

Ujjain Smart City Limited



Request for Proposal

for

**“Museum Interiors, Exhibition Design & Displays at Vikram
Kirti Mandir Museum, Ujjain”**

NIT No. USCL/414

TENDER ID: 2026_UAD_479291_1 UJJAIN DATE: 31/01/2026

**Ujjain Smart City Limited
Mela Office, Kothi Road,
Ujjain, Madhya Pradesh – 456010**

Ujjain Smart City Limited

Mela Office, Kothi Road,

Ujjain, Madhya Pradesh – 456010

Phone No. 0734 2525856; E-mail: ujjainsmartcity@mpurban.gov.in

Website: <https://ujjainsmartcity.com/en/about-uscl/>

NIT No. USCL/414 Tender ID: 2026_UAD_479291_1 Ujjain Date: 31/01/2026

Ujjain Smart City Limited (USCL) invites online bids from eligible bidders for “*Museum Interiors, Exhibition Design & Displays at Vikram Kirti Mandir Museum, Ujjain*” as per details given below:

SNo	Particulars	Details
1	Name of Work and Site	Museum Interiors, Exhibition Design & Displays at Vikram Kirti Mandir Museum, Ujjain
2	Cost of Tender Document / Bid submission Fee	Rs 20,000/- plus GST
3	Earnest Money Deposit (EMD) / Bid Security	Rs. 8,35,000/-
4	Probable Amount of Contract (PAC)	Rs 8,35,00,000/- (Excluding GST) (Rupees Eight Crores Thirty Five Lakhs only)
5	Purchase of Tender Date	31/01/2026
6	Pre-bid Meeting	09/02/2026 15:00 Hrs
7	Purchase of Tender End Date	23/02/2026 upto 17:00 hrs
8	Financial and Technical Bid Submission End Date (Online)	23/02/2026 upto 17:00 hrs
9	Technical Bid Submission End Date (Physical Only)	Not Applicable
10	Technical Bid opening	24/02/2026 on/after 11:00 hrs
11	Financial Bid opening	To be notified
12	Completion Period	09 Months (Including intervening rainy seasons)
13	Validity period of Bids	120 Days after the Last date of Submission
14	Mode of selection of Contractor	Open Tender by e-tendering mode. Lowest Quoting Bidder (L1 bidder) to be selected.
<p><i>Note: In case of any mismatch in key dates, key dates showing on e-portal shall be final. For more details, please refer to e-procurement website: www.mptenders.gov.in. Corrigendum or amendments, if any, shall be uploaded on this website only.</i></p>		

UJJAIN SMART CITY LIMITED (USCL)

MADHYA PRADESH

APPENDIX 2.10

TENDER DOCUMENT

Office of the : **Ujjain Smart City Limited**

NIT Number and Date : USCL/414

Date of NIT : 31/01/2026

Agreement Number and Date :

Name of Work : **Museum Interiors, Exhibition Design & Displays at
Vikram Kirti Mandir Museum, Ujjain**

Name of the Contractor :

Probable Amount of Contract : **Rs 8,35,00,000.00** (excluding applicable GST)
In words : (Rupees Eight Crores Thirty Five Lakhs only)

Contract Amount :
In Fig :
In words :

Stipulated Period of Completion : *09 (Nine) Months including intervening rainy season*

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SECTION 1
Notice Inviting e-Tenders
Ujjain Smart City Limited

Online Lumpsum Item rate bids for the following works are invited from registered contractors and firms of repute fulfilling registration criteria:

S. No.	Name of Work	Probable Amount of Contract (In Rupees)	Earnest Money Deposit (EMD) (In Rupees)	Cost of Bid Document (In Rupees)	Period of completion (In Months)
1	Museum Interiors, Exhibition Design & Displays at Vikram Kirti Mandir Museum, Ujjain	Rs. 8,35,00,000/-	Rs. 8,35,000/-	Rs. 20,000/-	09 Months (Including intervening rainy season)

1. All details relating to the Bid Document(s) can be viewed and downloaded free of cost on the website.
2. Bid Document can be purchased after making online payment of portal fees through Credit/Debit/Cash Card/ internet banking. / NEFT/RTGS/ System generated Challan
3. At the time of submission of the bid the eligible bidder shall be required to:
 - a. **Pay the cost of bid document.**
 - b. **Deposit the Earnest Money**
 - c. **Submit a check list and**
 - d. **Submit an affidavit.****Details can be seen in the Bid Data Sheet. The above details are to be submitted online only.**
4. **Eligibility for Bidders:**
 - a. At the time of submission of the Bid the bidder should have valid registration with the Government of Madhya Pradesh, PWD in appropriate class. However, such bidders who are not registered with the Government of Madhya Pradesh and are eligible for registration can also submit their bids after having applied for registration with appropriate authority.
 - b. The bidder / ~~One of the members of Joint Venture~~ / Sub-contractor should have valid A Class Electrical Contractor License from Madhya Pradesh Government Electrical Licensing Board (Office of Chief Electrical Inspector, MP Govt.) at the time of signing of the Contract.
 - c. The bidder would be required to have valid registration with MPPWD in appropriate class at the time of signing of the Contract.
 - d. Failure to sign the contract by the selected bidder, for whatsoever reason, shall result in forfeiture of the earnest money deposit.
5. The Bid Document can be purchased only online as per brief NIT Other key dates may be seen in bid data sheet.
6. Amendments to NIT, if any, would be published on website only, and not in newspaper.

Executive Director
Ujjain Smart City Limited

Notice Inviting e- Tenders Ujjain Smart City Limited

Office of the Executive Director, Ujjain Smart City Limited

N.I.T.NO. USCL/412

Dated. 30/01/2026

Online Lumpsum Item rate bids for the following works are invited from registered contractors and firms of repute fulfilling registration criteria:

S. No.	Name of Work	Probable Amount of Contract (In Rupees)	Earnest Money Deposit (EMD) (In Rupees)	Cost of Bid Document (In Rupees)	Period of completion (In Months)
1	Museum Interiors, Exhibition Design & Displays at Vikram Kirti Mandir Museum, Ujjain	Rs. 8,35,00,000.00	Rs. 8,35,000/-	Rs. 20,000/-	09 Months (Including intervening rainy season)

1. Document & other details shall be available on website <https://mptenders.gov.in>
2. The Bid Document can be purchased only online as per the schedule given in Brief NIT.
3. **Pre-Bid Meeting** is scheduled on **3:00 PM** as per the schedule given in Brief NIT **at USCL office Mela Karyalaya Ujjain.**
4. Amendments to NIT, if any, would be published on website only, and not in Newspaper.
5. The EMD shall be deposited online through portal via Electronic EMD (RTGS, NEFT).
6. Key Dates:

S.No.	Particulars	Details
1	Purchase of Tender End Date (Online)	as per the schedule given in Brief NIT
2	Pre- Bid Meeting	as per the schedule given in Brief NIT
3	Financial and Technical Bid Submission End Date (Online)	as per the schedule given in Brief NIT
4	Technical Bid opening (Online)	as per the schedule given in Brief NIT

Note: In case of any mismatch in key dates, key dates showing on e-portal shall be final. For more details, please refer to e-procurement website: www.mptenders.gov.in. Corrigendum or amendments, if any, shall be uploaded on this website only.

**Executive Director
Ujjain Smart City Limited**

SECTION 2 INSTRUCTIONS TO BIDDERS (ITB)

A. GENERAL

PROJECT OBJECTIVE AND KEY COMPONENTS

1. SCOPE OF BID

- 1.1. The detailed description of work, hereinafter 'work', is given in the **Annexure E** of this document. The main Scope of work includes **Museum Interiors, Exhibition Design & Displays at Vikram Kirti Mandir Museum, Ujjain.**

2. GENERAL QUALITY OF WORK:

- 2.1. The work shall have to be executed in accordance with the drawings (prepared by USCL/ Consultant and approved by the competent authority), technical specifications specified in the Bid Data Sheet/Contract Data, and shall have to meet high standards of workmanship, safety and security of workmen and works.

3. PROCEDURE FOR PARTICIPATION IN E-TENDERING

The procedure for participation in e-tendering is given in the Bid Data Sheet. as well as in Annexure F.

4. ONE BID PER BIDDER

- 4.1. The bidder can be an individual entity or a joint venture (if permitted as per Bid Data Sheet). In case the J.V. is permitted, the requirement of joint venture shall be as per the Bid Data Sheet.
- 4.2. No bidder shall be entitled to submit more than one bid whether jointly or severally. If he does so, all bids wherein the bidder has participated shall stand disqualified

5. COST OF BIDDING:

The bidder shall bear all costs associated with the preparation and submission of his bid, and no claim whatsoever for the same shall lie on the Government/ UMC/ USCL or the Authority

6. SITE VISIT AND EXAMINATION OF WORKS:

The bidder is advised to visit and inspect the site of Works and its surroundings and obtain for itself on its own responsibility all information that may be necessary for preparing the bid and entering into a contract for construction of the work. All costs in this respect shall have to be borne by the bidder.

B. BID DOCUMENTS

7. CONTENT OF BID DOCUMENTS:

The Bid Document comprises of the following documents:

1. NIT with all amendments.
2. Instructions to Bidders, Bid Data Sheet with all Annexure
3. Conditions of Contract:
 - I. Part I General Conditions of contract and the Contract Data with all Annexure, and
 - II. Part II Special Condition of Contract.
4. Specifications

5. Drawings / Suggestive Graft is given in Annexure E
6. Priced bill of quantities
7. Technical and Financial bid
8. Letter of Acceptance
9. Agreement, and
10. Any other document(s), as specified

8. EXAMINE

The bidder is expected to examine carefully all instructions, conditions of contract, the Contract data, forms, terms and specifications, bill of quantities, forms and drawings in the bid document, Bidder shall be solely responsible for his failure to do so.

9. PRE-BID MEETING (WHERE APPLICABLE)

Wherever the Bid Data Sheet provides for pre-bid meeting:

- 9.1. Details of venue, date and time would be mentioned in the Bid Data Sheet. Any change in the schedule of pre-bid-meeting would be communicated on the website only, and intimation to bidders would not be given separately.
- 9.2. Any prospective bidder may raise his queries and/or seek clarifications in writing before or during the pre-bid meeting. The purpose of such meeting is to clarify issues and answer questions on any matter that may be raised at that stage. The Employer may, at his option, give such clarifications as are felt necessary.
- 9.3. Minutes of the pre-bid meeting including the gist of the questions raised and the responses given together with any response prepared after the meeting will be hosted on the website.
- 9.4. Pursuant to the pre-bid meeting, if the employer deems it necessary to amend the bid Documents, it shall be done by issuing amendment to the online NIT.

10. AMENDMENT OF BID DOCUMENTS:

- 10.1. Before the deadline for submission of bids, the Employer may amend or modify the bid document by publication of the same on the website.
- 10.2. All amendments shall form part of the Bid Document.
- 10.3. The Employer may, at its discretion, extend the last date for submission of bids by publication of the same on the website.

C. PREPARATION OF BID

11. BID PREPARATION

The bidders have to prepare their bids online, encrypt their Bid Data in the Bid Forms and submit Bid Seals (Hashes) of all the envelopes and documents related to the bid required to be uploaded as per the time schedule mentioned in the key dates of the Notice Inviting e-tenders after signing of the same by the Digital Signature of their authorized representative as per guideline given on portal.

12. DOCUMENTS COMPRISING THE BID:

The bid submitted online by the bidder shall be in the following parts:

Part 1- This shall be known as online Envelop A and would apply for all bids. Online envelop A shall contain the following as per details given in the bid data sheet:

- i) Registration number or proof of application for registration and organizational details in the format given in the bid data sheet.
- ii) Payment of the cost of Bid Document.
- iii) PAN Number

- iv) GST Number
- v) Earnest Money: and
- vi) Duly notarised Affidavit On Non Judicial stamp of Rs. 100 as per Annexure -B.

The above details are to be submitted online only.

Part 2 – This shall be known as Online **Envelope B** and required to be submitted only in work where pre-qualification conditions and / or special eligibility conditions are stipulated in the Bid Data Sheet. Online Envelope B shall contain a self-certified sheet duly supported by documents to demonstrate fulfilment of pre-qualification conditions.

Part 3- This shall be known as online **Envelope C** and would apply to all bids. Envelop C shall contain financial offer in the prescribed format enclosed with the Bid Data Sheet and shall only be submitted online.

13. LANGUAGE:

The bid as well as all correspondence and documents relating to the bid exchanged by the Bidder and the Employer shall be in English or Hindi. Supporting documents and printed literature that are part of the Bid may be in another language provided they are accompanied by an accurate translation of the relevant passages in English. In such case, for the purposes of interpretation of the bid, such translation shall govern.

14. TECHNICAL PROPOSAL:

- 14.1. Only, in case of bids with pre-qualification conditions defined in the Bid Data Sheet, the Technical Proposal shall comprise of formats and requirements given in the Bid Data Sheet.
- 14.2. All the documents/ information enclosed with the Technical Proposal should be self-attested and certified by the bidder. The Bidder shall be liable for forfeiture of his earnest money deposit, if any document/information is found false/fake/untrue before acceptance of bid. If it is found after acceptance of the bid, the bid sanctioning authority may at his discretion forfeit his performance security / guarantee, security deposit, enlistment deposit and take any other suitable action.

15. FINANCIAL BID:

- 15.1. The bidder shall have to quote rates in format referred in Bid Data Sheet, in overall percentage, and not item wise, if the bid is in absolute amount, overall percentage would be arrived at in relation to the probable amount of contract given in NIT. The overall percentage rate would apply for all items of work.
- 15.2. Percentage shall be quoted in figures as well as in words. If any difference in figures and words is found, lower of the two shall be taken as valid and correct.
- 15.3. The bidder shall have to quote rates inclusive of all duties, taxes, royalties and other levies except Goods & Services Tax (GST). The amount of applicable GST will be paid separately to the contractor with each bill at the time of payment; and the Employer shall not be liable for any duties, taxes (Except GST) royalties and levies.
- 15.4. The material along with the units and rates, which shall be issued, if any, by the department to the contractor, is mentioned in the Bid Data Sheet.

16. PERIOD OF VALIDITY OF BIDS:

The bids shall remain valid for a period specified in the Bid Data Sheet after the date of “close for bidding” as prescribed by the Employer. The validity of the bid can be extended by mutual consent in writing.

17. EARNEST MONEY DEPOSIT (EMD)

- 17.1. The Bidder shall furnish, as part of the Bid, Earnest Money Deposit (EMD), in the amount specified in the Bid Data Sheet.

- 17.2. EMD/ Bid Security shall be submitted only online using options available in the tender portal within the specified time limit. Bidders are advised to process it well in advance. No claim shall be entertained due to delay in online transactions via payment gateway/banking portal."
- 17.3. Bid not accompanied by EMD shall be liable for rejection as non-responsive.
- 17.4. EMD of all bidders except L1 will be returned within ten working days of the decision on the bid.
- 17.5. EMD of the successful Bidder will be discharged when the Bidder has signed the Agreement after furnishing the required Performance security.
- 17.6. Failure to sign the contract by the selected bidder, within the specified period, for whatsoever reason, shall result in forfeiture of the earnest money.

D. SUBMISSION OF BID

18. BID SUBMISSION

The Bidder is required to submit digitally signed Bid ie. Envelop A, B & C Online only. No physical submission of the Bid will be accepted except in exceptional case under clause 19.7."

E. OPENING AND EVALUATION OF BID

19. PROCEDURE:

- 19.1. Envelope "A" shall be opened first online at the time and date notified and its contents shall be checked. In cases where Envelope "A" does not contain all requisite documents, such bid shall be treated as non-responsive, and Envelope B and / or C of such bid shall not be opened.
- 19.2. Wherever Envelope 'B' (Technical Bid) is required to be submitted, the same shall be opened online at the time and date notified. The bidder shall have freedom to witness opening of the Envelope 'B' Envelope 'C' (financial bid) of bidders who are not qualified in Technical Bid (Envelop 'B') shall not be opened.
- 19.3. Envelope 'C' (Financial Bid) shall be opened online at the time and date notified. The bidder shall have freedom to witness opening of the Envelope 'C'
- 19.4. After opening Envelope 'C' all responsive bids shall be compared to determine the lowest evaluated bid.
- 19.5. The Employer reserves the right to accept or reject any bid, and to annul the bidding process and reject all the bids at any time prior to contract award, without incurring any liability. In all such cases reasons shall be recorded.
- 19.6. The employer reserves the right of accepting the bid for the whole work or for a distinct part of it.
- 19.7. "In exceptional case, if physical submission of certain documents is found essential, then expressed prior permission must be obtained in writing by the tender issuing authority from an authority, as authorized by the State Government. In such a case, such documents are required are to be submitted physically at the place and date specified in the Bid Data Sheet. In case of any mismatch in the documents submitted in the physical form and that uploaded or ie online, or if the contractor fails to submit the document physically, the bid shall be liable for rejection as non- responsive.

