Ministry of Culture
Government of India

सत्यमेव जयते

National Council of Science Museums

(Ministry of Culture, Govt. of India)

E-TENDER DOCUMENT FOR RENOVATION OF PREHISTORIC LIFE GALLERY WITH FABRICATION OF DINOSAURS AND PREHISTORIC ANIMAL & PLANT MODELS

At

NATIONALSCIENCE CENTRE

(A Unit of National Council of Science Museums)
PRAGATI MAIDAN, BHAIRON ROAD
NEWDELHI-110001

NATIONALSCIENCECENTRE,

(A Unit of National Council of Science Museums)
NEAR GATE NO – 4, PRAGATI MAIDAN,
BHAIRON MARG, NEW DELHI-110001

TENDER No.NSCD/18011/E-Tender–15/2025–26

NOTICE INVITING E-TENDER

On-line Digitally signed e-tenders under QCBS (Quality and Cost Based Selection) method are invited in two Bid System from the competent and eligible agencies who satisfy the eligibility criteria enumerated in the Tender Documents for Renovation of Prehistoric Life Gallery with Fabrication of Dinosaurs and Prehistoric Animal and Plant Models, Sculptures, Diorama and Paintings at National Science Centre, Delhi. Interested agencies may download the tender documents from the Central Public Procurement Portal (CPPP): http://eprocure.gov.in/eprocure/app

Bid Document Published Date	30th July,2025(18:00)
Bid Document Download Start Date	30th July,2025 (18:00)
Bid Clarification Start Date	30th July,2025 (18:00)
Bid Submission Start Date	30th July,2025 (18:00)
Pre Bid Meeting	7th August,2025(12:00)
Bid Clarification End Date	19th August,2025 (14:00)
Bid Submission End Date	20th August, 2025 (15:00)
Technical Bid Opening Date	21st August, 2025 (16:00)
Financial Bid Opening date	Shall be communicated later on
Date of Technical Presentation to be made at National Science Centre, Bhairon Marg, New Delhi -110001	To be announced later on
Estimated Cost	**₹299.16Lakhs**
Earnest Money Deposit	**₹7,47,900/-**

The online bid both Technical Bid and Financial Bid, should be uploaded by the due date and time as per the above schedule. The responsibility to ensure the same lies with the bidders. Off-line tenders shall not be accepted and no request in this regard will be entertained whatsoever. Online Technical Bid will be opened at the first instance in National Science Centre, Delhi **at 04:00 p.m. on 21st August 2025** for technical evaluation as well as selection of technically acceptable offers. In the second stage, the Financial Bids of only the selected and techno-commercially acceptable offers will be opened. Decision of the Centre, regarding selection of eligible and qualified vendors / firms for opening the Financial Bid shall be final and binding on the bidders. Bidders may be present during opening of tenders.

NSCD reserves the right to accept or reject any or all tenders in full or part without assigning any reason whatsoever. NSCD shall also not be bound to accept merely the lowest tender but the superior workmanship and fineness of the fibreglass (FRP) work finish of Silicon rubber skin of dinosaurs with detailing; creating of water body using epoxy resin shall be of prime consideration for selection.

1. TheE-Tenderer should fulfill the following eligibility criteria:-

The bidder should be an agency/individual/professionals/organization/Firm/Company/ consortium/JV having professional & proven experience in executing of fiberglass (FRP) Mannequins, Models, Sculptures, Diorama and Painting works etc. in reputed museums, art galleries, spiritual places and such other similar spaces at International/ central/ state level. The bidder should have past experience, technical and financial capabilities on the lines mentioned below.

a) Accomplished and completed such /similar project of repute successfully as under during the last 7 financial years ending July 2025:
   i. Minimum one project of 80% of the estimated cost or
   ii. Two projects of 50% of estimated cost or
   iii. Three projects of40% of estimated cost.

   (in case of consortium / JV, work experience of either of the Partners or combined work experience will be considered)

   Note: Credentials pertaining to similar work of in executing of fiberglass (FRP) Mannequins, Dinosaurs Models with silicon skin, Sculptures, Diorama and Painting works etc. in reputed museums, art galleries, spiritual places and other similar spaces at International/ central/ state level will be considered as similar works.

   Details to be provided in **Annexures –D-1.**

b) Technical Expertise**:** The bidder should have a recognition of work, appreciation letters from Central Govt. and Reputed Organizations, winning of national level design competitions and awards.

c) Financial soundness-The applicant should have:
   i. PAN&GST registration(proof to be submitted)
   ii. Turnover Eligibility : The Average Annual Turnover of the Bidder for the best of three of the last five financial years (2021-22, 2022-23, 2023-24, 2024-25) should be minimum INR 3.00Crore. (in case of consortium/JV, turnover of Lead Partner will be considered) (**Annexure- D-1**)

d) Intending agency should be an independent legal entity, registered under the applicable Act for running business of similar nature. (**Annexure –D-1.)**

e) The firm/ agency should never have been blacklisted by any of the central/ state Govt. organization and no criminal case should be pending against the firm/ agency. An affidavit it is required to be submitted to this effect. If the information provided is found to be false at a later date, necessary penal action shall be taken at the risk and cost of the agency **(Annexure-D-2).**

f) The agency shall provide the details of recognition of work, appreciation letters from Central Govt. and International Organizations of reputed organization, winning of national level design competitions and awards.

EVALUATION METHODOLOGY

Evaluation Methodology will have two stages:

Stage1-GeneralcumTechnical Bid Evaluation

Stage 2- Financial Bid Evaluation

Stage–1 General cum Technical Bid Evaluation

The submitted bids will be evaluated first for the conformity with the eligible criteria. The evaluation will involve validating the credentials submitted in the format as prescribed. **Credentials without valid proof will be invalid and will not be considered for eligibility.** The Council reserves the right to accept or reject proof of credentials at its sole discretion without having to give reasons to the Bidders thereof. In case of any agency fail to comply with the eligibility criteria, the agency will not be considered for technical presentation and further evaluation.

Only those who qualify the eligibility criteria will be intimated about the venue, date, time and duration for making a presentation about their designs along with 3D models etc. for the proposed work, proposed implementation methodology, project management methodology and on- site execution methodology to be adopted by them. The presentations are to be made before the Technical Evaluation Committee (TEC) which will evaluate the proposals and award marking as per the format and weightage are given below.

The minimum qualifying score will be 70% of total marks as given below. Only those Bidders who fulfill guidelines of functional & technical requirements and score 70% or above in technical bid evaluation will be short listed for financial bid opening.

Technical Bid Evaluation and award marking shall be done as per the format and weightage as under: -

S. No.	Required Experiences	Max. Score	Qualifying Marks, wherever applicable
1.	**Experience**– Min.05 Years - 8 Marks More than 05 to 08 Yrs.- - 3Additional Marks Above 08 Years and above - 4 Additional Marks	15	8
2.	**Average annual turnover of {Lead Partner in case of consortium] during best three of the last five years (2020-21,2021-22, 2022-23, 2023-24, 2024-25,)** Min.3 Crore -8 Marks 4 Crore– 5 Crore -3Additional Marks 5 Crore & Above - 4Additional Marks	15	8

3.	**Work Experience of completing similar projects:-** i) Minimum fulfillment of criteria of similar work as per1(a) above – 8 Marks ii) One Additional Project - 3 Additional Marks iii) 02 or more Additional projects - 4 Additional Marks	15	8
4.	Recognition of work, appreciation letters from Central Government, State Government and reputed organizations. Winning of national level design competitions and awards from reputed organization. Enclose copies of documentary proof. Having received 3 National/ International recognitions / awards from reputed organization - 10Marks Having received 2 National/ International recognition / awards from reputed organization - 6 Marks Having received 1 National/ International recognition/awards from reputed organization - 3 Marks	10	Nil
5.	Technical presentation by the bidder will involve following aspects: Diorama with walk over bridge depicting the Permian sea. Theme : Depiction of life diversity in Permian sea after Cambrian: length 30 inch, height 6" inch and width 12 inch) as per details mentioned in ' **Annexure-D-3"** • Marking will be done on following counts: Finishing - 9marks Realistic - 9marks Proportion - 9marks Aesthetics - 9marks Overall Composition - 9Marks	45	25
	Total Marks	**100**	

Stage-2:Evaluation of Financial Bid

a. Bidders are required to mention clearly the details of the taxes and duties applicable on the basic cost quoted in the financial bid.

b. The Financial Bids of the technically qualified bidders will be opened online through CPP Portal.

c. The bidder with the lowest financial bid (L1)will be awarded100%score.

d. Financial Scores for other than L1 bidders will be evaluated using the following formula: Financial Score of a Bidder = {(Financial Bid of L1/Financial Bid of the Bidder) x 100} % (Adjusted to two decimal places)

Note:

1. **Only fixed price financial bids indicating total price for all the work together specified in this bid document will be considered.**

2. **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".**

Combined Evaluation of Technical & Financial Bids

a. The technical and financial scores secured by each bidder will be added using weightage of 70% and 30% respectively to compute a Composite Bid Score.

b. The bidder securing the highest Composite Bid Score will be declared as the Best Value Bidder for award of the work. The award of work will be given to the single successful bidder and will not be split. In the event the bid composite bid scores are "tied", the bidder securing the highest technical score will be declared as the Best Value Bidder for award of the Project.

CHECK-LIST

Check list of Tender No. NSCD/18011/E-Tender-No – 15 / 2025-26 **Renovation of Prehistoric Life Gallery with Fabrication of Dinosaurs and Prehistoric Animal Models, Sculptures, Diorama and Paintings at National Science Centre, Delhi**

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 Technical bid must be delivered at NSC, Delhi before the time of Bid opening).		
02	Whether Tender documents carefully studied & understood.		
03	Whether Tender document is duly signed and stamped on all pages is scanned and uploaded as Part – I of the Tender 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 in Central Public Procurement Portal. **Annexure-C**		
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 in Central Public Procurement Portal. **Annexure-C**		
06	Weather Earnest Money of **₹7,47,900/-** 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 /hand delivered to NSC Delhi / Online payment details shall be sent to NSCD 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 NSC Delhiwithsampleworkasper**Annexure„D-3"**. (sample work to be submitted at the time of presentation)		

Date: Signature of the Tenderer
Place: Official Seal

General Information and Instructions

1. Theinstructiongivenhereinwillbestrictlybindingonthetenderersanddeviation, if any will make the tender or tenders liable to be considered invalid. Tenders in corporating additional conditions by the tenderer are liable for rejection.

2. Bids shall be submitted online only at CPPP website: https://eprocure.gov.in/eprocure/appManual bids shall not be accepted.

3. The instruction given in **"Annexure-A" for "Instruction for Online Bid Submission"** should be strictly followed during submission of the Bid.

4. Bid documents may be scanned with 100 dpi with black and white option which helps in reducing size of the scanned document.

5. Bid should be submitted along with the **Earnest Money of ₹7,47,900/- (Rupees Seven Lakh Forty Seven Thousand Nine Hundred Only)** by way of crossed Demand Draft / Pay Order on any commercial Banks or payment online by NEFT/RTGS, Bank Guarantee / Bond payable in favor of **"NATIONAL SCIENCE CENTRE, Payable at DELHI**". Earnest Money deposit in respect of such offers which are not accepted will be returned to the bidders within 30 working days from the date on which the final decision is taken about the source from which the items under tender are to be procured or within 2 (two) months from the date of the opening of the tenders, whichever is earlier. No interest will be paid on the Earnest Money deposited with the Council. Earnest Money deposit in respect of the successful bidders will be retained with the NSCD until entire execution of the order as per terms of the tender. If the successful bidder fails to execute the order strictly as per the NSCD"s specification in full or part within the stipulated delivery period of the tendered items purchase order, the Earnest Money deposit retained with the NSCD shall be forfeited forthwith after cancellation of the concerned order.

6. **Validity of Bids**: The Bids should remain valid for 90 days from the date of bid opening.

7. **Rejection of Bids:** Canvassing by the Bidder in any form, unsolicited letter and post-tender correction may invoke summary rejection. Conditional tenders will be rejected. Non-compliance of applicable General Information and Instruction will disqualify the Bid.

8. The tenderers should have Digital Signature Certificate (DSC) for filling up the Bids. The Person signing the tender documents should be authorized for submitting the on line e-tender.

9. The Financial Bid (BOQ) shall be filled in and signed by the authorized signatory online as per Proforma **"Annexure-G"** available at Central Public Procurement Portal e-tender system website http://eprocure.gov.in/eprocure/app.Off line Financial Bid shall not be accepted.

10. **Tender must be uploaded on-line in two separate sets - namely Set – 1 (Technical) on Central Public Procurement Portal. The contents of Cover shall be as follows:-**

Set–1

a) **Technical (Techno-Commercial) BID duly filled-in and signed with official stamp. (as per Annexure-D-1)**
b) **General Terms & Conditions (as detailed in Annexure-B) duly signed with official stamp as a token of acceptance**
c) **Scanned Copy of the current and valid Trade License and Dealership Certificate as applicable.**
d) **Scanned Copy of the current and valid Tax Clearance Certificate.**
e) **The "Declaration Bank Guarantee /Bond duly signed with official stamp (as detailed in Annexure-C).**
f) **The "Technical Specification" as detailed in Annexure-E duly signed with official stamp.**
g) **Technical Brochures of each equipment with technical explanation for every feature of the product offered by the bidder.**
h) **Scanned copy of Demand Draft for ₹7,47,900/- as Earnest Money Deposit or scanned copy of MSME certificate for exemption of EMD.**
i) **Tender Document comprising of complete NIT, Schedule Quantities/specification and drawing in pdf format (TENDERXXXXX.pdf file) digitally signed.**

Set-2

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

N.B. : The bidders shall consider the prevailing tax rates while quoting the rates. However, in the event of any changes in the statutory taxes and duties, the rates applicable at the time of payment shall be made by the competent authority of the NSC, Delhi against submission of supporting documentary evidence.

11. **Order shall be placed in favor of the bidder whose technical bid is acceptable and offered lowest rate in Overall items as per BOQ in Annexure–G.**

12. The authorities 0f National Science Centre, Delhi, does not bind themselves to accept the lowest tender, reserves the right to reject or accept any or all tenders wholly or partially without assigning and reason whatsoever.

ANNEXURE-A

NATIONALSCIENCECENTRE
(A Unit of National Council of Science Museums)
Bhairon Road, Near Gate No. 4, Pragati Maidan,
New Delhi-110001

TENDER No.: NSCD/18011/E-Tender–15/2025– 26

Instructions for Online Bid Submission

1. The bidders are required to submit soft copies of their bids electronically on the CPP Portal, using valid Digital Signature Certificates. The instructions given below are meant to assist the bidders in registering on the CPP Portal, preparetheir bids in accordance with the requirements and submitting their bids online on the CPP Portal.

2. More information useful for submitting online bids on the CPP Portal may be obtained at https://eprocure.gov.in/eprocure/app

REGISTRATION

1) Bidders are required to enroll on the e-Procurement module of the Central Public Procurement Portal (URL: https://eprocure.gov.in/eprocure/app) by clicking onthe link "**Online bidder Enrollment**" on the CPP Portal which is free of charge.

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

3) Bidders are advised to register their valid email address and mobile numbers as part of the registration process. These would be used for any communicate on from the CPP Portal.

4) Upon enrolment, the bidders will be required to register their valid Digital Signature Certificate (Class II or Class III Certificates with signing key usage) issued by any Certifying Authority recognized by CCA India (e.g. Sify / nCode / e-Mudhra etc.), with their profile.

5) Only one valid DSC should be registered by a bidder. Please note that the bidders are responsible to ensure that they do not lend their DSC"s to others which may lead to misuse.

6) Bidder then logs into the site through the secured log-in by entering the user ID /password and the password of the DSC/e-Token.

SEARCHINGFORTENDERDOCUMENTS

1) There are various search options built in the CPP Portal, to facilitate bidders to search active tenders by several parameters. These parameters could include Tender ID, Organization Name, Location, Date, Value, etc. There is also an option of advanced search for tenders, wherein the bidders may combine a number of search parameters such as Organization Name, Form of Contract, Location, Date, Other keywords etc. to search for a tender published on the CPP Portal.

2) Once the bidders have selected the tender they are interested in, they may download the required documents / tender schedules. These tenders can be moved to the respective "My Tenders" folder. This would enable the CPP Portal to intimate the bidders through SMS /e-mail in case there is any corrigendum issued to the tender document.

3) The bidder should make a note of the unique Tender ID assigned to each tender, in case they want to obtain any clarification / help from the Helpdesk.

PREPARATION OF BIDS

1) Bidder should take into account any corrigendum published on the tender document before submitting their bids.
2) Please go through the tender advertisement and the tender document carefully to understand the documents required to be submitted as part of the bid. Please note the number of covers in which the bid documents have to be submitted, the number of documents - including the names and content of each of the document that need to be submitted. Any deviations from these may lead to rejection of the bid.
3) Bidder, in advance, should get ready the bid documents to be submitted as indicated in the tender document / schedule and generally, they can be in PDF / XLS / RAR / DWF/JPG formats. Bid documents may be scanned with 100 dpi with black and white option which helps in reducing size of the scanned document.
4) To avoid the time and effort required in uploading the same set of standard documents which are required to be submitted as a part of every bid, a provision of uploading such standard documents (e.g. PAN card copy, annual reports, auditor certificates etc.) has been provided to the bidders. Bidders can use "My Space" or „"Other Important Documents"" area available to them to upload such documents. These documents may be directly submitted from the "My Space" area while submitting a bid, and need not be uploaded again and again. This will lead to a reduction in the time required for bid submission process.

SUBMISSION OF BIDS

1) Bidder should login to the site well in advance for bid submission so that they can upload the bid in time i.e. on or before the bid submission time. Bidder will be responsible for any delay due to other issues.

2) The bidder has to digitally sign and upload the required bid documents one by one as indicated in the tender document.

3) Bidders should submit the EMD as per the instructions specified in the tender document. The original instrument should be posted/couriered/given in person to the Tender processing Section at the above address, latest by the last date of bid submission. The detail of the Demand Draft / any other accepted instrument, physically sent, should tally with the details available in the scanned copy and the data entered during bid submission time, otherwise the uploaded bid will be rejected. Exemption will be given to the MSME/NSIC registered agencies having certificate of similar work for submission of EMD.

4) A standard Price Schedule format (BOQ) has been provided with the tender document to be filled by all the bidders. Bidders are requested to note that they should necessarily submit their financial bids in the format provided and no other format is acceptable. If the price bid has been given as a standard BOQ format with the tender document, then the same is to be downloaded and to be filled by all the bidders. Bidders are required to download the BOQ file, open it and complete the Light Blue colored (unprotected) cells with their respective financial quotes and other details (such as name of the bidder). No other cells should be changed. Once the details have been completed, the bidder should save it and submit it online, without changing the filename. If the BOQ file is found to be modified by the bidder, the bid will be rejected.

5) The server time (which is displayed on the bidder's dashboard) will be considered as the standard time for referencing the deadlines for submission of the bids by the bidders, opening of bids etc. The bidders should follow this time during bid submission.

6) All the documents being submitted by the bidders would be encrypted using PKI encryption techniques to ensure the secrecy of the data. The data entered cannot be viewed by unauthorized persons until the time of bid opening. The confidentiality of the bids is maintained using the secured Socket Layer 128 bit encryption technology. Data storage encryption of sensitive fields is done. Any bid document that is uploaded to the server is subjected to symmetric encryption using a system generated symmetric key. Further this key is subjected to asymmetric encryption using buyers/bid openers public keys.

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

8) Upon the successful and timely submission of bids (i.e. after Clicking "Freeze Bid Submission" in the portal), the portal will give a successful bid submission message & a bid summary will be displayed with the bid no. and the date & time of submission of the bid with all other relevant details.

9) The bid summary has to be printed and kept as an acknowledgement of the submission of the bid. This acknowledgement may be used as an entry pass for any bid opening meetings.

ASSISTANCE TO BIDDERS

1. Any enquiries relating to the tender document and the terms and conditions contained therein should be addressed to the Tender Inviting Authority for a tender or Any queries relating to the Tender may be addressed to kkhimnani@gmail.com, kkhimnani@rediffmail.com, nscdelhi10@gmail.com with proper credentials of the bidders before the bid clarification date thereafter no queries will be entertained.

2. Any queries relating to the process of online bid submission or queries relating to CPP Portal in general may be directed to the 24x7 CPP Portal helpdesk. The contact number for the helpdesk is 1800 233 7315.

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ANNEXURE-B

NATIONALSCIENCECENTRE
(A Unit of National Council of Science Museums)
Bharion Road, Near Gate No. 4, Pragati Maidan,
New Delhi-110001

TENDERNo.:No–15/2025-26

GENERALTERMS & CONDITIONS (GTC) FOR SUBMISSION OF TENDER

On-line digitally signed E-Tenders are invited from agencies having proven experience and capable in executing the work of ***Renovation of Prehistoric Life Gallery with Fabrication of Dinosaurs and Prehistoric Animal and Plant Models, Sculptures, Diorama and Paintings at National Science Centre, Delhi*** . Essential conditions of the Tender are as below:

1. **Submission of tender**: Technical Bid(Part-I)"as per format in **Annexure 'D-1**', should contain the following documents to establish the Bidders eligibility to the bid and his qualification to perform the contract if his bid is accepted.

a) **EARNEST MONEY** :Bid should be submitted along with the **Earnest Money of ₹7,47,900/- (Rupees Seven Lakh Forty Seven Thousand Nine Hundred only)** by way of crossed Demand Draft / Pay Order on any commercial banks / Bank Guarantee /Bond or payment online by NEFT/RTGS payable in favour of "NATIONAL SCIENCE CENTRE" payable at Delhi (Bank details of NSCD is attached). Earnest Money deposits in respect of such offers which are not accepted will be returned to the bidders within 30 working days from the date on which the final decision is taken about the source from which the items under tender are to be considered or within 2 (two) months from the date of the opening of the tenders, whichever is earlier. No interest will be paid on the Earnest Money deposited with the Council. Earnest Money deposit in respect of the successful bidders will be retained with the NSCD until entire execution of the order as per terms of the tender. If the successful bidder fails to execute the orders strictly as per the NSCD "specification in full or part within the stipulated delivery period of the Letter of Intent, the Earnest Money deposit retained with the NSCD shall be forfeited forthwith after cancellation of the concerned order.

b) The issued bid document (excluding BOQ), signed on each page by the authorized signatory of the bidder.
c) Attested copy of the firms partnership/ proprietorship deed/Memorandum of Association.
d) Power of Attorney in favor of the person signing the bid.

