and quality and the agency should provide details of these materials to the competent authority of Science City, on demand. The technical specifications of the raw materials to be used are mentioned in the **Annexure-'B'**.
- ii. Thickness of each model casting should be a minimum of **6 mm** thick or as suggested in the drawing in all sections of the casting. **Two layer resin putty and two layered mat must be used.** If Science City authorities find any deviation to this effect, the same shall be rejected. The losses incurred in such cases shall be borne by the agency. Science City shall not consider any claim(s) of the agency arising out of such situations.
- iii. All the casts should be fine to the highest standard and quality and entire satisfaction of the competent authority of Science City.
- iv. Proper pigment of the colour suggested by authorities should be provided while taking the casting.
- v. Necessary reinforcements as suggested by the authorities of Science City should be provided in the form of 3 mm/ 6 mm thick MS flats or angles. GI pipes of requisite diameter with flat metallic base should be inserted in the legs to provide support and stability to the model.
- vi. The texture of skin and the contour of the muscles must be properly maintained in the casting to give a realistic look.
- vii. In case of use of fur, it should be of the highest quality and should give a realistic look to the models.
- viii. The casting should be properly ground and finished so that no visible marks of joints shall appear.

Colour and Paintings

- i. One layer NC primer and NC putty finish has to be done for all Fibreglass models.
- ii. PU paints/ NC colour/ Artistic acrylic/ artistic oil colour must be used at all places for FRP models, where required.
- iii. For canvas painting, artist acrylic colour on high quality canvas of reputed companies must be used.

After the job is finished (model/ painting), it will be the responsibility of the successful e-tenderer to get it approved by the Competent authority of Science City.

Supply of Finished Models to Science City

- i. Supply, transportation, unloading and installation of the finished models at the designated location (Climate change gallery) of the Science City is the responsibility of the agency.
- ii. Finished models should reach designated place at Science City site in a good and safe condition, without any breakage or damage to the colour or any part of the models.

Specifications of Raw Materials and Thickness of Moulds and Casts of Models

Raw materials used in the moulds and cast should be of highest grade.

- i. Resin: Isophthalic Resin.
- ii. Emulsion Chopped Strand Mat: E 450
- iii. Accelerator: Cobalt Octate
- iv. Good quality M S flats and angles of appropriate thickness
- v. Transparent Roof light Resin

Scope of Contract

The successful e-tenderer shall be required to carry out and complete the works in every respect in accordance with the scope of work and terms & conditions of the e-NIT and in accordance with the directions of the officials and to the satisfaction of the officials of Science City. ***Test certificates and sample of materials must be submitted to Science City before the same is used for making the models. The samples of raw materials must be got approved well in advance from the competent authority of Science City, before its use.***

The Officer in charge, from time to time, may issue further written instructions, detailed directions and explanations in regard to :

- a) The variation or modification of the design, quality or quantity of works for the addition or omissions or substitution of any work.
- b) Any discrepancy in the proposal or between the schedule of quantities and/or specifications.
- c) The removal from the site of any material brought therein by the successful e-tenderer and the substitution of any other materials there from.
- d) The removal and/or re-execution of any works executed by the successful e-tenderer.
- e) The dismissal from the works of any persons employed thereupon.
- f) The opening up for inspection of any work covered up.
- g) The amending and making good of any defects.
- h) The successful e-tenderer shall comply with and duly execute any work comprised in such instructions, detailed directions and explanations, provided always that if the Officer's instructions involved variations from the priced Schedule of Quantities, such instructions shall be issued by the Council and the successful e-tenderer shall take appropriate action.
- i) Even if not specifically mentioned in the schedule of quantities, the successful e-tenderer shall be deemed to have allowed necessary material, labour, tools and plants etc. required for satisfactory completion of the items of work as indicated in drawings and description given in the specifications.
- j) The successful e-tenderer shall provide everything necessary for the proper execution of the works according to the true intent and meaning of the specifications and bill of quantities taken together, whether the same may or may not be particularly described in the drawings or specifications or included in the bill of quantities, provided that the same is to be reasonably inferred there from and if he finds any discrepancy in the drawings or specifications and bill of quantities, he shall immediately refer the same to the Officer In charge who shall decide which shall be followed. Figured dimensions shall be followed in reference to scale.

20. Bill of Quantity :

SI No.	Name of the exhibit with components	Dimension and brief description
01	MELTING POLES	
	a)Igloo (01)	8' x 12' x 7.5'
	b)1 woman c)1 child and d) 1 man and a general ambience with a dog and sledge. The overall diorama will be staged on a Ice floor of 10' x 12'	1: 1 ratio (Life size)
	1 man (for selfie point)	With Hyper realistic face and life size (1:1 ratio)
02	DELICATE BALANCE	
	a)Reindeer with ice landscape	1:1 scale, 7'2" height of reindeer
	b)06 number of Artifacts like Sunglass, Knife, Jewellery, Shoe, Jacket and meat	The artifacts are to be made on 1:1 scale and placed on mannequin head, as required. For the shoe, a leg section has to be shown and the meat has to be displayed on a plate
	c) Arrow heads (replica of 4 types; 24 pieces) and fiberglass cladding of the arrow base	1' long each arrow head
03	ARCTIC ADVENTURE	
	a) Ice floor	120 sq feet with side barricade wall
	b) 4 coniferous tress with ice	Height 8'
	c) 2 dogs , Siberian husky breed	1:1 scale
	d) Side wall painting (02 no.s)	5.5' by 8' , Acrylic base
04	GONE FOREVER	
	a) Ocean water – Model	Deep ocean with fishes (fiber glass) Realistic finish water look

	<p>b) One Realistic Rat (Bramble Cay melomys)</p> <p>c) Wall painting of Sunderbans with front relief work showing the roots of pneumatophores</p>	<p>(epoxy resin for transparent look), with inside mirror and light arrangement</p> <p>9" long without tail</p> <p>8' x 10' (2 paintings of Acrylic)</p>
05	VANISHING ICE	
	Ice Room	<p>Room dimension : One wall of 22' X 8'; Opposite wall of (9'6"X8') & Roof (7' X 15' approx)</p> <p>Semi transparent fibre glass with inside light arrangement</p>
06	BLEACHED CORAL	
	<p>a) Fibreglass structures of different Corals with NC colour</p> <p>b) Coral bed ambience</p>	<p>10-12 corals of 1' each</p> <p>Approx wall size- 18' x 8'</p>
07	HEAT WAVE	
	<p>a) Umbrella -01</p> <p>b) Forest fire diorama</p>	<p>20' dia X 8' height</p> <p>8' X 7' with 5 trees</p>
08	CYCLONES	
	a) Diorama of a fallen tree on a house and background painting of Acrylic	<p>House dimension: 8'x6'x2'</p> <p>Tree Dimension : 10' x3'</p>
09	STORM SURGE	
		<p>Old building 7'x8' , Gate pillar 2'x2'x7' and stone 2'x2'x6' with floor 5'x10', fiber glass material</p>
10	BIRD MIGRATION	
	A single unit diorama	<p>10 birds of actual size, piece of land (Top Diameter 8', base Diameter 4' x 1.5') with 4' world globe showing transmission routes and a fibre glass base. Height 10'</p>

11.	FIVE ELEMENTS	
		5 Standing human as a pillar Height 4.5' (Basic 1 model, another Models may have some small changes)
12.	HERITAGE UNDER SIEGE	
	5 Relief	5 iconic models, 4' x 2.5' x 8"
13.	HINDUKUSH (GLOF)	
	Miniature Diorama With background painting (acrylic) and relief	6' X 6.5'

TENDER NO.

Name of the Work: FABRICATION, SUPPLY AND INSTALLATION OF FIBERGLASS (FRP) MANNEQUINS, MODELS, SCULPTURES, DIORAMA AND PAINTINGS FOR ‘CLIMATE CHANGE GALLERY’ AT SCIENCE CITY, KOLKATA

TECHNICAL BID

Sl. No.	Details	Details	Page Nos.
		(to be filled by the bidders)	
General Information			
1.	Name and Full Address of the bidder with Tel. No, E-mail & Fax Number (s) and Contact person		
2.	Name and Address of the lead partner of the consortium to whom the order will be placed. (Applicable only for the Consortium)		
3.	Status of the bidder: - Company / Partnership Firm/ Proprietorship firm/Consortium – Please specify		
4.	In case of Company – please enclose Memorandum and Articles of Association along with certificates of incorporation, if company is a public limited then the certificate for commencement of business also to be enclosed.	Submitted/ Not Submitted	
5.	In case of Partnership Firm – please enclose Certificate of Registration under the Partnership Act, 1932, along with valid partnership deed.	Submitted/ Not Submitted	
6.	In case of Proprietorship or Individual – please enclose a declaration on the letter head	Submitted/ Not Submitted	
7.	In case of Consortium – please enclose a Memorandum of Understanding (MOU) on Rs.100. Non-Judicial Stamp paper		
8.	Compliance of statutory laws i) Copy of PAN card ii) Copy of Registration Certificate under GST	Submitted/ Not Submitted	
9.	i) Copy of ESI registration certificate, if applicable ii) Copy of EPF registration certificate, if applicable In case of non-applicability of EPF and / or ESI, the applicant shall submit a declaration to this effect. In case self-declaration is found to be false at any stage then contract will be terminated and the firm will be debarred from future tenders for three years.	Submitted/ Not Submitted	
10.	State the Name of the Banker including IFSC Code and Account Number of the Bidder to follow digital mode of payment.		