20. CONFIDENTIALITY:

- 20.1. Information relating to examination, evaluation, comparison and recommendation of contract award shall not be disclosed to bidders or any other person not officially concerned with such process until final decision on the bid.
- 20.2. Any Attempt by a bidder to influence the employer in the evaluation of the bids or contract award decisions may result in the rejection of his bid.

F. AWARD OF CONTRACT

21. AWARD OF CONTRACT:

The Employer shall notify the successful bidder by issuing a 'Letter of Acceptance' (LOA) that his bid has been accepted. The original copy of Affidavit will have to be submitted by the successful bidder at the time of signing of contract.

22. PERFORMANCE SECURITY

- 22.1. Prior to signing of the contract, the bidder to whom LOA has been issued shall have to furnish performance security of the amount in the form and for the duration, etc. as specified in the Bid Data Sheet.
- 22.2. Additional performance security, if applicable, is mentioned in the Bid data sheet and shall be in the form and for the duration, etc. similar to Performance Security.

23. SIGNING OF CONTRACT AGREEMENT:

- 23.1. The successful bidder shall have to furnish Performance Security and Additional Performance Security, if any, and sign the contract agreement within 15 days of issue of LOA
- 23.2. The signing of contract agreement shall be reckoned as intimation to commencement of work. No separate work order shall be issued by the employer to the contractor for commencement of work.
- 23.3. In the event of failure of the successful bidder to submit Performance Security and Additional Performance Security, if any or sign the Contract Agreement, his EMD shall stand forfeited without prejudice to the right of the employer for taking any other action against the bidder.

24. CORRUPT PRACTICES:

The Employer requires that bidders observe the highest standard of ethics during the procurement and execution of contracts. In pursuance of this policy, the employer.

- i. May reject the bid for award if it determines that the bidder recommended for award has, directly or through an agent, engaged in corrupt, fraudulent, collusive, or coercive practices in competing for the Contract; and
- ii. May debar the bidder declaring ineligible, either indefinitely or for a stated period of time, to participate in bids, if it at any time determines that the bidder has, directly or through an agent, engaged in corrupt, fraudulent, collusive, or coercive practices in competing for, or in executing, a contract.

For the purposes of this provision, the terms set forth above are defined as follows:

- a. **'Corrupt Practice'** means the offering, giving, receiving or soliciting directly or indirectly, anything of value to influence improperly the actions of another party.
- b. **'Fraudulent Practice'** means any act or omission, including a misrepresentation, that knowingly or recklessly misleads, or attempts to mislead, a party to obtain a fanatical or other benefit or to avoid an obligation:
- c. **'Coercive Practice'** means impairing or harming, or threatening to impair or harm, directly or indirectly, any party or the property of the party to influence improperly the actions of a party,
- d. **'Collusive practice'** means an arrangement between two or more parties designed to achieve an improper purpose, including influencing improperly the actions of another party.

(END OF ITB)

BID DATA SHEET

GENERAL		
SR.NO.	PARTICULARS	DATA
1	Office inviting tender	UJJAIN SMART CITY LIMITED
2	NIT No.	N.I.T.NO. USCL / 414
3	Date of NIT	31/01/2026
4	Bid document download available from date & time	31 /01/2026
5	Website link	https://mptenders.gov.in
SECTION 1 - NIT		
CLAUSE REFERENCE	PARTICULARS	DATA
2	Portal fees	As notified in e-tendering website
3	Cost of bid document	Rs 20,000/- + portal processing fees etc.
	Cost of bid document payable at	As notified in e-tendering website
	Cost of bid document in favour of	As notified in e-tendering website (Bidders shall be directed to the payment gateway through the portal)
4	Affidavit format	As per ANNEXURE B
5	Pre-Qualifications required	Yes -
	If yes, details	As per ANNEXURE C
6	Special Eligibility	Yes
	If Yes, details	As per ANNEXURE D
7	Key dates	As per ANNEXURE A
SECTION 2 - IT B		
CLAUSE REFERENCE	PARTICULARS	DATA
1.	Name of 'work'	Museum Interiors, Exhibition Design & Displays at Vikram Kirti Mandir Museum, Ujjain
2.	Specifications	As per ANNEXURE -E
3.	Procedure for participation in e-tendering	As per ANNEXURE -F
4.	Whether joint venture is allowed	No
	If yes, requirement for joint venture	As per ANNEXURE - G
	Pre bid meeting to be held	Yes
	If Yes, Date, Time & Place	As per NIT Place: Mela Office, Kothi Road, Ujjain, Madhya Pradesh - 456010

CLAUSE REFERENCE	PARTICULARS	DATA
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12	Envelop A containing: i. Registration number or proof of application for registration and organizational details as per Annexure H ii. Cost of Bid Document iii. EMD iv. An affidavit duly notarized as per Annexure – B	Online submission Only
	Envelope-B Technical Proposal	ANNEXURE – I and ANNEXURE –I (Format I-1 to I-5)
	Envelope-C Financial Bid	Annexure – J (SHOULD BE SUBMITTED ONLINE)
	Materials to be issued by the department	ANNEXURE – K
	Period of Validity of Bid	120 Days
17	Earnest Money Deposit	Rs.8,35,000/-
	Forms of Earnest Money deposit	e-EMD (RTGS / NEFT)
	EMD valid for a period of	120 Days beyond the final validity period of bids from the last date of submission of bids.
19	Opening and evaluation of bid: Procedure	Refer Annexure -00 at the end of Bid Data Sheet
21	Letter of Acceptance (LoA)	ANNEXURE L
22	Amount of Performance Security	Performance Security at the rate of three (3) percent of the contract value shall be required In case of any discrepancy in provisions on performance security, the latest guidelines issued by Finance Department/PWD/UADD of Govt. MP shall be applicable.
	Additional Performance Security, if any	In case the quote of the Successful Bidder is more than 10% below the PAC amount, then additional performance security shall be required to be submitted by the successful bidder. the latest circular issued by PWD of MP Govt. shall be applicable. (MPPWD Order No. F-53/02/2011/YO/19/525, DATED- 14/02/2025) (as attached) The Additional Performance Security shall not be treated as part of Performance Security and shall be released on completion of project. In case of any discrepancy in provisions on performance security or additional performance security, the latest guidelines issued by Finance Department/PWD/UADD of Govt. MP shall be applicable.

	<p style="text-align: center;">मध्यप्रदेश शासन लोक निर्माण विभाग मंत्रालय</p> <p>कमांक-एफ-53/02/2011/यो/19 भोपाल, दिनांक //आदेश//</p> <p>मध्यप्रदेश शासन, लोक निर्माण विभाग द्वारा जारी आदेश कमांक-एफ-53/02/2011/यो/19/2022 भोपाल, दिनांक 10 अगस्त 2022 में अतिरिक्त परफॉर्मेंस गारंटी की राशि की गणना के लिए उल्लेखित गणितीय विधा के बिन्दु कमांक 3(अ) एवं 3(ब) में निम्नानुसार संशोधन उपरान्त प्रतिस्थापित किया जाता है:-</p> <p>3.1 निविदा में 10 प्रतिशत कम दर प्राप्त होने पर कोई अतिरिक्त परफॉर्मेंस गारंटी की राशि नहीं लिया जाना है।</p> <p>3.2 निविदा में 10 से 20 प्रतिशत तक कम दर आने पर निविदा दर 10 प्रतिशत से बढ़कर जितने प्रतिशत कम होगी PAC राशि का उतना प्रतिशत अतिरिक्त परफॉर्मेंस गारंटी की राशि निम्नानुसार होगी:-</p> <p>उदाहरण- यदि निविदा की अनुमानित लागत (PAC) Rs. 100.00 लाख है, तथा सफलतम निविदाकार की दर 14 प्रतिशत Below SOR हो तो अतिरिक्त परफॉर्मेंस गारंटी की गणना निम्नानुसार होगी:-</p> <p>एफ.डी.आर. के रूप में प्रस्तुत की जाने वाली अतिरिक्त परफॉर्मेंस गारंटी की राशि:-</p> <p>Probable Amount of Contract (PAC) X Rates Below SOR Beyond 10%=100 (14%-10%)= Rs. 4.00 लाख</p> <p>3.3 निविदा में 20 प्रतिशत से अधिक कम दर (RATES BELOW SOR BEYOND 20%) आने पर निविदा दर आने पर गणना निम्नानुसार होगी:-</p> <p>उदाहरण- यदि निविदा की अनुमानित लागत (PAC) Rs. 100.00 लाख है तथा, सफलतम निविदाकार की दर 24 प्रतिशत Below SOR हो तो अतिरिक्त परफॉर्मेंस गारंटी की गणना निम्नानुसार होगी:-</p> <p>एफ.डी.आर. के रूप में प्रस्तुत की जाने वाली अतिरिक्त परफॉर्मेंस गारंटी की राशि:- A+B</p> <p>A. Probable Amount of Contract X1 x Rates Below SOR Beyond 10% upto 20%) = 100x1x (10%) = Rs. 10.00 लाख</p> <p>B. Probable Amount of Contract X Rates Below SOR Beyond 20% = 100x2x (4%) = Rs. 8.00 लाख</p> <p>अर्थात् कुल अतिरिक्त परफॉर्मेंस गारंटी की राशि- (A+B)= Rs. 18.00 लाख</p> <p style="text-align: right;">परिचय -Latter-2025-1</p> <p style="text-align: center;">/2/</p> <p>3.4 ऐसे अनुबंध में जिनमें 10 प्रतिशत कम दर की सीमा से अधिक कम दरों पर अनुबंध निष्पादित किये जाने उन अनुबंधित कार्यों के पूर्ण होने के उपरान्त उनके अंतिम देयकों का भुगतान संबंधित अधीक्षण यंत्री के निरीक्षण उपरान्त संतोषजनक पाये जाने पर तदनुसार अधीक्षण यंत्री द्वारा अनुमति प्रदान किये जाने के पश्चात् ही किए जावे।</p> <p>3.5 उपरोक्त के अतिरिक्त कार्य स्थल पर स्थापित बैच मिक्स प्लांट, रेडीमिक्स कांकीट (RMC) प्लांट का अधीक्षण यंत्री के द्वारा निरीक्षण किये जाने के उपरान्त ही कार्य प्रारंभ किया जावे।</p> <p>3.6 राशि रुपये 2.00 से 10.00 करोड़ तक के कार्यों के लिये स्थल पर स्थापित लेबोरेट्री का निरीक्षण अधीक्षण यंत्री के द्वारा तथा राशि रुपये 10.00 करोड़ से अधिक के कार्यों के लिये स्थापित लेबोरेट्री का निरीक्षण मुख्य अभियंता द्वारा किये जाने के उपरान्त ही कार्य प्रारंभ किया जावे।</p> <p>अतिरिक्त परफॉर्मेंस गारंटी की एफ.डी.आर. कार्यपूर्णता के उपरान्त ही विमुक्त की जा सकेगी।</p> <p style="text-align: right;">(ए. आर. सिंह) उप सचिव</p> <p>पृ. कमांक-एफ-53/02/2011/यो/19/525 प्रतिलिपि:-</p> <p>म0प्र0 शासन, लोक निर्माण विभाग भोपाल, दिनांक 14/02/2025</p> <ol style="list-style-type: none"> प्रमुख अभियंता, (सड़क/पुल) लोक निर्माण विभाग भोपाल। प्रबंध संचालक, म.प्र. सड़क विकास निगम भोपाल। प्रमुख अभियंता (भवन) लोक निर्माण विभाग भोपाल। प्रबंध संचालक, म.प्र. भवन विकास निगम भोपाल। विशेष सहायक, माननीय मंत्री जी लोक निर्माण विभाग भोपाल। समस्त मुख्य अभियंता, (सड़क/पुल) लोक निर्माण विभाग। समस्त मुख्य अभियंता, (भवन) लोक निर्माण विभाग। समस्त अधीक्षण यंत्री, लोक निर्माण विभाग मध्य प्रदेश। समस्त कार्यपालन यंत्री लोक निर्माण विभाग मध्य प्रदेश। कार्यपालन यंत्री, (भवन) लोक निर्माण विभाग मध्य प्रदेश। <p>की ओर सूचनार्थ एवं आवश्यक कार्यवाही हेतु प्रेषित।</p> <p style="text-align: right;">(ए. आर. सिंह) उप सचिव</p> <p>म0प्र0 शासन, लोक निर्माण विभाग</p>
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Performance security in the format	ANNEXURE M
Performance security in favour of	Executive Director, USCL
Performance security valid up to	Valid till issue of Physical Completion Certificate plus Defect Liability Period plus, three months
Additional Performance security valid up to	Valid till issue of Physical Completion Certificate plus, three months

Annexure – 00

EVALUATION FRAMEWORK

Stage 1: Technical Eligibility Check (Pass / Fail)

Evaluation of:

- Legal eligibility
- Minimum experience
- Technical capacity including conservation capability
- Financial capacity

Only technically responsive bidders shall proceed further for quality-based assessment.

Stage 2: Technical Evaluation (Quality Based)

Total Technical Score: 100 Marks; Minimum qualifying score: 70 Marks

SN	Criteria	Marks
1	Relevant Project Experience	25
	- One eligible project \geq 50% of PAC	12
	- Two eligible projects \geq 30% of PAC	
	- Three eligible projects \geq 20% of PAC	
	- Each additional similar project (4 each, in proportion)	8
	- Government / Heritage / Museum project	5
2	Conservation Approach & Capability	20
	- Understanding of conservation ethics & methodology	8
	- Experience with artefacts & manuscripts	6
	- Preventive conservation & documentation approach	6
3	Design & Interpretation Approach	25
	- Understanding of Vikram Kirti Mandir themes	10
	- Gallery-wise storytelling & visitor journey	10
	- Accessibility & inclusivity	5
4	Team Strength & Methodology	15
	- Project Manager & key experts	6
	- Project execution methodology & phasing	5
	- Quality assurance & risk management	4
5	Digital, AV & Innovation Capability	10
	- Interactive & immersive solutions	5

	- Scalability, CMS & maintainability	5
6	Project Management & Handover Readiness	5
	- Schedule control & coordination	3
	- Training, documentation & DLP support	2

Stage 3: Financial Evaluation

- Financial bids of bidders scoring ≥ 70 **technical marks** shall be opened.
- **Quality cum Least Cost method** to be adopted viz. **L1 Bidder**

Annexure – A
(See clause 1, 7 of Section 1-NIT)

KEY DATES

Please Refer Brief NIT

Annexure – B
(See clause 3 of Section 1-NIT)

|| AFFIDAVIT ||
(To be contained in Envelope A)
(On Non Judicial stamp of Rs. 100)¹

I/We _____ who is / are _____ (status in the firm / company) and competent for submission of the affidavit on behalf of M/S _____ (contractor) do solemnly affirm an oath and state that :

I/We am / are fully satisfied for the correctness of the certificates/ records submitted in support of the following information in bid documents which are being submitted in response to notice inviting tender No. _____ for _____ (name of work) dated _____ issued by the _____ (name of the Department).

I/We am/ are fully responsible for the correctness of following self- certified information / digitally signed documents and certificates.

1. That the self – certified information given in the bid document is fully true and authentic.
2. That :
 - ~~1. Term deposit receipt deposited as earnest money, demand draft for cost of bid document and other relevant documents provided by the Bank are authentic.²~~
 1. Information regarding financial qualification and annual turnover submitted online is correct.
 2. Information regarding various technical qualifications submitted online is correct.
3. No. close relative of the undersigned and our firm/company is working in the department.

Or

Following close relatives are working in the department:

Name _____ - Post _____ present Posting _____

Signature with seal of the Deponent (bidder)

I/We, _____ above deponent do hereby certify that the facts mentioned in above paras 1 to 4 are correct to the best of my knowledge and belief. . In the event of any information is to be found to be incorrect / untrue or found violated, then without giving any prior notice, our bid shall be liable for rejection or termination of contract, with prejudice to any other rights of Remedy including the forfeiture of the bid security / Performance security.

Verified today _____ (dated) at _____ (place).