2. The firm must have valid TIN/GST/PAN Nos, Registration Certificates.

3. The successful tenderers shall submit the following documents within **7(seven)** Days from the date of placement of the order :-

i. Duplicate copy of the work order duly signed and stamped by the tenderer as a token of acceptance of the order.
ii. The original copy of the Agreement governing the terms and conditions of the Contract on non-judicial stamp papers.
iii. Security Deposit as contained in **Clause No. 16**.

4. In case, the successful tenderer refuses to accept the offer after finalization or does not comply with the Clause No.3 within 7 (seven) days from the date of placement of the order as per the finalized and accepted terms & conditions, the order shall be cancelled forthwith without any further reference and the EMD will be forfeited.

5. The authorities of the Centre reserve the right to amend, alter or modify the terms & conditions or quantities mentioned above if necessary.

6. The materials used by the successful tenderer shall conform to the description and/or specification given by the Centre. Sub-standard quality of materials will not be accepted. The samples must be got approved in advance from the competent authority of the Centre.

7. **No exemption will be allowed for submission of Security Deposit/Retention Money to NSIC/MSME certified firms. However, concession for submission of EMD shall be applicable to the Tenderers/Bidders registered with NSIC/MSME as per prevailing Govt. guidelines. The Tenderers/Bidders should upload document of the firm for claiming such exemption. Tenderer/Bidder must upload signed Annexure–D, if the bidder is registered under NSIC/MSME.**
8. 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 representative of the Centre. Decision of this Centre, as to items of bad workmanship and proper replacement/rectification will be final and binding on the successful tenderer.

9. Modifications, as and when required during the execution, whenever suggested by the competent authority, have to be carried out. Successful tenderer shall take the responsibility of such modifications without any additional expenditure. 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 representative of National Science Centre, Delhi. Decision of National Science Centre, Delhi, as to items of bad workmanship and proper replacement/rectification will be final and binding on the successful tenderer.
10. Specifications of the items under tender are as given in the enclosed drawings. However, if any ambiguity in the specification is detected it shall be promptly brought to the notice of National Science Centre, Delhi for clarifications. No deviation from the approved specifications shall be made by the successful tenderer without written approval of National Science Centre, Delhi.

11. The successful tenderer shall pay not less than minimum wages as prevailing in the concerned municipal area and shall abide by all and every kind of legislation that are incidental to and concerned with engagement of persons for the time being for carrying out and execution of the work. NSCD shall have no liability of any kind with regard to the workers of the successful tenderer.
12. The successful tenderer shall not under any circumstances whatsoever transfer wholly or partially this contract/agreement to any other person(s) firm/company or assign the contract/agreement or benefits of this contract/agreement to any other party for any reason whatsoever. Otherwise this contract/agreement will automatically stand cancelled.

13. The successful tenderer shall obtain necessary trade and other licenses as may be required to carry on the tendered job and shall also be responsible for compliance of all rules and regulations including the Contract Labor Regulations which maybe in force from time to time by the appropriate authority at his/their own cost.

14. The successful tenderer shall ensure that all wages and allied benefits as per statutory norms are paid to their workers for the purpose of this contract. The Agency shall remain liable to the authorities concerned for compliance of respective existing rules and regulations of the Govt. for the purpose of this contract and shall remain liable for any contravention thereof. They shall keep NSCD indemnified against any liabilities arising out of non-compliance of any of the acts, rules, orders of the Govt. /Council on their part.

15. **FORFEITURE OF EMD**:
In case the successful bidder fails to furnish security deposit or fails to submit the required documents at the time of agreement or does not turn up for agreement within the prescribed time limit, the EMD of the bidder shall be forfeited and the tender approval shall be cancelled.

16. **PERFORMANCE SECURITY / SECURITY DEPOSIT**:
The successful bidder will have to deposit the prescribed security **@ 3% of the approved tender value** adjusting 2.5% EMD in the form of crossed Demand Draft /Bank Guarantee / Pay Order of any commercial banks or payment online by NEFT/RTGS payable in favour of "NATIONAL SCIENCE CENTRE" payable at Delhi (Bank details of NSCD is attached).Earnest money deposited by the successful bidder will automatically be adjusted towards the security deposit. No interest will be payable on earnest money or security in any case. The security deposit shall be payable to NSCD as compensation for any loss resulting from the contractor's failure to complete its obligations under the contract.
The successful bidder will have to sign the contract agreement and furnish the required security deposit within 15 days of the acceptance of the tender.

The security deposit is liable to be forfeited in case the bidder violates the terms and conditions of the agreement in any manner.

17. **ACCESS:**

The Centre or its representatives shall, at all reasonable time, have free access to the works and/or to the workshops/factories or other places where the exhibits are for the contract and also to any places where materials are lying or from which they are being obtained and the successful tenderer shall give every facility to them for inspection, examination and testing of the materials and workmanship. Except the representative of Public Authorities and those mentioned above, no person shall be allowed on the works at any time without the prior written permission of the Centre.

INSPECTION:

i. The successful tenderer shall arrange for inspection of all raw materials by the authorized official of the Centre before the raw materials are used for fabrication of the ordered jobs.

ii. The successful tenderer shall also have to arrange for inspection of the job including other items at the site on completion of every stage and/or whenever desired by the authorized officer of the Centre. Any defect pointed out by the authorized officer of this Centre 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 for inspection and obtain approval of every stage of work including raw materials failing which action shall be taken as deem fit by the Centre. The decision of Centre in this regard shall be final and binding on the successful tenderer.

18. **PAYMENT TERMS**

No advance payment shall be made by this Centre under any circumstances. However, interim payment up to 50% of the value of work may be released at the discretion of this Centre on satisfactory completion of 75% of work. Online Payment shall be released within 30 days after satisfactory supply of the exhibits / material and submission of Pre-receipted Tax-Invoice duly supported by receipted challan and satisfactory inspection certificate issued by the competent authority of the Centre.

19. **TIME OF COMPLETION :**

Time is the essence of this contract. The entire work shall be completed within **120 days** from the date of placement of order. The work shall be executed as per the fabrication schedule given below. Inspection is to be carried out at the premises of the party at the end of each stage and if required in between also. If the progress of work is not found as per schedule, the order is liable to be cancelled and security deposit may be forfeited.

20. **PENALTY CLAUSE**

Every effort should be made to complete the work/job by the successful tenderer within the specified time schedule. In case the firm fails to comply with within the specified time schedule as per the finalized and accepted terms and conditions, the Centre shall have the right to either impose penalty (2% per week, subject to maximum of 10% of the quantum of work) or cancel the order. The decision of the Centre in this regard shall be final and binding on the successful tenderer.

21. **DEFECT LIABILITY PERIOD:**

The defect liability period shall be (2) **Two Years** from the date of completion of the work and for that 10% of the bill value will be deducted as security deposited. The successful tenderer shall be responsible for all defects in the exhibits supplied like defective workmanship, use of defective materials, de-coloring of material, strength of materials etc. for a period of two year from the date of completion of the job. The successful tenderer shall rectify the defects/defective parts within a reasonable time up to the satisfaction of the competent authority of the Centre or otherwise the Centre shall have the right to rectify the defect at the successful tenderers own risk and the cost of which will be adjusted from the Security Deposit. Decision of the Centre in this regard shall be final and binding on the successful tenderer. 50% of the security deposit amount will be released after one year and balance 50% will be released after completion of second year.

DELAYS IN CONTRACTOR'S PERFORMANCE

Delay by the Contractor in the performance of its contractual obligations regarding performance of services shall render the Contractor liable to any or all of the following sanctions:

a) Penalty/cost of repairs as per Clause 20 above.
b) Forfeiture of its Security Deposit.
c) Termination of the contract for default. The termination of the contract for default shall be at risk and responsibility of the contractor.

If at any time during performance of the Contract, the Contractor should encounter conditions impending timely delivery of the goods and performance of service, the Contractor shall promptly notify to the NSCD in writing of the fact of the delay, its likely duration and its cause(s).As soon as practicable after receipt of the Contractor's notice, the NSCD shall evaluate the situation and may at its discretion extend the period of performance of the services ordered after mutual discussion with the Contractor.

22. All disputes and differences between the successful tenderer and the Centre of any kind except quality of workmanship and materials whatever arising out of or in connection with the order on the carrying out the work (whether during the progress of the work or after their completion and whether before or after the determination, abandonment or breach of the terms and conditions of the order) shall be referred to the sole arbitration of a person nominated by the Director General, National Council of Science Museums, whose decision in this regard will be final and binding on both the successful tenderer and the Centre.

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

24. The Centre will not be responsible for any injury in and out of work places to any of the employees of the tenderer.

25. **FORCE MAJEURE**

Neither party shall bear responsibility for the complete or partial non-performance of any of its obligations (except for failure to pay any sum which has become due on account of receipt of goods under the provisions of the present contract), if the non-performance results from such Force Majeure circumstances as Flood, Fire, Earthquake and other acts of God as well as War, Military operation, blockade, Acts or Actions of State Authorities or any other circumstances beyond the parties control that have arisen after signing of the present contract. In such circumstances the time stipulated for the performance of an obligation under the present contract is extended correspondingly for the period of time of action of these circumstances and their consequences.

ANNEXURE-C

NATIONALSCIENCECENTRE
(A Unit of National Council of Science Museums)
Bhairon Road, Near Gate No.4, Pragati Maidan,
New Delhi-110001

TENDER No. : NSCD/18011/E-Tender No-15/2025-26

DECLARATION-I

We do hereby accept the "General Terms & Conditions" as provided by the National Science Centre along with the Tender documents for **Renovation of Prehistoric Life Gallery with Fabrication of Dinosaurs and Prehistoric Animal Models, Sculptures, Diorama and Paintings at National Science Centre, Delhi,** and also under take to execute the job strictly as per the technical specifications of National Science Centre as provided along with the tender documents, in the event of placement of any order on us. The Centre shall be at liberty to cancel the order in full or in part the event of failure of any of the above declaration made by us.

Signature of the Bidder /Constituted Attorney

DECLARATION-II

This is to certify that I/We have no close relative as an employee of the National Council of Science Museums (close relatives means: Father, Mother, Brother, Sister, Son, Daughter and Spouse) nor any such close relatives are associated with us as proprietor/partner/share holder/ director and like.

Signature of the tenderer

Address:

Official seal with date

Annexure-C-1

NATIONALSCIENCECENTRE
(A Unit of National Council of Science Museums)
Bharion Road, Near Gate No.4, Pragati Maidan,
New Delhi-110001

TENDER No.: NSCD /18011/ E-Tender No-15/2025-26

BID SECURING DECLARATION FORM

Date---------- Tender No.----------

I/We The undersigned, declare that:
I/We undersigned that, according to your conditions, bids must be supported by a Bid Securing Declaration.
I/We accept that I/We may be disqualified from bidding for any contract with you for a period of one year from date of notification if I am/We are in a breach of any obligation under the bid conditions, because I/We

a) have withdrawn/modified/amended, impairs or derogates from the tender, my/our Bid during the period of bid validity specified in the form of Bid; or

b) having been notified of the acceptance of our Bid by the purchaser during the period of bid validity (i)fail or refuse to execute the contract, if required, or (ii) fail or refuse to furnish the performance Security, in accordance with the instructions to bidders.

I/We undersigned this Bid Securing Declaration shall cease to be valid if I am/ we are not the successful Bidder, upon the earlier of (i) the receipt of your notification of the name of the successful Bidder; or (ii) thirty days after the expiration of the validity of my/our Bid.

Signed: (insert signature of person whose name and capacity are shown)
In the capacity of (insert legal capacity of person signing the Bid Securing Declaration)

Name: (insert complete name of person signing he Bid Securing Declaration)

Duly authorized to sign the bid for an on behalf of (insert complete name of Bidder)

Dated on----------day of ---------- (insert date of signing)

Corporate Seal (where appropriate)

(Note: In case of a Joint Venture, the Bid Securing Declaration must be in the name of all partners to the Joint Venture that submits the bid)

ANNEXURE-D

DECLARATION ON REGISTRATION AS MSME

(FollowingdeclarationtobeprovidedbytheBidderontheCompanyletterhead) 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 theVendor/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(nota 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 up to 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 National Science Centre, Delhi 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 NSCD as responsible for any issues related to MSME

Date:

Signature of Authorized Person
With Company Seal

ANNEXURE-D-1

NATIONALSCIENCECENTRE
(A Unit of National Council of Science Museums)
Bhairon Road, Near Gate No.4, Pragati Maidan,
New Delhi-110001

TENDER No -15/2025-26

TECHNICAL (Techno - Commercial) BID

Notes: ALLPARTICULARS/INFORMATIONSSHOULDBEGIVENINTHE FOLLOWING FORMAT WITH COMPLETE DETAILS.

1.	Name of the Bidder	:	
2.	Mailing address of the Bidder with PIN/ZIP Code	:	
3.	Contact details	:	
	Telephone numbers(s) Mobile	: :	
	Fax number (s)	:	
	E-mail address	:	
	Website	:	
4.	(i) Back ground details of the Bidder (Profile of the agency / Consortium establishing their Status)		
5.	Name and Address of the Vendor to whom the order will be placed		
6.	Past experience in relevant field during past 3-5 years giving details of established clients, especially Government agencies. Submit satisfactory work completion certificate issued by Government agencies if any.	:	
7.	Submit the documentary evidence of Execution/completion of latest work of similar nature and magnitude.	:	

8.	Proof of financial status of the Firm. Audited Balance Sheet for last 3 years indicating total turnover as well / Income tax returns of previous five assessment years.(submit documentary evidence)	**:**	
9.	Manpower setup of the firm and Qualification of professionals.	**:**	
10.	Any recognition / appreciation / award for projects done by agency/firm	**:**	
11	In order to qualify the technical stage of the bid, selected tenderer will be called for presentation at NSC Delhi with sample work as per **Annexure D-3"**.(sample work to be submitted at the time of presentation)	**:**	

I/Weherebydeclarethattheabovestatementsaretrue.I/Wealsodeclarethatthedecisionof NSCD regarding selection of eligible firms for submitting/opening of Tender Document (Financial Bid) shall be final and binding on me/us

Dated: **Official Seal and Signature of the Agency / Tenderer**

Annexure-D-2

(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 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 /rubbers tamp)

Date:

Place:

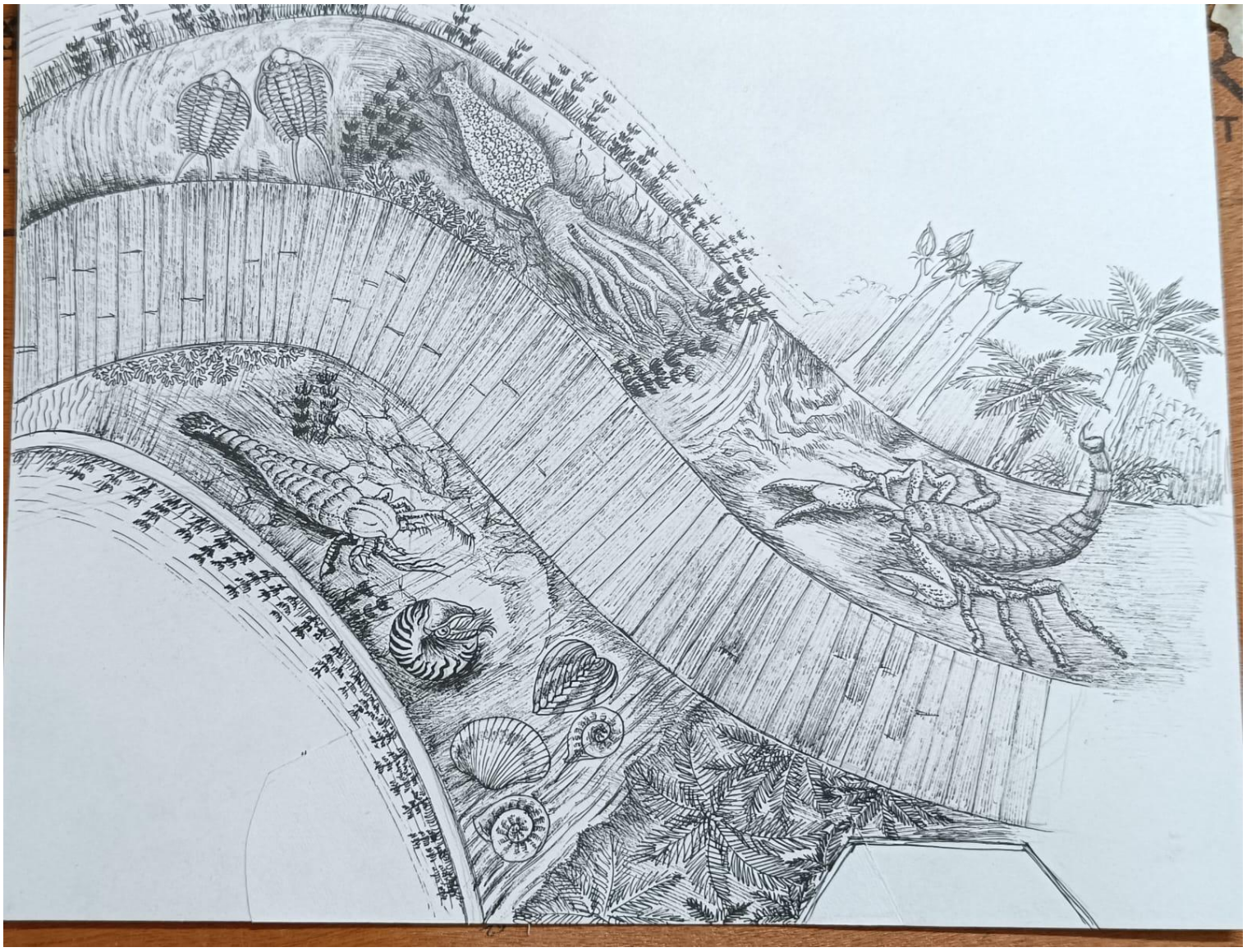
ANNEXURE-D-3

Sample work to be submitted during technical presentation at

National Science Centre, Delhi

In order to qualify the technical stage of the bid, each applicant will be called for presentation before a technical committee at NSC Delhi. Date and timing for the presentation will be informed later. Tenderer shall present following sample art works during technical presentation to qualify their competence:

Diorama with walk over bridge depicting the Permian sea. Theme : Depiction of life diversity in Permian sea after Cambrian

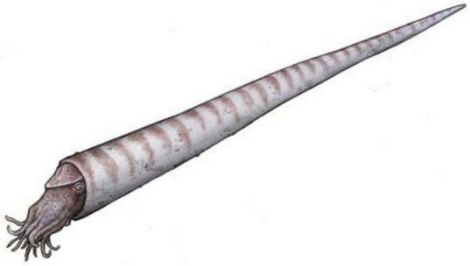


Overall look of the diorama

Trilobites

Giant Squid

Giant Water Scorpion



Nautiloid

Gastropods

Bivalves

Corals

Material: Epoxy resin, fiberglass, wood, artistic colors, highlighting to dramatize the total view of diorama and will be according to time period and should also go with the environment. Color scheme will be provided to the successful tenderers by NSCD. Wooden bridge shown will be of around 2.5 to 3' height in actual for presentation it be scale down accordingly.

Scale model: length 30 inch, height 6" inch and width 12inch

Annexure-E

SCOPE OF WORK & TECHNICAL SPECIFICATIONS FOR FABRICATION & SUPPLY OF FIBERGLASS (FRP) DINOSAURS (with rubber or silicon wherever mentioned), MANNEQUINS, MODELS, SCULPTURES, DIORAMA AND PAINTINGS FOR PREHISTORIC LIFE GALLERY AT NATIONAL SCIENCE CENTRE, DELHI

1. Fiberglass casting should have minimum 5mm thickness.
2. Use Gel coat with colour pigment mixed resin for the finished model, wherever required.
3. Fabrication work is required to be done using realistic technique of painting and modeling with all intricate and anatomy details at **NATIONAL SCIENCE CENTRE, DELHI**
4. All required Materials like rubber, epoxy resin, silicon, clay, POP, FG chemicals & materials, paints, brushes, Fabiano canvas, varnishes, reinforcement materials like metal sections, plywood and wood required for the fabrication and paintings, etc. shall be procured by the successful tenderer. Agency shall also supply necessary stands/ structure that are necessary to fabricate these models.
5. All mannequins and dinosaur models skeleton armature shall be made (wherever necessary) of appropriate Apollo / Jindal make MS sections like MS rod, pipe, flat, angle etc which should be able to support the load and arrangement for fixing hinge or other mechanism parts, which will be provided for the movement of the model.
6. Metal structure should be strong enough to support the fiber jackets, fiber jackets should be rigidly fixed with screws of appropriate size.
7. BWP Plywood of Green/ Century make, medium quality teak wood (considering the reinforcement required) and all other items mentioned above, which are required for the fabrication and other artistic work, should be used after getting the approval of NSCD official responsible for the work.
8. After every stage i.e. fabrication of armature, clay modeling etc. clearance is required from authorised officer of this Centre.
9. Different colour pigments are to be used for making mannequins and dinosaur models.
10. Detailed dimensions of the mannequins and dinosaur models are shown in the drawing and Photograph as annexed below.
11. All water species models, dinosaur models and plants shown in the black and white hand sketches are to made with same expression, position and look, other colored images are for reference only.
12. Plants, mannequins and dinosaur models shown in the sketches are indicative, based on the requirement of diorama these can be increased.
13. After finishing, the mannequins and dinosaur model should have natural look.
14. The agency has to provide all the mounds (properly numbered & packed in bubble/PU sheet) of mannequins and dinosaur models after completion of fabrication work.

15. Modifications, as and when required during the execution, whenever suggested by the competent authority, have to be carried out. Successful tenderer shall take the responsibility of such modifications without any additional expenditure.

16. Successful tenderer shall make their own arrangement for the boarding and lodging of their team of artisans at the work place, NSC, Delhi, during the period of contract. Entire process of fabrication work will be carried out at NSC, Delhi during the office hours or at their own site.

17. The Centre shall not be liable for injury of any employee who is deployed by the successful tenderer within/outside the premises/site at the time of execution of the work.

18. Additional small water species, raptiles and dinosaurs models are to installed based on the requirement of the diorama.

19. Silicone used for making dinosaur skin should have following physical properties

    Specific Gravity – 1.05 to1.15, Viscosity – 5000 to 50,000 Centipoise, Vapor density >1, Flash Point > 300^0 F.