Technical Eligibility Criteria			
11.	Details of Earnest Money Deposit (EMD) Rs. 1,59,083/- (Rupees One lakh fifty nine thousand and eighty three only) , through Demand Draft/Pay Order/NEFT/RTGS, in favour of Science City, Kolkata.	Submitted/ Not Submitted	
12.	Company/Firm/Agency/Consortium shall have the relevant experience certificate of similar works	Submitted/ Not Submitted	

13.	The bidders should have minimum experience of 7 years since their establishment. For establishing the same, the bidder should submit copies of work orders issued on them as well as copies of work completion certificate of the same work. (Annexure – ‘C’)	Submitted/ Not Submitted	
14.	Average Financial turnover of at least Rs.60 Lakhs in last three financial years (of the lead partner in case of consortium) (Annexure – ‘H’)	Submitted/ Not Submitted	
15.	1(one) similar completed works of aggregate cost not less than 80% of the estimated cost 2(two) similar completed works of aggregate cost not less than 60% of the estimated cost 3(three) similar completed works of aggregate cost not less than 40% of the estimated cost During the last 07 years	Submitted/ Not Submitted	
16.	Documentary evidences like Work Order, Completion Certificate, Income Tax Return, Audited Report, and Financial Statement, Valid MSME/NSIC Registration Certificate etc.	Submitted/ Not Submitted	
17.	Manpower set up of the firm and qualification of professionals.		
18.	Any recognition/appreciation/award for projects done by agency/firm		
19.	In order to qualify the technical stage of the bid, selected tenderers will be called for presentation at Science City, Kolkata with sample work as per Annexure-‘F’ . (sample work to be submitted at the time of presentation)	Agree/ Disagree	

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 submitting/opening of Tender Document (Financial Bid) shall be final and binding on me/us. I/We also declare that the decision of National Council of Science Museums regarding selection of eligible firms for opening of Financial Bid (Part-II) shall be final and binding on me/us.

Date:

Official Seal

Signature of the Tenderer /

Constituted Attorney

Note: -

- 1) The Technical bids received shall be evaluated on the basis of eligibility criteria.
- 2) Non submission of any of the documents listed in ‘General Information and Technical Eligibility Criteria’, mentioned above, shall lead to summarily rejection of the offer. No further correspondence in this regard will be made. However, clarification may be asked on the ‘General Information’ mentioned above.

TENDER NO.**FINANCIAL BID RATE BREAK UP FORMAT***(Bidders shall mention item-wise breakup of their bid amount as stated in the rate quote sheet)*

Tender Inviting Authority: Director, Science City, Kolkata.					
Name of Work: Fabrication and supply of Fiberglass (FRP) Mannequins, Models, Sculptures, Diorama and Paintings for CLIMATE CHANGE GALLERY at Science City, Kolkata					
Tender No :					
Name of the Bidder/ Bidding Firm / Company :					
<u>PRICE SCHEDULE</u>					
Sl. No.	Item Description	Quantity	Units	Rate in Rs. P (excluding GST)	TOTAL AMOUNT Rs. P
All items to be fabricated, supplied and installed at Science City as per detailed specifications and drawings enclosed along with the tender.					
1.01	MELTING POLES	01	set		
1.02	DELICATE BALANCE	01	set		
1.03	ARCTIC ADVENTURE	01	set		
1.04	GONE FOREVER	01	set		
1.05	VANISHING ICE	01	set		
1.06	BLEACHED CORAL	01	set		
1.07	HEAT WAVE	01	set		
1.08	CYCLONES	01	set		
1.09	STORM SURGE	01	set		
1.10	BIRD MIGRATION	01	set		
1.11	FIVE ELEMENTS	01	set		

1.12	HERITAGE UNDER SIEGE	01	set		
1.13	HINDUKUSH (GLOF)	01	set		
Total in Figures					
GST (18%)					
Quoted Rate in Figures (including 18% GST)		Select			
Quoted Rate in Words					

Detailed BOQ must be referred for quoting rates, as given in point number 20.

Total amount must include 18% GST.

Offline Financial Bid shall not be accepted under any circumstances.

Signature of Authorized signatory with Seal

EXPERIENCE DURING THE LAST 7 YEARS SUPPORTED BY MINIMUM THREE CREDENTIALS

Agency Experience (Private/PPP/Joint Venture/Consortium Projects)

S. No	Name of the project	Cost of the Order awarded in INR	Name of the Client	Phone of Contact Person of Client	Starting Date of Project	Completion Date of Project	Details/ Scope of work

 (Signature of Authorized Signatory with seal)

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	Vendor Code (allotted by BEL)	
2	Name of the Vendor / Company	
3	Date of incorporation	
4	Udyog Aadhaar Number	
5	GST Number	
6	PAN Number	
7	Type of Enterprise	Micro / Small / Medium
8	Major Activity	
9	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)
10	Have your investment in plant and machinery crossed the prescribed limits of MSME Act	Yes / No Value (for MSME only):
11	Copy of Udyog Aadhaar	Yes / No (for MSME only):
12	Annual ceiling amount upto which they can take contract under MSME	
13	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:
Seal

Signature of Authorized Person with Company

(Format for Certificate to be typed on the non-judicial paper with attestation by the notary and to be submitted in Part –I (TECHNICAL ENVELOPE) of the e-tender document)

Certified that the Tenderer/Bidder or any of its Owner/partners/Director has/have not been blacklisted/debarred by any of the Govt. agencies or department or has/have not been found guilty of commission of acts of moral turpitude or convicted for any economic offence or violation of any labour laws etc. by any Court or any PF/ESI authorities.

It is further certified that in case the tenderer/bidder get the contract after being technically lowest tenderer, the tenderer/bidder will open an office or hire a space to run our office within 20 km within **two weeks** of such award of contract, having regular telephone/mobile and other means of communication like fax/email, etc. where Science City is located. Failure to do so on our part, the EMD and Security Deposit / Retention Money of the tenderer/bidder will be forfeited and the contract will be terminated forthwith.

It is further certified that the Tenderer/Bidder has not been terminated by any of the Govt. department/autonomous institutions/public sector undertaking of the Govt. of India/other State Govt. or Public Sector Bank or local bodies/Municipalities during past three years on violation of laws or deficiency of service or breach of contract.

(Signature of the tenderer with seal /rubber stamp)

Date:

Place:



Eskimo Man

Size: 18 inch

1. Fiber-glass Model, hi-realistic finish with colour
2. Realistic finish with industrial colour (NC base)
3. Support and armature will be of FRP with proper wooden and MS metal or iron reinforcement inside & base wherever required. Fibre-glass (FRP) casting with a thickness of 6 mm, sheet metal and mixed media *— Isophthalic resin for indoor * mat quality 450 grad.
4. Model should be as real as possible.

FORMAT FOR AVAILABILITY OF TECHNICAL TEAM.

The bidder needs to provide the details of key personnel / support staff as proposed by him for deployment on site for successful completion of the show.

S.No	Key personnel / support staff	Name and short bio to be given by the bidder
(a)	Team Leader	
(b)	Technical Expert	
(c)	Other Manpower	

The bidder may co-opt experts in any other field deemed necessary.

(Signature of Authorised Signatory)

FORMAT FOR ANNUAL TURNOVER AS PER THE AUDITED ACCOUNTS

TOWARDS THE QUALIFYING EXPERIENCE

S. No.	Financial Year	Turnover in Indian Rupees(INR)
1.	2016-17	
2.	2017-18	
3.	2018-19	
4.	2019-20	
5.	2020-21	
6.	2021-22	
7.	2022-23	

(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.

SCIENCE CITY

National Council of Science Museums, Ministry of Culture,

Govt. of India

Address:

J.B.S. Haldane Avenue,

Kolkata-700 046, West Bengal, India

TENDER No.....

DECLARATION

We do hereby accept the “Scope of Work, Bill of Quantities, General Terms & Conditions etc. as provided by the Science City, National Council of Science Museums along with the Tender Document for the FABRICATION AND SUPPLY OF FIBERGLASS (FRP) MANNEQUINS, MODELS, SCULPTURES, DIORAMA AND PAINTINGS FOR ‘CLIMATE CHANGE GALLERY’ AT SCIENCE CITY, KOLKATA and also under take to supply the said materials and carry out the work within the stipulated time strictly as per the Scope of work and Technical Specifications of Science City, National Council of Science Museums as provided along the Tender Document, in the event of placement of any order on us. Science City shall be at liberty to cancel the order in full or part, in the event of failure of the above declaration made by us and forfeit the EMD submitted by us.

Signature of the Bidder / Constituted Attorney

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 e-tenderer and the agreement may be typed by the Museum/Centre according to the format.)

ARTICLES OF AGREEMENT made at

(Place)

this..... day of

(Date)

(Month & Year)

between the

(Name of the parent Museum/Centre)

(under the National Council of Science Museums, a Society registered under the Societies Registration Act of West Bengal, 1961), hereinafter referred to as the Museum/Centre which expression shall include its successors and assigns on the one part and

.....

(Name of the successful e-tenderer)

trading in the name and style of

.....

(Name and complete address of the successful e-tenderer)

hereinafter referred to as the successful e-tenderer which expression shall include his/their respective heirs, executors, administrators and assigns on the other part.

WHEREAS the Museum/Centre is desirous of getting the work of
therein done 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.....
.....
.....

(Name and address of the Architect).

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 e-tenderer 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 the Museum /Centre as Security Deposit 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 e-tenderer shall upon and subject to the conditions herein contained execute and complete the work within 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. The Museum/Centre shall pay to the successful e-tenderer 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 e-tenderer 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 e-tenderer, he shall pay or allow the Museum/Centre to deduct from any money due to him a liquidated damage as per Clause No.13 of the 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. The Museum/Centre through the Engineer 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. 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 contract) shall be referred to arbitration as per Clause No.17 of the general terms & conditions of the contract. 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.

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

In witness whereof the parties have set their respective hands the day and the year and the place hereinabove written.

Signed by for and on behalf of the Museum/Centre

In the presence of

Seal

1.

2.

Signed by the said Successful e-tenderer

In the presence of

Seal

1.