Signature with seal of the Deponent (bidder)

The original copy of **Affidavit** will have to be submitted by the successful **bidder** at the time of **signing** of contract

¹ Deleted Order issued by Chief Engineer MP PWD vide order No क्रमांक401/सा/विदिघ/002/2014 /2012भोपाल,दिनांक 08-01-2015

² Deleted as EMD is paid online.

Annexure—C

(Sec clause 5 of Section 1-NIT)

PRE- QUALIFICATIONS CRITERIA

The bidder should have:

A. Financial & Physical

i. Experience of having successfully executed as prime contractor:

- a) three similar works each costing not less than the amount equal to 20% of the probable amount of contract during the last 5 years; or
- b) two similar works each costing not less than the amount equal to 30% of the probable amount of contract during the last 5 Years; or
- c) one similar work of aggregate cost not less than the amount equal to 50% of the probable amount of contract during the last 5 years.

(For Joint Ventures) – Not Applicable

For the meeting the minimum qualification criteria of experience of similar nature work,

- (i) Out of 3 similar works of value more than 20% of PAC, at least 2 works must be done by lead partner and one work to be done by other partner.

Or

- (ii) Out of 2 similar works of value more than 30% of PAC, at least 1(one) work must be done by lead partner and 1 (one) work to be done by other partner.

Or

- (iii) In case of one similar work of value more than 50% of PAC the lead partner must satisfy the criteria. However the other partner must satisfy the criteria of least one work of 20% of PAC.

- ii. **Average Annual Turnover** on the similar works/services **shall not be less than 50%** of the probable amount of contract during **the last 3 financial years ending on 31.03.2025.**
- iii. ~~Executed similar items of work in any one financial year during the last 3 financial years, which should not be less than the minimum, physical requirement, if any, fixed for the work.~~
- iv. **Bid Capacity** — Bidder shall be allotted work up to his available Bid Capacity, which shall be worked out as given in **Format 1-2 of Annexure I. Bid Capacity shall be equal to or higher than the bid amount.**

Note:

- 1. **The similar work shall mean**

Museum Interiors / Interpretation Centre / Exhibition / Experience Centre project with design + exhibition fit-out + installation.

Projects may be executed for:

- *Government / PSU / Autonomous Bodies / Universities / Museum Trusts*
- *Private museums, cultural institutions, or experience centres*

Projects may include:

- *History / archaeology museums*
- *Science or thematic museums*
- *Heritage interpretation centres*
- *Digital / immersive experience centres*

Annexure —D
(See clause 6 of Section 1-NIT)

SPECIAL ELIGIBILITY CRITERIA

The Bidder shall demonstrate proven capability in conservation, either in-house or through formal association or through a nominated conservation sub-contractor:

- At least one (1) completed project involving conservation treatment of artefacts and/or manuscripts (stone / metal / organic / manuscripts / archives)

The conservation experience may be part of a museum project or a standalone conservation assignment.

Annexure —E
(See clause 2 of Section 2 —ITB & clause 10 of GCC)

SCOPE OF WORKS & SPECIFICATIONS

Museum Interiors, Exhibition Design & Displays at Vikram Kirti Mandir Museum, Ujjain

[A] SCOPE OF WORK

1. Project Background

Ujjain Smart City Limited (USCL) is undertaking restoration, expansion, and building services works (civil, HVAC, electrical, plumbing, fire systems) for Vikram Kirti Mandir Museum under a separate contract.

This tender cover end-to-end museum exhibition works, including design, conservation treatment, fabrication, display systems, interpretive content, interactive & immersive installations, and allied works for galleries, and commissioning of galleries showcasing artefacts, fossils, sculptures, manuscripts, and archives from prehistoric era to modern period including fossils, stone tools, sculptures, manuscripts, archives, and cultural narratives of Ujjain representing different historical eras and dynasties in the region.

The objective is to create a contemporary, immersive, educational, and conservation-safe museum, meeting national and international museum standards.

2. Scope Overview

The Contractor shall provide end-to-end services covering:

- Museum planning, interpretation & exhibition design
- Conservation assessment and treatment of artefacts and selected manuscripts
- Gallery interiors, exhibition fit-outs, interpretation & storytelling
- Display systems for artefacts, manuscripts, fossils, sculptures
- Museum-grade display cases, mounts, and pedestals
- Interactive, AV, digital & immersive installations
- Graphics, signage & wayfinding
- Fabrication, Installation, testing, commissioning & handover
- Training and post-installation support
- Coordination with USCL, Curators, Archaeologists, and University experts

3. Museum Planning & Design Services

3.1 Conceptual & Interpretive Design

- Develop a unified museum narrative aligned with the approved historical timeline and gallery themes.
- Prepare Interpretation Plan including:

- Era-wise storytelling
- Key messages, learning outcomes
- Visitor journey, dwell time & sequencing
- Develop gallery zoning plans, circulation diagrams, and experience flow.

3.2 Detailed Exhibition Design

- Prepare concept designs, detailed layouts, and 3D visualizations for all galleries.
- Design visitor circulation, sequencing, and experiential flow.
- Prepare detailed drawings for:
 - Wall elevations
 - Display cases & mounts
 - Pedestals & platforms
 - Graphics & signage
- Graphic design themes, typography, colour palettes
- Lighting concepts
- Ensure universal accessibility, including tactile elements and braille panels.

4. Conservation Assessment & Treatment

4.1 Pre-Conservation Assessment

- Conduct condition surveys of artefacts and selected manuscripts.
- Prepare condition reports, photographic documentation, and treatment proposals.
- Obtain approvals from Curator / USCL before treatment.

4.2 Conservation Treatment – Artefacts

Applicable to stone sculptures, fossils, pottery, terracotta, metal and wooden artefacts:

- Surface cleaning (dry/wet methods as appropriate)
- Removal of salts, accretions, and biological growth
- Structural stabilization and consolidation
- Crack filling and edge strengthening
- Application of compatible, reversible protective coatings
- Fossil stabilization and preparation for mounting/display

4.3 Conservation Treatment – Manuscripts & Archives (Selected)

- Condition assessment of manuscripts approved for treatment
- Surface cleaning and de-acidification
- Tear repair and strengthening
- Fungal/pest treatment
- Archival-grade encapsulation and housing

- Preparation for safe display and digitization support

4.4 Preventive Conservation

- Define RH, temperature, light, and UV requirements for galleries
- Design micro-climate solutions within display cases
- Prepare artefact handling, packing, and movement protocols
- Submit conservation manuals and SOPs

5. Gallery Interiors & Exhibition Fitouts

Total of 12 Galleries have been planned Galleries have been designed as per chronology, historical events, dynasties in the region as under:

SN	Gallery/Space	Description	Area (sqm)
Galleries			
1.	Orientation Gallery	Introductory orientation space	72.29
2.	Gallery 1	Prehistoric Gallery: Deep-Time	72.29
3.	Gallery 2	The Beginnings of Civilisation in Ujjain	72.29
4.	Gallery 3a	Recreating the Ancient Ujjain: The Rise of Avanti Mahajanapada	147.32
5.	Gallery 3b	Recreating the Ancient Ujjain: Ujjain as the Spiritual Centre	147.32
6.	Gallery 4a	Art of Malwa: Shaivite and Shakta Art Traditions	147.32
7.	Gallery 4b	Art of Malwa: Vaishnavite Traditions of Malwa	147.32
8.	Gallery 4c	Art of Malwa: Jain Art Gallery	147.32
9.	Gallery 5	Samrat Vikramaditya: Recreating stories and myths	72.29
10.	Gallery 6a	Legacy of Samrat Vikramaditya: Continuity of Kingship and Cultural Memory	72.29
11.	Gallery 7	King Vikramaditya in popular Culture	72.29
12.	Gallery 8	Manuscripts	72.29
Support Spaces/ Administrative Area			
13.	Archives	Research and archival storage	72.29
14.	Visual Storage	Artifact storage with climate control	43.07
15.	AV Room	Documentaries and multimedia space	72.29
16.	Office Space	Administrative offices	72.29
17.	Curators Room	Curatorial workspace	72.29
18.	Library	Reference library and reading room	72.29
19.	Conference Room	Meeting and seminar space	72.29
20.	Conservation Lab	Artifact conservation and restoration	43.07
21.	Guard Room and Services	Security and building services	30.09

6. Guidelines for Galleries

The Contractor shall undertake design, conservation-safe fabrication, supply, installation, testing and commissioning of gallery interiors and exhibition fit-outs for all above listed galleries and support exhibition spaces. The works shall be fully integrated with the approved interpretation plan, conservation requirements, and visitor experience strategy.

All exhibition elements shall be museum-grade, non-invasive, reversible where applicable, and suitable for long-term display of artefacts, manuscripts, fossils, and archival material.

6.1 Orientation Gallery (72.29 sq. m)

Theme: Introductory orientation space

- Design and installation of introductory exhibits explaining the chronological overview of Ujjain's history, museum layout, and visitor journey.
- Large-scale timeline panels, orientation maps, and interpretive graphics.
- Introductory AV / multimedia presentation to set the narrative context.
- Wayfinding elements directing visitors to subsequent galleries.

6.2 Gallery 1 – Prehistoric Gallery: Deep-Time (72.29 sq. m)

- Exhibition design depicting deep-time history, fossils, and prehistoric environment.
- Fossil display pedestals and mounts with appropriate conservation support.
- Dioramas, illustrated panels, and immersive background graphics.
- Interactive or digital interpretation explaining geological timelines and prehistoric life.

6.3 Gallery 2 – The Beginnings of Civilisation in Ujjain (72.29 sq. m)

- Displays showcasing early human settlement, stone tools, and early cultural development.
- Secure display cases for tools and artefacts.
- Process-based interpretation panels explaining technological and social evolution.
- Educational interactive elements for learning and engagement.

6.4 Gallery 3a – Recreating the Ancient Ujjain: The Rise of Avanti Mahajanapada (147.32 sq. m)

- Large-format immersive exhibition recreating urban, political, and economic life of ancient Ujjain.
- Models, murals, and interpretive graphics illustrating the rise of Avanti Mahajanapada.
- Artefact displays integrated with storytelling and spatial narratives.
- Digital maps, trade-route visuals, and interactive timelines.

6.5 Gallery 3b – Recreating the Ancient Ujjain: Ujjain as the Spiritual Centre (147.32 sq. m)

- Thematic displays highlighting religious, philosophical, and spiritual traditions of ancient Ujjain.
- Exhibition elements portraying rituals, beliefs, and sacred landscapes.
- Conservation-safe display of religious artefacts, sculptures, and fragments.
- Audio-visual storytelling and immersive ambience where approved.

6.6 Gallery 4a – Art of Malwa: Shaivite and Shakta Art Traditions (147.32 sq. m)

- Exhibition design for display of Shaivite and Shakta sculptures, reliefs, and art forms.
- Heavy-duty pedestals and mounts for stone artefacts.
- Interpretive panels explaining iconography, symbolism, and stylistic evolution.
- Controlled lighting coordination to enhance sculptural forms.

6.7 Gallery 4b – Art of Malwa: Vaishnavite Traditions of Malwa (147.32 sq. m)

- Displays showcasing Vaishnavite art, sculpture, and religious traditions.
- Secure and conservation-appropriate mounting systems.
- Narrative graphics explaining religious movements, patronage, and artistic development.
- Integration of digital interpretation tools where appropriate.

6.8 Gallery 4c – Art of Malwa: Jain Art Gallery (147.32 sq. m)

- Exhibition design highlighting Jain art, sculpture, manuscripts, and philosophical traditions.
- Museum-grade display cases for delicate artefacts.
- Contextual interpretation of Jain iconography, texts, and historical influence.
- Quiet, contemplative spatial design aligned with theme.

6.9 Gallery 5 – Samrat Vikramaditya: Recreating Stories and Myths (72.29 sq. m)

- Narrative-driven exhibition focusing on legends, folklore, and mythological accounts of Samrat Vikramaditya.
- Use of murals, graphic storytelling, and digital media.
- Interactive or audio-visual installations to engage diverse audiences.
- Integration of literary and oral tradition interpretations.

6.10 Gallery 6a – Legacy of Samrat Vikramaditya: Continuity of Kingship and Cultural Memory (72.29 sq. m)

- Exhibits focusing on historical legacy, governance, and cultural continuity.
- Artefact displays integrated with interpretive panels and timelines.
- Digital and graphic storytelling showing long-term influence on regional history.
- Balanced academic and public-friendly interpretation.

6.11 Gallery 7 – King Vikramaditya in Popular Culture (72.29 sq. m)

- Exhibition showcasing depictions of Vikramaditya in literature, theatre, folklore, and modern media.
- Multimedia displays, illustrations, and interactive digital content.
- Contemporary interpretation connecting past narratives with present culture.
- Flexible display systems for rotating or temporary content.

6.12 Gallery 8 – Manuscripts Gallery (72.29 sq. m)

- Conservation-sensitive exhibition design for selected manuscripts and archival material.
- Climate-controlled, sealed display cases with UV protection.
- Digital facsimiles and page-turning displays to reduce handling of originals.
- Interpretive panels explaining manuscript traditions, scripts, and knowledge systems.

6.13 General Requirements for All Galleries

- All exhibition elements shall be custom-designed, fabricated, and installed by the Contractor.
- Artefact handling and placement shall follow approved conservation protocols.
- Materials shall be durable, low-maintenance, and compatible with museum environments.
- All galleries shall be delivered ready for public opening, complete in all respects.

7. Guidelines for Support Spaces, Archives, Conservation & Back-of-House Facilities

The Contractor shall design, supply, install, test and commission the interiors, functional fit-outs, conservation systems, and interpretive infrastructure for the following **support and back-of-house spaces**, in coordination with the overall museum planning, conservation protocols, and operational requirements.

All works under this clause shall be executed using **museum-grade, archival-quality, and conservation-safe materials**, and shall be fully integrated with the exhibition, conservation, and digital systems of the Museum.

7.1 Archives (72.29 sq. m)

Function: Research and archival storage

- Design and installation of archival-grade storage systems (shelving, cabinets, map drawers, manuscript boxes).
- Provision of conservation-compatible furniture for handling and review of archival materials.
- Support for controlled environmental conditions (coordination with HVAC contractor).
- Installation of labelling, cataloguing, and access-control systems.
- Integration with digitization and research workflows.

7.2 Visual Storage (43.07 sq. m)

Function: Artifact storage with climate control

- Design and fit-out of visible storage displays combining storage and limited public viewing.
- Installation of secure, modular storage units suitable for stone, metal, pottery, and mixed artefacts.
- Conservation-safe mounts and padded supports.
- Coordination for temperature, humidity, and light control.
- Interpretive graphics explaining visible storage and conservation practices.

7.3 AV Room (72.29 sq. m)

Function: Documentaries and multimedia space

- Interior design and fit-out of AV viewing space for screenings, digital storytelling, and educational films.
- Installation of projection systems, screens, acoustic treatments, and seating layouts.
- Integration of lighting, sound systems, and content control.
- Provision of accessibility features including subtitles and assisted-listening support.
- Coordination with the central Content Management System (CMS).

7.4 Office Space (72.29 sq. m)

Function: Administrative offices

- Design and furnishing of administrative workspaces.
- Provision of workstations, storage units, and meeting points.
- Integration of ICT, data, and power coordination (MEP excluded).
- Functional planning to support daily museum operations.

7.5 Curators' Room (72.29 sq. m)

Function: Curatorial workspace

- Design of specialized workspaces for curatorial planning, research, and exhibit development.
- Provision of work tables, reference storage, and secure cabinets.
- Facilities for review of artefacts, manuscripts, and exhibition content.
- Integration with archives and conservation lab workflows.

7.6 Library (72.29 sq. m)

Function: Reference library and reading room

- Design and fit-out of reading spaces, book storage, and reference desks.
- Archival-grade shelving for rare and reference publications.
- Comfortable and quiet study environment for researchers and scholars.
- Provision for digital access terminals and future expansion.

7.7 Conference Room (72.29 sq. m)

Function: Meeting and seminar space

- Interior fit-out including conference tables, seating, and presentation infrastructure.
- Installation of AV systems for lectures, seminars, and workshops.
- Acoustic treatments and lighting coordination.
- Flexibility for academic, curatorial, and public engagement programs.

7.8 Conservation Laboratory (43.07 sq. m)

Function: Artifact conservation and restoration

- Design and fit-out of fully functional conservation laboratory.
- Provision of conservation worktables, sinks, storage cabinets, and tool stations.
- Dedicated zones for stone, metal, organic, and manuscript conservation.
- Installation of safety systems and chemical-resistant finishes.
- Integration with conservation workflows defined under Clause 4.