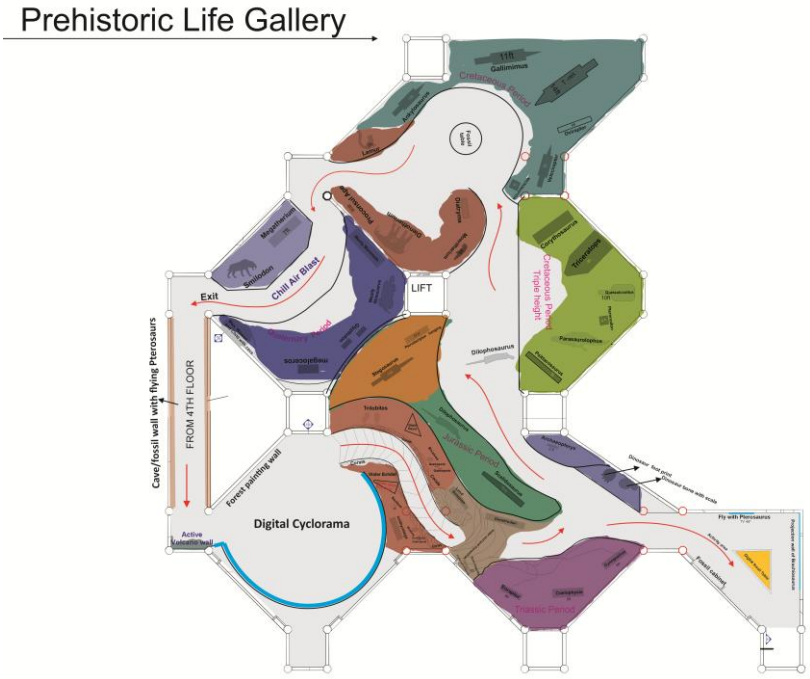
20. All dinosaur models having outer skin as fiberglass should be painted with NC Paint and all process before applying NC paint (NC primer, NC putty etc) should be followed.
21. All human mannequin should be finished with artist acrylic paint and a coating of clear lacquer should be done on paint to increase its life.
22. Dinosaur models and human mannequins with hairy skin should have natural look and feel.
23. Centre will provide the reference of background painting of diorama which should go with the theme of the diorama.
24. All painting of diorama wall should be done with base color and artistic acrylic colors on Fabiano canvas as per the drawing and color scheme suggested by the NSCD authorized official. Wooden frame (medium quality teak wood) of 2" X 1.5" C/s in 2' X2' grid is to used for fixing canvas which in turn will be fixed on back wall.
25. Color on Silicon skin should be done by adding pigments, dyes, or color pastes to the silicone rubber compound during the manufacturing process.
26. Color scheme for dinosaur, mannequins and plants etc and background painting details will be provided by NSCD at the time of execution.
27. Color on rubber skin should be done colored by adding pigments during the manufacturing process.
28. Fabrication of dinosaur skeleton (armature) and arrangement of fitting hinges and link mechanism, fixing of fiberglass jackets is to done by the agency as per shown in the image.
29. Painting of ceiling should be done after preparing of surface and two or more coat of acrylic emulation paint of desired shade. **Area : 1500 Sq. Mt.**
30. Fabrication and installation of Wooden Railing of height 2.5' to 3', made of new best quality bamboo poles (approved by NSCD authorized official) of 2.5"-3.5" dia with diagonal support at every 2' so that it can resist the hand force of visitors. Finishing of railing should be done with polish or matt enamel paint as suggested by NSCD official. Design of railing will be given at the time of execution. **Total Length : 600'**

31. Supply and fixing of 12mm thick EPDM (Ethylene Propylene Diene Monomer) Flooring on pathways Prehistoric Life Gallery of following specification

- Durometer or Hardness Range: 30 – 90 Shore A.
- Tensile Strength Range: 500 – 2,500 PSI.
- Elongation (Range %): 100% – 700%
- Abrasion Resistance: Good.
- Adhesion to Floor : Excellent.
- Adhesion to Rigid Materials: Excellent.
- Compression Set: Excellent.

Area : 3000 Sq. ft.

32. All new dioramas will be made after removing the existing landscape and shifting the waste items outside the building at a landfill site of Delhi. (This work is in the scope of successful tenderer)



Skeleton made of different MS sections (for reference)

Fiber jackets fixed on MS sections (for reference)

Diorama No.	ExhibitName	Scope and Nature of work
1	Gallery Entrance	A thematic Fossil wall cave entrance where Pterosaurs coming out of the cave and flying overhead is to be created using medium quality teak wood of 2" X 1.5" section and12mm BWP plywood for wall covering and minimum 5 mm thick fiberflass low relief artwork as per given drawing is to be fixed on this plywood . The staircase entrance can be designed as an extension of the cave scenography .Painting should be done using NC Paint matt finish. Over NC paint clear lacquer is to be applied to enhance the life. Necessary reinforcement should be provided for the ceiling structure. Total height from floor to ceiling is 20'. Two Pteranodon dinosaur fiberglass model are to be hanged as per the drawing. **Details provided in Annexure E-1**
2	Volcanic eruption	The early Earth was an extremely violent and hostile environment. Volcanic activity played a massive role in shaping the planet during this time. Due to intense internal heat from planetary formation and constant bombardment by space debris, Earth's mantle was highly molten. This caused frequent and massive volcanic eruptions across the young planet. Volcanic activity contributed to the creation of Earth's first primitive crust. Lava flows cooled and solidified, forming early landmasses amid oceans of magma and steam.This diorama is to be made with fiberglass & remaining part will be painted in wall using diorama perspective painting technique. Projection will be made on this structure by NSCD so its contour should be made so real in look that after projection it should look like a real Volcano. Volcano model is to be fixed on back wall wooden panel and its surface is to be painted with realistic paint NC, artistic acrylic etc. **Details provided in AnnexureE-2**
3	Digital Cyclorama	Here projecting of an orientation film on 'Lifemap – Origin, Evolution & Extinction' will be projected on curved screen. A curved partition is to be fabricated using 25mm plywood, 6mm plywood and medium quality teak wood of 3" X 1.5" C/s for Surface should be finhied with emultion paint. Area : 700 Sq. ft. approx. (Length of curve 70' and height 10' approx). Low releif panel of carboniferous forest made of cutout of carbofonis trees around 5 to 6 and finish with NC paint. Area : 250 Sq. ft. approx **Details provided in AnnexureE-3**

4	Life in Sea	Life in the Permian sea (about 299 to 252 million years ago) was rich, diverse and packed with both familiar and strange marine life. The Permian Sea was home to a highly diverse and evolving marine ecosystem. It was the final chapter of the Paleozoic Era, just before the largest mass extinction in Earth's history — the Permian-Triassic Extinction Event that wiped out about 90% of species. Diorama will have walk over bridgeand water suface with fiber glass and epoxy resin at least 1 to 2" thick above the species to create effect such as speciesare under water. 3D modelling of all water species shown in the drawing are to be made of minimum 5mm thick fibre glasss, mix media and finish with Matt NC paint and one coating of clear laquer .Inside skeleton strucure is to be made of appropriate iron sections to support the fiber jackect and rigidly fixed with screws. 35' Long (approx) wooden bridge is to be made of Apollo / Jindal make MS tube of C/s 3"X2"X 5mm thk , covered with Century / Green BWP ply, on top of BWP ply wooden strip of size 1.5" X 0.5" to avoid skidding of visitors with enamel paint matt finish. Landscaping is to made of minimum 5 mm thick fiber glass, thermocol , wooden frame etc as per given drawing. Area 400 Sq. ft. approx. Scenography on the wall :Based on the diorama theme, background painting is to be done using Fabiano canvas and artistic acrylic colors. Canvas is to be pasted on background wooden panel made of 2" X 1.5" C/s medium teak wood with 2' X 2' grid size and 6mm BWP ply of Century or Green make with a effective good quality adhesive so that it should not come out from the wooden panel.Area 1700 Sq. ft. approx. **Details provided in Annexure E-4**
5	Life on Land	Life on land during the Permian Period (299–252 million years ago) was dynamic and diverse, marked by the rise of reptiles, the evolution of early mammal ancestors, and the dominance of gymnosperm forests. This was a time of great evolutionary experimentation, but it all ended with the largest mass extinction in Earth's history. In this diorama modelling of Giant Dragonfly, Giant Land Scorpion andEryops with ceiling hanging giant dragonflyis to be done with minimum 5mm thick fibre glasss, Skin should be made of good quality rubber (Color on rubber skin should be done by adding pigments during the manufacturing process.) to provide real skin txture.Inside skeleton strucure for reinforcement is to be made of appropriate iron sections to support the fiber jackect and rigidly fixed with screws. Modelling of Dimetrodonis to be done with minimum 5mm thick fibre glasss, Skin should be made of good quality silicon to provide real skin txture.Inside skeleton strucure for

		reinforcement is to be made of MS sections of Apollo or Jindal make, like MS rod, pipe, flat, angle etc which should be able to support the load and arrangement for fixing hinge or other mechanism part, should be provided for the movement of the model and to support the fiber jackect rigidly.Fiberglass jacket is to be fixed with screws. Silicone which will be used to make outer skin should have physical properties as Specific Gravity – 1.05 to1.15, Viscosity – 5000 to 50,000 Centipoise, Vapor density >1, Flash Point > 300^0 F. Color on Silicon skin should be done by adding pigments, dyes, or color pastes to the silicone rubber compound during the manufacturing process. Plants modeling, shown in the drawing is to be done with minimum 5mm thick fibre glasss and leaves with appropriate material using mix media and painting with matt NC paint of all intricate parts. All Plants shown in image should give realistic look and feel of that era . Quantity :Sigillaria plant -3,Equisetum(Giant horsetails) – 4Nos,Fern -25, Cycadeoidea-4,Cycad-5 Landscaping is to made of minimum 5 mm thick fiber glass, thermocol , wooden frame etc as per given drawing.250 Sq. ft. approx. Scenography on the wall :Based on the diorama theme, background painting is to be done using Fabiano canvas and artistic acrylic colors. Canvas is to be pasted on background wooden panel made of 2" X 1.5" C/s medium teak wood with 2' X 2' grid size and 6mm BWP ply of Century or Green make with a effective good quality adhesive so that it should not come out from the wooden panel. Area : 300 Sq. ft. approx. **Details provided in Annexure E-5**
6	Triassic Period	The Triassic Period (approximately 252 to 201 million years ago) marks the beginning of the Mesozoic Era. Many modern groups of animals emerged during the period. Dinosaurs appeared in the Late Triassic (e.g. Eoraptor). Mammal-like reptiles, more properly called therapsids, dominated land ecosystems before the rise of dinosaurs. During the Triassic Period, many of these creatures were still around, especially in the Early Triassic, but they gradually declined as dinosaurs and true mammals emerged. Flora was dominated by gymnosperms and spore-bearing plants. Ferns and horsetails were common ground cover Models representing

		small beginning of dinosaurs. In this diorama model of Eoraptor and Coelophysis will be made of fiberglass, inside skeleton strucure for reinforcement is to be made of MS sections (Apollo or Jindal make) like MS rod, pipe, flat, angle etc which should be able to support the load and arrangement for fixing hinge or other mechanism part, should be provided for the movement of the model.to support the fiber jackect and rigidly fixed with screws. Outer skin is to be made with Siliconeto provide real skin txture and color.Color on Silicon skin should be done by adding pigments, dyes, or color pastes to the silicone rubber compound during the manufacturing process. Fabrication of fiberglass model of Cynognathus, inside skeleton strucure for reinforcement is to be made of MS sections of (Apollo or Jindal make) like MS rod, pipe, flat, angle etc which should be able to support the load and arrangement for fixing hinge or other mechanism part, should be provided for the movement of the model and to support the fiber jackect and rigidly fixed with screws.NC paint finish is to be done for outer skin of fiberglass. All dinosaur models and plants should be of high realistic finish. Landscaping is to made of minimum 5 mm thick fiber glass, thermocol , wooden frame etc as per given drawing. Approximate area 470 Sq. ft. Scenography on the wall :Based on the diorama theme, background painting is to be done using Fabiano canvas and artistic acrylic colors. Canvas is to be pasted on background wooden panel made of 2" X 1.5" C/s medium teak wood with 2' X 2' grid size and 6mm BWP ply of Century or Green make witha effective good quality adhesive so that it should not come out from the wooden panel.Approximate area 510 Sq. ft. Plants modeling is to be done with minimum 5mm thick fibre glasss and leaves with appropriate material using mix media and painting with matt NC paint of all intricate parts. All Plants shown in image should give realistic look and feel of that era. Quantity : Bjuvia plant -3Nos,Macrotaeniopteris – 4Nos,Cactus 3'and 4' -3Nos,Fern -20 Nos **Details provided in Annexure E-6**

7	**Jurassic Period (i)**	The Lower Jurassic period (approximately 201 to 174 million years ago) marks the beginning of the Jurassic era, following the end-Triassic mass extinction. During this time, both flora (plants) and fauna (animals) diversified significantly as ecosystems recovered and stabilized. During the Lower Jurassic, dinosaurs began to diversify into many ecological niches. Herbivorous and carnivorous dinosaurs from that time are Ornithischians like Scelidosaurus (armoured herbivore) and The ropods (carnivores) like Dilophosaurus. The climate during the Lower Jurassic was generally warm and humid, which supported lush vegetation. Dominant plant groups included gymnosperms and ferns. The breakup of the supercontinent Pangaea had begun, influencing regional climates and biogeography. In this diorama fabrication of fiberglass model of Dilophosaurus will be shown, inside skeleton strucure for reinforcement is to be made of MS sections (Apollo or Jindal make) like MS rod, pipe, flat, angle etc which should be able to support the load and arrangement for fixing hinge or other mechanism part, should be provided for the movement of the model and to support the fiber jackect and rigidly fixed with screws. Outer skin is to be made withSilicone. Color on Silicon skin should be done by adding pigments, dyes, or color pastes to the silicone rubber compound during the manufacturing process. Modelling of Scelidosaurusis to be done with minimum 5mm thick fibre glasss, Skin should be made of good quality rubber to provide real skin txture.Inside skeleton strucure for reinforcement is to be made of appropriate iron sections to support the fiber jackect and rigidly fixed with screws. Color on rubber skin should be done by adding pigments during the manufacturing process. Plants modeling shown in drawing is to be done with minimum 5mm thick fibre glasss and leaves with appropriate material using mix media and painting with matt NC paint of all intricate parts. all Plants shown in image should give realistic look and feel of that era. Quantity : Williamsonia plant - 4Nos, Cycadeoidea - 3Nos, Fern -30 Nos Landscaping is to made of minimum 5 mm thick fiber glass, thermocol , wooden frame etc as per given drawing. Approximate area 350 Sq. ft. Scenography on the wall: Based on the diorama theme, background painting is to be done using Fabiano canvas and

		artistic acrylic colors. Canvas is to be pasted on background wooden panel made of 2" X 1.5" C/s medium teak wood with 2' X 2' grid size and 6mm BWP ply of Century or Green make witha effective good quality adhesive so that it should not come out from the wooden panel. Approximate area 350 Sq. ft. **Details provided in Annexure E-7**
8	**Jurassic Period(ii)**	The Upper Jurassic period (also called Late Jurassic, 163 to 145 million years ago) was a time of massive sauropods, diverse predatory dinosaurs and lush plant growth. Armoured dinosaurs of the Upper Jurassic were mainly part of the group called Thyreophora, which includes stegosaurs and early relatives of ankylosaurs. These dinosaurs were characterized by bony plates, spikes, and sometimes tail weapons used for defence. Pterosaurs (flying reptiles) like Pterodactylus appeared toward the end of the period. There were no flowering plants yet, but many gymnosperms and spore-bearing plants dominated. This diorama will depict fiberglass model of Stegosaurus, inside skeleton structure for reinforcement is to be made of MS sections (Apollo or Jindal make) like MS rod, pipe, flat, angle etc which should be able to support the load and arrangement for fixing hinge or other mechanism part, provided for the movement of the model and to support the fiber jacket and rigidly fixed with screws.. Outer skin is to be made with Silicone.Color on Silicon skin should be done by adding pigments, dyes, or color pastes to the silicone rubber compound during the manufacturing process. Fabrication of fiberglass model of Pterodactylus, inside skeleton strucure for reinforcement is to be made of MS sections (Apollo or Jindal make) like MS rod, pipe, flat, angle etc which should be able to support the load and arrangement for fixing hinge or other mechanism part, provided for the movement of the model and to support the fiber jacket and rigidly fixed with screws. Outer skin should be finish with NC paint and one layer of clear lacquer. Plants modeling shown in drawing is to be done with minimum 5mm thick fibreglasss and leaves with appropriate material using mix media and painting with matt NC paint of all intricate parts. all Plants shown in image should give realistic look and feel of that era. Quantity : Williamsonia plant – 5Nos,Cycadeoidea – 4Nos,Fern bunch -30 Landscaping is to made of minimum 5 mm thick fiber glass, thermocol , wooden frame etc as per given drawing. Approximate area 400 Sq. ft. Scenography on the wall :Based on the diorama theme, background painting is to be done using Fabiano canvas and artistic acrylic colors. Canvas is to be pasted on background wooden panel made of 2" X 1.5" C/s medium teak wood with 2' X 2' grid size and 6mm BWP ply of Century or Green make

		witha effective good quality adhesive so that it should not come out from the wooden panel.Approximate area 350 Sq. ft. **Details provided in Annexure E-8**
9	**Jurassic Period (iii)**	The evolution of birds during the Jurassic period is one of the most important events in vertebrate history. Birds evolved from small, feathered theropod dinosaurs, and the Jurassic period marks the emergence of key traits we associate with modern birds today. Archaeopteryx is one of the most famous and important fossils in palaeontology because it represents a key transitional form between non-avian dinosaurs and modern birds. It lived during the Late Jurassic, about 150 million years ago, primarily found in what is now southern Germany, This diorama will show fiberglass model of Archaeopteryx, inside skeleton strucure for reinforcement is to be made of appropriate iron sections to support the fiber jackect and rigidly fixed with screws. Outer skin is to be made with Silicone.Color on Silicon skin should be done by adding pigments, dyes, or color pastes to the silicone rubber compound during the manufacturing process. Plants modeling shown in drawing is to be done with minimum 5mm thick fibre glasss and leaves with appropriate material using mix media and painting with matt NC paint of all intricate parts. all Plants shown in image should give realistic look and feel of that era. Quantity Williamsonoa – 2Nos,Cycadeoidea -1No, Fern bunch -20Nos Landscaping is to made of minimum 5 mm thick fiber glass, thermocol , wooden frame etc as per given drawing. Area 90 Sq. ft. approx. Scenography on the wall :Based on the diorama theme, background painting is to be done using Fabiano canvas and artistic acrylic colors. Canvas is to be pasted on background wooden panel made of 2" X 1.5" C/s medium teak wood with 2' X 2' grid size and 6mm BWP ply of Century or Green make witha effective good quality adhesive so that it should not come out from the wooden panel.Area 210 Sq. ft. approx. **Details provided in Annexure E-9**
10	**Selfie Point**	This is the high finish realistic scale model of dinosaur foot print and replica of dinosaur bone and low relief rocky texture is created on the wall. It has to be fabricated using fiberglass, as this area is to be used as selfie point so 2' height strong wooden pedestal is to be made for visitors so that can stand there and take selfie. Normal landscaping is to be done as per drawing. Area 70 Sq. ft. approx. Scenography on the wall :Based on the diorama theme, background painting is to be done using Fabiano canvas and artistic acrylic colors. Canvas is to be pasted on background wooden panel made of 2" X 1.5" C/s medium teak wood with 2'

		X 2’ grid size and 6mm BWP ply of Century or Green make witha effective good quality adhesive so that it should not come out from the wooden panel.Area 95 Sq. ft. approx. **Details provided in Annexure E-10**
11	**Cretaceous Period - 1**	The Cretaceous Period (145–66 million years ago) was the final and most diverse chapter in the Age of Dinosaurs. It saw an explosion in dinosaur evolution, with specialized herbivores and massive predators coexisting in complex ecosystems. This period is famous for the height of dinosaur diversity. The skies of the Cretaceous period were ruled by pterosaurs. These flying reptiles reached their greatest size, diversity, and ecological range during the period. This is a triple height area, which is to maintained as it is up to some extent. In this diorama some dinosaur model like Stegosaurus is to be shifted and Corythosaurus will come at its place. The high finish realistic models of Psittacosaurus and Quetzalcoatlusare to made with fiberglass of minimum 5mm thick with strong armature inside and outer skin with rubber . Triceratops (in cave),Parasaurolophus and Pteronodon (with hill) are to be refurbished to match with the new fabricated models of dinosaurs. Plants modeling is to be done with minimum 5mm thick fibre glasss and leaves with appropriate material using mix media and painting with matt NC paint of all intricate parts. All Plants shown in image should give realistic look and feel of that era. Quantity: Nipa (palm) -4Nos, Tempskya (fern) – 3Nos,Palmatto Palm – 20 Nos, Landscaping is to made of minimum 5 mm thick fiber glass, thermocol , wooden frame etc as per given drawing. Area 800 ,Sq. ft. approx Scenography on the wall : Based on the diorama theme, background painting is to be done using Fabiano canvas and artistic acrylic colors. Canvas is to be pasted on background wooden panel made of 2” X 1.5” C/s medium teak wood with 2’ X 2’ grid size and 6mm BWP ply of Century or Green make witha effective good quality adhesive so that it should not come out from the wooden panel. Area 250 Sq. ft. approx. **DetailsprovidedinAnnexureE-11**
12	**Cretaceous Period - 2**	A diverse and dominant group of bipedal, mostly carnivorous dinosaurs known as Theropods thrived throughout the Cretaceous period. During this time, they evolved into many specialized forms — from tiny feathered hunters to massive apex predators. In this diorama fabrication of fiberglass model of Microraptor as per drawing and inside skeleton strucure for reinforcement is to be made of appropriate iron sections to support the fiber jackect and rigidly fixed with screws, wherever neccessery rubber skin is to be used for natural look.