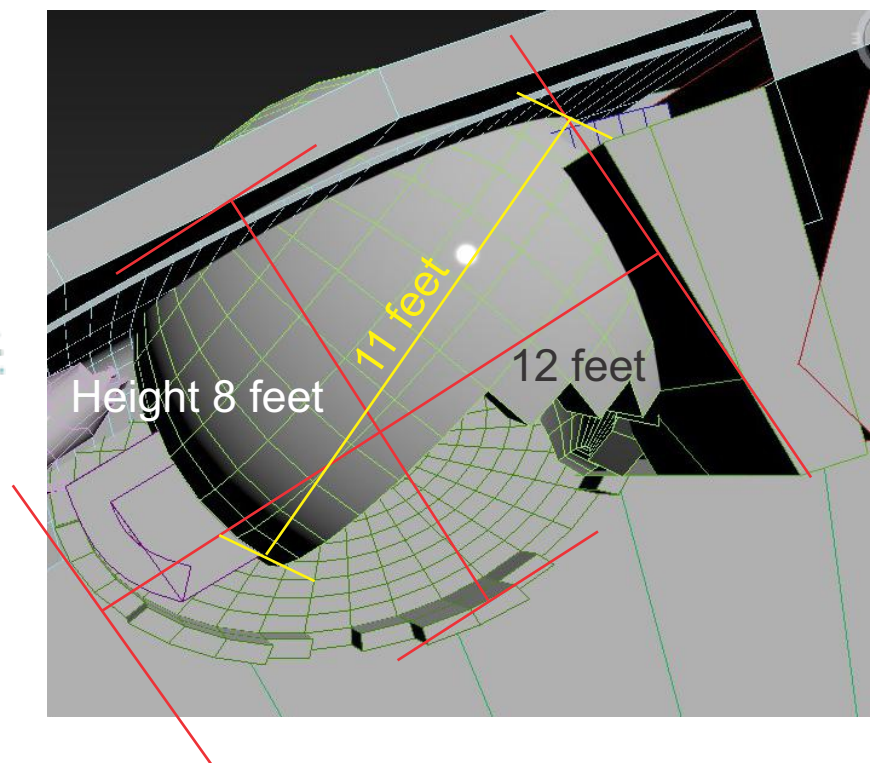
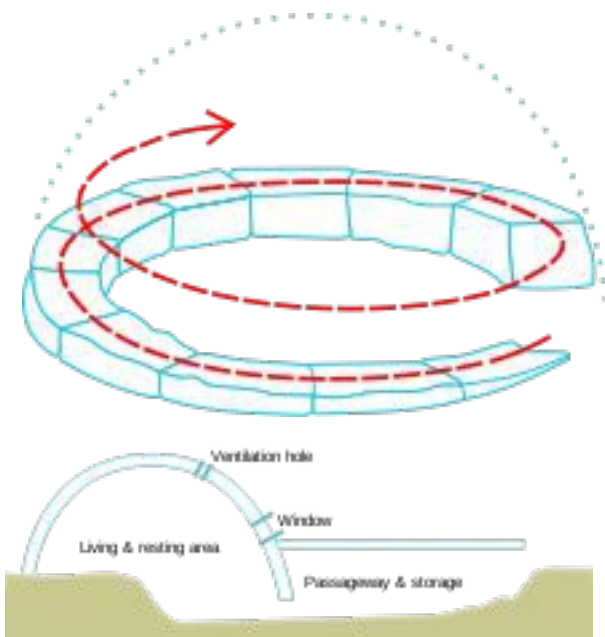
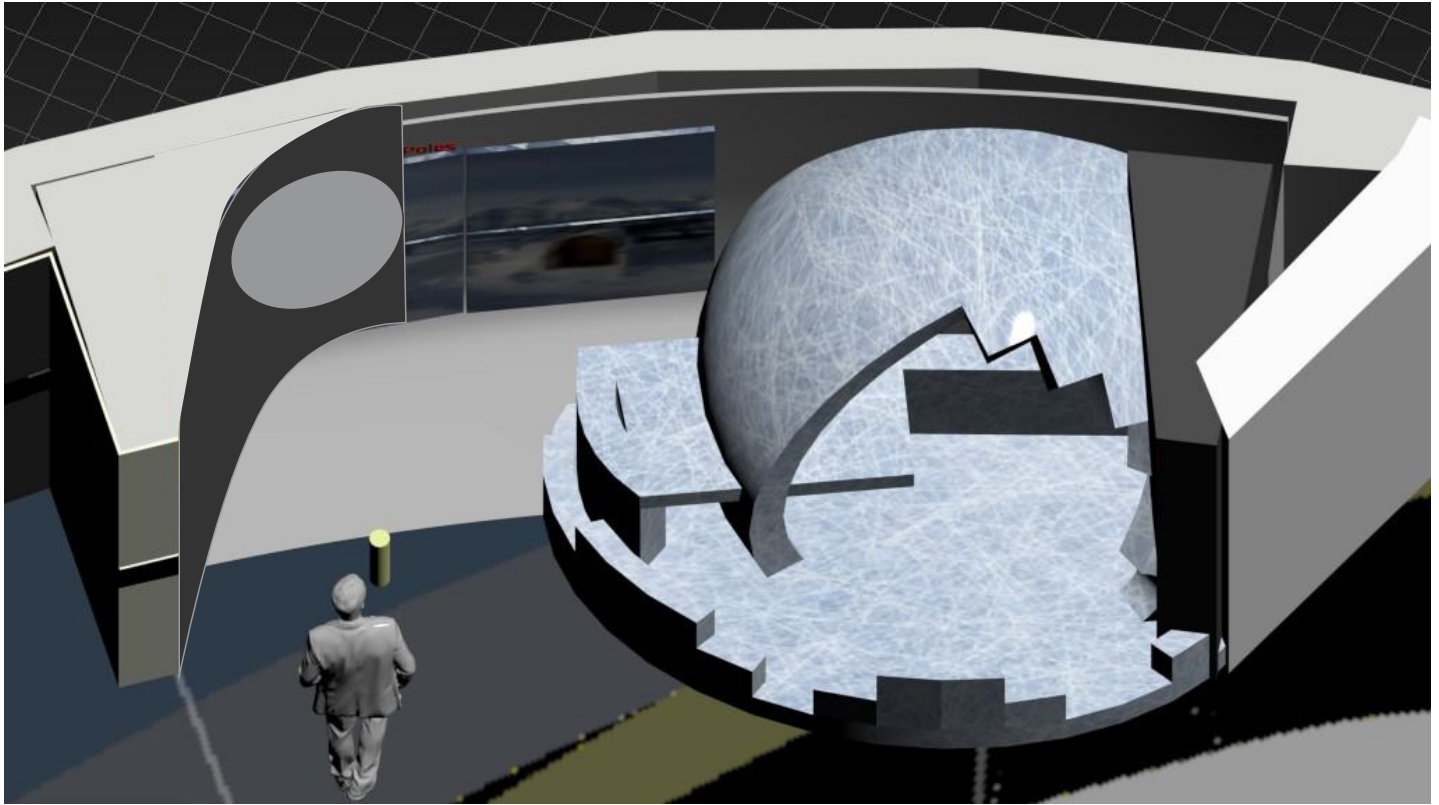
2.

Annexure – ‘K’

**Tentative drawings of models as
mentioned in BOQ**

Details provided in Annexure K-01

MELTING POLES



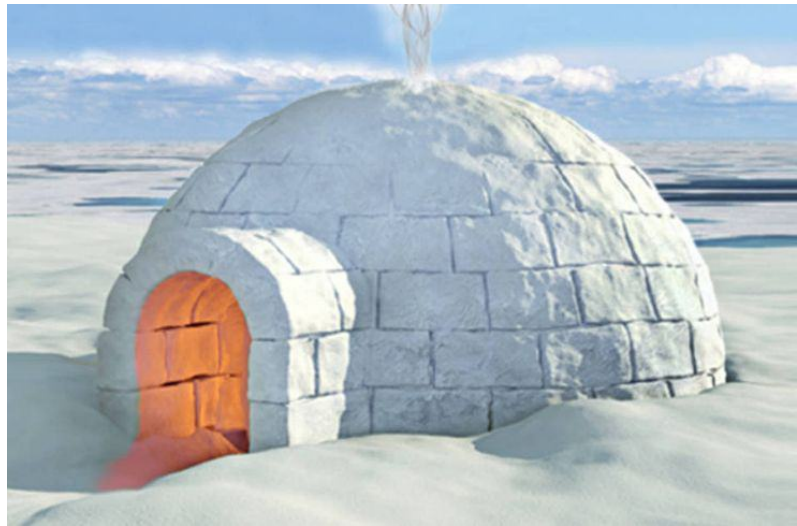


Igloo and Selfie Point - Diorama

1. One igloo cut section showing the inside of igloo with people in it. Height 7.5 feet
2. Base platform 8x12 feet (already made), Igloo Left to Right outer 7 feet (left to Right) side thickness 8 inch, Depth 6.5 feet
3. On the outside of igloo, dogs and part of sledge will be developed, to create an ambience
4. One women one child and one man, figure 1:1 life size mannequins inside the room,
- 5. Out side one man siting on ice for selfie point figure 1:1(Hyperrealistic: face only Silicon) Dress code real)**
6. Realistic finish with industrial colour (NC base)

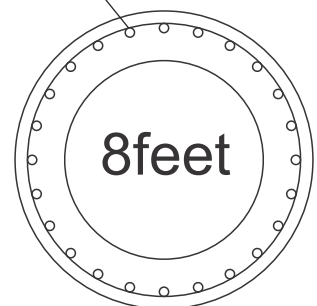
7. Necessary reinforcements as suggested by the authorities of Science City should be provided in the form of 3mm/ 6mm thick MS flat or angles. GI pipes of requisite diameter with flat metallic base should be inserted to provide support and stability of the model.
8. Fibreglass (FRP) casting with a thickness of 6 mm, sheet metal and mixed media *Isophthalic Resin for indoor * mat quality 450 grad.
9. Model should be as real as possible.
10. For making this diorama any other image may also be used as reference, with prior approval from the authorities of Science City, Kolkata