7.9 Guard Room & Services (30.09 sq. m)

Function: Security and building services

- Fit-out of guard room with desks, storage, and monitoring provisions.
- Integration with security systems (CCTV, access control – hardware excluded).
- Functional layout for building operations and visitor safety support.

7.10 General Requirements for Support Spaces

- All support spaces shall be designed to ensure operational efficiency, safety, and conservation integrity.
- Materials and finishes shall be durable, easy to maintain, and compatible with museum environments.
- All furniture, storage, and fixtures shall be custom-designed or purpose-selected for museum use.
- Spaces shall be delivered fully functional and ready for occupancy.

8. Gallery-wise Summarised Scope of Work in commensurate with Bill of Quantities

Gallery Name	Scope Component	Description of Works
Gallery 1 – Prehistoric Gallery	Central Feature	FRP prehistoric fossil replica with MS structural frame, seamless fixing, painted finish
	Display Cases	Free-standing showcases with wooden pedestal, 6 mm toughened glass
	Projection / Wall Panels	Matte-finish large projection panels on MS sub-frame
	Interactive Systems	Multi-touch digital display with mini PCs
	AV & Content	Script, storyboarding, 3D animation, VFX, SFX, voiceover, multilingual content
	Lighting	DMX/DALI controlled museum-grade spot lighting
	Software	CMS, applications, special effects
	Integration	Complete installation, calibration, testing & commissioning
Gallery 2 – Beginning of	Central Installation	FRP replica of ancient Ujjain city model + pots & ancillary installations

Gallery Name	Scope Component	Description of Works
Civilisation in Ujjain	Display Cases	Large quantity of small & medium showcases (600×600, 900×900) with plaques
	Digital Displays	65" 4K professional display + kiosk systems
	Projection Panels	Extensive matte-finish wall panels
	AV & Content	High-volume animation, VFX-driven storytelling
	Lighting	Integrated programmable lighting system
	Software & Integration	Full system integration & commissioning
Gallery 3 – Rise of Avanti Mahajanapada	Replicas	FRP coin replicas mounted on walls / ceilings
	Showcases	Artifact display showcases with structural pedestals
	Graphics	SEG backlit stretch fabric partitions (organic forms)
	AV Systems	Immersive sound system
	Digital Displays	65" UHD display + mini PC
	Content	Script, storyboard, animation, VFX, audio & multilingual narration
	Lighting	Museum lighting with programmable scenes
	Integration	End-to-end integration & testing
Gallery 4 – Art of Malwa (Shaivite, Vaishnavite & Jain Traditions)	Display Cases	Medium-size artifact showcases with heavy-duty pedestals
	Projection Panels	Matte-finish panels across gallery walls
	Graphics	Backlit SEG fabric partitions
	AV Systems	Immersive audio experience
	Digital Displays	UHD display + kiosk PC
	Content	Interpretation-rich animation & voiceover
	Lighting	Accent and focused lighting for sculptures
	Integration	Complete commissioning
Gallery 5 – Samrat Vikramaditya: Stories & Myths	Digital Displays	65" UHD display with interactive kiosk
	Projection Panels	Matte-finish thematic panels
	Graphics	Backlit SEG panels
	AV Systems	High-impact immersive sound
	Content	Mythology-focused storytelling, animation & VFX
	Lighting	High-intensity programmable lighting
	Integration	Full system integration
Gallery 6 – Legacy of Samrat	Display Systems	UHD display, mini-PC, projection panels
	Showcases	Limited artifact showcases
	Graphics	SEG backlit partitions

Gallery Name	Scope Component	Description of Works
Vikramaditya	AV Systems	Immersive sound
	Content	Historical continuity narratives
	Lighting	Museum-grade lighting with dimming
	Integration	Complete installation & commissioning
Gallery 7 – Continuity of Kingship & Cultural Memory	Display Cases	Large showcases (1200×600) for key artefacts
	Projection Panels	Wall-scale matte panels
	Graphics	Backlit SEG fabric systems
	AV Systems	Immersive audio
	Digital Displays	UHD display + kiosk
	Content	Advanced animation, VFX, interpretation
	Lighting	Controlled lighting scenes
	Integration	Comprehensive system handover
Gallery 8 – Manuscripts Gallery	Display Cases	Large, sealed showcases for manuscripts
	Projection / Info Panels	Gallery-wise information panels
	Interactive Displays	Touch display with PC
	Lighting	Low-lux, manuscript-safe lighting
	Content	Digitised manuscript storytelling
	Software	CMS & content delivery
	Integration	Installation, calibration & testing
ORIENTATION & COMMON GALLERY AREAS	Orientation Gallery	Interactive display, projection panels, central installation
	Information Panels	Large thematic panels for all galleries
	Lighting	Uniform museum lighting systems
	Integration	Centralised AV & CMS integration

9. Display Systems & Fabrication

8.1 Display Furniture & Cases

- Custom-designed display cases (freestanding, wall-mounted, table type)
- UV-filtered laminated glass
- Anti-vibration & seismic-safe mounts
- Sealed cases with RH buffering where required
- Concealed hardware & tamper-proof locking

8.2 Artefact Mounting

- Museum-grade mounts for:
 - Fossils
 - Stone sculptures
 - Manuscripts
 - Metal & wooden artefacts
- Heavy-duty pedestals for large sculptures
- Conservation-safe, non-invasive mounts
- Non-invasive, reversible fixing systems
- Coordination with curators for artefact safety

10. Interactive, Digital & Immersive Systems

- Touchscreen kiosks (multi-language)
- Projection mapping & immersive audio-visual experiences
- Short films, animated explainers, historical recreations
- Augmented / Virtual Reality modules (where approved)
- Centralized content management system (CMS)
- Integration with museum website & future mobile apps

11. Graphics, Signage & Wayfinding

- Introductory panels, timelines, captions
- Multi-lingual content (Hindi, English; three other languages as approved)
- Braille panels & tactile graphics
- Directional signage & gallery identifiers
- Consistent visual identity across museum

12. Coordination with Other Agencies

- Interface with USCL's civil & MEP contractors for:
 - Final interface points
 - Power/data termination locations
 - HVAC diffusers near display zones
- Coordination with:
 - Museum curator
 - Archaeologists & historians
 - Vikram University representatives

13. Fabrication, Installation & Commissioning

- Off-site fabrication of exhibition elements
- On-site installation with conservation-safe handling

- Testing and commissioning of all interactive and AV systems
- Trial runs and visitor experience testing
- Snag rectification and final commissioning

14. Training, Documentation & Handover

- Training of museum staff on:
 - Display systems
 - Interactive & AV equipment
 - Basic troubleshooting
 - Basic conservation monitoring
- Submission of:
 - As-built drawings
 - Conservation reports
 - O&M manuals
 - Warranty and support documents

15. Deliverables

- Interpretation Plan & Design Drawings
- Conservation Assessment & Treatment Reports
- 3D walkthroughs and renders
- Shop drawings for displays
- Content scripts & storyboards
- Fabricated and installed exhibition elements
- Fully functional galleries ready for public opening
- Trained staff and complete documentation
- As-built drawings
- O&M manuals for digital systems
- Warranty & maintenance documentation

16. Exclusions

The following are explicitly excluded from this scope:

- Civil works, structural works
- HVAC, electrical, plumbing, fire-fighting systems
- Major building finishes
- Day-to-day museum operations post-handover

(All above are being executed under separate contract through USCL)

17. Defect Liability & Warranty and Post Installation Support

- Minimum **36 months DLP** for all installations
- Scheduled conservation monitoring visits
- Minor conservation touch-ups during DLP
- Technical support for AV and digital system
- OEM warranties for AV, digital & electronic components
- Replacement of defective components at no extra cost

18. Expected Outcome

The completed works shall deliver:

- A world-class, immersive, educational museum
- Increased footfall and academic engagement
- A benchmark cultural destination complementing Ujjain's religious tourism

19. Project Implementation Milestones & Timelines

Contract Duration: 9 Months

The Contractor shall submit detailed Gantt chart within 15 days of LOA at the time of signing of agreement.

Detailed Milestone Table (With Parallel Activities)

Milestone No.	Activity Description	Duration	Timeline (Weeks)	Remarks / Parallelism
M1	Mobilisation	2 weeks	Week 1–2	Site office, core team deployed
M2	Site survey, inventory verification, interface coordination	2 weeks	Week 1–2	Parallel with M1
M3	Artefact & manuscript condition assessment	4 weeks	Week 2–5	Parallel with concept design
M4	Interpretation plan & gallery-wise narrative	4 weeks	Week 2–5	Parallel with M3
M5	Concept design & preliminary layouts	4 weeks	Week 3–6	Inputs from curator
M6	Approval of concept & interpretation	—	End of Week 6	Stage Gate-1
M7	Detailed exhibition & interior design (all galleries + support spaces)	4 weeks	Week 6–9	Parallel with conservation planning
M8	Conservation methodology approval	—	End of Week 9	Stage Gate-2
M9	Off-site fabrication of displays, cases & furniture	12 weeks	Week 9–20	Parallel with conservation works
M10	Conservation treatment of artefacts & manuscripts	12 weeks	Week 9–20	Lab + on-site (approved items)
M11	Graphics, content finalisation	10	Week 10–	Parallel activity

	& AV production	weeks	19	
M12	On-site installation – Phase-1 galleries	6 weeks	Week 17–22	Rolling handover
M13	On-site installation – Phase-2 galleries	6 weeks	Week 21–26	Overlaps with M12
M14	Installation of support spaces (archives, AV room, lab, offices)	6 weeks	Week 21–26	Parallel
M15	AV, interactive & digital system integration	6 weeks	Week 23–28	Post-installation
M16	Testing, commissioning & snag rectification	4 weeks	Week 29–32	Gallery-wise
M17	Staff training & documentation submission	3 weeks	Week 31–33	Parallel with M16
M18	Final inspection & provisional completion	—	End of Week 34	Stage Gate-3
M19	Final handover & go-live readiness	2 weeks	Week 35–36	Completion

Critical Parallel Streams

Stream	Runs in Parallel
Interpretation planning	Conservation assessment
Conservation treatment	Display fabrication
Graphics & AV content	Furniture fabrication
Installation (gallery-wise)	Support spaces fitouts
AV integration	Final installations

20. Milestone-Linked Payment Structure

Milestone	% Payment
M1–M2 Mobilisation	10%
M6 Concept approval	15%
M8 Detailed design & conservation approval	15%
M9–M11 Fabrication & conservation progress	25%
M12–M14 Installation completion	20%
M16 Commissioning	10%
M19 Final handover	5%
Total	100%

21. Other Instructions:

20.1 Stakeholder Consultation & Museum Master Planning

The Contractor shall prepare a comprehensive Museum Master Plan and Exhibition Framework covering all components of the scope including, but not limited to, gallery zoning, visitor circulation, exhibition sequencing, interpretive narratives, support spaces, conservation workflow, AV integration, and interface with building services.

The draft Master Plan and thematic framework shall be presented to stakeholders including Vikram University, Vikram Kirti Mandir Museum Authorities, Vikram Shodhpith Sanssthan,

Oriental Institute, subject experts, cultural institutions, and other agencies as facilitated by Ujjain Smart City Limited (USCL) and/or PDMC.

The Contractor shall:

- Record all comments and observations
- Incorporate approved suggestions into the revised Master Plan
- Submit the final Master Plan for approval of USCL

No detailed design, fabrication, conservation, or installation work shall commence without written approval of the Master Plan.

No additional cost or time claim shall be admissible on account of stakeholder consultations or incorporation of approved suggestions.

20.2 Structural Safety & Independent Vetting

All project related structural designs shall be independently vetted by a reputed technical institute approved by USCL. Fabrication or installation shall commence only after written approval of USCL based on submitted reports.

No additional payment or extension of time shall be admissible on account of such studies, vetting, or design revisions.

20.3 Manufacturer's Test Reports, QAPs & Compliance Documentation

The Contractor shall submit, for review and approval of USCL/PDMC, all relevant manufacturer's test reports, factory test certificates, compliance certificates, and Quality Assurance Plans (QAPs) for materials, equipment, systems, and conservation products proposed to be used in the Project. The QAPs shall clearly define quality control procedures, inspection stages, testing methods, acceptance criteria, and hold points for USCL/PDMC review. No procurement, fabrication, conservation treatment, or installation activity shall commence without written approval of the applicable QAPs and test reports. Approval of such documents shall not absolve the Contractor of responsibility for performance, quality, safety, or compliance with the Contract, and no additional cost or time claim shall be entertained on this account.

20.4 Third-Party Inspection (TPI) of Materials & Equipment

The Contractor shall, at his own cost and arrangement, provide for third-party inspection (TPI) of all major materials, equipment, systems, and fabricated components proposed to be supplied and installed under the Project, including but not limited to display cases, glass, lighting fixtures, AV and digital equipment, interactive systems, structural mounts, conservation materials, and specialized exhibition elements. Such inspections shall be carried out through an independent inspection agency of repute, approved by Ujjain Smart City Limited (USCL). The scope of TPI shall include review of material specifications, workmanship, factory acceptance tests, performance parameters, and compliance with approved standards and drawings. Dispatch, installation, or deployment of any such material or equipment shall be permitted only after submission and acceptance of the TPI reports and certificates by USCL/PDMC. No additional payment or time claim shall be admissible on account of third-party inspection.

20.4.1 Pre-Dispatch Inspection of Major Exhibition & AV Equipment

The Contractor shall arrange pre-dispatch inspection of major exhibition and AV equipment including display cases, projection systems, LED walls, interactive kiosks, control systems, and specialized lighting fixtures.

Inspection shall be conducted by an independent agency approved by USCL, in presence of USCL / PDMC representatives.

Dispatch shall be permitted only after acceptance of inspection reports.

20.5 Miniature Models & Prototypes for Sculptural / Exhibition Elements

The Contractor shall prepare and submit scale models / mock-ups / prototypes (physical and/or digital) of all major sculptures, dioramas, artistic elements, and signature exhibition components for approval of USCL and its designated Cultural & Heritage Committee.

For major sculptural or artistic elements, the following approvals shall be mandatory:

1. Concept-stage model – form, proportions, theme
2. Final detailed model – material, surface finish, texture, lighting integration

The executed full-scale work shall strictly conform to the final approved model. No fabrication or installation shall commence without such approval.

All costs for preparation, revisions, and compliance shall be deemed included in the Contract Price.

20.6 Handling, Conservation and Re-installation of Existing Sculptures and Artefacts

The Contractor shall, at his own cost and arrangement, be responsible for the safe identification, documentation, lifting, handling, packing, internal transportation, conservation treatment, and re-installation of all existing sculptures, artefacts, fragments, and heritage objects presently lying in galleries, corridors, open areas, storage spaces, or any other locations within the Museum premises or as identified by USCL. All handling and movement shall be carried out using suitable, non-invasive, and conservation-safe methods, including appropriate lifting equipment, protective supports, cushioning, and trained personnel, strictly in accordance with approved conservation protocols. After completion of conservation treatment and upon approval of the Curator/PDMC/USCL, the Contractor shall install and position such artefacts at their designated display locations on approved pedestals, mounts, or display systems, ensuring proper alignment, stability, safety, and interpretive presentation. Any damage, loss, or deterioration arising due to improper handling, transportation, conservation, or installation shall be the sole responsibility of the Contractor, and no additional cost or time claim shall be admissible on this account.

20.7 Approval of Content for AV, Digital, Dioramas & Interpretation

All interpretive content including scripts, narratives, text panels, translations, graphics, animations, films, voiceovers, audio guides, dioramas, interactive media, AR/VR content, and related materials shall be subject to prior review and written approval of USCL and its designated Cultural & Heritage Committee.

The Contractor shall:

- Submit content in draft form with sources and references
- Incorporate all comments and modifications

- Obtain final approval prior to deployment

No content shall be displayed, broadcast, or made operational without written approval. No additional cost or claim shall be admissible on account of content revisions or rework.

20.8 Testing, Commissioning & Handover

(Museum-Specific)

20.8.1 Testing & Commissioning

The Contractor shall conduct testing and commissioning of:

- Exhibition installations and display systems
- AV, multimedia, interactive and digital systems
- Lighting integrated with exhibition elements
- Conservation display cases and micro-climate systems
- Visitor flow and interpretive sequencing

20.8.2 Training & Documentation

The Contractor shall provide:

- Training to museum staff on AV systems, exhibits and basic conservation handling
- O&M manuals, as-built drawings, asset registers
- Conservation treatment records and protocols

20.8.3 Soft Launch & Handover

- Trial operation / soft launch for minimum 30 days
- Rectification of issues observed during trial
- Final handover after compliance certification by PDMC / USCL

20.9 Defect Liability & Post-Installation Support

The Contractor shall provide a Defect Liability Period (DLP) of **36 months** covering:

- Exhibition installations
- AV and digital systems
- Display cases, mounts and furniture
- Conservation treatment outcomes

During DLP, the Contractor shall attend defects, malfunctions, or failures at no additional cost.