		Refurbishing ofOviraptorto have finish of surrounded dinosaur models. Fabrication of fiberglass model of Velociraptor,inside skeleton strucure for reinforcement is to be made of appropriate iron sections to support the fiber jackect and rigidly fixed with screws. Outer skin is to be made with Silicone Plants modeling is to be done with minimum 5mm thick fibre glasss and leaves with appropriate material using mix media and painting with matt NC paint of all intricate parts. All Plants shown in image should give realistic look and feel of that era. Quantity: Tempskyaplant -3Nos,Ficus – 4Nos, Nipa (palm) – 3Nos, Fern bunch - 20Nos. Landscaping is to made of minimum 5 mm thick fiber glass, thermocol , wooden frame etc as per given drawing.Area 280 Sq. ft. approx Scenography on the wall :Based on the diorama theme, background painting is to be done using Fabiano canvas and artistic acrylic colors. Canvas is to be pasted on background wooden panel made of 2" X 1.5" C/s medium teak wood with 2' X 2' grid size and 6mm BWP ply of Century or Green make witha effective good quality adhesive so that it should not come out from the wooden panel.Area 370 Sq. ft. approx **DetailsprovidedinAnnexureE-12**
13	**Cretaceous Period - 3**	The most iconic dinosaur of all time — Tyrannosaurus rex, lived during the very end of the Cretaceous Period. The Cretaceous came to a dramatic close around 66 million years ago with the K-T extinction event, likely triggered by a massive asteroid impact near modern-day Mexico, combined with intense volcanic activity. This catastrophe led to the extinction of nearly 75% of Earth's species, including all non-avian dinosaurs. Yet, from this devastation, new life emerged — birds, mammals, and flowering plants survived and diversified, setting the stage for the modern world we know today. This will be depict in this diorama by fabrication of fiberglass model of Gallimimus as per drawing and inside skeleton strucure for reinforcement is to be made of appropriate iron sections to support the fiber jackect and rigidly fixed with screws. Fabrication of fiberglass model of Tyrannosaurus rex , inside skeleton strucure for reinforcement is to be made of appropriate iron sections to support the fiber jackect and rigidly fixed with screws. Outer skin is to be made with Silicone Plants modeling is to be done with minimum 5mm thick fibre glasss and leaves with appropriate material using mix media and painting with matt NC paint of all intricate parts. All Plants shown in image should give realistic look and feel of that era. Quantity : Tempskya plant – 4Nos,Cycadeoidea -2 Nos, Fern -50Nos Landscaping is to made of minimum 5 mm thick fiber glass, thermocol , wooden frame etc as per given drawing.Area 630 Sq. ft. approx

		Scenography on the wall :Based on the diorama theme, background painting is to be done using Fabiano canvas and artistic acrylic colors. Canvas is to be pasted on background wooden panel made of 2" X 1.5" C/s medium teak wood with 2' X 2' grid size and 6mm BWP ply of Century or Green make with a effective good quality adhesive so that it should not come out from the wooden panel. Area 650 Sq. ft. approx **DetailsprovidedinAnnexureE-13**
14	**Cretaceous Period - 4**	During the Cretaceous Period, some of the most heavily armoured dinosaurs evolved to defend themselves against large carnivores like Tyrannosaurus rex. These dinosaurs belonged mainly to the group Ankylosauridae. They thrived during the Late Cretaceous period, until the mass extinction event that ended the age of dinosaurs. During the Cretaceous Period, some of the most heavily armoured dinosaurs evolved to defend themselves against large carnivores like Tyrannosaurus rex. These dinosaurs belonged mainly to the group Ankylosauridae. They thrived during the Late Cretaceous period, until the mass extinction event that ended the age of dinosaurs. In this diorama refurbishing of Ankylosaurus model will be done to have finish of surrounded dinosaur models by repairing and repainting of fiber jacket and rubber skin . Plants modeling is to be done with minimum 5mm thick fibre glasss and leaves with appropriate material using mix media and painting with matt NC paint of all intricate parts. All Plants shown in image should give realistic look and feel of that era. Quantity : Tempskya plant – 2Nos,Williamsonia plant 3' -2Nos, Fern bunch -20Nos Landscaping is to made of minimum 5 mm thick fiber glass, thermocol , wooden frame etc as per given drawing.Area 105 Sq. ft. approx Scenography on the wall :Based on the diorama theme, background painting is to be done using Fabiano canvas and artistic acrylic colors. Canvas is to be pasted on background wooden panel made of 2" X 1.5" C/s medium teak wood with 2' X 2' grid size and 6mm BWP ply of Century or Green make witha effective good quality adhesive so that it should not come out from the wooden panel.Area 240 Sq. ft. approx **DetailsprovidedinAnnexureE-14**
15	**Tertiary Period**	The Tertiary Period, spanning from about 66 to 2.6 million years ago, marks a pivotal era in Earth's history following the extinction of the dinosaurs. During this time, mammals and birds rapidly diversified, evolving into many modern groups and filling ecological niches left vacant by the vanished reptiles. This period saw the rise of early primates and large. In this diorama fabrication of fiberglass model of Diatryma, Lemur (on tree), Proconsul Ape on tree and Dienotherium will be shown .Inside skeleton strucure for reinforcement is to be made of

		appropriate iron sections to support the fiber jackect and rigidly fixed with screws. Outer skin is to be made as per the look and feel shown in the reference images and drawing. Plants modeling is to be done with minimum 5mm thick fibre glasss and leaves with appropriate material using mix media and painting with matt NC paint of all intricate parts. All Plants shown in image should give realistic look and feel of that era. Quantity: Ficus Plant – 2Nos, Pine Tree – 6Nos, Grass bunch -40Nos Landscaping is to made of minimum 5 mm thick fiber glass, thermocol , wooden frame etc as per given drawing.Area 380 Sq. ft. approx Scenography on the wall :Based on the diorama theme, background painting is to be done using Fabiano canvas and artistic acrylic colors. Canvas is to be pasted on background wooden panel made of 2" X 1.5" C/s medium teak wood with 2' X 2' grid size and 6mm BWP ply of Century or Green make witha effective good quality adhesive so that it should not come out from the wooden panel.Area 310 Sq. ft. approx **DetailsprovidedinAnnexureE-15**
16	**Quaternary Period - 1**	During the Ice Age (specifically the Pleistocene Epoch of the Quaternary Period, about 2.6 million to 11,700 years ago), Earth experienced repeated glacial cycles, and many giant mammals — called megafauna — roamed the land. Two iconic creatures of this time were Megatherium and Smilodon. Megatherium was a giant ground sloth, one of the largest land mammals ever, reaching the size of an elephant. Smilodon, also known as the saber-toothed cat, was a fierce predator with long, curved canine teeth. This diorama shows **Quaternary period**, which began only 2.58 million years ago and continuing to the present day. Works involved in this diorama are: Fabrication of fiberglass model of Megatherium and Smilodon .Inside skeleton strucure for reinforcement is to be made of appropriate iron sections to support the fiber jackect and rigidly fixed with screws. Outer skin(fur etc) is to be made as per the look and feel shown in the reference images and drawing. Scenography on the wall :Based on the diorama theme, background painting is to be done using Fabiano canvas and artistic acrylic colors. Canvas is to be pasted on background wooden panel made of 2" X 1.5" C/s medium teak wood with 2' X 2' grid size and 6mm BWP ply of Century or Green make witha effective good quality adhesive so that it should not come out from the wooden panel.Area 2400 Sq. ft. approx Landscaping is to made of minimum 5 mm thick fiber glass, thermocol , wooden frame etc. to match with the image shown.Area 250 Sq. ft. approx. Bushes without leaves are to be made with appropriate material using mix media and painting as shown in image to give realistic look and feel of that era. Quantity :Pine tree - 3 Nos, Bushes without leaves – 50 Nos

		DetailsprovidedinAnnexureE-16
17	**(Quaternary Period - 2)**	During the Ice Age (Pleistocene Epoch), the harsh, cold environments were home to some of the most remarkable Ice Age megafauna, including the Woolly Mammoth and the Woolly Rhinoceros. These two herbivorous giants were perfectly adapted to the frozen tundra and steppe. Both were covered in thick fur and had a substantial layer of fat beneath their skin to insulate them from the freezing Ice Age temperatures. These adaptations helped them survive in the cold, dry climates of the mammoth steppe — a vast, treeless grassland. Works involved in this diorama are: Fabrication of fiberglass model of Wooly Mammoth and Wooly Rhinoceros. Inside skeleton strucure for reinforcement is to be made of appropriate iron sections to support the fiber jackect and rigidly fixed with screws. Outer skin(fur etc) is to be made as per the look and feel shown in the reference images and drawing. Scenography on the wall :Based on the diorama theme, background painting is to be done using Fabiano canvas and artistic acrylic colors. Canvas is to be pasted on background wooden panel made of 2" X 1.5" C/s medium teak wood with 2' X 2' grid size and 6mm BWP ply of Century or Green make witha effective good quality adhesive so that it should not come out from the wooden panel.Area 375 Sq. ft. approx Landscaping is to made of minimum 5 mm thick fiber glass, thermocol , wooden frame etcto match with the image shown.Area 210 Sq. ft. approx Bushes without leaves are to be made with appropriate material using mix media and painting as shown in image to give realistic look and feel of that era. **DetailsprovidedinAnnexureE-17**
18	**Quaternary Period - 3**	During the Ice Age, Megaloceros and Glyptodon were two remarkable megafauna species. Megaloceros, was a giant deer with massive antlers, living in open woodlands and grasslands across Europe and Asia. Glyptodon was a heavily armored, relative of the armadillo that lived in South America, protected by a dome-like shell. Both were herbivores and adapted to Ice Age environments, but they went extinct around 10,000 years ago due to climate change and human hunting. Works involved in this diorama are: Fabrication of fiberglass model of Megalocerosand refurbishing of two Glyptodon models. Inside skeleton strucure for

		reinforcement is to be made of appropriate iron sections to support the fiber jackect and rigidly fixed with screws. Outer skin(fur etc) is to be made as per the look and feel shown in the reference images and drawing. Scenography on the wall :Based on the diorama theme, background painting is to be done using Fabiano canvas and artistic acrylic colors. Canvas is to be pasted on background wooden panel made of 2" X 1.5" C/s medium teak wood with 2' X 2' grid size and 6mm BWP ply of Century or Green make witha effective good quality adhesive so that it should not come out from the wooden panel.Area 400 Sq. ft. approx Landscaping is to made of minimum 5 mm thick fiber glass, thermocol , wooden frame etcto match with the image shown.Area 250 Sq. ft. approx Bushes without leaves are to be made with appropriate material using mix media and painting as shown in image to give realistic look and feel of that era. Quantity :Pine tree - 3 Nos, Bushes without leaves – 50 Nos **DetailsprovidedinAnnexureE-17DetailsprovidedinAnnexureE-18**
19	**Quaternary Period - 4**	During the Ice Age, Megaloceros and Glyptodon were two remarkable megafauna species. Megaloceros, was a giant deer with massive antlers, living in open woodlands and grasslands across Europe and Asia. Glyptodon was a heavily armored, relative of the armadillo that lived in South America, protected by a dome-like shell. Both were herbivores and adapted to Ice Age environments, but they went extinct around 10,000 years ago due to climate change and human hunting. Works involved in this diorama are:. Fabrication of fiberglass model of Neanderthal Family - Man, Woman and Child and cave. Inside models strucure for reinforcement is to be made of appropriate iron sections, wood , plywood etc to support the fiber jackect and rigidly fixed with screws. Outer skin (fur etc) and strucure is to be made as per the look and feel shown in the reference images and drawing. Landscaping is to made of minimum 5 mm thick fiber glass, thermocol , wooden frame etcto match with the image shown.Area 50 Sq. ft. approx **DetailsprovidedinAnnexureE-19**

Diorama1 : Gallery Entrance Entrance will have following main features:

- Left wall and right will have fiber glass relief model of dinosaur fossils as shown in the figure 1.1. Area - 1600 Sq. ft.

- Ceiling will have fiber glass relief model as shown in the figure 1.1 and models of Pterosaurs, properly hanged with SS rope and camouflaged with the ambience .Painting should be done using NC Paint matt finish with all prior process . Necessary reinforcement should be provided for the ceiling structure. Area - 700 Sq. ft.

- Wall paneling is to be done using medium quality teak wood of appropriate section and12mm BWP plywood for wall covering and fiberflass low relief artwork as per given drawing is to be fixed on this plywood

- Support should be taken from ceiling for hanging models.
- Ceiling and floor of the diorama should be similar to the one shown in fig 1.1

- Support and armature of FRP model should be provided with proper wooden and MS metal or iron reinforcement inside & base wherever required.

- Fiberglass (FRP) casting with a thickness of 5 mm, sheet metal and mixed media *GP resin for indoor * mat quality 450 grade.

- Model should be as real as possible.

- Fig 1.1 to fig 1.5 maybe used for reference for making this diorama any other image may also be used with prior approval from authority of NSCD

Fig 1.2 Top view of stairs area

Fig 1.1
Diorama1 : Gallery Entrance

Fig 1.3 Gallery Entrance Left

Fig 1.4 Gallery Entrance Right Wall

Height from floor to ceiling 20’ approx.

Fig1.2 Pterosaurs (Length with wing span)

Fig1.3 Relief Fossil wall

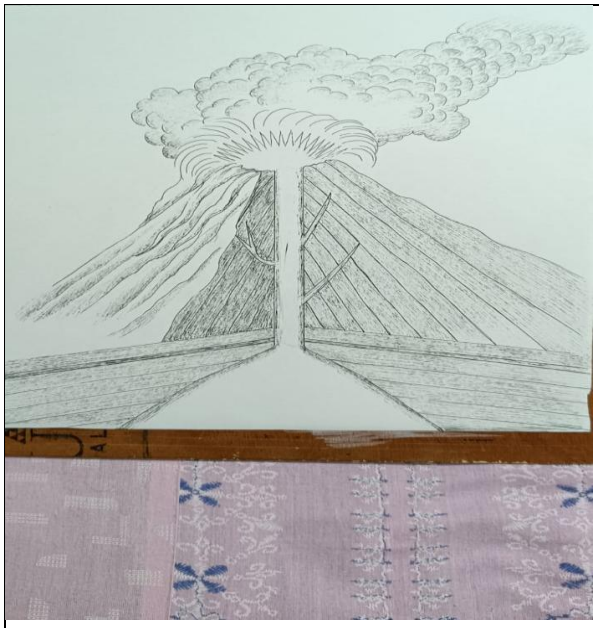
Fig1.4 Natural Light in a cave

Fig1.5 Relief Fossil wall

Diorama 2: Volcanic eruption

Diorama of Volcano Relief Model will depict violent environment on the Earth before life. Diorama will have following main features:

- Model of volcano with minimum 5mm thickness as shown in fig 2.1& 2.2
- Contour of land surface at the time of volcanic eruption is to be created in the fiberglass model (3D model).
- Rest of the details will be on background painting in perspective to enhance the look of the area.
- Finish is to be done with realistic paint NC, artistic acrylic etc. it should look like a real Volcano. .
- Inside skeleton strucure for reinforcement of fiberglass volcano model is to be made of appropriate iron sections, wood etc. to support the fiber jackect and rigidly fixed with screws.
- Perspective painting (using diorama perspective painting technique) of suitable size on background is to be done using Fabiano canvas and good quality artistic acrylic colors. Canvas is to be pasted on Back ground wooden panel made of 2" X 1.5" C/s medium teak wood with 2' X 2' grid size and 6mm BWP ply of Century or Green make with a effective good quality adhesive so that it should not come out from the
  wooden panel.
- Support and armature will be of FRP with proper wooden and MS metal or iron reinforcement inside & base, wherever it is required.
- Fiberglass (FRP) casting with a thickness of 5mm sheet, metal and mixed media 'GP resin mat quality 450 grad.
- Model should be as real as shown.
- Fig2.1tofig2.2 may be used for reference for making this diorama any other image may also be used with prior approval from NSCD.



10’

Fig 2.1Over all look and cross section of the Volcano Relief Model. This diorama will depict violent environment on the Earth before life.Contour of land surface at the time of volcanic eruption is to be created in the fiberglass model (3Dmodel), rest of the details will be background painted in perspective.

Fig2.2 volcanic eruption

Diorama 2 Top View

AnnexureE-3

Diorama 3 : Curved Partition to create Cyclorama

Cyclorama based immersive experience, Orientation Film on 'Lifemap – Origin, Evolution & Extinction

- A Curved partition is to be made using 25 mm thick BWP ply for making curvature and distance between two curved ply should be 12". As per details shown in fig 3.2

- Medium quality teakwood of cross section 2" X 1.5" X 10' is to be used for making this partition and distance between them is to be kept 15". Two 6mm thick BWP Ply of Green or Century make are to be fixed on curved structure.

- Scenography on the wall: Relief wall made of fiberglass cutout of carboniferous trees around 5 to 6 and finish with NC paint. Background painting is to be done with NC Paint finish. Details are given in fig 3.1 & 3.2

- Area : 240 Sq. ft. , Width – 24' & Height 10'

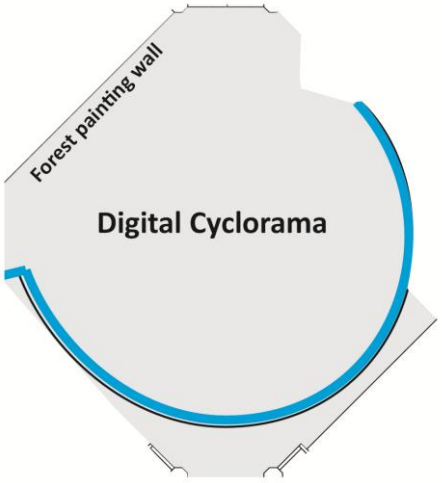


Fig 3.1 Dimensions of curve partition

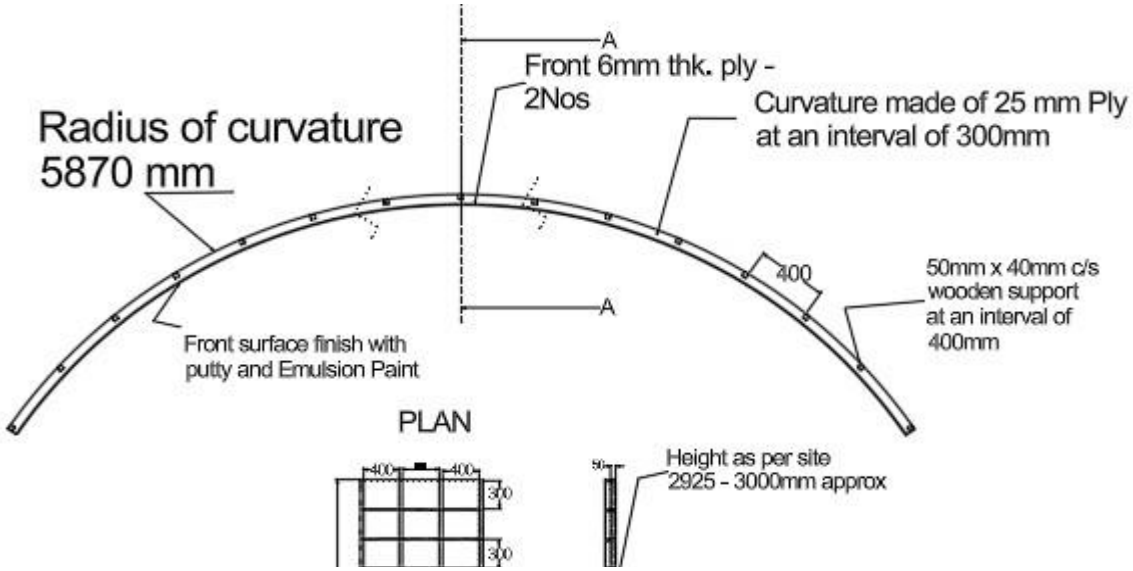


Fig3.2Sectional view of curved partition

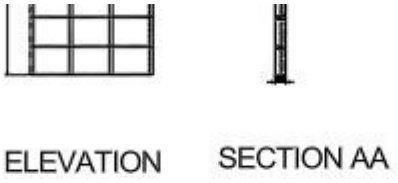


Fig 3.2 Cross section and top View of Curved

Fig 3.3 Relief wall made of fiberglass cutout of carboniferous trees and Painting of carboniferous forest on wall paneling

Diorama 4: Life in Sea
Diorama with walk over bridge depicting the Permian sea.

- This diorama will show diversity in Permian sea after Cambrian. fig 4.1
- Creating water surface with fiber glass and epoxy resin at least 1 to 2" thick above the species to create effect such as species are under water.
- 3D modelling of all water species shown in the drawing are to be made of minimum 5mm thick fiberglass, mix media and finish with Matt NC paint. Inside skeleton structure is to be made of appropriate iron sections like MS rod, pipe, angle etc which should be able to support the load and for the movement of the model, hinge or other mechanism part can be attached and to support the fiber jacket and rigidly fixed with screws.
- All water species shown in the black and white hand sketch are to made with same expression and position other colored images are for reference only.
- 35' Long (approx) wooden bridge is to be made of Apollo / Jindal make MS tube of C/s 3"X2"X 5mm thk , covered with Century / Green BWP ply, on top of BWP ply wooden strip of size 1.5" X 0.5" to avoid skidding of visitors with enamel paint matt finish. Design of the bridge will be provided at the time of execution fig 4.2
- Landscaping is to made of minimum 5 mm thick fiber glass, thermocol , wooden frame etc as per given drawing. Area 400 Sq. ft. approx
- Scenography on the wall : Based on the diorama theme, background painting is to be done using Fabiano canvas and artistic acrylic colors. Canvas is to be pasted on background wooden panel made of 2" X 1.5" C/s medium teak wood with 2' X 2' grid size and 6mm BWP ply of Century or Green make with a effective good quality adhesive so that it should not come out from the wooden panel. Area 300 Sq. ft. approx
- Material to be used for diorama: FRP with proper wooden and MS metal or iron reinforcement inside & base, wherever it is required. *GP resin for indoor * mat quality 450 grad.
- Background painting: Artist acrylic color is to be used on canvas. Painting area has to be prepared by the agency.
-

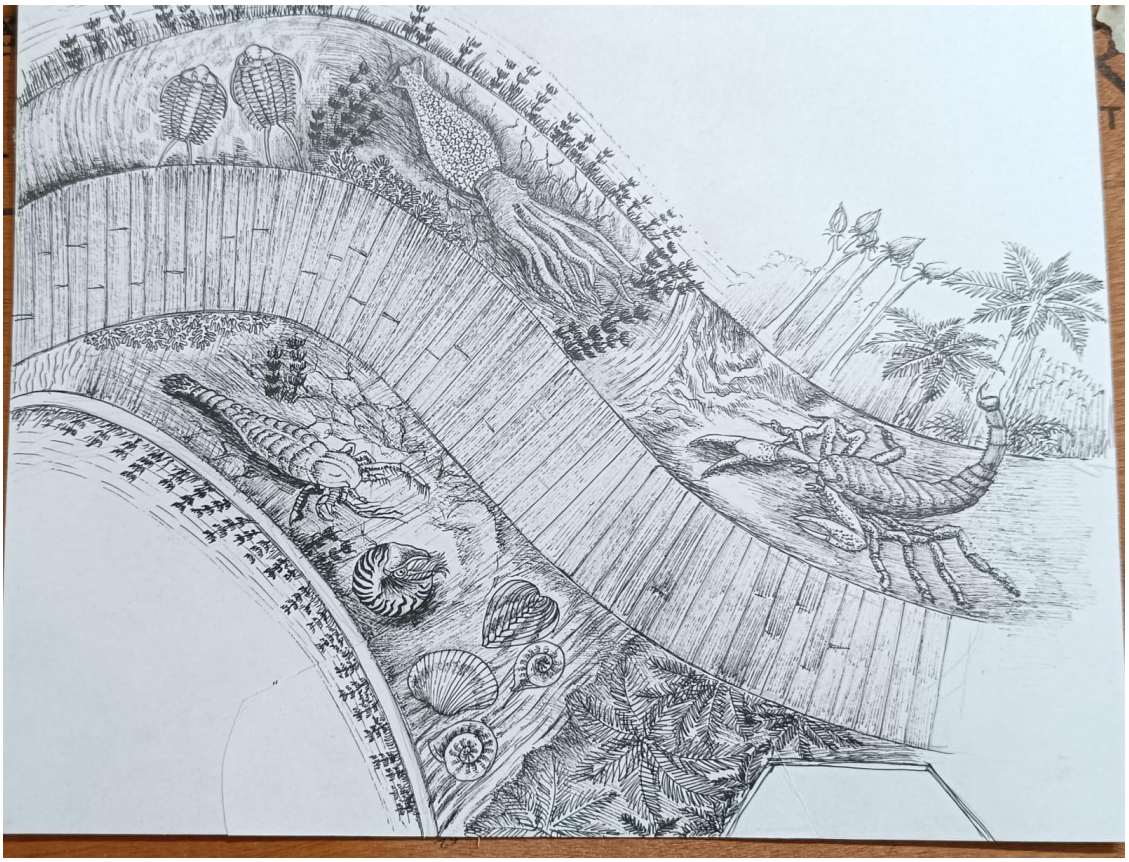


Fig4.1 Overall look and feel of life diversity in Permian sea after Cambrian diorama.