Reference



Details provided in Annexure K-02

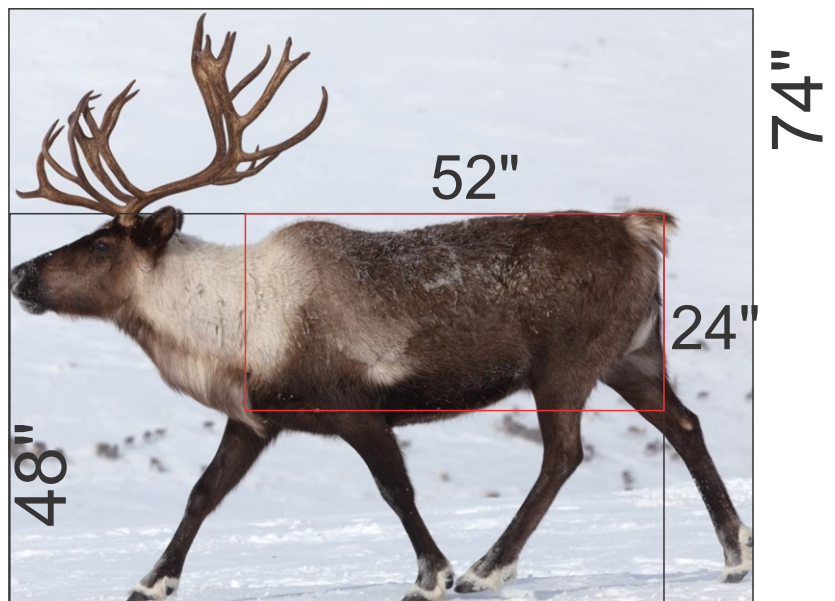
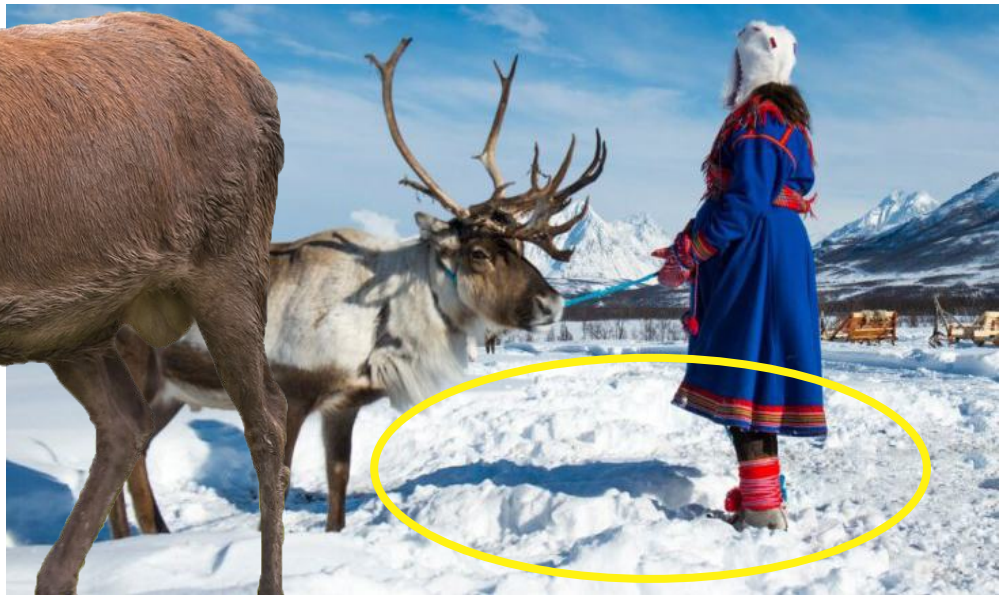
DELICATE BALANCE



Reference

Reindeer - Model & 6 Artifacts

1. One Reindeer 7'2"(H) standing 1:1, 24 pic hunting weapon H:1ft with proportionate (4 shapes) & Artifacts like Jacket, Sunglass, Knife, Jewellery, Shoe and meat
2. Base platform diameter 7 feet (already made). The base has to be covered with ice structures and the reindeer will stand on it.
3. Use Hi-realistic (eye and body skin-fur)
4. Realistic finish with industrial colour (NC base)
5. Necessary reinforcements as suggested by the authorities of Science City should be provided in the form of 3mm/ 6mm thick MS flat or angles. GI pipes of requisite diameter with flat metallic base should be inserted to provide support and stability of the model.
6. Fibreglass (FRP) casting with a thickness of 6 mm, sheet metal and mixed media *Isophthalic Resin for indoor * mat quality 450 grad.
7. Model should be as real as possible.
8. For making this diorama any other image may also be used as reference, with prior approval from the authorities of Science City, Kolkata



Making this look

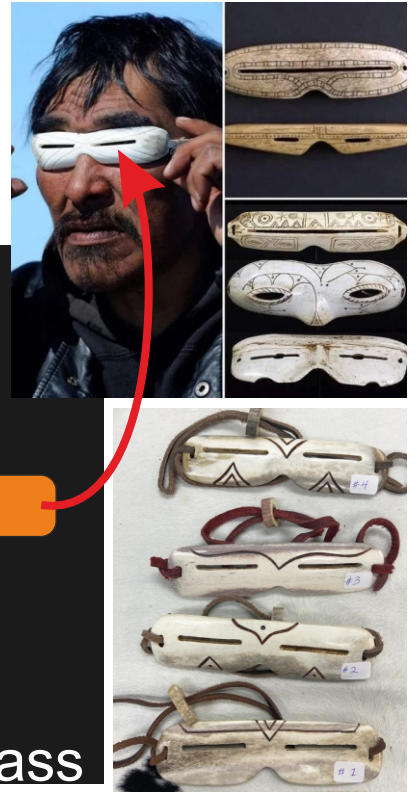
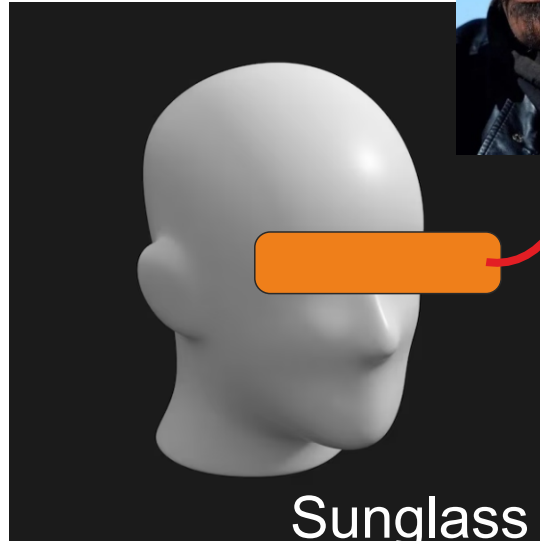


Artifacts models

30x36 inch Box Size



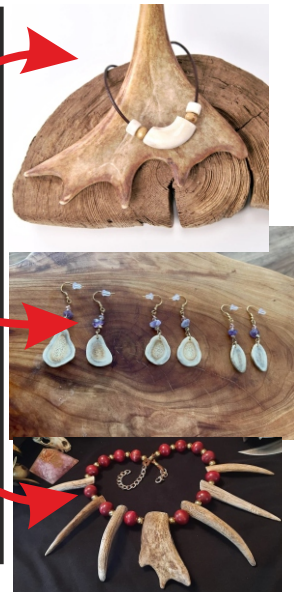
18x18 inch Box Size



18x18 inch Box Size



18x18 inch Box Size



18x18 inch Box Size



18x18 inch Box Size



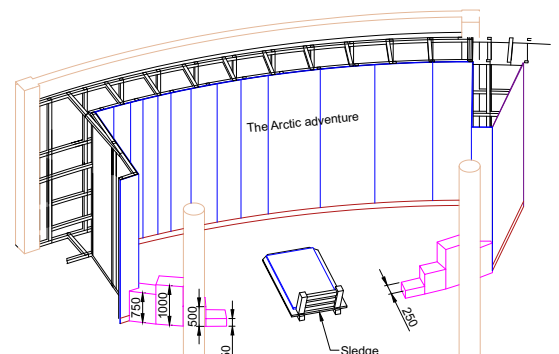
Details provided in Annexure K-03

ARCTIC ADVENTURE



Ice Floor with dogs and plants - Model

1. Ice Floor (fiber glass Opaque with semi transparent) approx 120 square feet with side barricade wall
2. 2 dogs (Fiber glass model). Use realistic eye and body skin (fur) Size 1:1
3. 4 Coniferous plants with ice on them (fibre glass) height 8'
4. Two side wall on Painting (Canvas) (5'5"x8')x2
5. Realistic finish with industrial colour (NC base)
6. Necessary reinforcements as suggested by the authorities of Science City should be provided in the form of 3mm/ 6mm thick MS flat or angles. GI pipes of requisite diameter with flat metallic base should be inserted to provide support and stability of the model.
7. Fibreglass (FRP) casting with a thickness of 10 mm, sheet metal and mixed media *Isophthalic Resin for indoor * mat quality 450 grad.
8. Model should be as real as possible.
9. For making this diorama any other image may also be used as reference, with prior approval from the authorities of Science City, Kolkata