Performance benchmarks during DLP:

- AV system uptime $\geq 98\%$
- Lighting Fixtures uptime $\geq 99\%$

20.10 General No-Claim & Responsibility Clause

Approval of designs, models, content, or methodologies by USCL / PDMC shall not relieve the Contractor of responsibility for safety, performance, accuracy, or compliance with standards.

No claim for extra cost or time shall be entertained on account of approvals, revisions, stakeholder inputs, or coordination requirements.

[B] MAJOR TECHNICAL SPECIFICATIONS & STANDARDS

1. General Requirements

All materials, systems, workmanship, conservation processes, and installations shall comply with:

- Relevant Bureau of Indian Standards (BIS) codes
- Applicable international museum, conservation, and exhibition standards
- Best practices followed in national and international museums

In case of conflict between standards, the more stringent requirement shall prevail. All works shall be non-invasive, reversible (where applicable), durable, and suitable for long-term museum use.

Contractor shall submit Design Documents and a detailed Quality Assurance Plan (QAP) for approval of PDMC and USCL prior to execution.

2. Exhibition Design & Interior Works

Applicable Standards / Practices

- BIS standards for interior finishes, joinery, glass, metals, coatings
- Fire-retardant materials as per IS 1642, IS 5509 (as applicable)
- Universal accessibility principles aligned with Harmonised Guidelines for Universal Accessibility (MoHUA)

Key Specifications

- All exhibition furniture, partitions, panels, and finishes shall be custom-designed for museum use.
- Materials shall be:
 - Low-VOC, non-toxic
 - Dimensionally stable
 - Resistant to warping, corrosion, and pest attack
- Sharp edges, exposed fasteners, and hazardous projections shall not be permitted.

3. Display Cases, Glass & Mounts

Applicable Standards / Practices

- Laminated safety glass as per IS 2553
- Structural glass installations following international museum norms
- Seismic-safe mounting practices

Key Specifications

- Display cases to be:
 - UV-filtered laminated glass (minimum 99% UV cut below 380 nm)
 - Airtight or semi-sealed for micro-climate control (where required)

- Lockable, tamper-proof, and vibration-resistant
- Artefact mounts:
 - Non-corrosive, inert, reversible
 - Designed to distribute load uniformly
 - No direct stress on artefacts

4. Conservation Treatment of Artefacts

Applicable Standards / Practices

- International conservation ethics (ICOM-CC principles)
- BIS guidelines for chemical handling and laboratory safety
- Reversibility and minimum-intervention philosophy

Key Specifications

- Conservation treatment shall include:
 - Condition assessment & documentation
 - Cleaning (dry/wet as appropriate)
 - Stabilization & consolidation
 - Protective coatings (fully reversible)
- No irreversible treatment shall be undertaken without written approval of Curator / USCL.
- All materials used shall be:
 - Chemically stable
 - Proven for heritage use
 - Fully documented in treatment reports

5. Conservation of Manuscripts & Archival Material

Applicable Standards / Practices

- International archival standards (ISO 11799, ISO 9706 – as reference practices)
- BIS standards for paper handling and storage

Key Specifications

- Manuscript treatment to include:
 - Surface cleaning & de-acidification
 - Tear repair using archival-grade materials
 - Fungal and pest treatment
 - Encapsulation using acid-free, inert materials
 - Display of originals shall be limited; digital facsimiles preferred for frequent viewing.
- Light levels, RH, and temperature shall comply with manuscript conservation norms.

6. Preventive Conservation & Environmental Control

Applicable Standards / Practices

- Museum environmental best practices
- Coordination with HVAC systems installed under separate contract

Key Specifications

- Recommended environmental parameters:
 - Temperature: 20–24°C ($\pm 2^\circ\text{C}$)
 - Relative Humidity: 45–55% ($\pm 5\%$)
 - Light levels:
 - Manuscripts: ≤ 50 lux
 - Sculptures: ≤ 200 lux
- UV exposure to be minimized through filters and controlled lighting.
- Display cases to include RH buffering materials where required.

7. Graphics, Signage & Interpretation Media

Applicable Standards / Practices

- BIS standards for printing, inks, and substrates
- Accessibility norms for braille and tactile signage

Key Specifications

- Graphics to be:
 - Fade-resistant
 - Non-reflective
 - Easily replaceable
- Text to be bilingual (Hindi/English) unless otherwise approved.
- Braille panels and tactile maps to be provided where specified.

8. Audio-Visual, Digital & Interactive Systems

Applicable Standards / Practices

- BIS standards for electrical safety and electronic equipment
- International AV installation and museum IT best practices

Key Specifications

- All AV equipment shall be:
 - Commercial/museum-grade
 - Continuous-operation rated
 - Energy efficient
- Content Management System (CMS) shall allow:

- Easy updates
- Multi-language support
- Integration with future platforms
- Cables, mounts, and equipment shall be concealed and serviceable.

9. Installation, Testing & Commissioning

Key Specifications

- Installation shall follow approved shop drawings and method statements.
- Artefact handling to be supervised by conservation experts.
- Testing & commissioning shall include:
 - Functional testing
 - Safety checks
 - User acceptance trials
- Snag rectification to be completed prior to provisional completion.

10. Quality Assurance Plan (QAP) – Mandatory

The Contractor shall submit a Project-Specific QAP including:

- Material approval procedures
- Inspection & test plans (ITP)
- Hold points for PDMC / USCL inspections
- Documentation & reporting formats
- Non-conformance handling procedure

No fabrication or conservation work shall commence without QAP approval.

11. Design & Technical Submittals (Mandatory)

The Contractor shall submit for PDMC & USCL approval:

- Concept & detailed design drawings
- Shop drawings & mock-ups
- Conservation methodology & material data sheets
- AV system architecture & content plan
- Method statements for installation & handling
- As-built drawings and O&M manuals

12. Compliance & Approval

- All designs, materials, and methodologies are subject to review and approval by PDMC and USCL.
- Approval shall not absolve the Contractor of responsibility for performance and compliance.

- Deviations, if any, shall require prior written approval.

13. LIST OF RELEVANT BIS & REFERENCE INTERNATIONAL STANDARDS

(Applicable to Museum Interiors, Exhibition Design, Conservation, AV & Support Facilities)

A. GENERAL, MATERIALS & WORKMANSHIP (BIS – INDIA)

1. IS 2062 – Hot Rolled Medium and High Tensile Structural Steel
2. IS 800 – General Construction in Steel
3. IS 883 – Design of Structural Timber
4. IS 710 / IS 303 – Marine Grade & Commercial Plywood
5. IS 10701 – Phenolic bonded decorative laminated sheets
6. IS 3495 – Tests on burnt clay building bricks (reference for masonry interfaces)
7. IS 1642 – Fire safety of buildings (materials & finishes)
8. IS 5509 – Fire-resistant materials (reference)
9. IS 3614 (Part 2) – Fire retardant treatment for materials
10. IS 12330 – Wood preservatives

B. GLASS, DISPLAY CASES & SAFETY

1. IS 2553 (Part 1 & 2) – Safety Glass (Laminated / Toughened)
2. IS 16231 – Performance requirements for architectural glass
3. IS 875 (Part 3) – Wind loads (for large display cases / tall installations)
4. EN 356 (Reference) – Resistance of glass to manual attack (museum reference)

C. CONSERVATION OF ARTEFACTS (REFERENCE STANDARDS & ETHICS)

1. ICOM-CC Guidelines – Conservation ethics & principles
2. UNESCO Conservation Guidelines – Cultural property protection
3. AIC Code of Ethics (USA) – Conservation practices (reference)
4. BS 7913 (UK) – Guide to conservation of historic buildings (principles applicable)
5. ISO 21121 – Risk assessment for collections in museums

D. CONSERVATION OF MANUSCRIPTS & ARCHIVAL MATERIAL

International / Reference Standards

1. ISO 9706 – Permanent paper requirements
2. ISO 11799 – Storage requirements for archival documents
3. ISO 16245 – Boxes and enclosures for archival storage
4. ISO 18902 – Imaging materials – processed photographic materials

5. British Library Preservation Guidelines – Manuscripts & rare books (reference)

Indian Reference

6. National Archives of India – Preservation Guidelines (reference practices)

E. PREVENTIVE CONSERVATION & ENVIRONMENTAL CONTROL

1. ASHRAE Museum Guidelines – Temperature & humidity control
2. CIBSE Guide B (UK) – Environmental design for buildings
3. ISO 11799 – Environmental conditions for archives
4. ICCROM Preventive Conservation Guidelines – Reference

Indicative museum parameters:

- Temperature: 20–24°C
- Relative Humidity: 45–55%
- UV exposure: Minimal / filtered

F. GRAPHICS, SIGNAGE & ACCESSIBILITY

1. IS 2380 – Colour standards (reference)
2. IS 15301 – Retro-reflective signage (directional use)
3. Harmonised Guidelines for Universal Accessibility (MoHUA, GoI)
4. ADA Accessibility Guidelines (USA) – Reference for tactile & braille design
5. ISO 7001 – Public information symbols

G. AUDIO-VISUAL, DIGITAL & INTERACTIVE SYSTEMS

BIS / Indian Standards

1. IS 13252 – Safety of IT & AV equipment
2. IS 616 / IS 11809 – Audio, video and electronic equipment safety
3. IS 9000 Series – Environmental testing of electronic equipment

International Reference

4. IEC 62368-1 – Safety requirements for AV & ICT equipment
5. ISO/IEC 27001 – Information security (CMS & digital assets – reference)

H. ELECTRICAL & DATA INTERFACES (COORDINATION ONLY)

(MEP works under separate contract – reference for interface)

1. IS 732 – Electrical wiring installations
2. IS 3043 – Earthing
3. NBC 2016 – Fire & life safety (interface coordination)

I. INSTALLATION, HANDLING & SAFETY

1. IS 3696 – Safety in construction and erection
2. IS 3764 – Excavation safety (reference for handling zones)
3. ISO 45001 – Occupational health & safety (reference)

J. QUALITY ASSURANCE & DOCUMENTATION

1. ISO 9001 – Quality Management Systems
2. ISO 14001 – Environmental Management Systems (reference)
3. ISO 21121 – Risk management for collections

Note:

The standards listed above are indicative and for guidance.

The Contractor may propose equivalent or superior standards, subject to review and approval of PDMC and USCL.

In case of conflict, the most stringent requirement shall apply.

Annexure —F
(See clause 3 of section 2-ITB)

PROCEDURE FOR PARTICIPATION IN E-TENDERING

1. Bidder should do Online Enrolment in this Portal using the option Click Here to Enroll available in the Home Page. Then the Digital Signature enrolment has to be done with the e-token, after logging into the portal. The e-token may be obtained from one of the authorized Certifying Authorities such as MudhraCA/ GNFC/IDRBT/ Mtnl Trust line / SafeScript/TCS.
2. Bidder then logs into the portal giving user id / password chosen during enrolment.
3. The e-token that is registered should be used by the bidder and should not be misused by others.
4. DSC once mapped to an account cannot be remapped to any other account. It can only be Inactivated.
5. The Bidders can update well in advance, the documents such as certificates, purchase order details etc., under My Documents option and these can be selected as per tender requirements and then attached along with bid documents during bid submission. This will ensure lesser upload of bid documents.
6. After downloading / getting the tender schedules, the Bidder should go through them carefully and then submit the documents as per the tender document, otherwise, the bid will be rejected.
7. The BOQ template must not be modified/replaced by the bidder and the same should be uploaded after filling the relevant columns, else the bidder is liable to be rejected for that tender. Bidders are allowed to enter the Bidder Name and Values only.
8. If there are any clarifications, this may be obtained online through the eProcurement Portal, or through the contact details given in the tender document. Bidder should take into account of the corrigendum published before submitting the bids online.
9. Bidder, in advance, should prepare the bid documents to be submitted as indicated in the tender schedule and they should be in PDF/XLS/RAR/DWF formats. If there is more than one document, they can be clubbed together.
10. Bidder should arrange for the EMD as specified in the tender. The original should be posted/couriered/given in person to the Tender Inviting Authority, within the bid submission date and time for the tender.
11. The bidder reads the terms and conditions and accepts the same to proceed further to submit the bids
12. The bidder has to submit the tender document(s) online well in advance before the prescribed time to avoid any delay or problem during the bid submission process.
13. There is no limit on the size of the file uploaded at the server end. However, the upload is decided on the Memory available at the Client System as well as the Network bandwidth available at the client side at that point of time. In order to reduce the file size, bidders are suggested to scan the documents in 75-100 DPI so that the clarity is maintained and also the size of file also gets reduced. This will help in quick uploading even at very low bandwidth speeds.

14. It is important to note that, the bidder has to Click on the Freeze Bid Button, to ensure that he/she completes the Bid Submission Process. Bids Which are not Frozen are considered as Incomplete/Invalid bids and are not considered for evaluation purposes.
15. ~~In case of Offline payments, the details of the Earnest Money Deposit (EMD) document submitted physically to the Department and the scanned copies furnished at the time of bid submission online should be the same otherwise the Tender will be summarily rejected~~
16. The Tender Inviting Authority (TIA) will not be held responsible for any sort of delay or the difficulties faced during the submission of bids online by the bidders due to local issues.
17. The bidder may submit the bid documents online mode only, through this portal. Offline documents will not be handled through this system.
18. At the time of freezing the bid, the eProcurement system will give a successful bid up-dation message after uploading all the bid documents submitted and then a bid summary will be shown with the bid no, date & time of submission of the bid with all other relevant details. The documents submitted by the bidders will be digitally signed using the e-token of the bidder and then submitted.
19. After the bid submission, the bid summary has to be printed and kept as an acknowledgement as a token of the submission of the bid. The bid summary will act as a proof of bid submission for a tender floated and will also act as an entry point to participate in the bid opening event.
20. Successful bid submission from the system means, the bids as uploaded by the bidder is received and stored in the system. System does not certify for its correctness.
21. The bidder should see that the bid documents submitted should be free from virus and if the documents could not be opened, due to virus, during tender opening, the bid is liable to be rejected
22. The time that is displayed from the server clock at the top of the tender Portal, will be valid for all actions of requesting bid submission, bid opening etc., in the e- Procurement portal. The Time followed in this portal is as per Indian Standard Time (IST) which is GMT+5:30. The bidders should adhere to this time during bid submission.
23. All the data being entered by the bidders would be encrypted at the client end, and the software uses PKI encryption techniques to ensure the secrecy of the data. The data entered will not be viewable by unauthorized persons during bid submission and not viewable by any one until the time of bid opening. Overall, the submitted bid documents become readable only after the tender opening by the authorized individual.
24. During transmission of bid document, the confidentiality of the bids is maintained since the data is transferred over secured Socket Layer (SSL) with 256 bit encryption technology. Data encryption of sensitive fields is also done.
25. The bidders are requested to submit the bids through online eProcurements system to the TIA well before the bid submission end date and time (as per Server System Clock).

Annexure — G
(See clause 4 of Section 2 -ITB)

JOINT VENTURE (J.V.)