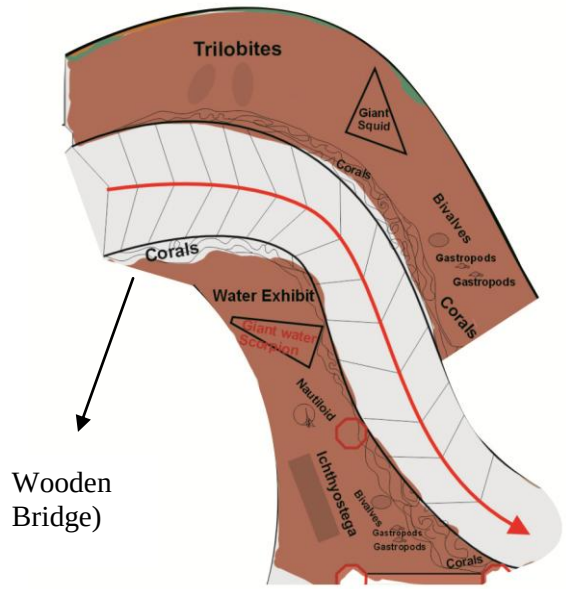
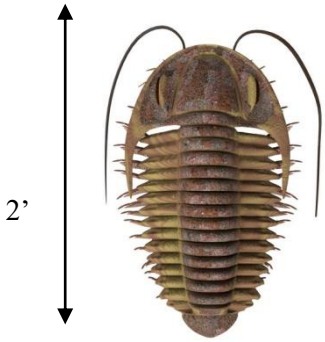
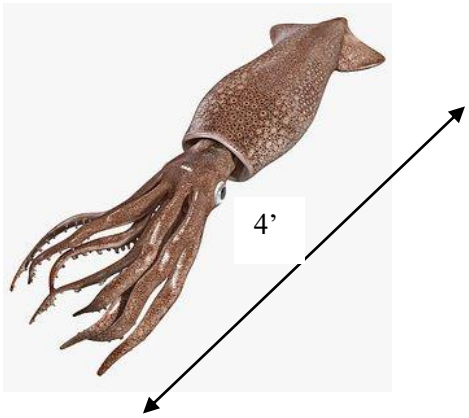


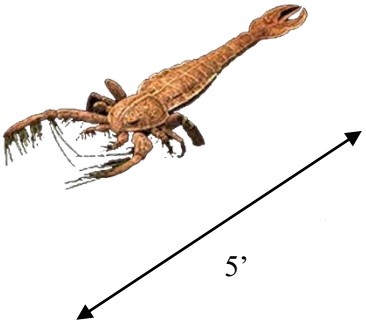
Fig. 4.2 :35’ Long (approx) wooden bridge



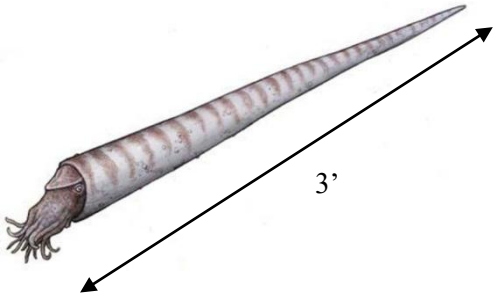
Trilobites



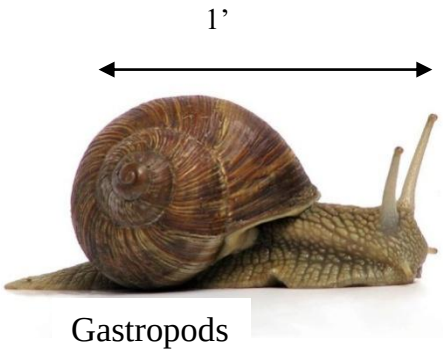
Giant Squid



Giant Water Scorpion



Nautiloid



Gastropods

Bivalves

Corals

Diorama 5: Life on Land :Water to land transition

- This diorama will Display of Permian monsters to show the creatures roamed the earth before the arrival of dinosaurs.

- Modelling of Giant Dragonfly, Giant Land Scorpion and Eryops with ceiling hanging giant dragonfly is to be done with minimum 5mm thick fibreglasss, Skin should be made of good quality rubber to provide real skin texture. Inside skeleton structure for reinforcement is to be made of appropriate iron sections to support the fiber jacket and rigidly fixed with screws. F.ig 5.1.

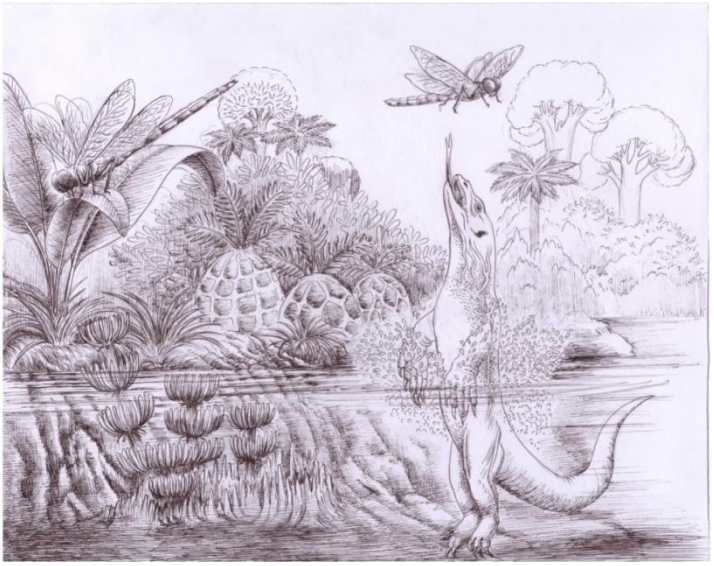
- Modeling of Dimetrodon is to be done with minimum 5mm thick fiber glass, Skin should be made of good quality silicon to provide real skin texture. Inside skeleton structure for reinforcement is to be made of appropriate iron sections of Apollo or Jindal make, which should be able to support the load and arrangement for fixing hinge or other mechanism part for the movement of the model. These sections iron sections should also be able to support the fiber jacket and rigidly fixed with screws. Silicone which will be used to make outer skin should have physical properties as Specific Gravity – 1.05 to1.15, Viscosity – 5000 to 50,000 Centipoise, Vapor density >1, Flash Point > 3000

- Landscaping is to made of minimum 5 mm thick fiber glass, thermocol, wooden frame etc as per given drawing.Area 250 Sq. ft. approx

- Plants modeling are to be done with minimum 5mm thick fiberglass and leaves with appropriate material using mix media and painting with matt NC paint of all intricate parts. All Plants shown in image should give realistic look and feel of that era. Sigillaria plant – 5Nos, Cycadeoidea – 4Nos,Cycad-5Nos and Grass bunch -25

- Scenography on the wall : Based on the diorama theme, background painting is to be done using Fabiano canvas and artistic acrylic colors. Canvas is to be pasted on background wooden panel made of 2” X 1.5” C/s medium teak wood with 2’ X 2’ grid size and 6mm BWP ply of Century or Green make with a effective good quality adhesive so that it should not come out from the wooden panel.Area 300 Sq. ft. approx

- Background painting: Artist acrylic colorsare to be used on canvas. Painting area has to be prepared by the agency.



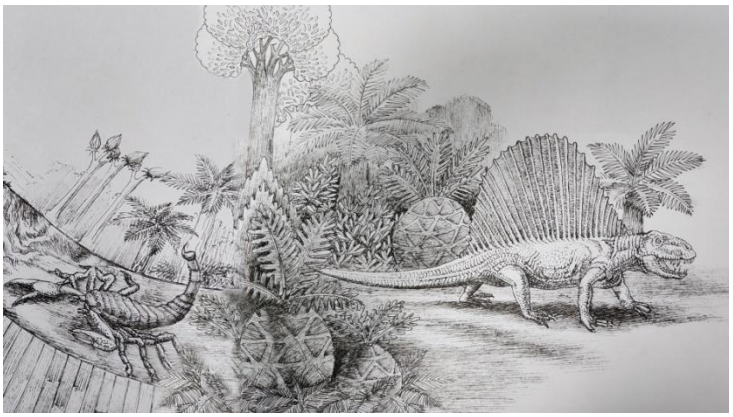


Fig5.1 Diorama 5: Artistic depiction of display of Permian monsters to show the creatures roamed the earth before the arrival of dinosaurs.

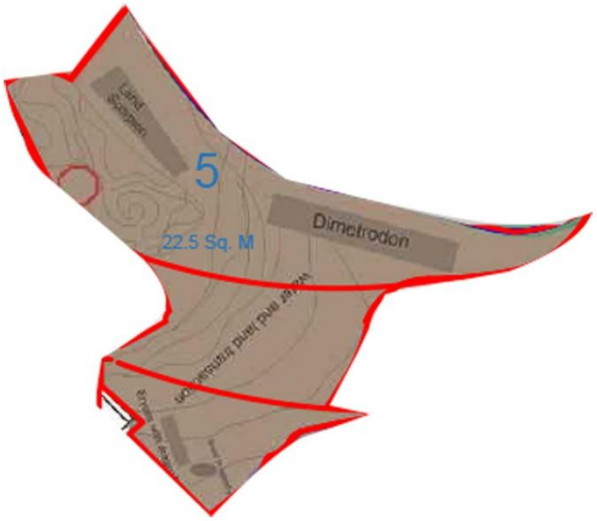
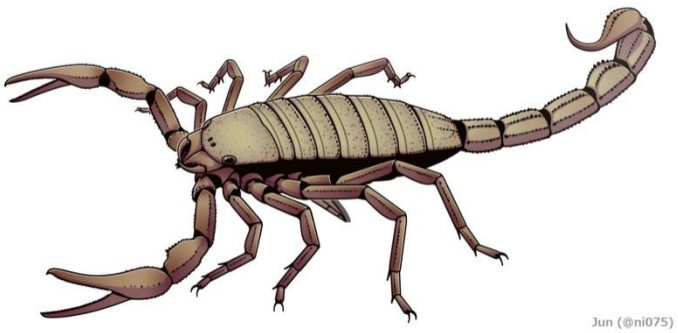


Fig 5.2 Diorama 6 Plan view

8’



Giant Land Scorpion

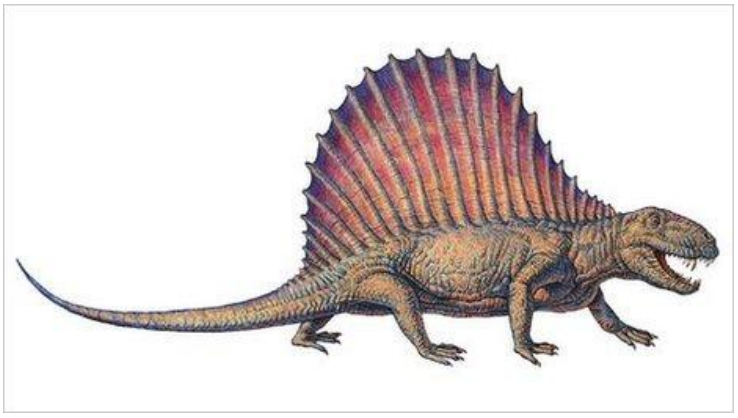
6’

Eryops

2.5’

Giant Dragonfly

11’

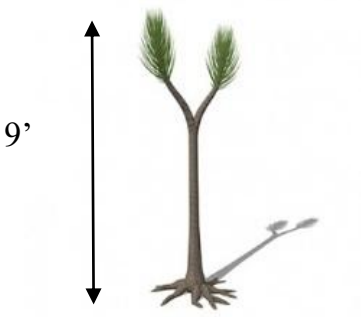


Dimetrodon

1’

Fern

9’



Sigillaria

2’

Cycadeoidea

9’

Cycad

Diorama 6: Triassic Period- The Arrival of Dinosaurs

- Models representing small beginning of dinosaurs. All dinosaur models and plants should be of high realistic finish.

- Fabrication of fiberglass model of Eoraptor and Coelophysis , inside skeleton strucure for reinforcement is to be made of appropriate iron sections to support the fiber jacket and rigidly fixed with screws. Outer skin is to be made with Silicone to provide real skin texture.
- Fabrication of fiberglass model of Cynognathus, inside skeleton strucure for reinforcement is to be made of appropriate iron sections to support the fiber jacket and rigidly fixed with screws.

- Landscaping is to made of minimum 5 mm thick fiber glass, thermocol, wooden frame etc as per given drawing. Area: 470 Sq. ft. approx.

- Scenography on the wall: Based on the diorama theme, background painting is to be done using Fabiano canvas and artistic acrylic colors. Canvas is to be pasted on background wooden panel made of 2" X 1.5" C/s medium teak wood with 2' X 2' grid size and 6mm BWP ply of Century or Green make with a effective good quality adhesive so that it should not come out from the wooden panel. Area: 510 Sq. ft. approx

- Plants modeling are to be done with minimum 5mm thick fibreglasss and leaves with appropriate material using mix media and painting with matt NC paint of all intricate parts. All Plants shown in image should give realistic look and feel of that era. as shown in fig 6.1. Grass bunch -20 Nos,Bjuvia plant -3Nos,Macrotaeniopteris – 4Nos, Cactus 3'and 4' -3Nos,

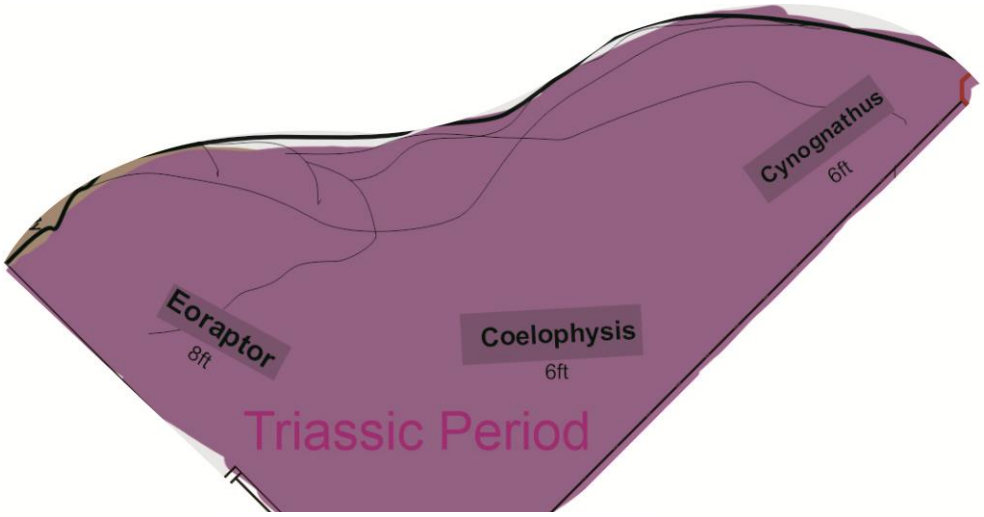


Fig. 6.1 Plan View of Diorama 6

Fig 6.2

9’

Coelophysis

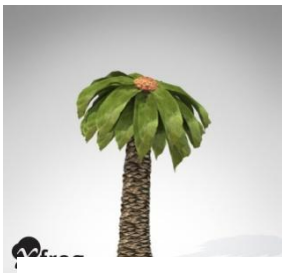
8’

Eoraptor

1’

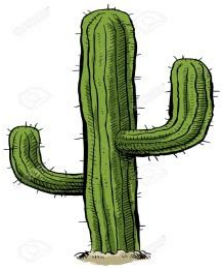
Fern -20Nos

9’



Bjuvia Plant -3Nos

3’



Cactus plant -3Nos

Diorama 7: Jurassic Period – 1

- Fabrication of fiberglass model of Dilophosaurus, inside skeleton strucure for reinforcement is to be made of appropriate iron sections of Apollo / Jindal make to support the fiber jacket and rigidly fixed with screws. Outer skin is to be made with Silicone, color scheme will be provided by NSCD at the time of execution.

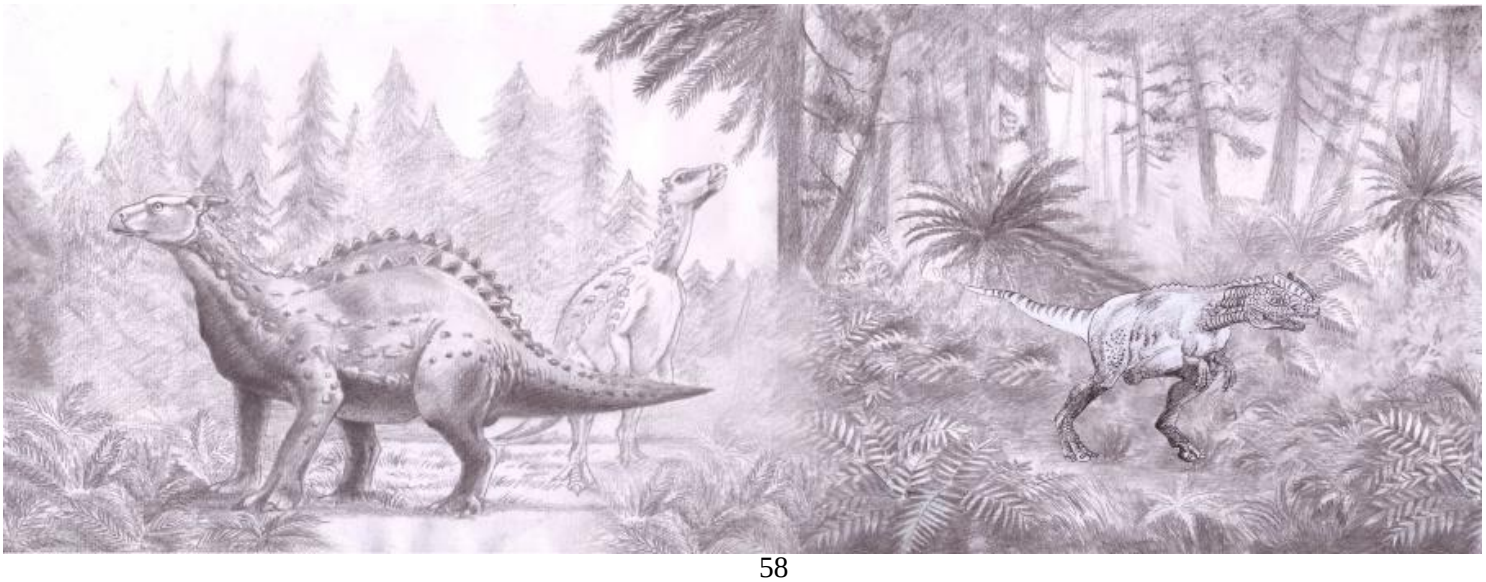
- Modelling of Scelidosaurus is to be done with minimum 5mm thick fiberglass, Skin should be made of good quality rubber to provide real skin texture. Inside skeleton structure for reinforcement is to be made of appropriate iron sections Apollo / Jindal make to support the fiber jacket and rigidly fixed with screws.

- Plants modeling shown in drawing is to be done with minimum 5mm thick fiberglass and leaves with appropriate material using mix media and painting with matt NC paint of all intricate parts. all Plants shown in image should give realistic look and feel of that era. Williamsonia plant – 4Nos, Cycadeoidea - 3Nos and Fern -30 Nos

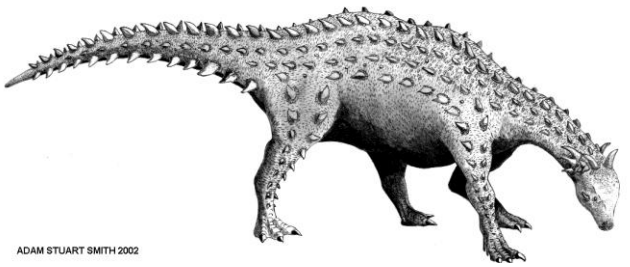
- Landscaping is to made of minimum 5 mm thick fiber glass, thermocol , wooden frame etc as per given drawing. Area 350 Sq. ft.

- Scenography on the wall: Based on the diorama theme, background painting is to be done using Fabiano canvas and artistic acrylic colors. Canvas is to be pasted on background wooden panel made of 2" X 1.5" C/s medium teak wood with 2' X 2' grid size and 6mm BWP ply of Century or Green make with a effective good quality adhesive so that it should not come out from the wooden panel. Area 350 Sq. ft.