HARNESS SIZE

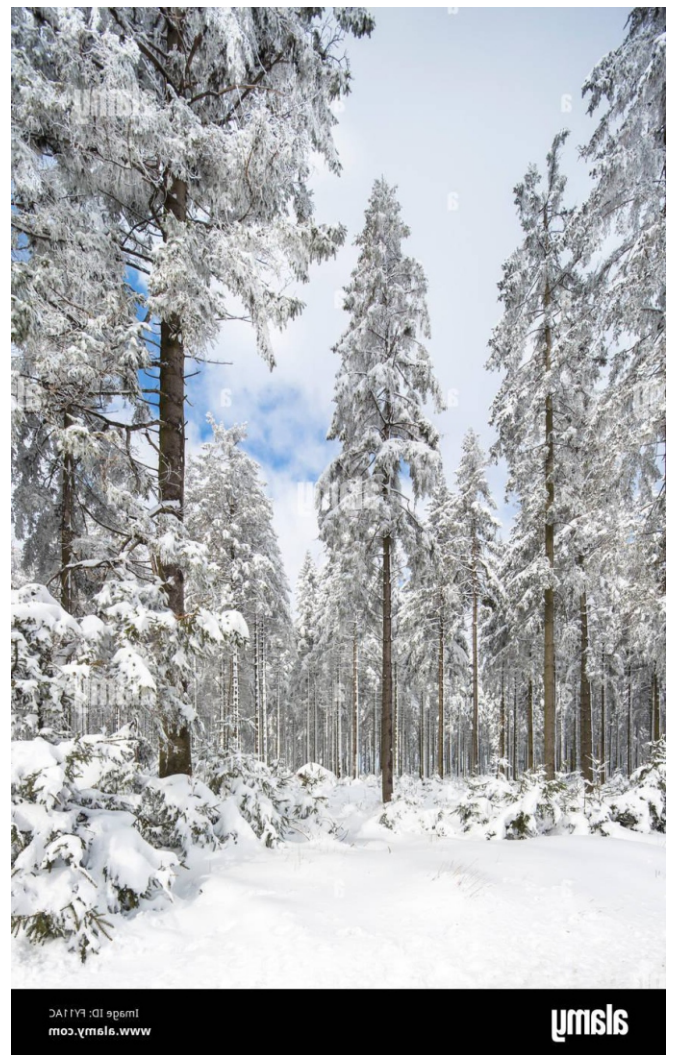
! If the size is between two sizes, a larger size is recommended

Size	Neck	Chest	Back
M	11.5-15.5"(29-40cm)	21.5-29.5"(55-75cm)	19.0-22.5"(48-57cm)
L	15.0-19.0"(38-48cm)	25.5-33.5"(65-85cm)	19.5-25.0"(50-64cm)
XL	18.0-21.0"(46-54cm)	29.5-37.5"(75-95cm)	21.5-26.0"(55-66cm)
2XL	21.0-25.0"(54-64cm)	33.5-41.5"(85-105cm)	23.5-28.5"(60-73cm)
3XL	25.0-29.0"(64-74cm)	37.5-45"(95-115cm)	25.0-30.0"(63-76cm)



NOTE: Manual measurement exists 0.5-1 inch(1-3cm) error.

Reference

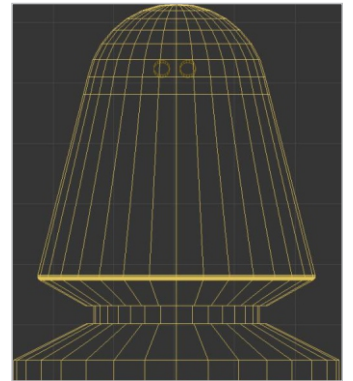
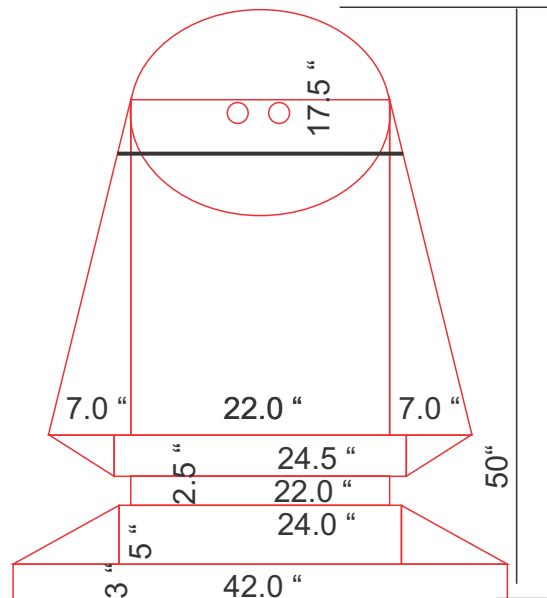


Painting Quality



Details provided in Annexure K-04

GONE FOREVER



Ocean water - Model

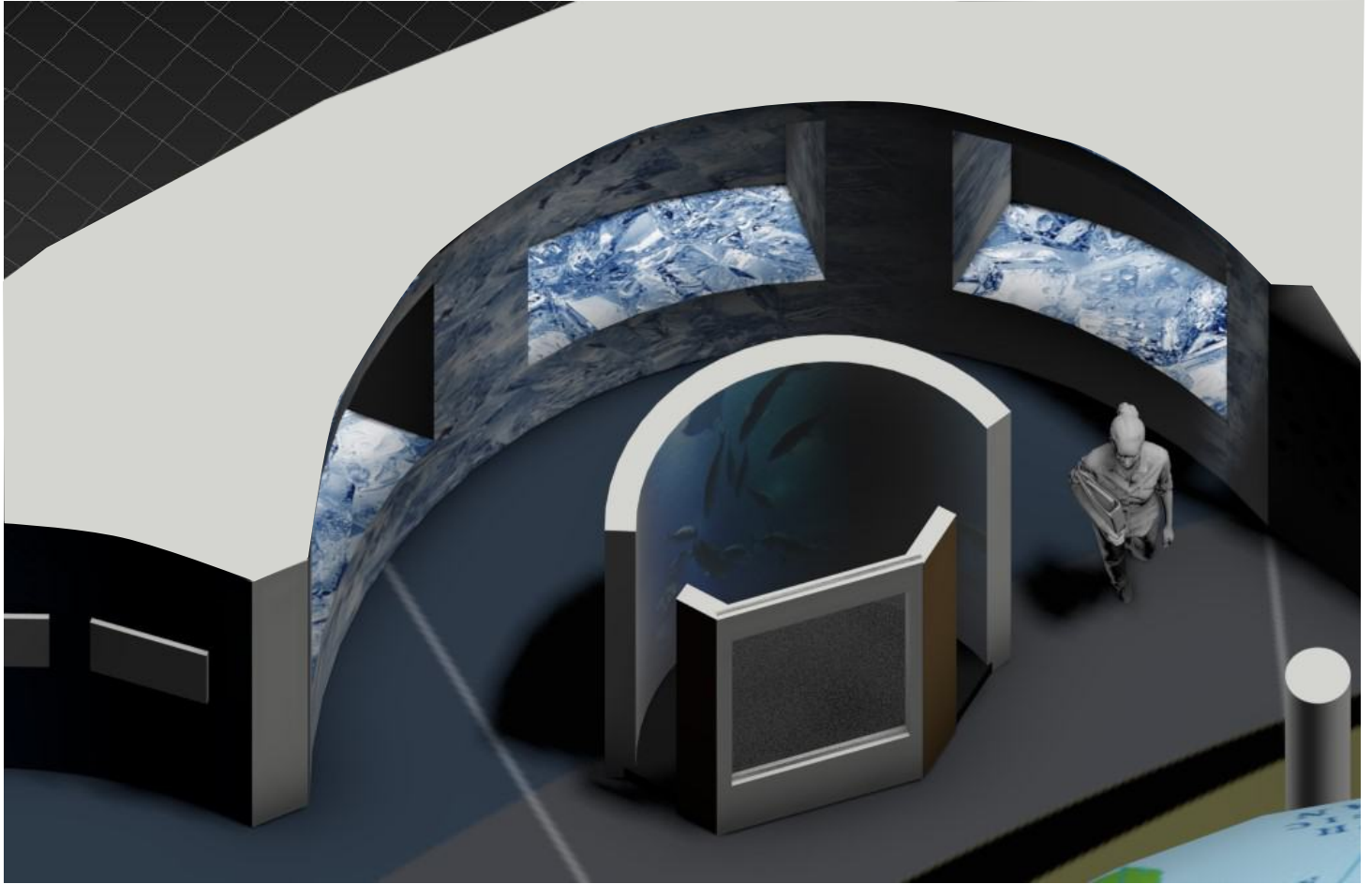
1. Inside deep ocean with fishes (fiber glass Opaque with semi transparent inside light) Realistic finish water look (epoxy resin for transparent look) Size: 39.5 inch height base diameter 36 inch (2 separate part for Maintenance, Lower part 27.5 inch and top part 12 inch)
2. One Realistic Rat (Bramble Cay melomys) Size: without tail 9 inch, Use realistic eye and body skin.
3. Two side wall painting (Canvas) of Sunderbans with relief of Prop roots (10'x8')x2 mangrove
4. Realistic finish with industrial colour (NC base)
5. Necessary reinforcements as suggested by the authorities of Science City should be provided in the form of 3mm/ 6mm thick MS flat or angles. GI pipes of requisite diameter with flat metallic base should be inserted to provide support and stability of the model.
6. Fibreglass (FRP) casting with a thickness of 6 mm, sheet metal and mixed media *Isophthalic Resin for indoor* mat quality 450 grad.
7. Model should be as real as possible.
8. For making this diorama any other image may also be used as reference, with prior approval from the authorities of Science City, Kolkata.