DELETED (NOT APPLICABLE)

If J.V. is allowed following conditions and requirements must be fulfilled -

1. Number of partners in a Joint Venture shall not exceed 3 (three). The partners shall comply with the following requirements:
 - a. One of the partners shall be nominated as being Lead Partner, and this authorization shall be evidenced by submitting a power of attorney signed by legally authorized signatories of all the partners.
 - b. The bid and, in case of successful bid, the Agreement, shall be signed so as to be legally binding on all partners.
 - c. The partner in charge shall be authorized to incur liabilities and receive instructions for and on behalf of any and all partners of the joint venture and the entire execution of the contract, including payment, shall be done exclusively with the partner in charge.
 - d. All the partners of the joint venture shall be liable jointly and severally for the execution of the contract in accordance with the contract terms, and a statement to this effect shall be included in the authorization mentioned under [c] above, as well as in the bid and in the Agreement [in case of successful bid.
 - e. Bidder shall submit the joint venture agreement indicating precisely the role and responsibilities of all the members of JV in respect of planning, design, construction equipment, key personnel, work execution, and financing of the project. All members of JV should have active participation in execution during the currency of the contract. This should not be varied/modified subsequently without prior approval of the employer.
 - f. a copy of the Joint Venture Agreement entered into by the partners shall be submitted with the bid.
 - g. The joint venture agreement shall be registered at the time of agreement, so as to be legally valid and binding on all partners.
2. All the partners should meet out the minimum qualifying criteria required for the bid and collectively must meet the criteria specified in full. Failure to comply with this requirement will result in rejection of the joint venture's bid.
3. The performance security of joint venture shall be in the name of the partner Lead partner/joint venture.
4. Attach the power of attorney of the partners authorizing the Bid signatory(ies) on behalf of the joint venture

5. An individual Bidder cannot at the same time be member of a Joint Venture applying for this Bid. Further, a member of a particular Bidder Joint Venture cannot be member of any other Bidder Joint Venture applying for this bid
6. A copy of the Joint Venture agreement entered into by the partners made on Rs 500/- Non-judicial stamp duly notarized shall be submitted with the bid. However at the time of agreement bidder shall get the joint venture agreement registered, so as to be legally valid and binding on all partners.
7. Furnish details of participation proposed in the joint venture as below:

PARTICIPATION DETAILS	FIRM 'A' (Lead Partner)	FIRM 'B'	FIRM 'C'
Financial			
Name of the Banker(s)			
Planning			
Construction Equipment			
Key personnel			
Execution of Work (Give details on contribution of each)			

8. The partners of J.V. should satisfy the qualification criteria as below,
 - a. The Lead Partner must have the share of 51% in the J.V.
 - b. The other partner(s) must have a share of minimum 25% in the J.V.
 - c. The lead partner and the other partners must also meet 51% and 26% of the all qualification criteria respectively except for the requirement of work experience described in Annexure 'C'. However both the partners must satisfy the full 100% qualification criteria jointly. For this purpose the qualification of individual partners shall be added (for Average annual turnover, Net worth).
9. For the meeting the minimum qualification criteria of experience of similar nature work,
 - (iv) Out of 3 similar works of value more than 20% of PAC, at least 2 works must be done by lead partner and one work to be done by other partner.

Or

- (v) Out of 2 similar works of value more than 30% of PAC, at least 1(one) work must be done by lead partner and 1 (one) work to be done by other partner.

Or

- (vi) In case of one similar work of value more than 50% of PAC the lead partner must satisfy the criteria. However the other partner must satisfy the criteria of least one work of 20% of PAC.

Annexure-H

(See clause 12 of Section 2 —ITB & clause 4 of GCC)

**ORGANIZATIONAL DETAILS
(To be contained in Envelope- A)**

S.No.	Particulars	Details
1	Registration number issued by Centralized Registration System of Govt. of M.P. or Proof of application for registration.	‘(If applicable, scanned copy of proof of application for registration to be uploaded)
1a	MSME Registration	No. ____Date____(Scanned copy of Registration to be uploaded)
2	Valid Registration of bidder in appropriate class through Centralized Registration of Govt. of MP	Registration No. ____Date____(Scanned copy of Registration to be uploaded)
3	Name of Organization/ Individual/ Proprietary Firm/Partnership Firm	
4	Entity of Organization Individual/ Proprietary Firm/ Partnership Firm (Registered under Partnership Act)/Limited Company (Registered under the Companies Act—1956/2013)/ Corporation / Joint Venture	
5	Address of Communication	
6	Telephone Number with STD Code	
7	Fax Number with STD Code	
8	Mobile Number	
9	E-mail Address for all communications	
	Details of Authorized Representative	
10	Name	
11	Designation	
12	Postal Address	
13	Telephone Number with STD Code	
14	Fax Number with STD Code	
15	Mobile Number	
16	E-mail Address	
17	PAN Number	
18	GST Number	

Note: In case of partnership firm and limited company certified copy of partnership deed/ Articles of Association and Memorandum of Association along with registration certificate of the company shall have to be enclosed.

Signature of Bidder with Seal

Date: _____

Annexure —I
See clause 14 of Section 2 -ITB)

Envelope — B, Technical Proposal
Technical Proposal shall comprise the following documents:

S. No.	Particulars	Details to be submitted
1	Experience — Financial & Physical	Annexure - I (Format: I-1)
2	Annual Turnover	Annexure - I (Format: I-2)
3	List of technical personnel for the key positions	Annexure - I (Format: I-3)
4	List of Key equipment/ machines for quality control labs	Annexure - I (Format: I-4)
5	List of Key equipment/ machines for construction work	Annexure - I (Format: I-5)

Note:

- 1. Technical Proposal should be uploaded duly page numbered and indexed.*
- 2. Technical Proposal uploaded otherwise will not be considered.*

Annexure - I (Format: I-1)
(See clause 14 of Section 2 -ITB)

The bidder should have:

A. Financial & Physical

i. Experience of having successfully executed as prime contractor:

- a) three similar works each costing not less than the amount equal to 20% of the probable amount of contract during the last 5 years; or
- b) two similar works each costing not less than the amount equal to 30% of the probable amount of contract during the last 5 Years; or
- c) one similar work of aggregate cost not less than the amount equal to 50% of the probable amount of contract during the last 5 years.

(For Joint Ventures) Not Applicable

For the meeting the minimum qualification criteria of experience of similar nature work,

Out of 3 similar works of value more than 20% of PAC, at least 2 works must be done by lead partner and one work to be done by other partner.

Or

Out of 2 similar works of value more than 30% of PAC, at least 1(one) work must be done by lead partner and 1 (one) work to be done by other partner.

Or

In case of one similar work of value more than 50% of PAC the lead partner must satisfy the criteria. However the other partner must satisfy the criteria of least one work of 20% of PAC.

iii) The lead partner and the other partner must also meet 51% and 26% of the all qualification criteria respectively except for the requirement of work experience described in Annexure-I-1(A) . However, both the partners must satisfy the full {100%} qualification criteria jointly. For this purpose the qualification of individual partners shall be added { For Annual Average Turn Over and for Bid Capacity Only }.

To be filled in by the contractor:

- I. Details of successfully completed similar works shall be furnished in the following format
- ii. Certificate duly signed by the employer shall also be enclosed for each completed similar work.

Agreement Number & Year	Name of Work	Date of Work Order	Date of Completion	Amount of Contract	Employer's Name and Address

Existing commitments— (Value of 'C' for Bid Capacity formula)						
Agreement Number & Year	Name of Work	Date of Work Order	Date of Completion	Amount of Contract	Amount of balance work	Employer's Name and Address

B. — Physical Requirement:

~~Execution of similar items of work in any one financial year during the last 3 financial years should not be less than the minimum physical. Requirement fixed for the work.~~

S.No.	Particulars	Actual Quantity Executed (To be filled in by the contractor)		
		Year 1	Year 2	Year 3
	Physical qualification required	Yes		
1				

Note:

1. Certificate duly signed by the employer shall be enclosed for the actual quantity executed in any one year during the last 5 financial years,

Annexure-I (Format: I-2)
(See clause 14 of Section 2 -ITB)

ANNUAL TURN OVER

Requirement:

Average annual construction turnover on the construction works not less than 50% of the probable amount of contract during the last 3 financial years.

To be filled in by the contractor:

Financial Year Payments received for contracts in progress or completed

Financial Year	Payments received for contracts in progress or completed
1. 2020-2021	
2. 2021-2022	
3. 2022-2023	
4. 2023-2024	
5. 2024-2025	

Note:

- i Annual turnover from construction should be certified by the Chartered Accountant.
- ii. Audited Balance sheet including all related notes, and income statements for the above financial years as well as Income Tax Returns for the relevant years to be enclosed.

Bid Capacity

Applicants who meet the minimum qualifying criteria in the evaluation as stated above are to be evaluated further for bid capacity as under:

Bid Capacity = $(1.5A \times B) - C$ and its should be more than PAC.

Where

A = Maximum value of civil engineering works executed in any one year during the last five year (10% weightage per year shall be given to bring the value of work executed at present price level)

B = Proposed contract period in number of years prescribed for completion of the works (period up to 1 year shall be taken as one year),

C = Value at current price level of existing commitments and ongoing works to be completed in the next 'B' years.

FY	2024-25	2023-24	2022-23	2021-22	2020-21
MF	1.00	1.10	1.21	1.33	1.46

Bids shall be opened in order of their listing in one NIT. In case of bidder's participation in multiple tenders listed in one NIT, his bid capacity shall be exhausted, if found L1, in order of tenders opened. Soon after bid capacity of a bidder has exhausted, his next bid shall not be opened

Annexure - I (Format : I-3)
(See clause 14 of Section 2-ITB & Clause 6 of GCC)

List of Technical Personnel for the Key Positions³(to be referred for civil works)

The Contractor will have to appoint the following key personnel during the execution and entire contract period, apart from other key personnel and support staff as necessary.

The qualification and experience requirements are as under.

S.No.	Details	Qualification	Experience
1	Project Manager / Museum Planner	Architect / Planner / Designer	10 years
2	Exhibition / Interior Designer	Architecture / Design	7 years
3	Conservation Expert	Conservation / Archaeology / Museology	7 years
4	Content / Interpretation Expert	History / Archaeology	7 years
5	Graphic / Multimedia Designer	Design / Fine Arts	5 years
6	AV / Interactive Systems Expert	Engineering / Media Technology	5 years
7	EHS Officer	Science/Engineering	5 years

NOTE: At the time of signing of the agreement the contractor must submit the biodata of experts for above positions for the approval from USCL and shall be mobilized after the approval only.

Penalty for non-deployment of above staff are as follows:

S. No.	Details	Penalty to be computed on Per Month basis
1	Project Manager	Rs. 100,000/- p.m.
2	Other Experts	Rs. 75,000/- p.m.

Note:

1. Aforesaid personnel shall be deployed within the period starting from the date of award of contract as stipulated in the contract.
2. Approval of the superintending engineer about suitability of personnel shall be obtained before deployment.
3. The Bidder shall submit CVs of proposed personnel confirming eligibility, experience and suitability of the personnel for the project.

The Contractor shall fill the following format:

S. No	Key Positions	Qualifications	Age	Similar Work Experience	Total Work Experience	Name of Personnel	Key Position	Qualification	Similar Work Experience	Total Work Experience
1.										
2.										
3.										
4.										
5.										
6.										
7.										
Total										

Note:

1. Aforesaid personnel shall be deployed within the period starting from the date of award of contract as stipulated in the contract.
2. Approval of the superintending engineer about suitability of personnel shall be obtained before deployment.

Annexure - I (Format : I-5)

(See clause 14 of Section 2-ITB)

LIST OF EQUIPMENTS / MACHINES FOR CONSTRUCTION WORK

Not Applicable

			Available with the bidder	
S. No.	Name of Equipment/ Machinery	Quantity	Name of Equipment/ Machinery	Quantity
1	Set of I. S. sieves			
2	Atterberg Limit Apparatus			
3	Sand replacement Apparatus			
4	Crushing Strength Testing Machine			
5	Flexural Strength Testing Machine			
6	Compression Testing Machine, Capacity 50 tones.			
7	Aggregate Crushing value Apparatus			
8	Los Angeles Abrasion Machine			
9	Aggregate Impact Test Machine			
10	Concrete Batching Plant			
11	Length and Thickness Gauges			
12	Vicat apparatus for testing setting times			
13	Slump testing apparatus			
14	Needle & Plate Vibrator			
15	500gm, 10 Kg balances			
16	Length and Thickness Gauges.			
17	Electrical Oven			

Annexure — J
(See clause 14 of Section 2 -ITB)

FINANCIAL BID
(To Be Contained in Envelope-C)

NAME OF WORK _____

I/We hereby bid for the execution of the above work within the time specified at the **lumpsum item rate (in figures) _____ (in words) _____** based on the Bill of Quantities and item wise rates given therein in all respects and in accordance with the specifications, designs, drawings and instructions in writing in all respects in accordance with such conditions so far as applicable. I/We have visited the site of work and am/are fully aware of all the difficulties and conditions likely to affect carrying out the work. I/We have fully acquainted myself/ourselves about the conditions in regard to accessibility of site and quarries/kilns, nature and the extent of ground, working conditions including stacking of materials, installation of tools and plant conditions effecting accommodation and movement of labour etc. required for the satisfactory execution of contract.

Should this bid be accepted, I/We hereby agree to abide by and fulfill all the terms and provisions of the said conditions of contract annexed- hereto so far as applicable, or in default thereof to forfeit and pay to the Ujjain Smart City Limited or his successors in office the sums of money mentioned in the said conditions.

Note:

- i. Only one rate of percentage above or below or at par based on the Bill of Quantities and item wise rates .given therein shall be quoted.
- ii. Percentage shall be quoted in figures as well as in words. If any difference in figures and words is found lower of the two shall be taken as valid and correct rate. If the bidder is not ready to accept such valid and correct rate and declines to furnish performance -security and sign the agreement his earnest money deposit shall be forfeited.
- iii. In case the percentage “above” or “below” is not given by a bidder, his bid shall be treated as non-responsive.
- iv. All duties, taxes, and other levies except Goods and services tax (GST) are included in the rates (in case of Percentage Rate Bids)/ Lump sum offer (in case of Lump-sum Bids quoted by the bidder.

Signature of Bidder
Name of Bidder

The above bid is hereby accepted by me on behalf of the Ujjain Smart City Limited dated the _____ day of _____ 20_____

Signature of Officer
by whom accepted

Annexure — K
(See clause 15 of Section 2 -ITB)

MATERIALS TO BE ISSUED BY THE DEPARTMENT

Not Applicable for this contract

Annexure—L
(See clause 21 of Section 2 -ITB)

LETTER OF ACCEPTANCE (LOA)

No. _____

Dated: _____

To,
M/s. _____
(Name and address of the contractor)

Subject: _____
(Name of the work as appearing in the bid for the. work)

Dear Sir(s),
Your bid for the work mentioned above has been accepted on behalf of the Ujjain Smart City Limited at your bided amount ____ for the Bill of Quantities and item wise rates given therein.

You are requested to submit within 15 (Fifteen) days from the date of issue of this letter:

- a. The performance security/ performance guarantee of Rs. _____ (in-figures) (Rupees _____ in words only). The performance security shall be in the shape of term deposit receipt / bank guarantee of any nationalized / schedule commercial bank valid up to three months after the expiry of defects liability period.
- b. Sign the contract agreement.

Please note that the time allowed for carrying-out the work as entered in the bid is _____ months including/ excluding rainy season, shall be reckoned from the date of signing the contract agreement.

Signing the contract agreement shall be reckoned as intimation to commencement of work and no separate letter for commencement of work is required. Therefore, after signing of the agreement, you are directed to contact the Engineer-in-charge for taking the possession of site and necessary instructions to start the work.

Yours Faithfully

Executive Director
Ujjain Smart City Limited

Annexure — M
(See clause 22 of Section 2 -ITB)

FORM OF BANK GUARANTEE

Performance Security/Additional Performance Security

The Executive Director,

Ujjain Smart City Limited

Ujjain

WHEREAS:

- A. _____ [name and address of contractor] (hereinafter called the “Contractor”) and Ujjain Smart City Limited, _____, (hereinafter called the “Employer”) have entered into an agreement (hereinafter called the “Agreement”) for the Construction of **<Project name>** in the state of Madhya Pradesh on online percentage rate (the “percentage rate”) basis, subject to and in accordance with the provisions of the Agreement.
- B. The Agreement requires the Contractor to furnish a Performance Security for due and faithful performance of its obligations, under and in accordance with the Agreement, during the {Construction Period/ Defects Liability Period and Maintenance Period} (as defined in the Agreement) in a sum of Rs..... cr. (Rupees crore) (the “Guarantee Amount”).
- C. We, through our branch at (the “Bank”) have agreed to furnish this bank guarantee (hereinafter called the “Guarantee”) by way of Performance Security.