-



15’



Scelidosaurus

Fig.7.2 Plan View of Diorama 7

10’

Dilophosaurus

7’

7’

Williamsonia Plant

2’

Cycadeoidea Plant

1’

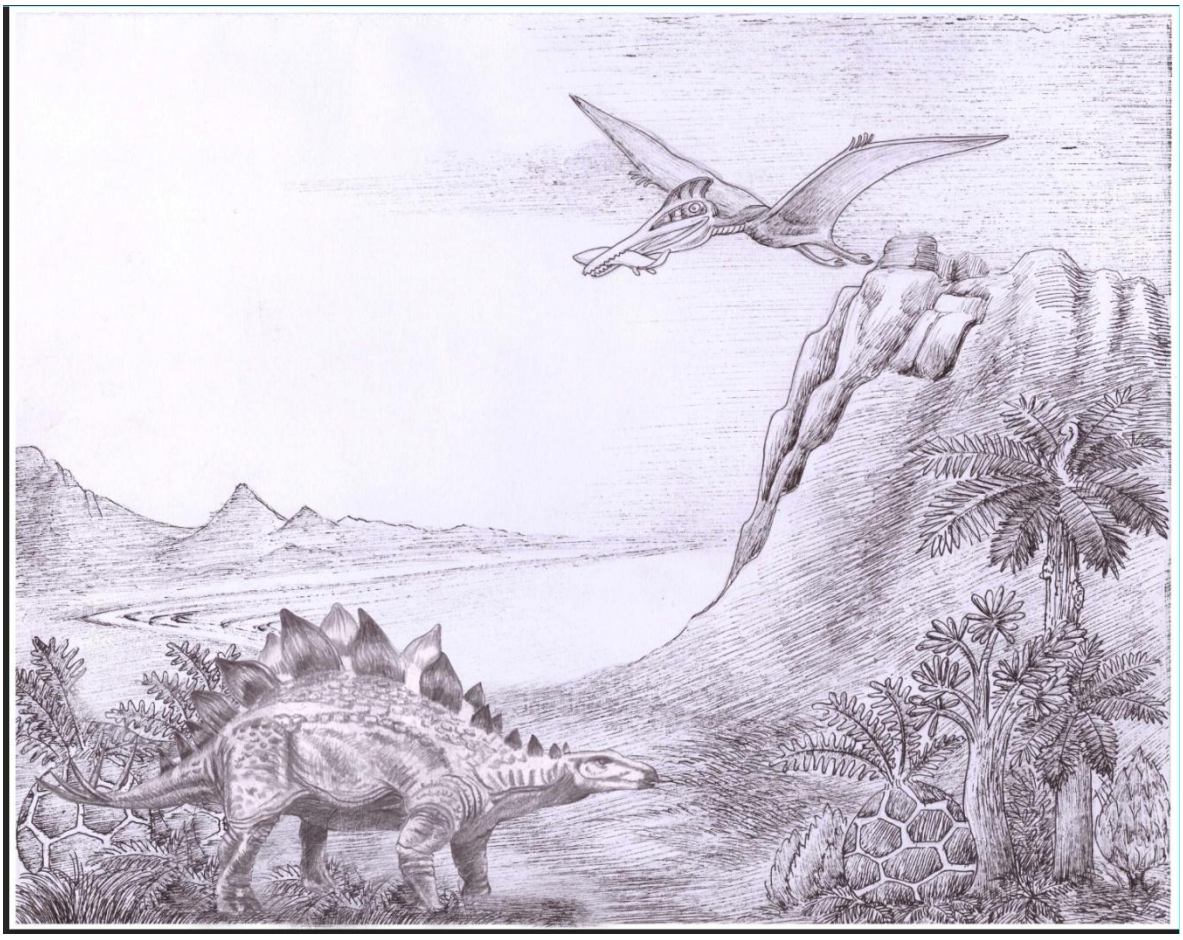
Fern

AnnexureE-8

Diorama 8 : Jurassic Period - 2

- Modelling of Stegosaurusis to be done with minimum 5mm thick fibre glasss, Skin should be made of good quality silicon to provide real skin txture.Inside skeleton strucure for reinforcement is to be made of appropriate iron sections like rod, pipe (circular or square or rectangular), flat ect. of Apollo or Jindal make, which should be able to support the load and arrangement for fixing hinge or other mechanism part for the movement of the model. These MS sections should also be able to support the fiber jacket and rigidly fixed with screws. Silicone which will be used to make outer skin that should give look and feel of real skin texture.

- Modelling of Pterodactylusis to be done with minimum 5mm thick fibre glasss, Skin should be made of good quality rubber to provide real skin txture.Inside skeleton strucure for reinforcement is to be made of appropriate iron sections like rod, pipe (circular or square or rectangular), flat ect. of Apollo or Jindal make, to support the fiber jackect and rigidly fixed with screws.
- Plants modeling shown in drawing is to be done with minimum 5mm thick fibre glasss and leaves with appropriate material using mix media and painting with matt NC paint of all intricate parts of Plants as shown in image and these should give realistic look and feel of that era. Quantity :Williamsonia plant –5Nos, Cycadeoidea – 4Nos, Fern bunch -30Nos
- Landscaping is to made of minimum 5 mm thick fiber glass, thermocol , wooden frame etc as per given drawing. Area around 400 Sq. ft.
- Scenography on the wall :Based on the diorama theme, background painting is to be done using Fabiano canvas and artistic acrylic colors. Canvas is to be pasted on background wooden panel made of 2" X 1.5" C/s medium teak wood with 2' X 2' grid size and 6mm BWP ply of Century or Green make witha effective good quality adhesive so that it should not come out from the wooden panel. Area around 350 Sq. ft.



Details of Diorama 8

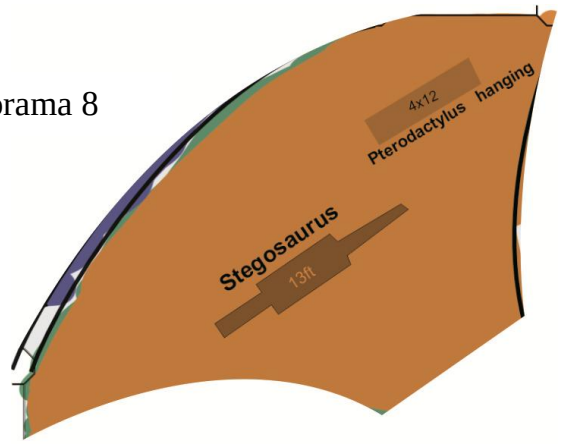


Fig. 8.1

Fig.8.2 Plan View of Diorama 8

7’

Williamsonia Plant

2’

Cycadeoidea

1’

Fern bunch

14’

Stegosaurusis

12’

Pterodactyls

Diorama 9: Jurassic Period– 3

- Modelling of Archaeopteryxis to be done with minimum 5mm thick fibre glasss. Skin should be made of good quality silicon to provide real skin txture.Inside skeleton strucure for reinforcement is to be made of appropriate MS sections like rod, pipe (circular or square or rectangular), flat ect. of Apollo or Jindal make, which should be able to support the load and arrangement for fixing hinge or other mechanism part for the movement of the model. These MS sections should also be able to support the fiber jacket and rigidly fixed with screws. Silicone which will be used to make outer skin that should give look and feel of real skin texture.
- Plants modeling shown in drawing is to be done with minimum 5mm thick fibre glasss and leaves with appropriate material using mix media and painting with matt NC paint of all intricate parts. all Plants shown in image should give realistic look and feel of that era.
  Quantity : Williamsonoa – 2Nos,Cycadeoidea -1, Fern bunch -20Approx
- Landscaping is to made of minimum 5 mm thick fiber glass, thermocol , wooden frame etc as per given drawing. Area 90 Sq. ft. approx
- Scenography on the wall :Based on the diorama theme, background painting is to be done using Fabiano canvas and artistic acrylic colors. Canvas is to be pasted on background wooden panel made of 2" X 1.5" C/s medium teak wood with 2' X 2' grid size and 6mm BWP ply of Century or Green make witha effective good quality adhesive so that it should not come out from the wooden panel. Area 210 Sq. ft. approx

Fig 9.1 Diorama 7C

3’

Fig. 9.2 Archaeopteryx

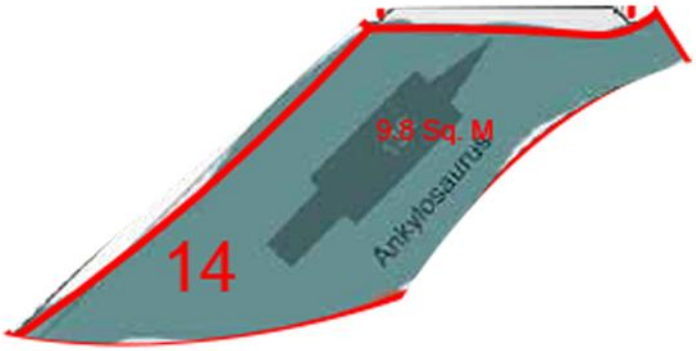


Fig. 9.3 Top View of Diorama 9

7’

Williamsonoa Plant

2’

Cycadeoidea Plant

1’

Fern Bunch

Diorama10: Selfie Point

- This is the high finish realistic scale model of dinosaur foot print and replica of dinosaur bone and low relief rocky texture is created on the wall. It has to be fabricated using fiberglass, as this area is to be used as selfie point so 2" height strong wooden pedestal is to be made for visitors so that can stand there and take selfie as per details in fig 10.1.

- Normal landscaping is to be done as per drawing.
  Area 70 Sq. ft. approx

- Low relief fiberglass rocky texture with dinosaur footprint is to be fabricated as per drawing given and fixed on background wooden panel made of 2" X 1.5" C/s medium teak wood with 2' X 2' grid size and 6mm BWP ply of Century or Green make..Area 95 Sq. ft. approx

- Support and armature will be of FRP with proper wooden and MS reinforcement inside & base, wherever it is required.

- Fiberglass (FRP) casting with a thickness of 6 mm, sheet metal and mixed media *GP resin for indoor * mat quality 450 grad.

- Model should be as real as possible.

- Fig10.2tofig10.3 maybe used for reference for making this diorama any other image may also be used with prior approval from authority of NSCD.

- Background painting: Artist oil color on canvas.

Fig10.1 Diorama showing dinosaur foot print and replica of dinosaur bone

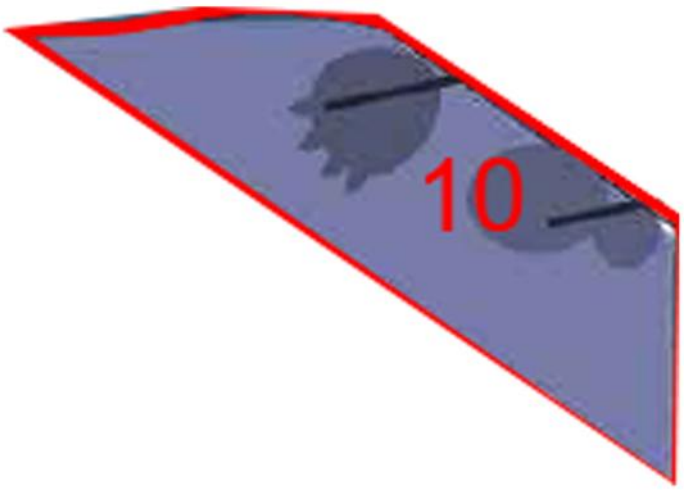


Fig.10.2 Plan View of Diorama 10

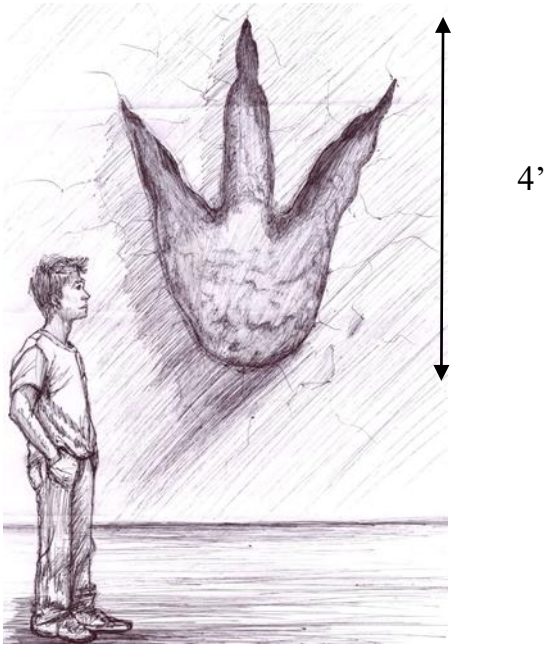


Fig10.3 Reference images for Dinosaur Footprint Fossil

Diorama 11:Cretaceous Period – 1(Triple height area)

- This is a triple height area, which is to maintained as it is up to some extent. In this diorama some dinosaur model like Stegosaurus is to be shifted and Corythosaurus will come at its place.
- Modelling of Corythosaurus to be done with minimum 5mm thick fibre glasss. Skin should be made of good quality silicon to provide real skin txture.Inside skeleton strucure for reinforcement is to be made of appropriate MS sections like rod, pipe (circular or square or rectangular), flat ect. of Apollo or Jindal make, which should be able to support the load and arrangement for fixing hinge or other mechanism part for the movement of the model. These MS sections should also be able to support the fiber jacket and rigidly fixed with screws. Silicone which will be used to make outer skin that should give look and feel of real skin texture.
- The high finish realistic models of Psittacosaurus and Quetzalcoatlusare to made with fiberglass of minimum 5mm thick with strong armature inside and outer skin with rubber
- Triceratops (in cave), Parasaurolophus and Pteronodon (with hill) are to be refurbished to match with the new fabricated models of dinosaurs.
- Plants modeling is to be done with minimum 5mm thick fibre glasss and leaves with appropriate material using mix media and painting with matt NC paint of all intricate parts. All Plants shown in image should give realistic look and feel of that era.

  Quantity : Nipa (palm) -4Nos, Tempskya (fern) – 3Nos, Palmatto Palm – 20 Nos
- Landscaping is to done as and where it is required as after interchanging and replacing of dinosaur models, lot of already done landscaping work will be required to be redone. Minimum 5 mm thick fiber glass, thermocol , wooden frame etc. should be used for this purpose as per given drawing. Area 800 ,Sq. ft. approx
- Scenography on the wall : Based on the diorama theme, background painting is to be done as and where required to match with the sketch, using Fabiano canvas and artistic acrylic colors. Canvas is to be pasted on background wooden panel made of 2” X 1.5” C/s medium teak wood with 2’ X 2’ grid size and 6mm BWP ply of Century or Green make witha effective good quality adhesive so that it should not come out from the wooden panel. Area : 250 Sq.ft approx.

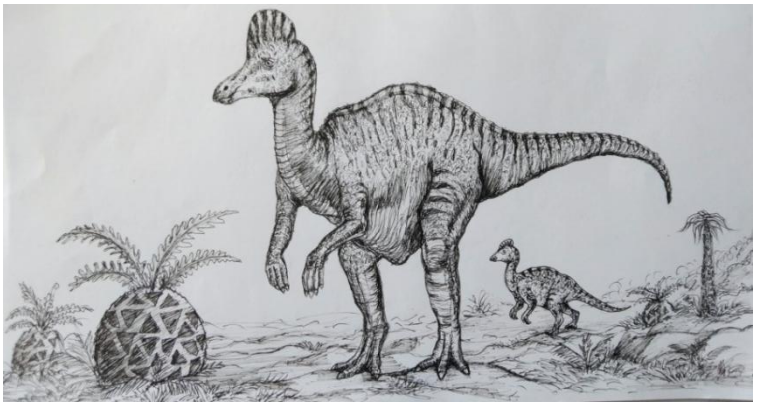
Fig11.1 Details of Diorama 11

10’

Psittacosaurus

15’

10’



Quetzalcoatlusare

Corythosaurus

Corythosaurus

3’

6’

Nipa (Palm)

10’

Tempskya (fern)

Diorama 12: Cretaceous Period – 2

- Fabrication of fiberglass model of Microraptor as per drawing and inside skeleton strucure for reinforcement is to be made of appropriate iron sections to support the fiber jackect and rigidly fixed with screws, wherever neccessery rubber skin is to be used for natural look.
- Refurbishing of Oviraptor to have finish of surrounded dinosaur models.
- Fabrication of fiberglass model of Velociraptor, inside skeleton strucure for reinforcement is to be made of appropriate iron sections to support the fiber jackect and rigidly fixed with screws. Outer skin is to be made with Silicone
- Plants modeling are to be done with minimum 5mm thick fibre glasss and leaves with appropriate material using mix media and painting with matt NC paint of all intricate parts. All Plants shown in image should give realistic look and feel of that era.
  Quantity : Tempskyaplant -3Nos,Ficus – 4Nos, Nipa (palm) – 3Nos,Fern bunch -20
- Landscaping is to made of minimum 5 mm thick fiber glass, thermocol , wooden frame etc as per given drawing. Area 280 Sq. ft. approx
- Scenography on the wall: Based on the diorama theme, background painting is to be done using Fabiano canvas and artistic acrylic colors. Canvas is to be pasted on background wooden panel made of 2" X 1.5" C/s medium teak wood with 2' X 2' grid size and 6mm BWP ply of Century or Green make with a effective good quality adhesive so that it should not come out from the wooden panel.Area 370 Sq. ft. approx

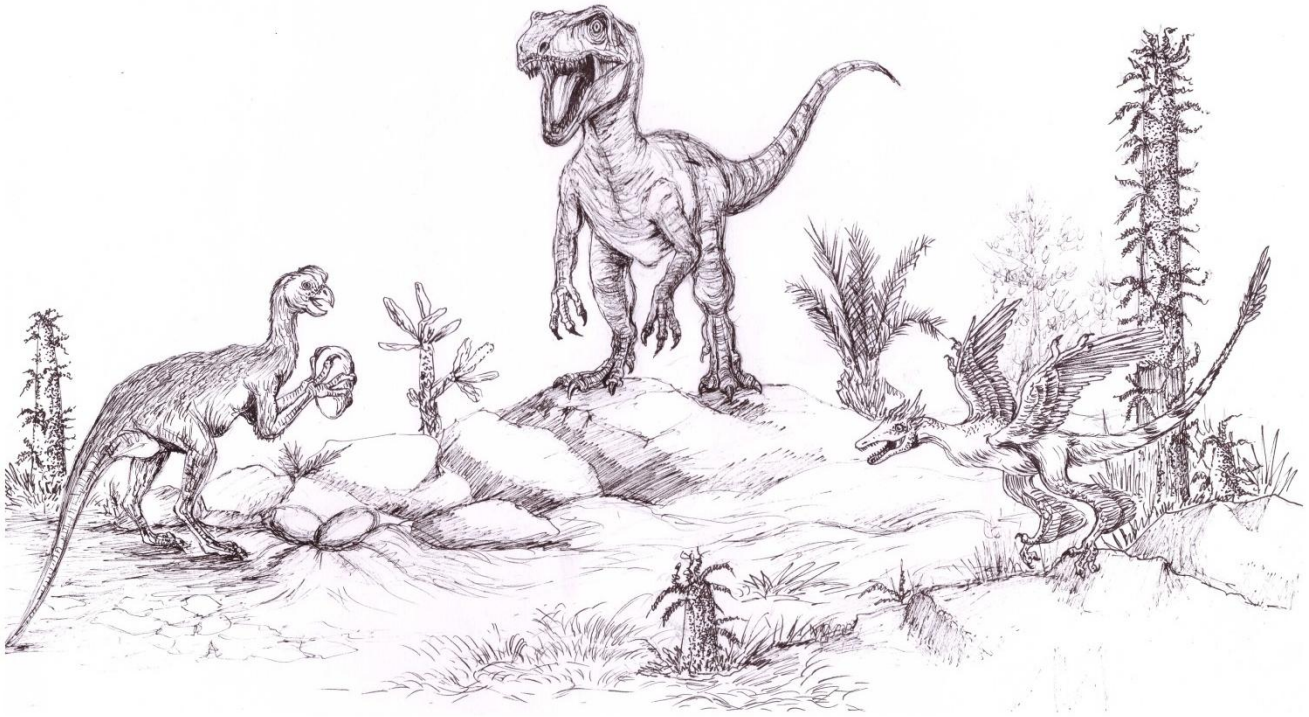


Fig12.1 Diorama 9B

6’

Fig12.2 Velociraptor

3’

Fig12.3Microraptor

8’

Fig12.4Oviraptor

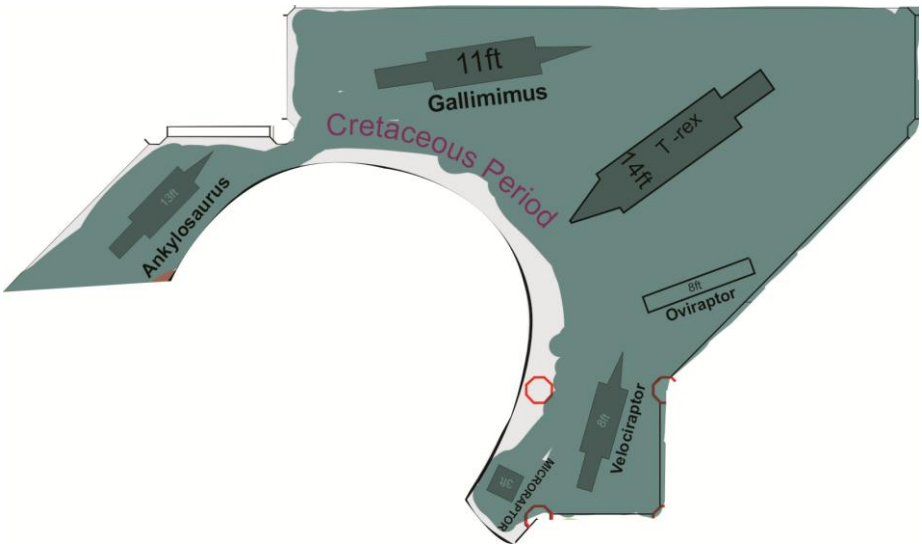
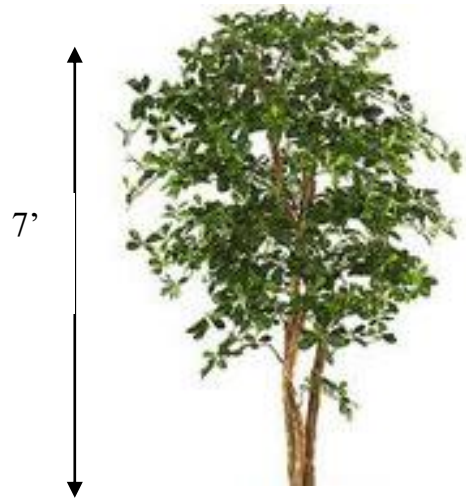