mangrove



Details provided in Annexure K-05

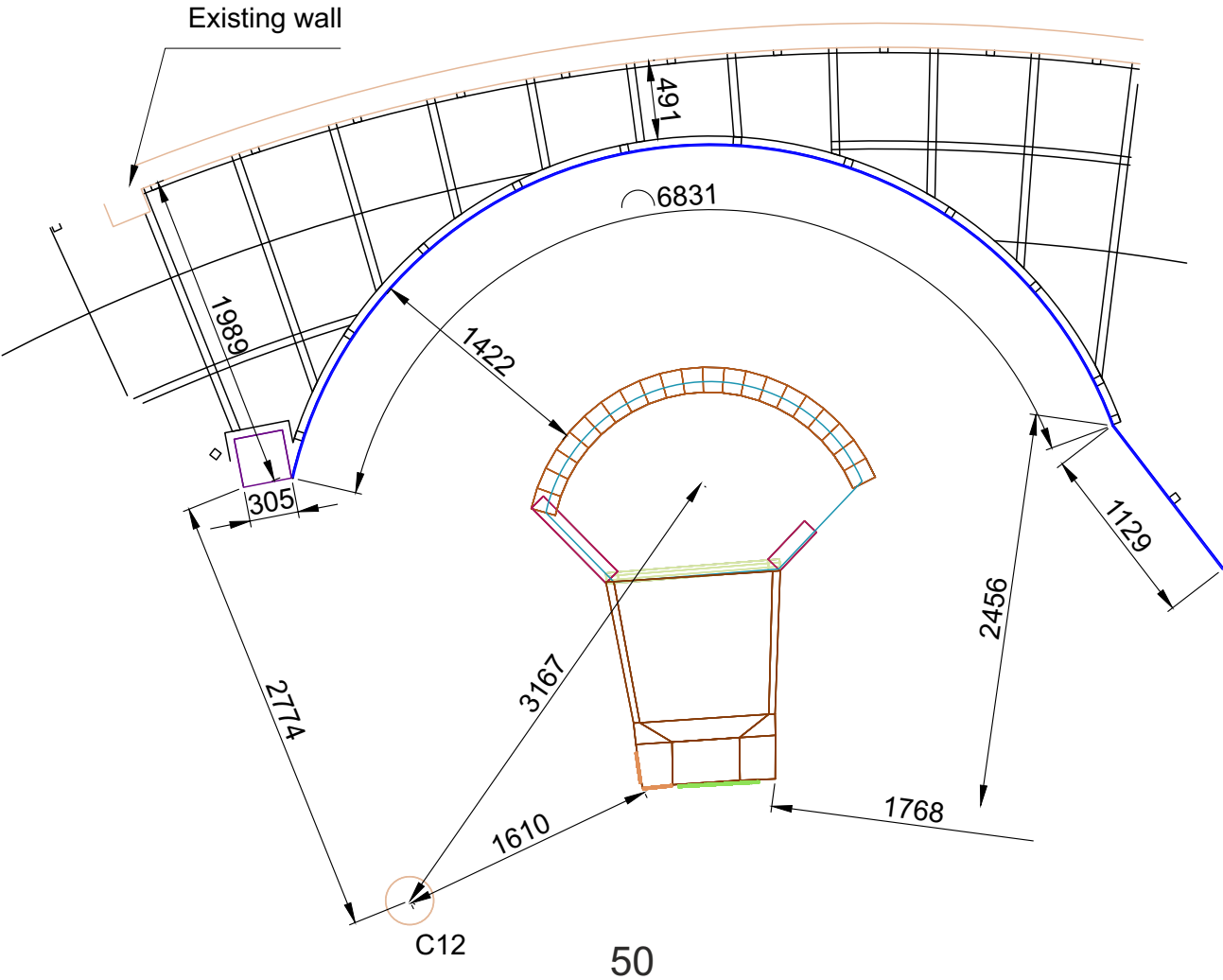
VANISHING ICE



Vanishing Ice - Model

1. Realistic ice cave (left, right and top) fiber glass Opaque with semi transparent inside light, Size: Left Side (22'5" X 8'-(6x8 not required), Right (9'5"X8') & with Top (7' X approx 15' length)
2. Realistic finish with industrial colour (NC base)
3. Necessary reinforcements as suggested by the authorities of Science City should be provided in the form of 3mm/ 6mm thick MS flat or angles. GI pipes of requisite diameter with flat metallic base should be inserted to provide support and stability of the model.
4. Fibreglass (FRP) casting with a thickness of 8 mm, sheet metal and mixed media
Isophthalic Resin for indoor mat quality 450 grad.
5. Model should be as real as possible.
6. For making this diorama any other image may also be used as reference, with prior approval from the authorities of Science City, Kolkata.

Reference



Details provided in Annexure K-06

BLEACHED CORAL



Corals - Model with Diorama

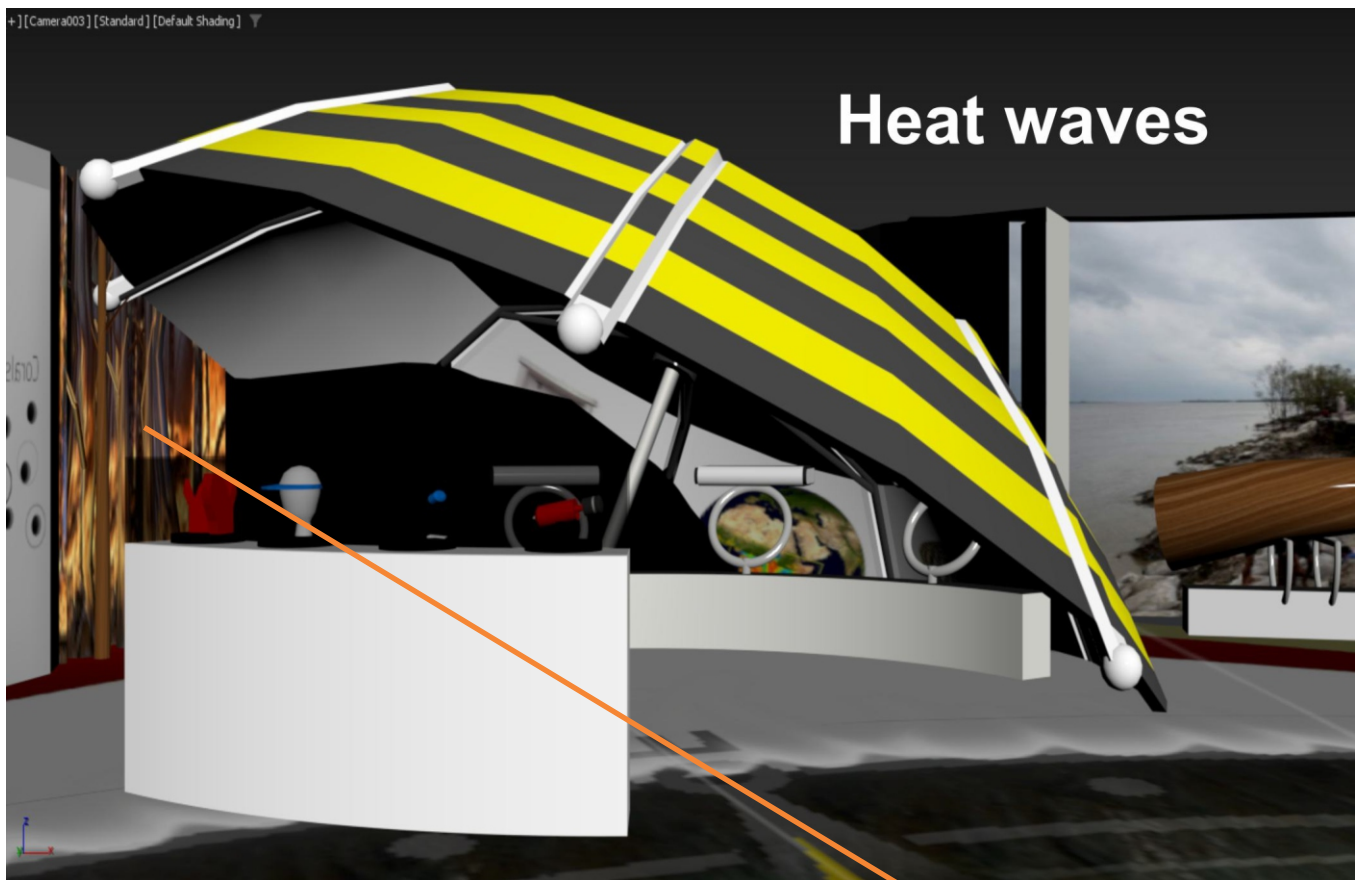
1. Realistic Corals with stone (look ocean floor (left, right and top) fiber glass, Size: Left Side (6'5" X 8'), Right (6'5"X8), Centre (5' X approx 6' length) | 10-12 corals of 1' each.
2. Realistic finish with industrial colour (NC base)
3. Necessary reinforcements as suggested by the authorities of Science City should be provided in the form of 3mm/ 6mm thick MS flat or angles. GI pipes of requisite diameter with flat metallic base should be inserted to provide support and stability of the model.
4. Fibreglass (FRP) casting with a thickness of 8 mm, sheet metal and mixed media
Isophthalic Resin for indoor mat quality 450 grad.
5. Model should be as real as possible.
6. For making this diorama any other image may also be used as reference, with prior approval from the authorities of Science City, Kolkata.

Reference



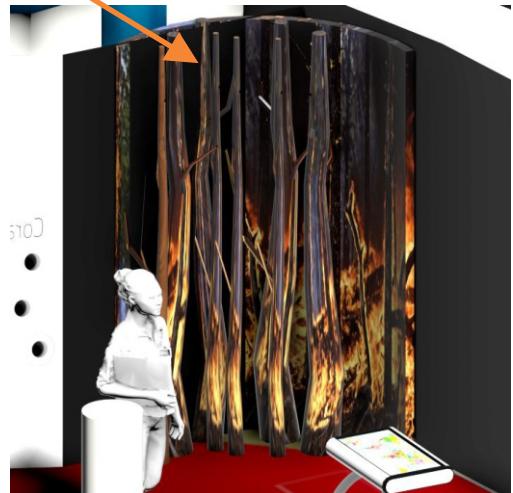
Details provided in Annexure K-07

HEAT WAVE



Model & Diorama

1. Big Size umbrella fiber glass
Size: Diameter 20 ft x 8 ft height
2. Diorama, forest fire with 5 trees background paint on Canvas, Acrylic (8x7 ft) created ambience
3. Realistic finish with industrial colour (NC base)
4. Necessary reinforcements as suggested by the authorities of Science City should be provided in the form of 3mm/ 6mm thick MS flat or angles. GI pipes of requisite diameter with flat metallic base should be inserted to provide support and stability of the model.
5. Fibreglass (FRP) casting with a thickness of 8 mm, sheet metal and mixed media *Isophthalic Resin for indoor* mat quality 450 grad.
6. Model should be as real as possible.
7. For making this diorama any other image may also be used as reference, with prior approval from the authorities of Science City, Kolkata.