NOW, THEREFORE, the Bank hereby, unconditionally and irrevocably, guarantees and affirms as follows:

1. The Bank hereby unconditionally and irrevocably guarantees the due and faithful performance of the Contractor’s obligations during the {Construction Period/ Defects Liability Period and Maintenance Period} under and in accordance with the Agreement, and agrees and undertakes to pay to the Employer, upon its mere first written demand, and without any demur, reservation, recourse, contest or protest, and without any reference to the Contractor, such sum or sums up to an aggregate sum of the Guarantee Amount as the Employer shall claim, without the Employer being required to prove or to show grounds or reasons for its demand and/or for the sum specified therein.
2. A letter from the Employer, under the hand of an officer not below the rank of Engineer in Charge in the Ujjain Smart City Limited, that the Contractor has committed default in the due and faithful performance of all or any of its obligations under and in accordance with the Agreement shall be conclusive, final and binding on the Bank. The Bank further agrees that the Employer shall be the sole judge as to whether the Contractor is in default in due and faithful performance of its obligations during and under the Agreement and its decision that the Contractor is in default shall be final and binding on the Bank, notwithstanding any differences between the Employer and the Contractor, or any dispute between them pending before any court, tribunal, arbitrators or any other employer or body, or by the discharge of the Contractor for any reason whatsoever.
3. In order to give effect to this Guarantee, the Employer shall be entitled to act as if the Bank were the principal debtor and any change in the constitution of the Contractor and/or the

- Bank, whether by their absorption with any other body or corporation or otherwise, shall not in any way or manner affect the liability or obligation of the Bank under this Guarantee.
4. It shall not be necessary, and the Bank hereby waives any necessity, for the Employer to proceed against the Contractor before presenting to the Bank its demand under this Guarantee.
 5. The Employer shall have the liberty, without affecting in any manner the liability of the Bank under this Guarantee, to vary at any time, the terms and conditions of the Agreement or to extend the time or period for the compliance with, fulfillment and/ or three of all or any of the obligations of the Contractor contained in the Agreement or to postpone for any time, and from time to time, any of the rights and powers exercisable by the Employer against the Contractor, and either to enforce or forbear from enforcing any of the terms and conditions contained in the Agreement and/or the securities available to the Employer, and the Bank shall not be released from its liability and obligation under these presents by any exercise by the Employer of the liberty with reference to the matters aforesaid or by reason of time being given to the Contractor or any other forbearance, indulgence, act or omission on the part of the Employer or of any other matter or thing whatsoever which under any law relating to sureties and guarantors would but for this provision have the effect of releasing the Bank from its liability and obligation under this Guarantee and the Bank hereby waives all of its rights under any such law.
 6. This Guarantee is in addition to and not in substitution of any other guarantee or security now or which may hereafter be held by the Employer in respect of or relating to the Agreement or for the fulfillment, compliance and/or performance of all or any of the obligations of the Contractor under the Agreement.
 7. Notwithstanding anything contained hereinbefore, the liability of the Bank under this Guarantee is restricted to the Guarantee Amount and this Guarantee will remain in force for the period specified in paragraph 8 below and unless a demand or claim in writing is made by the Employer on the Bank under this Guarantee all rights of the Employer under this Guarantee shall be forfeited and the Bank shall be relieved from its liabilities hereunder.
 8. The Guarantee shall cease to be in force and effect on ****\$. Unless a demand or claim under this Guarantee is made in writing before expiry of the Guarantee, the Bank shall be discharged from its liabilities hereunder.
 9. The Bank undertakes not to revoke this Guarantee during its currency, except with the previous express consent of the Employer in writing and declares and warrants that it has the power to issue this Guarantee and the undersigned has full powers to do so on behalf of the Bank.
 10. Any notice by way of request, demand or otherwise hereunder may be sent by post addressed to the Bank at its above referred branch, which shall be deemed to have been duly authorised to receive such notice and to effect payment thereof forthwith, and if sent by post it shall be deemed to have been given at the time when it ought to have been delivered in due course of post and in proving such notice, when given by post, it shall be sufficient to prove that the envelope containing the notice was posted and a certificate signed by an officer of the Employer that the envelope was so posted shall be conclusive.
 11. This Guarantee shall come into force with immediate effect and shall remain in force and effect for up to the date specified in paragraph 8 above or until it is released earlier by the Employer pursuant to the provisions of the Agreement.
 12. This guarantee shall also be operatable at our..... Branch at <.....> , from whom, confirmation regarding the issue of this guarantee or extension / renewal thereof shall be

made available on demand. In the contingency of this guarantee being invoked and payment thereunder claimed, the said branch shall accept such invocation letter and make payment of amounts so demanded under the said invocation.

Signed and sealed this day of, 20..... at

SIGNED, SEALED AND DELIVERED

For and on behalf of the Bank by:

(Signature)

(Name)

(Designation)

(Code Number)

(Address)

NOTES:

- (i) The bank guarantee should contain the name, designation and code number of the officer(s) signing the guarantee.
- (ii) The address, telephone number and other details of the head office of the Bank as well as of issuing branch should be mentioned on the covering letter of issuing branch.

SECTION 3

Conditions of Contract Part - I General Conditions of Contract [GCC]

Table of Clauses of GCC

Clause No.	Particulars	Clause No.	Particulars
A. General		21	Payments for Variations and / or Extra Quantities
1	Definitions	22	No compensation for alterations in or restriction of work to be carried out.
2	Interpretations and Documents	23	No Interest Payable
3	Language and Law	24	Recovery from Contractors
4	Communications	25	Tax
5	Subcontracting	26	Check Measurements
6	Personnel	27	Termination by Engineer in Charge
7	Force Majeure	28	Payment upon Termination
8	Contractor's Risks	29	Performance Security
9	Liability For Accidents To Person	30	Security Deposit
10	Contractor to Construct the Works	31	Price Adjustment
11	Discoveries	32	Mobilization and Construction Machinery Advance
12	Dispute Resolution System	33	Secured Advance
B Time Control		34	Payments Certificates
13	Programme	E. Finishing the Contract	
14	Extension of Time	35	Completion Certificate
15	Compensation for Delay	36	final Account
16	Contractor's quoted percentage	F. Other Conditions of Contract:	
C. Quality Control		37	Currencies
17	Tests	38	Labour
18	Correction of Defects noticed during the Defect Liability Period	39	Compliance with Labour Regulations
D. Cost Control		40	Audit and Technical Examination. —
19	Variations: Change in original Specifications, Designs, Drawings etc.	41	Death or Permanent Invalidity of Contractor
20	Extra Items	42	Jurisdiction

A. General

1. DEFINITIONS

- 1.1. **Bill of Quantities:** means the priced and completed Bill of Quantities forming part of the Bid.
- 1.1 A **Chief Executive officer** (C.E.O) means Chief Executive officer , Ujjain Municipal Corporation, Ujjain
- 1.1 B **Commissioner** :means Commissioner, Ujjain Municipal Corporation, Ujjain
- ~~1.2. **Chief Engineer:** means Chief Engineer of the zone/ basin concerned:~~
- 1.3. **Completion:** means completion of the work as certified by the Engineer-in-Charge, in accordance with provisions of agreement.
- 1.4. **Contract:** means the Contract between the Employer and the Contractor to execute, complete and/or maintain the work. Agreement is synonym of Contract and carries the same meaning wherever used.
- 1.5. **Contract Data:** means the documents and other information, which comprise of the Contract.
- 1.6. **Contractor:** means a person or legal entity whose bid to carry out the work has been accepted by the Employer.
- 1.7. **Contractor's bid:** means the completed bid document submitted by the Contractor to the Employer.
- 1.8. **Contract amount:** means the amount of contract worked out on the basis of accepted bid.
- 1.9. **Completion of work:** means completion of the entire contracted work; Exhaustion of quantity of any particular item mentioned in the bid document shall not imply completion of work or any component thereof.
- 1.10. **Day:** means the calendar day.
- 1.11. **Defect:** means any part of the work not completed in accordance with the specifications included in the contract.
- 1.12. **Department:** means Ujjain Smart City Limited .
- 1.13. **Drawings:** means drawings including calculations and other information provided or approved by the Engineer-in-Charge.
- 1.14. **Employer:** means the party as defined in the Contract Data, who employs the Contractor to carry out the work. The Employer may delegate any or all functions to a person or body nominated by him for specified functions. The word Employer / Government / Department wherever used denote the Employer.
- 1.15. **Engineer:** means the person named in the Contract Data.
- 1.16. **Engineer in charge:** means the person named in the Contract Data.
- 1.17. **Equipment:** means the Contractor's machinery and vehicles brought temporarily to the Site for execution of work.
- 1.17 B **Executive Engineer:** / EE mean Executive Engineer appointed by USCL from time to time.
- 1.17 C **Executive Director** means Executive Director of , Ujjain Smart City Limited
- 1.18. **Government:** means Government of Madhya Pradesh.
- 1.19. **In Writing:** means communicated in written form and delivered against receipt.
- 1.20. **Material:** means all supplies, including consumables, used by the Contractor for incorporation in the work.
- 1.21. **Superintending Engineer:** means Superintending Engineer-in-Charge of Ujjain Smart City
- 1.22. **Stipulated period of completion:** means the period in which the Contractor is required to complete the work. The stipulated period is specified in the Contract Data.
- 1.23. **Specification:** means the specification of the work included in the Contract and any modification or addition made or approved by the Engineer-in-Charge.
- 1.24. **Start Date:** means the date of signing of agreement for the work.

- 1.25. **Sub-Contractor:** means a person or corporate body who has a Contract with the Contractor, duly authorized to carry out a part of the construction work under the Contract.
- 1.26. **Temporary Work:** means work designed, constructed, installed, and removed by the Contractor that are needed for construction or installation of the work.
- 1.27. **Tender/Bid, Tendered/Bidder:** are the synonyms and carry the same meaning where ever used. -
- 1.28. **Variation:** means any change in the work which is instructed or approved as variation under this contract.
- 1.29. **Work:** The expression “work’ or “works” where used in these conditions shall unless there be something either in the subject or context repugnant to such construction, be construed and taken to mean the work by virtue of contract, contracted to be executed, whether temporary or permanent and whether original, altered, substituted or additional,

2. INTERPRETATIONS AND DOCUMENTS

2.1 Interpretations

In the contract, except where the context requires otherwise:

- a. words indicating one gender include all genders;
- b. Words indicating the singular also include the plural and vice versa.
- c. provisions including the word “agree”, “agreed” or “agreement’ require the agreement to be recorded in writing.
- d. written” or “in writing” means hand-written, type-written, printed or electronically made, and resulting in a permanent record.

2.2 Documents Forming Part of Contract:

- 1. NIT with all amendments.
- 2. Instructions to Bidders (ITB, Bid Data Sheet with all Annexure’s)
- 3. Conditions of Contract:
 - I. Part I General Conditions of Contract and the Contract Data; with all Annexures
 - II. Part II Special Conditions of Contract.
- 4. Specifications
- 5. Drawings
- 6 Bill of Quantities
- 7. Technical and Financial Bid
- 8. Agreement, and
- 9. Any other document(s), as specified.

3. Language and Law

The language of the Contract and the law governing the Contract are stated in the Contract Data

4. Communications

All certificates, notice or instruction to be given to the Contractor by Employer/Engineer shall be sent to the address or contact details given by the Contractor in [Annexure H of ITB]. The address and contact details for communication with the Employer/Engineer shall be as per the details given in the Contract Data. Communication between parties that are referred to in the conditions shall be in writing. The notice sent by facsimile (fax) or other electronic means (email) shall also be effective on confirmation of the transmission. The notice sent by registered post or speed post shall be effective on delivery or at the expiry of the normal delivery period as undertaken by the postal service. In case of any change in address for communication, the same shall be immediately notified to Engineer-in- Charge.

5. Subcontracting

Subcontracting shall be permitted for contracts of value more than amount specified in the Contract Data with following conditions.

- a. The Contractor may subcontract up to 25 percent of the contract price with the approval of the Employer in writing, but will not assign the Contract. Subcontracting shall not alter the Contractors obligations.
- b. Following shall not form part of subcontracting:
 - I. Hiring of labour through a labour contractor.
 - II. The purchase of Materials to be incorporated in the works.
 - III. Hiring of plant & machinery.
- c. The sub-contractor will have to be registered in the appropriate category in the centralized registration system for contractors of the GoMP.

6. Personnel

- 6.1 The Contractor shall employ for the construction work and routine maintenance the technical personnel as provided in the Annexure I-3 of Bid Data Sheet if applicable. If the Contractor fails to deploy required number of technical staff, recovery as specified in the Contract Data will be made from the Contractor.
- 6.2 If the Engineer asks the Contractor to remove a person who is a member of the contractor's staff or work force, stating the reasons, the Contractor shall ensure that the person leaves the Site within three days and has no further connection with the Works in the Contract.

7. Force Majeure

- 7.1 The term "Force Majeure" means an exceptional event or circumstance:
 - (a) Which is beyond a Party's control,
 - (b) Which such Party could not reasonably have provided against before entering into the Contract
 - (c) Which, having arisen, such Party could not reasonably have avoided or overcome, and
 - (d) Which is not substantially attributable to the other Party.

Force Majeure may include, but is not limited to, exceptional events or circumstances of the kind listed below, so long as conditions (a) to (d) above are satisfied:

- i. War, hostilities (whether war be declared or not), invasion, act of foreign enemies,
 - ii. Rebellion, terrorism, sabotage by persons other than the contractor's Personnel, revolution, insurrection, military or usurped power, or civil war,
 - iii. Riot, commotion, disorder, strike or lockout by persons other than the Contractor's Personnel,
 - iv. Munitions of war, explosive materials, ionising radiation or contamination by radio-activity, except as may be attributable to the Contractor's use of such munitions, explosives, radiation or radio-activity, and
 - v. Natural catastrophes such as earthquake, hurricane, typhoon or volcanic activity.
- 7.2. In the event of either party being rendered unable by force majeure to perform any duty or discharge any responsibility arising out of the contract, the relative obligation of the party affected by such force majeure shall upon notification to the other party be suspended for the period during which force majeure event lasts. The cost and loss sustained by either party shall be borne by respective parties.
- 7.3 For the period of extension granted to the Contractor due to Force Majeure the price adjustment clause shall apply but the penalty clause shall not apply. It is clarified that this sub clause shall not give eligibility for price adjustment to contracts which are otherwise not subject to the benefit of price adjustment clause.
- 7.4 The time for performance of the relative obligation suspended by the force majeure shall stand extended by the period for which such cause lasts. Should the delay caused by force majeure exceed twelve months, the parties to the contract shall be at liberty to foreclose the contract after holding mutual discussions.

8. Contractor's Risks -

- 8.1 All risks of loss or damage to physical property and of personal injury and death which arise during and in consequence of the performance of the Contract are the responsibility of the Contractor.
- 8.2 All risks and consequences arising from the inaccuracies or falseness of the documents, drawing, designs, other documents and/or information submitted by the contractor shall be the responsibility of the Contractor alone, notwithstanding the fact that the design/ drawings or other documents have been approved by the department.

9. Liability for Accidents to Person

The contractor shall be deemed to have indemnified and saved harmless the Corporation against all action, suits, claims, demands, costs etc. arising in connection with injuries suffered by any persons employed by the contractor or his subcontractor for the works whether under the General law or under workman's compensation Act or any other statute in force at the time of dealing with the question of the liability of employees for the injuries suffered by employees and to have taken steps properly to ensure against any claim there under.

10. Contractor to Construct the Works

- 10.1 The Contractor shall construct install and maintain the Works in accordance with the Specifications and Drawings as specified in the Contract Data.
- 10.2 In the case of any class of work for which there is no such specification as is mentioned in Contract Data, such work shall be carried out in accordance with the instructions and requirement of the Engineer-in-charge.

- 10.3 The contractor shall supply and take upon himself the entire responsibility of the sufficiency of the scaffolding, timbering, machinery, tools and implements, and generally of all means used for the fulfilment of this contract whether such means may or may not be approved or recommended by the Engineer.

11. Discoveries

Anything of historical or other interest or of significant value unexpectedly discovered on the Site shall be the property of the Employer. The Contractor shall notify the Engineer of such discoveries and carry out the Engineer's instructions for dealing with them.

12. Dispute Resolution System

- 12.1 No dispute can be raised except before the Competent Authority as defined in Contract Data in writing giving full description and grounds of dispute. It is clarified that merely recording protest while accepting measurement and/or payment shall not be taken as raising a dispute.
- 12.2 No dispute can be raised after 45 days of its first occurrence. Any dispute raised after expiry of 45 days of its first occurrence shall not be entertained and the Employer shall not be liable for claims arising out of such dispute.
- 12.3 The Competent Authority shall decide the matter within 45 days.
- 12.4 Appeal against the order of the Competent Authority can be preferred within 30 days to the Appellate Authority as defined in the Contract Data. The Appellate Authority shall decide the dispute within 45 days.
- 12.5 Appeal against the order of the Appellate Authority can be preferred before the Madhya Pradesh Arbitration Tribunal constituted under Madhya Pradesh *Madhyastham Adhikaran Adhiniyam, 1983*.
- 12.6 The Contractor shall have to continue execution of the Works with due diligence notwithstanding pendency of a dispute before any authority or forum.