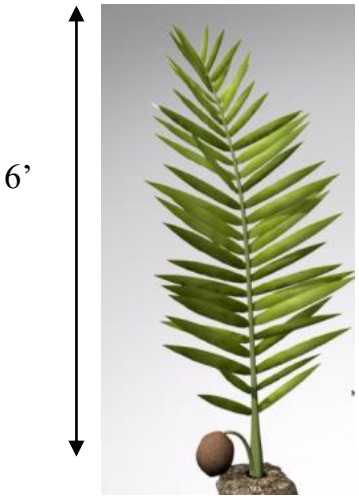
Fig. 12.5 Diorama Top View

Fern bunch

Tempskya Plant



Ficus Plant



Nipa (palm)

Diorama 13: Cretaceous Period – 3

- Fabrication of fiberglass model of Gallimimus as per drawing and inside skeleton strucure for reinforcement is to be made of appropriate iron sections to support the fiber jackect and rigidly fixed with screws.
- Modeling of Tyrannosaurus rex is to be done with minimum 5mm thick fiber glass, Skin should be made of good quality silicon to provide real skin texture. Inside skeleton structure for is to be made of appropriate iron sections of Apollo or Jindal make, which should be able to support the load and arrangement for fixing hinge or other mechanism part for the movement of the model. These sections iron sections should also be able to support the fiber jacket and rigidly fixed with screws. Silicone which will be used to make outer skin should have physical properties as Specific Gravity – 1.05 to1.15, Viscosity – 5000 to 50,000 Centipoise, Vapor density >1, Flash Point > 3000.
- Plants modeling are to be done with minimum 5mm thick fibre glasss and leaves with appropriate material using mix media and painting with matt NC paint of all intricate parts. All Plants shown in image should give realistic look and feel of that era.
  Quantity :Tempskya plant – 2Nos , Cycadeoidea - 2Nos, Fern -50Nos
- Landscaping is to made of minimum 5 mm thick fiber glass, thermocol , wooden frame etc as per given drawing. Area – 630 Sq. ft. approx
- Scenography on the wall: Based on the diorama theme, background painting is to be done using Fabiano canvas and artistic acrylic colors. Canvas is to be pasted on background wooden panel made of 2" X 1.5" C/s medium teak wood with 2' X 2' grid size and 6mm BWP ply of Century or Green make witha effective good quality adhesive so that it should not come out from the wooden panel.Area – 650 Sq. ft. approx

Fig13.1 Diorama 9C

18’

Fig. 13.2 Tyrannosaurus Rex

12’

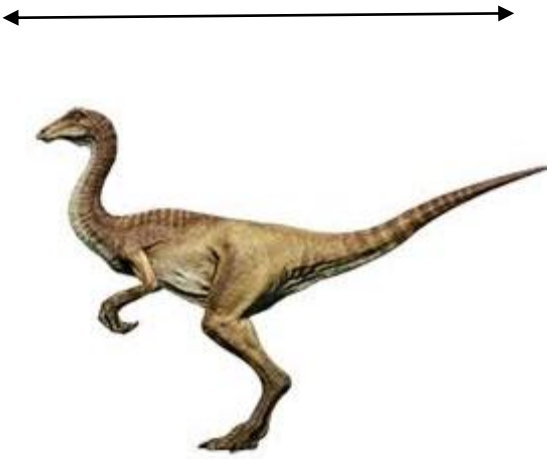


Fig. 13.3 Gallimimus

Fig13.4 Diorama 9C Top View

2’

Cycadeoidea Plant

10’

Tempskya plant

1’

Fern Plant

Diorama14: Cretaceous Period - 4

- Refurbishing of Ankylosaurus model to have finish of surrounded dinosaur models by repairing and repainting of fiber jacket and rubber skin .
- Plants modeling are to be done with minimum 5mm thick fibre glasss and leaves with appropriate material using mix media and painting with matt NC paint of all intricate parts. All Plants shown in image should give realistic look and feel of that era.
  Quantity: Tempskya Plant – 2Nos, Williamsonia Plant 3' – 2Nos, Fern bunch -20Nos
- Landscaping is to made of minimum 5 mm thick fiber glass, thermocol , wooden frame etc as per given drawing. Area 105 Sq. ft. approx.
- Scenography on the wall :Based on the diorama theme, background painting is to be done using Fabiano canvas and artistic acrylic colors. Canvas is to be pasted on background wooden panel made of 2" X 1.5" C/s medium teak wood with 2' X 2' grid size and 6mm BWP ply of Century or Green make with a effective good quality adhesive so that it should not come out from the wooden panel.Area 240 Sq. ft. approx.

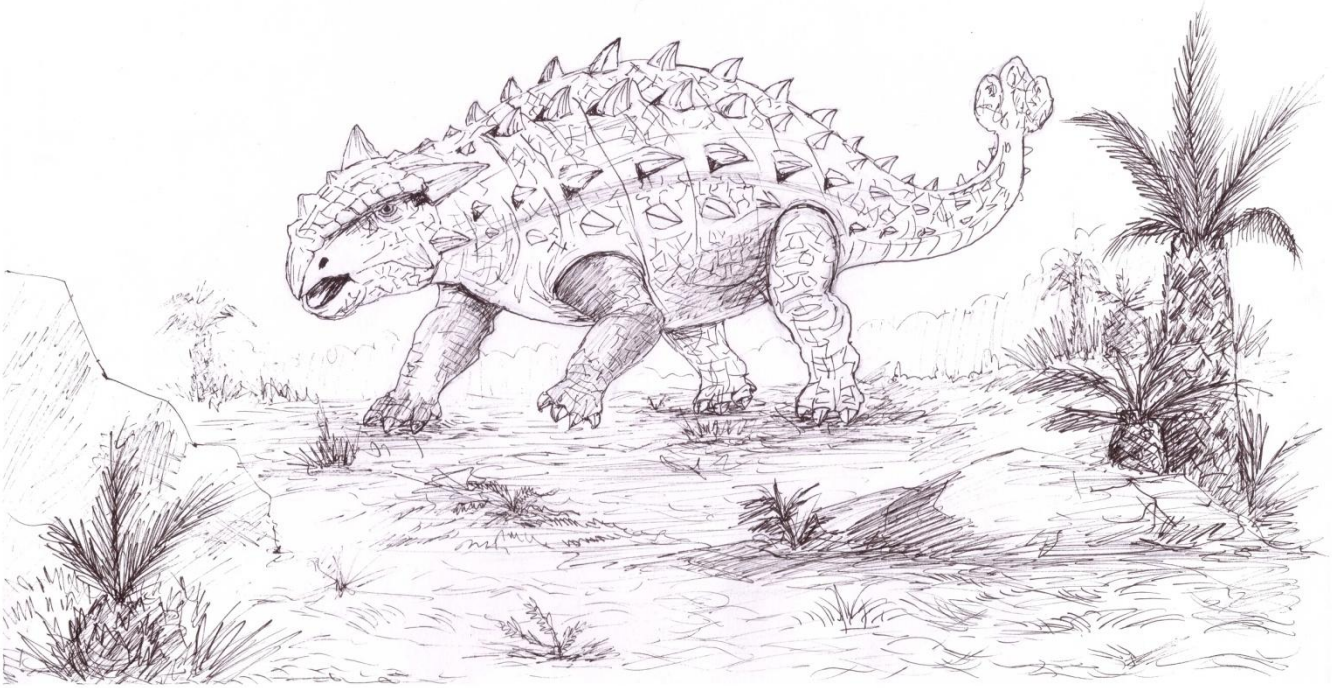


Fig.14.1 Diorama 9d Top View

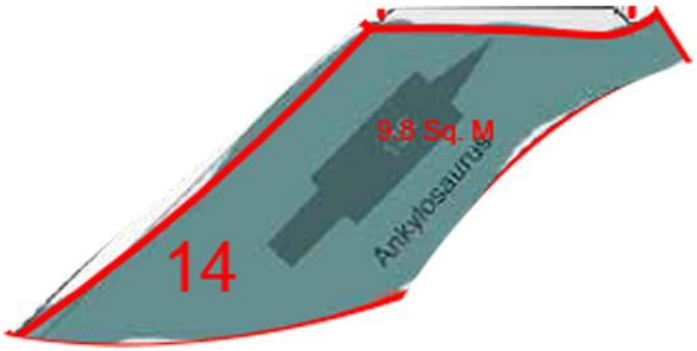


Fig14.2 Diorama 9D Top View

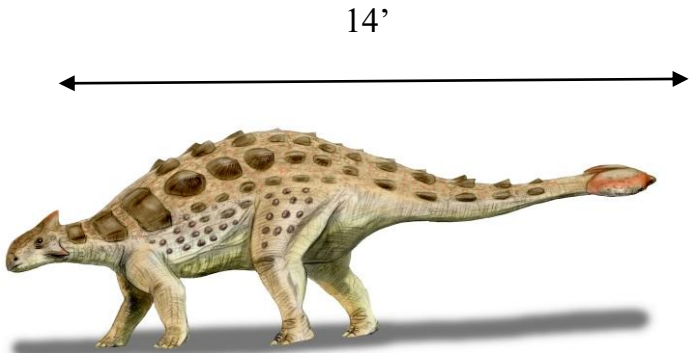
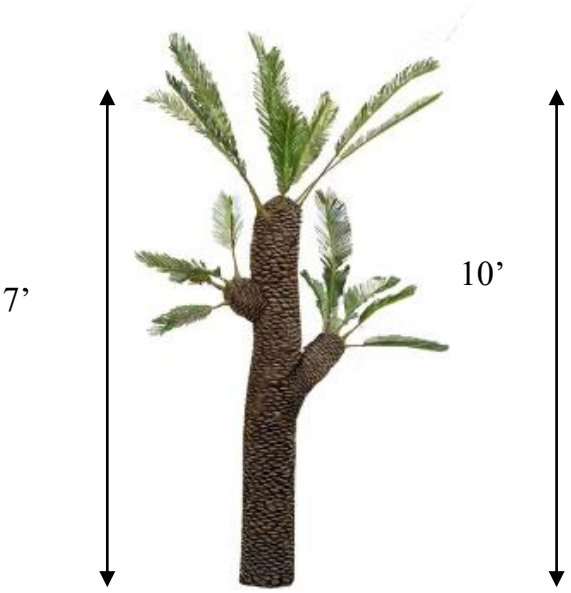


Fig14.3 Ankylosaurus

Fern Plant



Williamsonia Plant

Tempskya Plant

Diorama 15:Tertiary Period - The Age of Mammals begins

- This diorama shows the Tertiary Period that began about 66 million years ago with a mass extinction that 'clocked' the dinosaurs and ended when the ice ages of the Quaternary Period began, about 2.6 million years ago.
- Fabrication of fiberglass model of Diatryma, Lemur (on tree), Proconsul Ape on tree, MoeritheriumandDienotherium .Inside skeleton strucure for reinforcement is to be made of appropriate iron sections to support the fiber jackect and rigidly fixed with screws. Outer skin is to be made as per the look and feel shown in the reference images and drawing.
- Plants modeling is to be done with minimum 5mm thick fibre glasss and leaves with appropriate material using mix media and painting with matt NC paint of all intricate parts. All Plants shown in image should give realistic look and feel of that era.
  Quantity :Ficus Plant – 2Nos, Pine Tree – 6Nos, Grass Bunch -40 Nos
- Landscaping is to made of minimum 5 mm thick fiber glass, thermocol , wooden frame etc as per given drawing. Area 380 Sq.ft. approx
- Scenography on the wall :Based on the diorama theme, background painting is to be done using Fabiano canvas and artistic acrylic colors. Canvas is to be pasted on background wooden panel made of 2" X 1.5" C/s medium teak wood with 2' X 2' grid size and 6mm BWP ply of Century or Green make witha effective good quality adhesive so that it should not come out from the wooden panel.Area 310 Sq.ft. approx

Fig. 15.1Lemur on tree

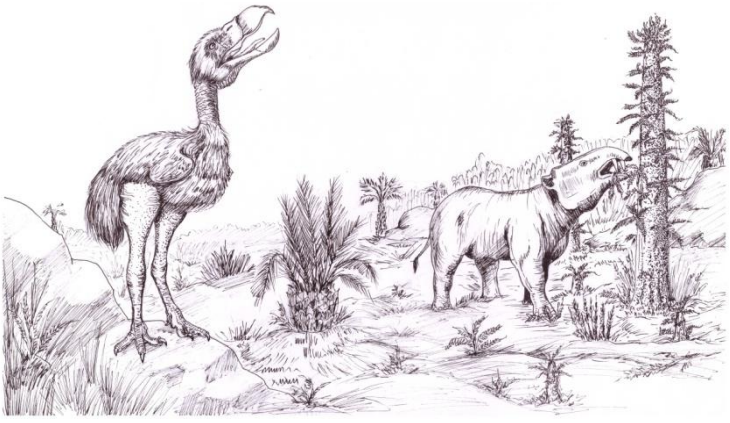


Fig. 15.2 Diatryma and Moeritherium

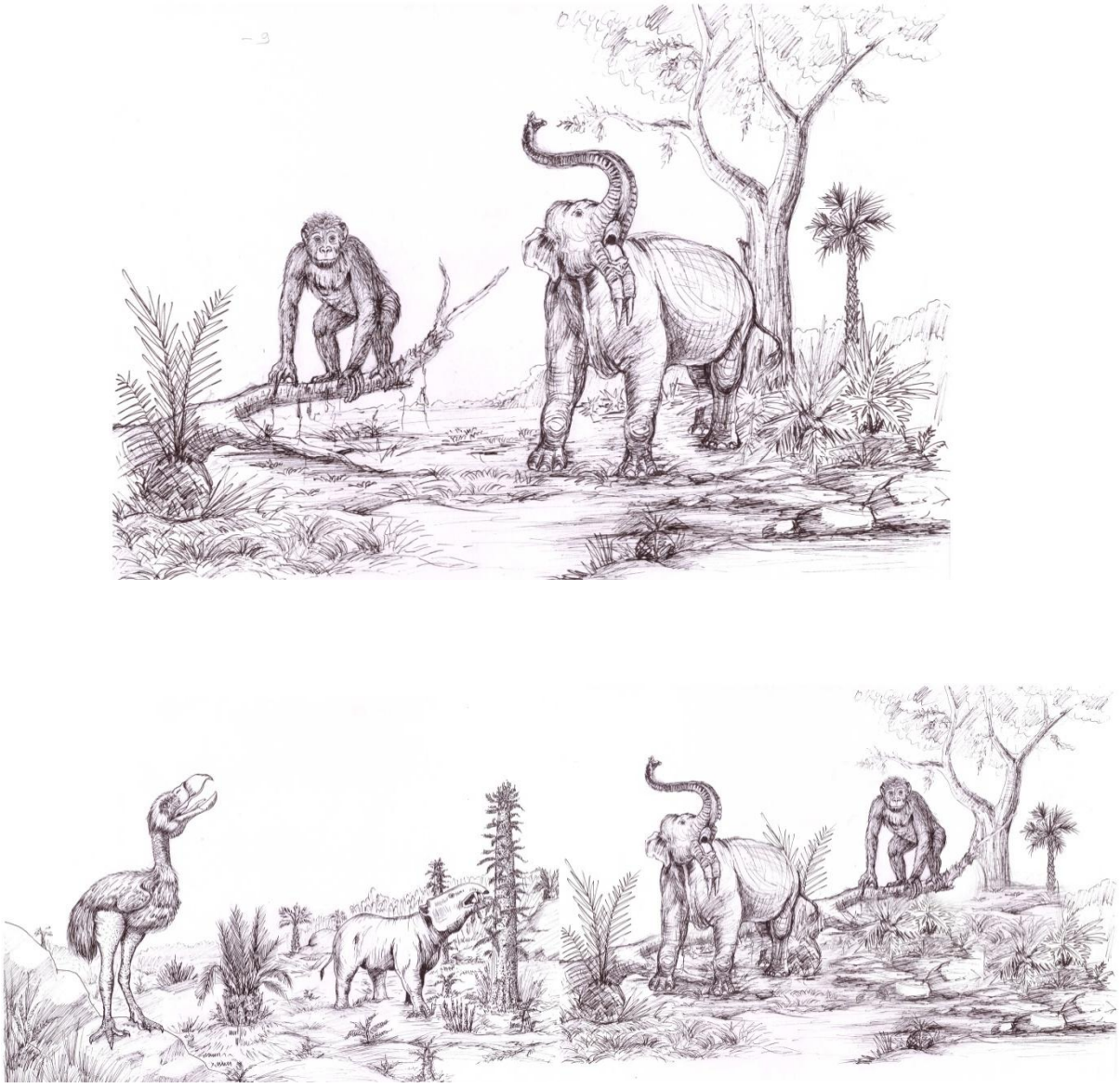
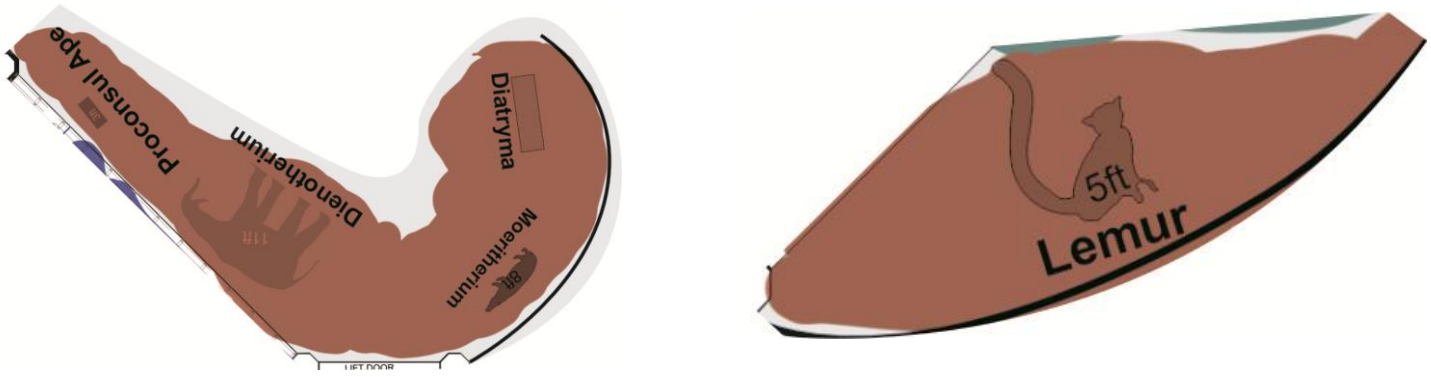
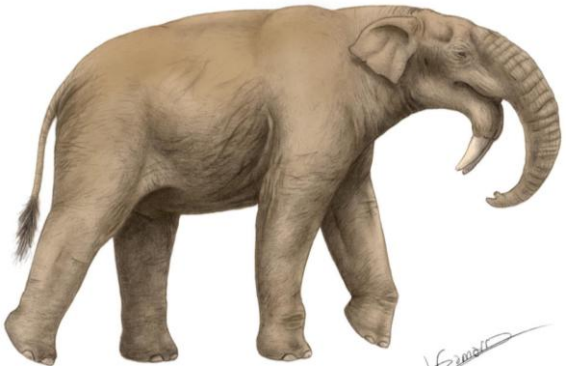


Fig. 15.3 Dienotherium, Proconsul Ape on tree, Lemur on tree, Diatryma and Moeritherium



12’



Dienotherium (Reference Image)

7’

Diatryma (Reference Image)

4’

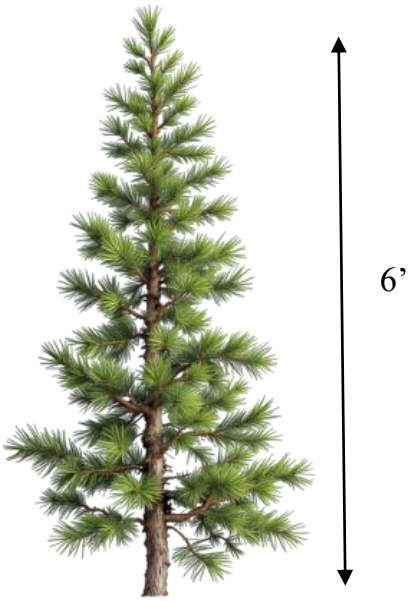
Proconsul Ape (Reference Image)

8’

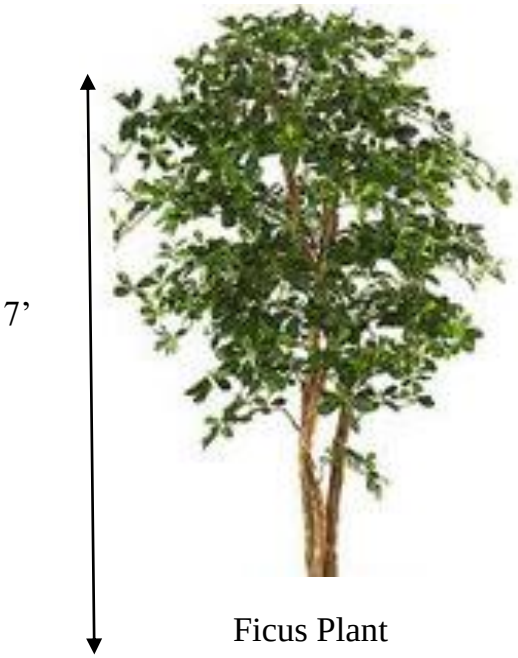
Moeritherium (Reference Image)

5’

Lemur



Pine Tree



Ficus Plant

Grass Bunch

Diorama 16 : Quaternary Period - 1

- This diorama shows **Quaternary period**, which began only 2.58 million years ago and continuing to the present day. The Quaternary has been characterized by several periods of glaciations, when ice sheets many kilometers thick have covered vast areas of the continents in temperate areas. During and between these glacial periods, rapid changes in climate and sea level have occurred, and environments worldwide have been altered. These variations in turn have driven rapid changes in life-forms, both flora and fauna. Beginning some 200 Thousands years ago, they were responsible for the rise of modern humans.
- Works involved in this diorama are:
  Fabrication of fiberglass model of Megatherium and Smilodon .Inside skeleton strucure for reinforcement is to be made of appropriate iron sections to support the fiber jackect and rigidly fixed with screws. Outer skin(fur etc) is to be made as per the look and feel shown in the reference images and drawing.
- Scenography on the wall :Based on the diorama theme, background painting is to be done using Fabiano canvas and artistic acrylic colors. Canvas is to be pasted on background wooden panel made of 2" X 1.5" C/s medium teak wood with 2' X 2' grid size and 6mm BWP ply of Century or Green make witha effective good quality adhesive so that it should not come out from the wooden panel.Approximate area 240 Sq. ft. approx
- Landscaping is to made of minimum 5 mm thick fiber glass, thermocol , wooden frame etc to match with the image shown. Approximate area 250 Sq. ft. approx
- Bushes without leaves – 50 Nos and Pine tree - 3 Nos to be made with appropriate material using mix media and painting as shown in image to give realistic look and feel of that era