Painting Quality



Reference



Details provided in Annexure K-08

CYCLONES



Diorama

1. Fallen trees with roots on broken home, fiber glass, Size: Tree Height 10 ft , diameter 3 feet, House 8 feet height, width 6 feet Depth 2 feet with created ambiance and house and background painting of Acrylic.
2. Realistic finish with industrial colour (NC base)
3. Necessary reinforcements as suggested by the authorities of Science City should be provided in the form of 3mm/ 6mm thick MS flat or angles. GI pipes of requisite diameter with flat metallic base should be inserted to provide support and stability of the model.
4. Fibreglass (FRP) casting with a thickness of 8 mm, sheet metal and mixed media *Isophthalic Resin for indoor* mat quality 450 grad.
5. Model should be as real as possible.
6. For making this diorama any other image may also be used as reference, with prior approval from the authorities of Science City, Kolkata.

Reference



shutterstock.com • 1007870131



Details provided in Annexure K-09

STORM SURGE



Model

1. Old building 7x8 ft, gate pillar 2x2x7 ft and stone 2x2x6 ft with floor 5x10 ft, fiber lass
2. Realistic finish with industrial colour (NC base)
3. Necessary reinforcements as suggested by the authorities of Science City should be provided in the form of 3mm/ 6mm thick MS flat or angles. GI pipes of requisite diameter with flat metallic base should be inserted to provide support and stability of the model.
4. Fibreglass (FRP) casting with a thickness of 8 mm, sheet metal and mixed media *Isophthalic Resin for indoor* mat quality 450 grad.
5. Model should be as real as possible.
6. For making this diorama any other image may also be used as reference, with prior approval from the authorities of Science City, Kolkata.

Reference



Details provided in Annexure K-10

BIRD MIGRATION



Model

1. 10 birds actual size, piece of land (Top Diameter 8 ft, base Diameter 4 ft x 1.5 ft) with globe, base, including set, Height 10ft
2. Realistic finish with industrial colour (NC base)
3. Necessary reinforcements as suggested by the authorities of Science City should be provided in the form of 3mm/ 6mm thick MS flat or angles. GI pipes of requisite diameter with flat metallic base should be inserted to provide support and stability of the model.
4. Fibreglass (FRP) casting with a thickness of 8 mm, sheet metal and mixed media *Isophthalic Resin for indoor* mat quality 450 grad.
5. Model should be as real as possible.
6. For making this diorama any other image may also be used as reference, with prior approval from the authorities of Science City, Kolkata.

A

Crab Plover *Dromas Ardeola*



40 cm (16 inches) long

B

Black-tailed godwit (*limosa limosa*)



length of 40–44 cm, a wingspan of 63–75 cm and a weight of 200–300 g

C

Indian Skimmer *Rynchops Albicollis*



40 to 43 cm in length and has a wingspan of 110 cm

D

Greater Flamingo *Phoenicopterus Roseus*



up to 187 cm (74 in) tall and to weigh 4.5 kg (9.9 lb)

E

Lesser Flamingo *Phoenicopterus minor*



standing height is around 80 to 90 cm (31 to 35 in). The total length (from beak to tail) and wingspan are in the same range of measurements, from 90 to 105 cm

F

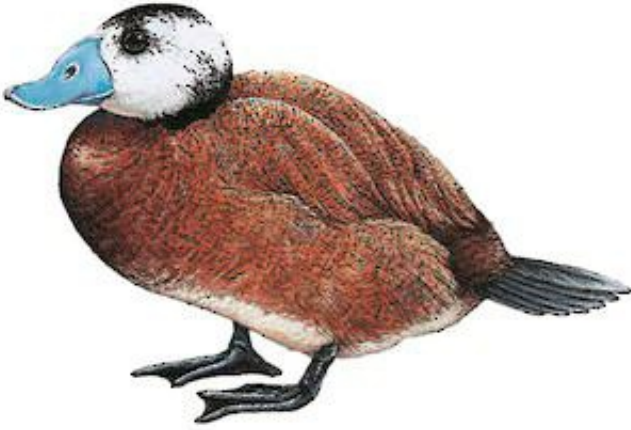
Common Pochard



40 to 50 cm in length

G

White-headed Duck *Oxyura Leucocephala*



45 cm (18 in) long

H

European Roller



29–32 cm (11–13 in) in length with a 52–58 cm (20–23 in) wingspan

I

Sociable Lapwing *Vanellus Gregarius*



27–30 cm (11–12 in) in length

J

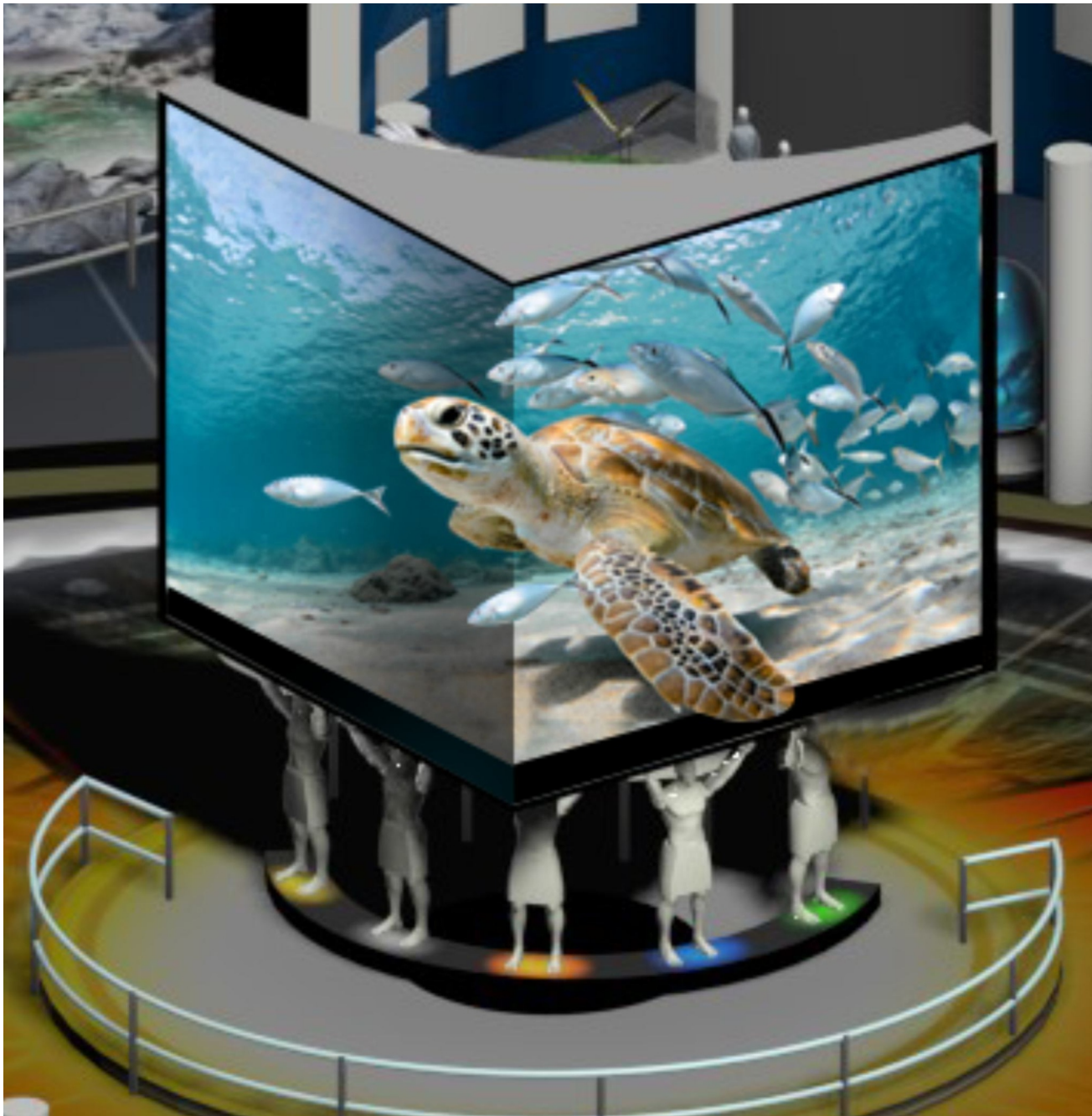
Black-bellied Tern *Sterna acuticauda*



length of 32 to 35 cm (13 to 14 inches)

Details provided in Annexure K-11

FIVE ELEMENTS



Model

1. 5 Standing human as a pillar Height 4.5 ft (Basic 1 model, another Model some small changes)
2. Finish with industrial white colour (NC base)
3. Necessary reinforcements as suggested by the authorities of Science City should be provided in the form of 3mm/ 6mm thick MS flat or angles. GI pipes of requisite diameter with flat metallic base should be inserted to provide support and stability of the model.
4. Fibreglass (FRP) casting with a thickness of 8 mm, sheet metal and mixed media *Isophthalic Resin for indoor* mat quality 450 grad.
5. Model should be as real as possible.
6. For making this diorama any other image may also be used as reference, with prior approval from the authorities of Science City, Kolkata.



Block shape Sculpture

Details provided in Annexure K-12

HERITAGE UNDER SEIGE



Model

1. 5 iconic model Height 4 ft (approx with proportionate width 30 inch and depth 8 inch)
2. Realistic finish with industrial colour (NC base)
3. Necessary reinforcements as suggested by the authorities of Science City should be provided in the form of 3mm/ 6mm thick MS flat or angles. GI pipes of requisite diameter with flat metallic base should be inserted to provide support and stability of the model.
4. Fibreglass (FRP) casting with a thickness of 8 mm, sheet metal and mixed media
Isophthalic Resin for indoor mat quality 450 grad.
5. Model should be as real as possible.
6. For making this diorama any other image may also be used as reference, with prior approval from the authorities of Science City, Kolkata.

Look

Scotland UK

edinburgh castle



Tanzanian
Kilwa Kisiwani is part of local and national identity
"I think heritage is important to us because... it's what defines us... it's part of our identity. It's part of our surroundings, and it's what makes us who we are now!" - Neema Teshi, Architecture student, University of Dar Es Salaam

Easter Island

Rapa Nui



Polynesia
However, this stunning island and its culture are in peril
As sea levels rise and storms get worse, the coast around Rapa Nui is undermined and coastal heritage like the iconic moai are being lost to the ocean. See the climate crisis in action.

Bangla desh

Mosques



Bagerhat
The buildings are decaying due to extreme salinity
As a low-lying site, when the sea level rises, this increases the amount of salt water that seeps into the buildings. The expansion of water leaves salt behind, causing the murements to decay.

Northern coast Peru

Chan Chan



Chimú civilization
Climate change is also an issue in the Peruvian desert...
Chan Chan was once the capital city of the Chimú civilization on the northern coast of Peru. Between the 9th and 16th centuries, the metropolis was the largest Pre-Columbian city in South America.

East Africa

Kilwa Kisiwani's



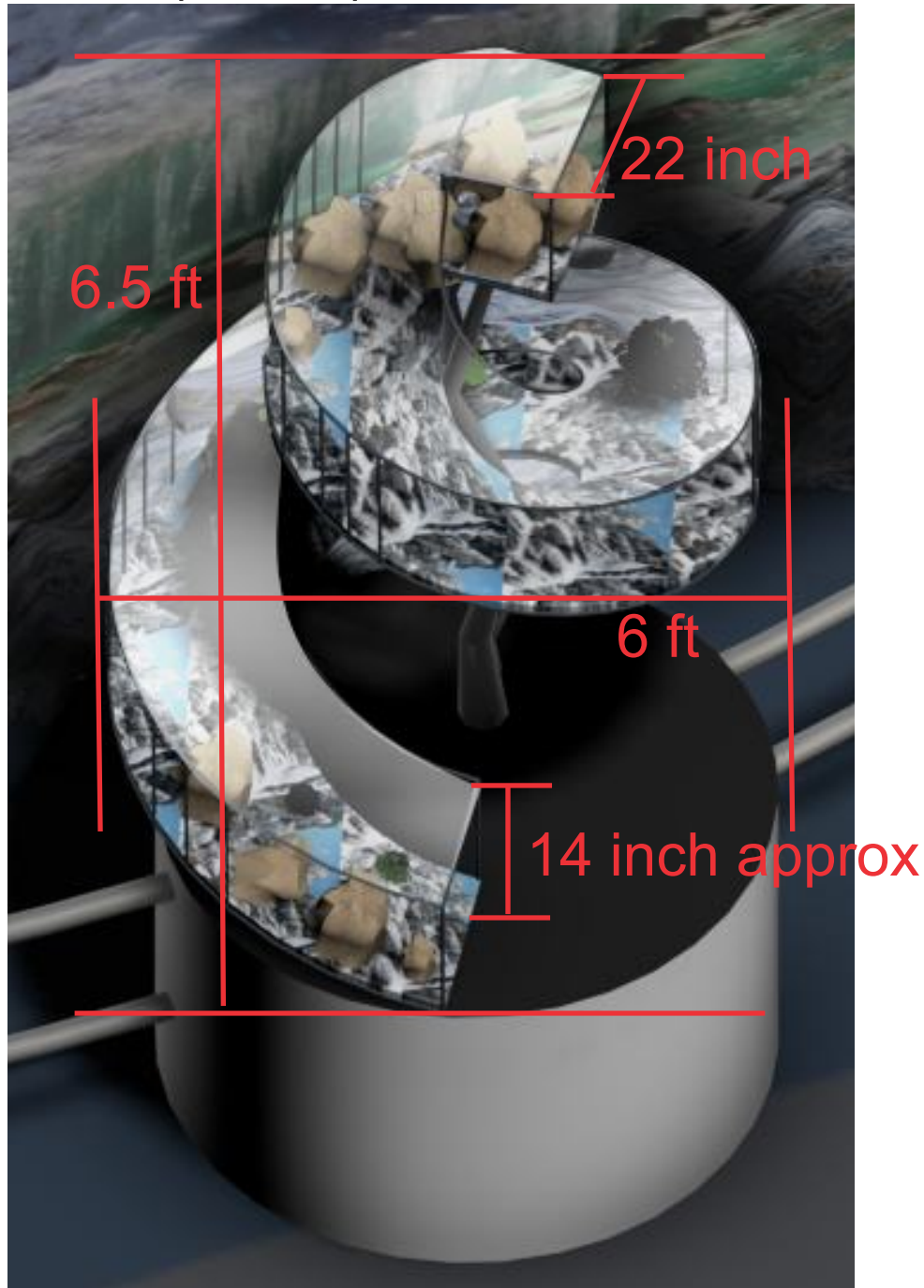
Tanzanian
Kilwa Kisiwani is part of local and national identity
"I think heritage is important to us because... it's what defines us... it's part of our identity. It's part of our surroundings, and it's what makes us who we are now!" - Neema Teshi, Architecture student, University of Dar Es Salaam

Reference



Details provided in Annexure K-13

HINDUKUSH (GLOF)



Model

1. Spiral shape Miniature Diorama model Height 6.5 ft diameter 6 ft, Spiral shape width 22 inch and Height 14 inch approx, and wall background painting (acrylic on canvas) with bottom part some relief (13x8 ft)
2. Realistic finish with industrial colour (NC base) Back ground 8x14 feet painting
3. Necessary reinforcements as suggested by the authorities of Science City should be provided in the form of 3mm/ 6mm thick MS flat or angles. GI pipes of requisite diameter with flat metallic base should be inserted to provide support and stability of the model.
4. Fibreglass (FRP) casting with a thickness of 8 mm, sheet metal and mixed media *Isophthalic Resin for indoor* mat quality 450 grad.
5. Model should be as real as possible.
6. For making this diorama any other image may also be used as reference, with prior approval from the authorities of Science City, Kolkata.

Look

Kedarnath Temple with nature,
snow, rock, hut, building, some
people, dogs, birds tree etc.



Reference



Painting



Reference



Painting Quality



Annexure – ‘L’

CHECK - LIST

Check list of Tender No. SCCY-EX-2023-24 (108) E-TENDER DOCUMENT FOR FABRICATION, SUPPLY AND INSTALLATION OF FIBERGLASS (FRP) MANNEQUINS, MODELS, SCULPTURES, DIORAMA AND PAINTINGS FOR ‘CLIMATE CHANGE GALLERY’ AT SCIENCE CITY, KOLKATA

Sl. No.	Description	Yes	No
01	Whether E-Tender uploaded on Central Public Procurement Portal of Govt. of India in two parts (i.e. Technical & Commercial) separately. (Please note that one set of original signed Technicalbid must be delivered at Science City, Kolkata before the time of bid opening).		
02	Whether Tender documents carefully studied & understood.		
03	Whether Tender documents duly signed and stamped on all pages is scanned and uploaded as Part – I of the Tender Document through CPP in Central Public Procurement Portal.		
04	Whether Declaration regarding Non-relation, duly signed and stamped, and scanned copy of the same uploaded as Part – I of the Tender Document through CPP in Central Public Procurement Portal as per Annexure-‘I’		
05	Whether Declaration certifying that there is no extra conditions quoted in the Offer Form duly signed and stamped, and scanned copy of the same uploaded as Part – I of the Tender Document through CPP in Central Public Procurement Portal as per Annexure-‘I’		
06	Whether Earnest Money of ₹1,59,083/- (One lakh fifty nine thousand eighty three only) submitted Online Demand Draft No.....dated..... and Scanned copy of DD uploaded as Part – I of the Tender. Please note that the original DD should be couriered /handdelivered to Science City, Kolkata / Online payment details shall be sent to Science City, Kolkata before last date of submission of the tender document.		
07	Did you visit the actual site for execution of the work/ supply before submitting the Tender		
08	In order to qualify the technical stage of the bid, selected tenderer will be called for presentation at Science City, Kolkata with sample work as per Annexure-‘F’ . (sample work to be submitted at the time of presentation)		

Date:
Place:

Signature of the Tenderer
Official Seal

Tender Inviting Authority: Director, Science City, Kolkata

Name of Work:-FABRICATION, SUPPLY AND INSTALLATION OF FIBERGLASS (FRP) MANNEQUINS, MODELS, SCULPTURES, DIORAMA AND PAINTINGS FOR ‘CLIMATE CHANGE GALLERY’ AT SCIENCE CITY, KOLKATA-700046

SCCY-EX-2023-24 (108)

Name of the Bidder/ Bidding Firm / Company :						
<div>PRICE SCHEDULE</div> <div>(DOMESTIC TENDERS - RATES ARE TO GIVEN IN RUPEES (INR) ONLY)</div> <div>(This BOQ template must not be modified/replaced by the bidder and the same should be uploaded after filling the relevant columns, else the bidder is liable to be rejected for this tender. Bidders are allowed to enter the Bidder Name and Values only)</div>						
NUMBER #	TEXT #	NUMBER #	NUMBER	NUMBER #	NUMBER #	TEXT #
Sl. No.	Item Description	BASIC RATE In Figures To be entered by the Bidder in Rs. P	GST 18% (CGST @9% and SGST @9%) Amount in INR	TOTAL AMOUNT Without Taxes Rs. P	TOTAL AMOUNT With Taxes Rs. P	TOTAL AMOUNT In Words
1	2	7	9	13	14	15
1	Fabrication, Supply, Installation and Commissioning of Fibreglass (FRP) Mannequins, Models, Sculptures, Diorama and Paintings for "Climate Change Gallery" at Science City,					
1.01	Total composite rate of the bidder for execution of work as per detailed BOQ and technical drawings (Annexure K) for Climate Change Gallery at Science City, Kolkata. Item wise Break up of lump sum quoted amount to be uploaded (in pdf format as per Annexure-B of the e-tender document) in the finacial bid envelope.	0.00	18.00	0.00	0.00	INR Zero Only
Total in Figures				0.00	0.00	INR Zero Only
Quoted Rate in Words		INR Zero Only				