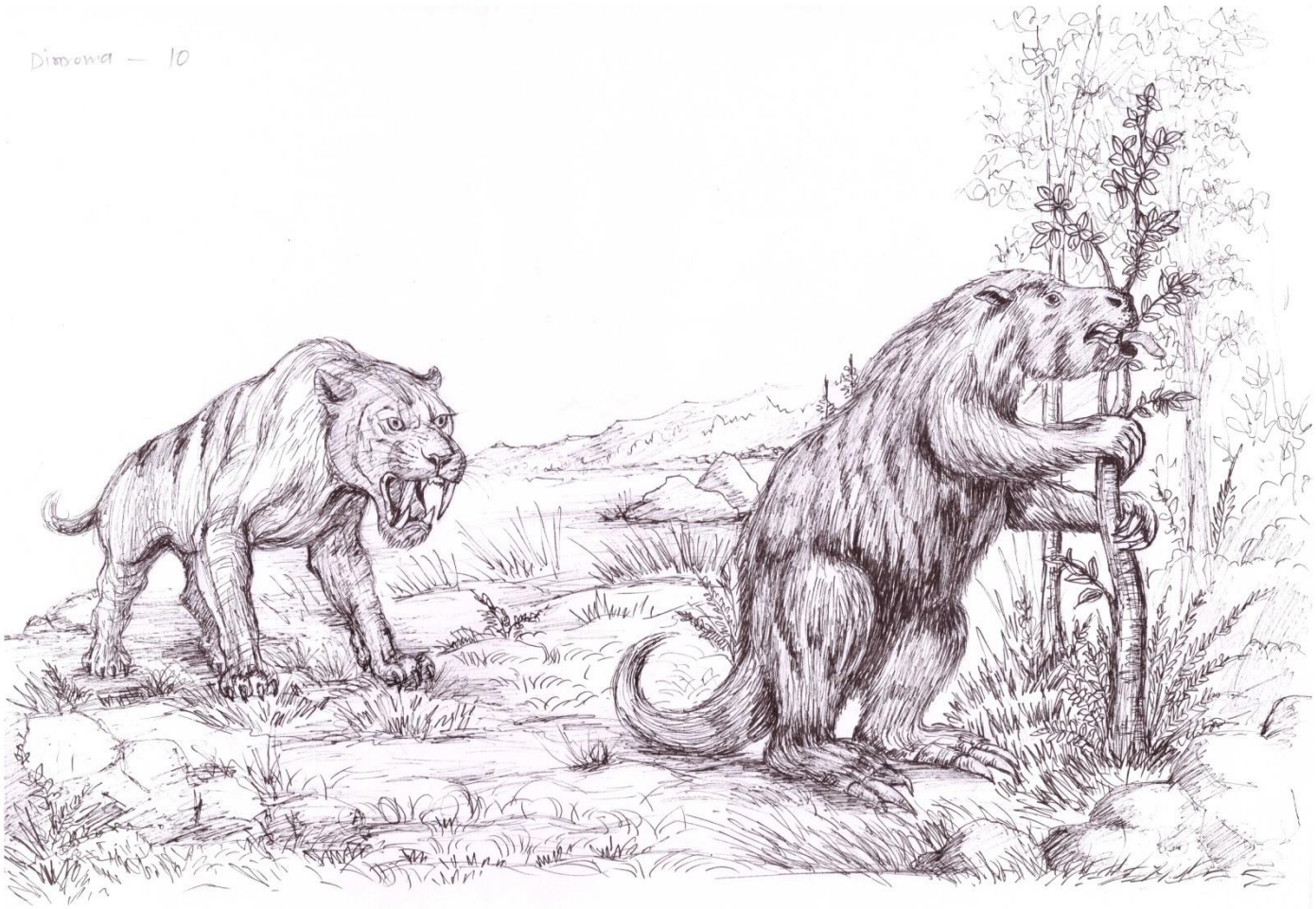


Fig16.1 Diorama 11

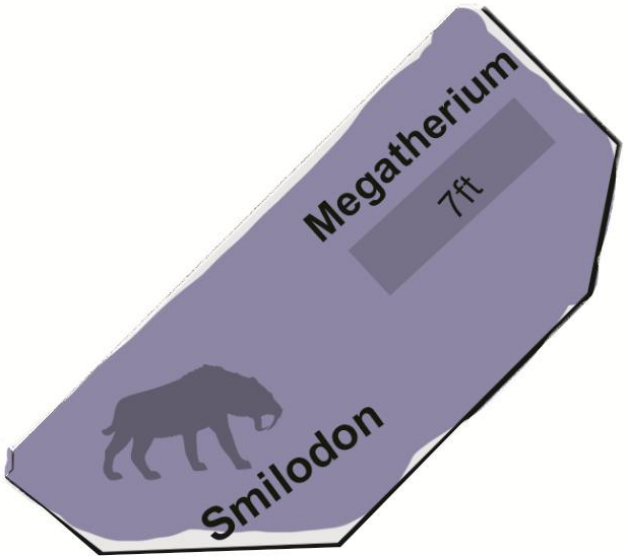


Fig16.1 Diorama 11 Top View

9’

Smilodon (Reference Image)

8’

Megatherium (Reference Image)

1’

Shrub without Leaves

6’

Pine Tree

Diorama 17: Quaternary Period - 2

- Works involved in this diorama are:
  Fabrication of fiberglass model of Wooly Mammoth and Wooly Rhinoceros.Inside skeleton strucure for reinforcement is to be made of appropriate iron sections to support the fiber jackect and rigidly fixed with screws. Outer skin(fur etc) is to be made as per the look and feel shown in the reference images and drawing.
- Scenography on the wall: Based on the diorama theme, background painting is to be done using Fabiano canvas and artistic acrylic colors. Canvas is to be pasted on background wooden panel made of 2" X 1.5" C/s medium teak wood with 2' X 2' grid size and 6mm BWP ply of Century or Green make witha effective good quality adhesive so that it should not come out from the wooden panel. Area 375Sq. ft. approx
- Landscaping is to made of minimum 5 mm thick fiber glass, thermocol , wooden frame etc. to match with the image shown. Area 210 Sq. ft. approx

- Bushes – 50 Nos, without leavesand two Pine trees are to be made with appropriate material using mix media and painting as shown in image to give realistic look and feel of that era.

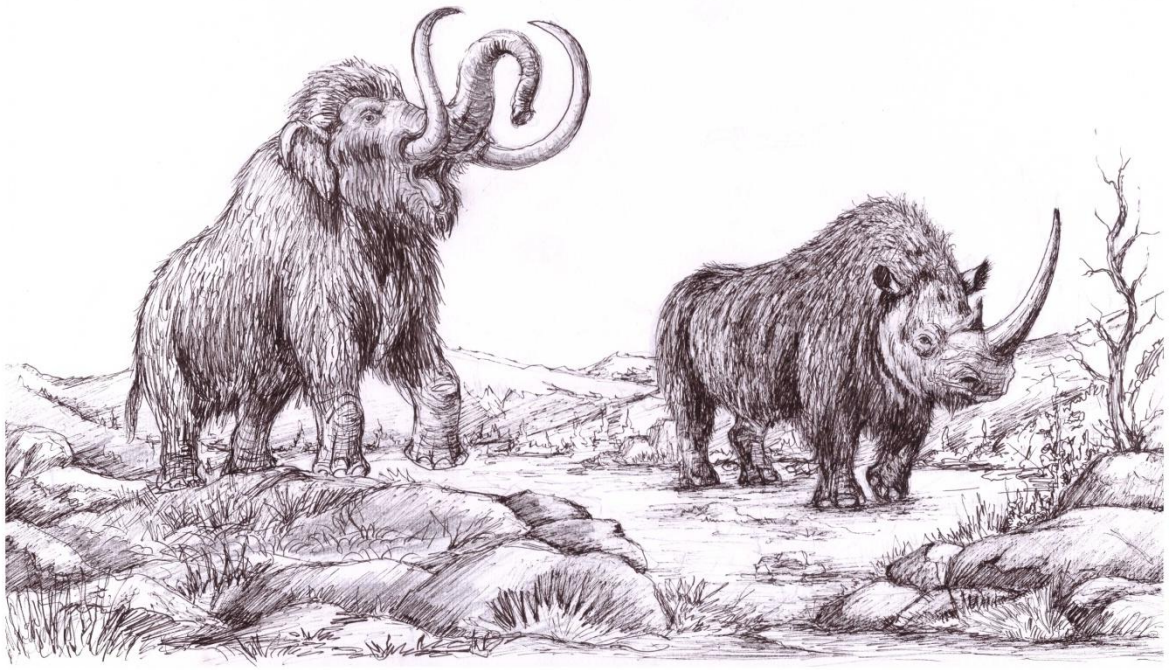


Fig17.1 Diorama 11B

Fig17.2 Diorama 11B Top View

10’

Wooly Rhinoceros(Reference Image)

12’

Wooly Mammoth (Reference Image)

6’

Pine Tree Ice Age

1’

Shrub without Leaves

Diorama 18: Quaternary Period - 3

Works involved in this diorama are:

- Fabrication of fiberglass model of Megalocerosand refurbishing of two Glyptodon models. Inside skeleton structure for reinforcement is to be made of appropriate iron sections to support the fiber jacket and rigidly fixed with screws. Outer skin(fur etc) is to be made as per the look and feel shown in the reference images and drawing.
- Scenography on the wall : Based on the diorama theme, background painting is to be done using Fabiano canvas and artistic acrylic colors. Canvas is to be pasted on background wooden panel made of 2" X 1.5" C/s medium teak wood with 2' X 2' grid size and 6mm BWP ply of Century or Green make with a effective good quality adhesive so that it should not come out from the wooden panel.Area 400 Sq. ft. approx.
- Landscaping is to made of minimum 5 mm thick fiber glass, thermocol , wooden frame etc to match with the image shown. Area 250 Sq. ft. approx.
- Bushes without leavesand two Pine Tree of ice age are to be made with appropriate material using mix media and painting as shown in image to give realistic look and feel of that era.

Fig18.1 Diorama 11C

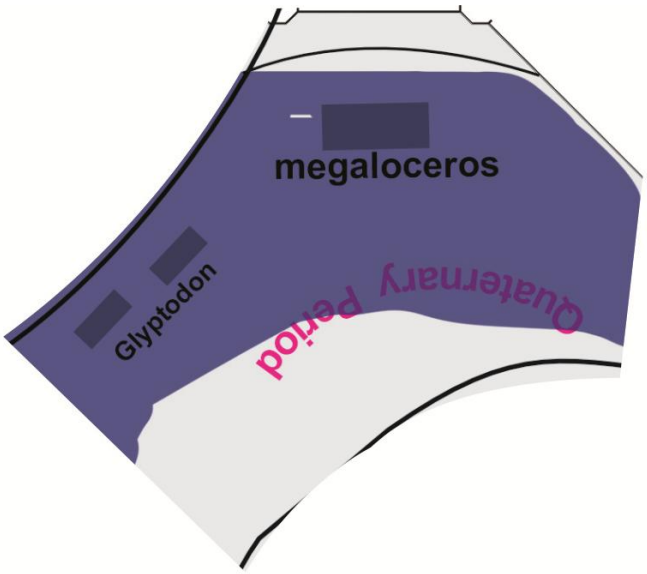


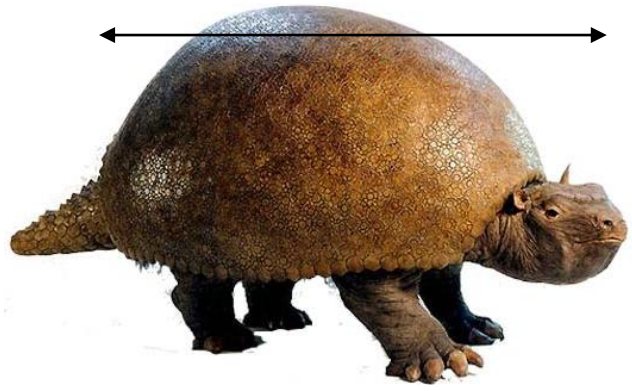
Fig18.1 Diorama 18 Top View

10’

Megaloceros (Reference Image)

1’

6’



Glyptodon (Reference Image) – 2Nos

6’

Pine Tree for Reference

AnnexureE-19

Diorama 19: Quaternary Period –4

Works involved in this diorama are:.

- Fabrication of fiberglass model of - Men, Women ,Childrenand dead animal in cave. Inside models strucure for reinforcement is to be made of appropriate iron sections, wood , plywood etc to support the fiber jackect and rigidly fixed with screws. Outer skin (fur etc) and strucure is to be made as per the look and feel shown in the reference images and drawing.
- Landscaping is to made of minimum 5 mm thick fiber glass, thermocol , wooden frame etcto match with the image shown. Area 50 Sq. ft. approx

Neanderthal Family

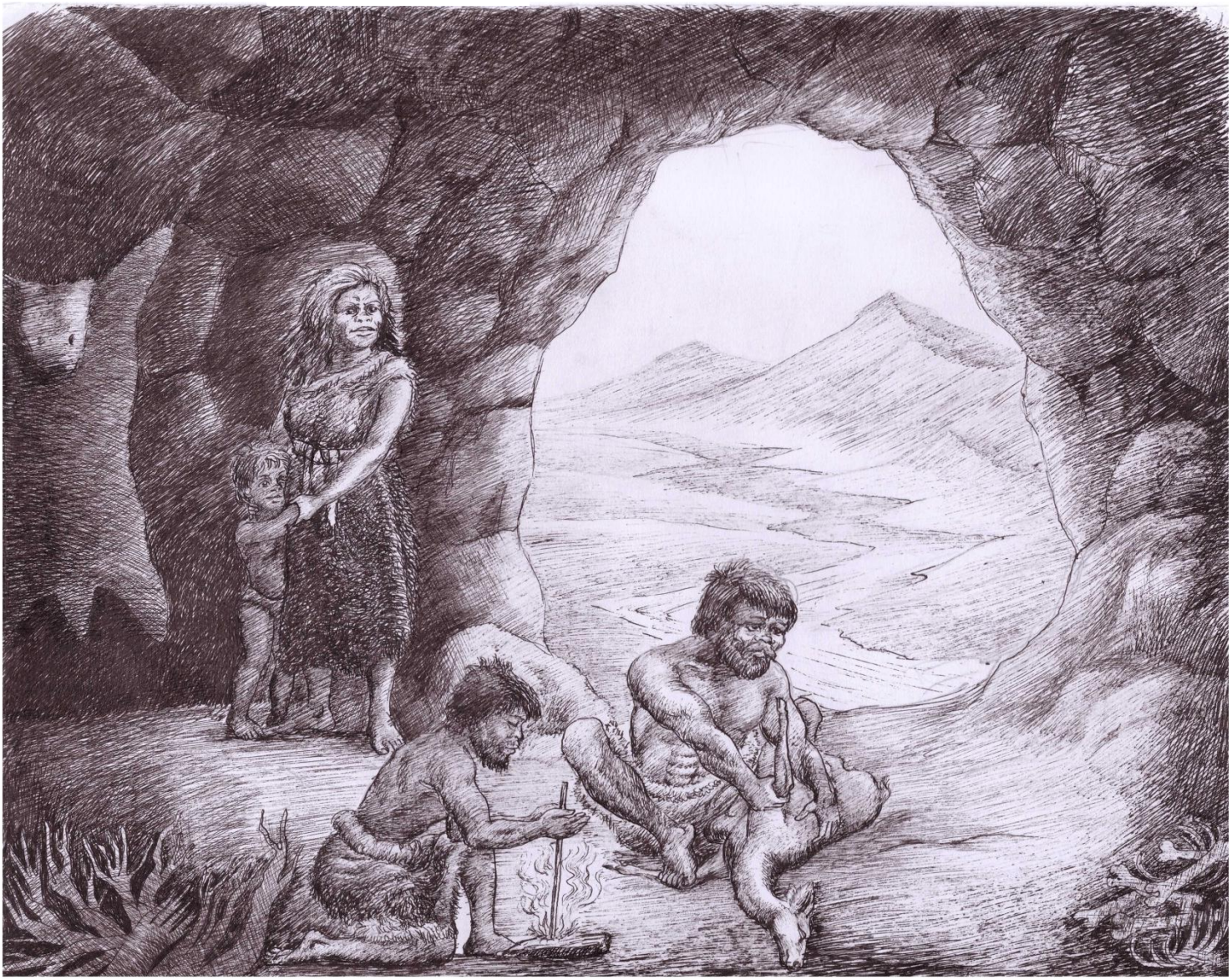


Fig19.1 Diorama 11D

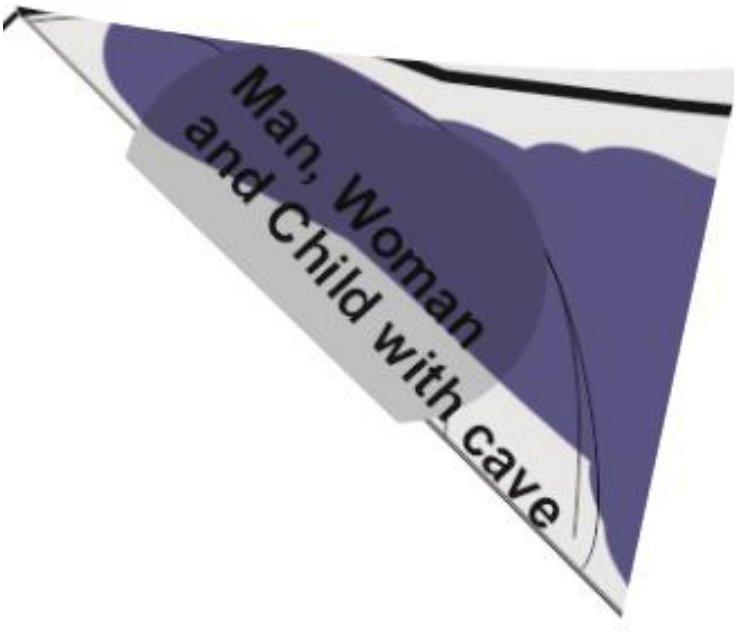


Fig19.1 Diorama 11D Top View

Neanderthal Family in Cave

ANNEXURE-F

BANKDETAILSOFNATIONALSCIENCECENTRE,DELHI

NameoftheAccountHolder	NATIONALSCIENCECENTRE,DELHI
AccountNo.	2417101004100
BankName	CANARABANK
BankAddress	6,BhagwanDasRoad,NewDelhi
IFSCCode	CNRB0002417
MICRCode	110015045
Typeof Account	Saving Account
BranchCode	2417
GSTNumber	07AAAAN2541C1Z5

ANNEXURE-G

TENDER NO. NSCD/18011/E-Tender-15/2025-26

Name of the Work: Renovation of Prehistoric Life Gallery with Fabrication of Dinosaurs and Prehistoric Animal and Plant Models, Sculptures, Diorama and Paintings at National Science Centre, Delhi

FINANCIAL BID FORMAT

Rate NOT to be quoted here. To be quoted in excel sheet at CPP Portal

Tender Inviting Authority: National Science Centre, Delhi.

Contract No: NSCD/18011/E-Tender-15/2025-26

Name of the Bidder/ Bidding Firm/ Company :

PRICE SCHEDULE

(This is a just a format of the actual BOQ template and must not be filled here. The actual BOQ is available in Excel Sheet on CPP portal. Only the relevant columns of the BOQ available at CPP portal should be filled. No other format is acceptable.)

S no.	Scope of Work	Qty.	Basic Rate in Rs.	GST Value %	GST amount	Total amount
1	2	3	4	5	6	7
1	**Renovation of Prehistoric Life gallery with fabrication of dinosaur and prehistoric animal, plant and mannequin models, painting of ceiling, fabrication of wooden railing and supply and fixing of flooring on pathways.**					
1.01	**Gallery Entrance: A thematic Fossil wall cave entrance. Diorama as per details mentioned in Annexure-E-1**	**1 Set**				
1.02	**Volcano Relief Model : Diorama as per details mentioned in Annexure -E-2**	**1 Set**				
1.03	**Digital Cyclorama: Diorama as per details mentioned in Annexure - E-3**	**1 Set**				
1.04	**Diorama with walk over bridge for depicting the life diversity in Permian sea per details mentioned in Annexure - E-4**	**1 Set**				
1.05	**Life on Land: Water to land transition: Diorama as per details mentioned in Annexure -E-5**	**1 Set**				
1.06	**Diorama showing Triassic Period: Models representing small beginning of dinosaurs as per details mentioned in Annexure -E-6**	**1 Set**				
1.07	**The Lower Jurassic period Diorama as per details mentioned in Annexure -E-7**	**1 Set**				
1.08	**The Upper Jurassic period: diorama as per details mentioned in Annexure -E-8**	**1 Set**				
1.09	**The evolution of birds diorama as per details mentioned in Annexure -E-9**	**1 Set**				
1.10	**Selfie Point diorama as per details mentioned in Annexure - E-10**	**1 Set**				
1.11	**The Cretaceous Period diorama as per details mentioned in Annexure - E-11**	**1 Set**				

Continued…

1.12	**Diorama showing diverse and dominant group of bipedal, mostly carnivorous dinosaurs as per details mentioned in Annexure -E-12**	**1 Set**				
1.13	**Diorama showing K-T extinction event. as per details mentioned in Annexure -E-13**	**1 Set**				
1.14	**This diorama depict the Late Cretaceous period as per details mentioned in Annexure -E-14**	**1 Set**				
1.15	**This diorama will depict the Tertiary Period as per details mentioned in Annexure -E-15**	**1 Set**				
1.16	**Ice Age diorama as per details mentioned in Annexure -E-16**	**1 Set**				
1.17	**Diorama depicting herbivorous giants as per details mentioned in Annexure -E-17**	**1 Set**				
1.18	**Diorama showing species of ice age as per details mentioned in Annexure -E-18**	**1 Set**				
1.19	**Diorama showing Neanderthal Family as per details mentioned in Annexure -E-19**	**1 Set**				
1.20	**Painting of ceiling with material as per details given in S. N0. 29 of Scope of work**	**1500.00 Sq. Mtr.**				
1.21	**Fabrication and installation of Wooden railing as per details given in Sl. N0. 30 of Scope of work. Total Length : 600'**	**250.00 Feet**				
1.22	**Supply and fixing of 12mm thick EPDM (Ethylene Propylene Diene Monomer) Flooring on pathways Prehistoric Life Gallery as per details given in Sl. N0. 31 of Scope of work**	**2800.00 Sq. Feet**				
	Total in Figures					
	Quoted Rate in Figures					
	Quoted Rate in Words					
Offline Financial Bid shall not be accepted under any circumstances.						