B. Time Control

13. Programme

- 13.1 Within the time stated in the Contract Data, the Contractor shall submit to the Engineer for approval a Programme showing the general methods arrangements, order and timing for all the activities for the construction of works.
- 13.2 The program shall be supported with all the details regarding key personnel, equipment and machinery proposed to be deployed on the works for its execution. The contractor shall submit the list of equipment and machinery being brought to site, the list of key personnel being deployed, the list of machinery/equipment being placed in field laboratory and the location of field laboratory along with the Programme.
- 13.3 An update of the Programme shall be a programme showing the actual progress achieved on each activity and the effect of the progress achieved on the timing of the remaining Works, including any changes to the sequence of the activities.
- 13.4 The Contractor shall submit to the Engineer for approval an updated Programme at intervals no longer than the period stated in the Contract Data. If the Contractor does not submit an updated Programme within this period, the Engineer may withhold the

amount stated in the Contract Data from the next payment certificate and continue to withhold this amount until the next payment after the date on which the overdue Programme has been submitted.

13.5 The Engineer's approval of the Programme shall not alter the Contractor's obligations.

14. Extension of Time

14.1. If the Contractor desires an extension of time for completion of the work on the ground of his having been unavoidably hindered in its execution or on any other grounds, he shall apply, in writing, to the Engineer-in-charge, on account of which he desires such extension. Engineer-in-Charge shall forward the aforesaid application to the Competent Authority as prescribed.

14.2 The competent authority shall grant such extension at each such occasion within a period of 30 days of receipt of application from contractor and shall not wait for finality of work. Such extensions shall be granted in accordance with provisions under clause 15 of this agreement.

14.3 In case the work is already in progress, the Contractor shall proceed with the execution of the works, including maintenance thereof, pending receipt of the decision of the competent authority as aforesaid with all due diligence.

15. Compensation for delay

15.1 The time allowed for carrying out the work, as entered in the agreement, shall be strictly observed by the Contractor.

15.2 The time allowed for execution of the contract shall commence from the date of signing of the agreement. It is clarified that the need for issue of work order is dispensed with.

15.3 In the event milestones are laid down in the Contract Data for execution of the works, the contractor shall have to ensure strict adherence to the same.

15.4 Failure of the Contractor to adhere to the timelines and/or milestones shall attract such liquidated damages as is laid down in the Contract Data.

15.5 In the event of delay in execution of the Works as per the time lines mentioned in the Contract Data the Engineer-in-charge shall retain from the bills of the Contractor amount equal to the liquidated damages leviable until the Contractor makes such delays good. However, the Engineer-in-charge shall accept bankable security in lieu of retaining such amount.

15.6 If the Contractor is given extension of time after liquidated damages have been paid, the Engineer in Charge shall correct any over payment of liquidated damages by the Contractor in the next payment certificate.

15.7 In the event the Contractor fails to make good the delay until completion of the stipulated contract period (including extension of time) the sum so retained shall be adjusted against the liquidated damages levied.

16. Contractor's quoted percentage

The Contractor's quoted percentage rate referred to in the "Bid for works" will be deducted added from/to the net amount of the bill after deducting the cost of material supplied by the department.

C. Quality Control

17. Tests

- 17.1 The Contractor shall be responsible for:
- a. Carrying out the tests prescribed in specifications, and
 - b. For the correctness of the test results, whether preformed in his laboratory or elsewhere.
- 17.2 The contractor shall have to establish field laboratory within the time specified and having such equipments as are specified in the Contract Data.
- 17.3 Failure of the Contractor to establish laboratory shall attract such penalty as is specified in the Contract Data.
- 17.4 Ten percent of the mandatory test prescribed under the specification shall be got carried out through laboratories accredited by national Accreditation Board of laboratories (NABL) By the Engineer-in-charge and the cost of such testing shall be deducted form the payments due to contractor .

18. Correction of Defects noticed during the Defect Liability Period

- 18.1 The Defect Liability Period of work in the contract shall be as per the Contract Data.
- 18.2 The Contractor shall promptly rectify all defects pointed out by the Engineer well before the end of the Defect Liability Period. The Defect Liability Period shall automatically stand extended until the defect is rectified.
- 18.3 If the Contractor has not corrected a Defect pertaining to the Defect Liability Period to the satisfaction of the Engineer, within the time specified by the Engineer, the Engineer will assess the cost of haying the Defect corrected, and the cost of correction of the Defect shall be recovered from the Performance Security or any amount due or that may become due to the contractor and other available securities.

D. COST CONTROL

19. Variations - Change in original Specifications, Designs, and Drawings etc.

- 19.1 The Engineer-in-charge shall have power to make any alterations, omissions or additions to or substitutions in the original specifications, drawings, designs and instructions, that may appear to him to be necessary during the progress of the work and the contractor shall carry out the work in accordance with any instructions which may be given to him in writing signed by the Engineer-in-charge, and such alterations, omission, additions or substitutions shall not invalidate the contract and any altered, additional or substituted work, which the contractor may be directed to do in the manner above specified, as part of the work, shall be carried out by the contractor on the same conditions in all respects on which he agrees to do the main work.
- 19.2 The time for the completion of the work shall be adjusted in the proportion that the altered, additional or substituted work bears to the original contract work and the certificate of the Engineer-in-charge shall be conclusive as to such proportion.

20. Extra items

- 20.1 All such items which are not included in the priced BOQ shall be treated as extra items.

21. Payments for Variations and / or Extra Quantities

- 21.1 The rates for such additional (Extra quantity), altered or substituted work / extra items under this clause shall be worked out in accordance with the following provisions in the irrespective order:
- a. The contractor is bound to carry out the additional (Extra quantity), work at the same rates as are specified in the contract for the work.
 - b. If the item is not in the priced BOQ and is included in the SOR of the department, the rate shall be arrived at by applying the quoted tender percentage on the SOR rate.
 - c. If the rates for the altered or substituted work are not provided in applicable SOR - such rates will be derived from the rates for a similar class (type) of work as is provided in the contract (priced BOQ) for the work.
 - d. If the rates for the altered, substituted work cannot be determined in the manner specified in the sub clause (c) above - then the rates for such composite work item shall be worked out on the basis of the concerned Schedule of Rates minus/plus the percentage quoted by the contractor.
 - e. If the rates for a particular part or parts of the item is not in the Schedule of Rates and the rates for the altered, or substituted work item cannot be determined in the manner specified in sub clause (b) to (d) above, the rate for such part or parts will be determined by the Competent Authority, as defined in the Contract Data on the basis of the rate analysis derived out of prevailing market rates when the work was done.
 - f. But under no circumstances, the contractor shall suspend the work on the plea of non-acceptability of rates on items falling under sub clause (a) to (d). In case the contractor does not accept the rate approved by the Engineer in Charge for a particular item, the contractor shall continue to carry out the item at the rates determined by the Competent Authority. The decision on the final rates payable shall be arrived at through the dispute settlement procedure.

22. No compensation for alterations in or restriction of work to be carried out.

- 22.1. If at any time after the commencement of the work, the Engineer-in-charge for any reason whatsoever, not require the whole or any part of the work as specified in the bid to be carried out the Engineer-in-charge shall give notice in writing of the fact to the Contractor and withdraw that whole or any part of the work.
- 22.2 The Contractor shall have no claim to any payments or compensation whatsoever, on account of any profit or advantage which he might have derived from the execution of work in full or on account of any loss incurred for idle men and machinery due to any alteration or restriction of work for whatsoever reason.
- 22.3 The Engineer-in-charge may supplement the work by engaging another agency to execute such portion of the work, without prejudice to his rights.

23. 'No Interest Payable

No interest shall be payable to the Contractor on any payment due or awarded by any authority.

24. Recovery from Contractors

Whenever any claim against the Contractor for the payment arises under the contract, the Department may be entitled to recover such sum by:

- (a) Appropriating, in part or whole of the Performance Security and Additional Performance Security, if any; and/or Security Deposit and / or any sums payable under the contract to the contractor.
- (b) If the amount recovered in accordance with (a) above is not sufficient, the balance sum may be recovered from any payment due to the contractor -under any other contract of the department, including the securities which become due for release.
- (c) The department shall, further have an additional right to effect recoveries as arrears of land revenue under the M.P. Land-Revenue Code.

25. Tax -

- 25.1 The rates quoted by the Contractor shall be deemed to be inclusive of the sales and other levies, duties, cess, toll, taxes of Central and State Governments, local bodies and authorities. But the GST shall be paid extra to the contractor as per rules.
- 25.2 The liability, if any, on account of quarry fees, royalties, octroi and any other taxes and duties in respect of materials actually consumed on public work, shall be borne by the Contractor.
- 25.3 Any changes in the taxes due to change in legislation or for any other reason shall not be payable to the contractor.

26. Check Measurements

- 26.1 The department reserves to itself the right to prescribe a scale of check measurement of work in general or specific scale for specific works or by other special orders.
- 26.2 Checking of measurement by superior officer shall supersede measurements by subordinate officer(s), and the former will become the basis of the payment.
- 26.3 Any over/excess payments detected, as a result of such check measurement or otherwise at any stage up to the date of completion of the defect liability period specified in this contract, shall be recoverable from the Contractor, as per clause 24 above.

27. Termination by Engineer in charge

- 27.1 If the Contractor fails to carry out any obligation under the Contract, the Engineer in Charge may by notice require the Contractor to make good the failure and to remedy it within a specified reasonable time.
- 27.2 The Engineer in Charge, shall be entitled to terminate the Contract if the Contractor
 - a) abandons the Works or otherwise plainly demonstrates the intention not to continue performance of his obligations under the Contract;
 - b) the Contractor is declared as bankrupt or goes into liquidation other than for approved reconstruction or amalgamation;
 - c) without reasonable excuse falls to comply with the notice to correct a particular defect within a reasonable period of time;
 - d) the Contractor does not maintain a valid instrument of financial security as prescribed;

- e) the Contractor has delayed the completion of the Works by such duration for which the maximum amount of liquidated damages is recoverable;
- f) If the Contractor fails to deploy machinery and equipment or personnel or set up a field laboratory as specified in the Contract Data;
- g) If the contractor, in the judgment of the Engineer in charge has engaged in corrupt or fraudulent practices in competing for or in executing the contract;
- h) Any other fundamental breaches as specified in the Contract Data.

27.3 In any of these events or circumstances, the Engineer in Charge may, upon giving 14 days' notice to the Contractor, terminate the Contract and expel the Contractor from the Site, However, in the case of sub-paragraph (b) or (g) of clause 27.2, the Engineer in Charge may terminate the Contract immediately.

27.4 Notwithstanding the above, the Engineer-in-Charge may terminate the Contract for convenience by giving notice to the Contractor.

28. Payment upon Termination

28.1 If the contract is terminated under clause 27.3, the Engineer shall issue a certificate for value of the work accepted on final measurements, less Advance Payments and Penalty as indicated in the Contract Data. The amount so arrived at shall be determined by the Engineer-in-Charge and shall be final and binding on both the parties.

28.2 Payment on termination under clause 27.4 above -

If the Contract is terminated under clause 27.4 above, the Engineer shall issue a certificate for the value of the work done, the reasonable cost of removal of Equipment, repatriation, of the Contractor's personnel employed solely on the Works, and the Contractor's costs of protecting and securing the Works and less advance payments received up to the date of the certificate, less other recoveries due in terms of the contract and less taxes due to be deducted at source as per applicable law.

28.3 If the total amount due to the Employer exceeds any payment due to the Contractor, the difference shall be recovered as per clause 24 above.

29. Performance Security

The Contractor shall have to submit, performance security and additional performance security, if any, as specified in the Bid Data Sheet at the time of signing of the contract. The contractor shall have to ensure that such performance security and additional performance security, if any remains valid for the period 'as specified in the Contract Data.

30. Security Deposit-

30.1 Security Deposit shall be deducted from each running bill at the rate as specified in the Contract Data. The total amount of Security Deposit so deducted shall not exceed the percentage of Contract Price specified in the Contract Data.

30.2 The security deposit may be replaced by equivalent amount of bank guarantee or fixed deposit receipt assigned to the Employer, with validity up to completion of Defect Liability Period/ extended Delectability Period.

30.3 The Security Deposit shall be refunded on completion of Defect Liability Period plus 3(three) Months.

31. Price Adjustment (Not Applicable for this project)

31.1 Applicability

- ~~1. Price adjustment shall be applicable only if provided for in the Contract Data.~~
- ~~2. The price adjustment clause shall apply only for the works executed from the date of signing of the agreement until the end of the initial intended completion date or extensions granted for reasons attributed to the Employer by the Engineer.~~
- ~~3. The Contractor shall not be entitled to any benefit arising from the price adjustment clause for extension in the contract period for reasons attributed to the Contractor.~~
- ~~4. In the Force Majeure event the price escalation clause shall apply.~~

31.2 Procedure

- ~~1. Contract price shall be adjusted for increase or decrease in rates and price of labor, materials, fuels and lubricants in accordance with following principles and procedures and as per formula given in the contract data.~~
- ~~2. The price adjustable shall be determined during each quarter from the formula given in the contract data.~~
- ~~3. Following expression and meaning are assigned to the work done during each quarter:
R = Total value of work during the quarter. It would include the amount of secured advance granted, if any, during the quarter, less the amount of secured advance recovered, if any during the quarter, less value of material issued by the department, if any, during the quarter.~~
- ~~4. Weightages of various components of the work shall be as per the Contract Data.~~

~~31.3 To the extent that full compensation for any rise or fall in costs to the contractor is not covered by the provisions of this or other clauses in the contract the unit rates and prices included in the contract shall be deemed to include amounts to cover the contingency of such other rise or fall in costs.~~

~~31.4 The index relevant to any quarter, for which such compensation is paid, shall be the arithmetical average of the indices relevant of the calendar month.~~

~~31.5 For the purpose of clarity it is pointed out that the price adjustment may be either positive or negative, i.e. if the price adjustment is in favour of the Employer, the same shall be recovered from the sums payable to the Contractor.~~

32. Mobilization and Construction Machinery Advance (Not Applicable to this contract)

~~32.1 Payment of advances shall be applicable if provided in the Contract Data.~~

~~32.2 If applicable, the Engineer in Charge shall make interest bearing advance payment to the contractor of the amounts stated in the Contract Data, against provision by the contractor of an unconditional Bank Guarantee in a form and by a nationalized/ scheduled banks, in the name as stated in the Contract Data in amounts equal to the advance payment. The guarantee shall remain effective until the advance payment has been repaid, but the amount of the guarantee shall be progressively reduced by the amounts repaid by the contractor.~~

~~32.3 The rate of interest chargeable shall be as per Contract Data.~~

~~32.4 The construction machinery advance, if applicable, shall be limited to 80% of the cost of construction machinery and admissible only for new construction machinery.~~

~~32.5 The advance payment shall be recovered as stated in the Contract Data by deducting proportionate amounts from payment otherwise due to the Contractor. No account shall~~

~~be taken of the advance payment or its recovery in assessing valuations of work done, variations, price adjustments, compensation events, or liquidated damages.~~

33. Secured Advance (Not Applicable to this contract)

~~33.1 Payment of Secured Advance shall be applicable if provided in the Contract Data.~~

~~33.2 If applicable, the Engineer shall make advance payment against materials intended for but not yet incorporated in the Works and against provision by the contractor of an unconditional Bank Guarantee in a form and by a nationalized/ scheduled bank, in the name as stated in the Contract Data, in amounts equal to the advance payment. The guarantee shall remain effective until the advance payment has been adjusted, but the amount of the guarantee shall be progressively reduced by the amounts adjusted by the contractor.~~

~~33.3 The amount of secured advance and conditions to be fulfilled shall be as stipulated in the Contract Data.~~

~~33.4 The Secured Advance paid shall be recovered as stated in the Contract Data.~~

34. Payment Certificates

The payment to the contractor will be as follows for construction work:

- (a) The Contractor shall submit to the Engineer monthly statements of the value of the work executed less the cumulative amount certified previously, supported with detailed measurement of the items of work executed.
- (b) The Engineer shall check the Contractor's monthly statement and certify the amount to be paid to the Contractor.
- (c) The value of work executed shall be determined, based on the measurements approved by the Engineer/ Engineer-in-charge.
- (d) The value of work executed shall comprise the value of the quantities of the items in the Bill of Quantities completed:
- (e) The value of work executed shall also include the valuation of Variations and Compensation Events.
- (f) All payments shall be adjusted for deductions for advance payment, security deposit, other recoveries in terms of contract and taxes at source as applicable under the law.
- (g) The Engineer may exclude any item certified in a previous certificate or reduce the proportion of any item previously certified in any certificate in the light of later information.
- (h) Payment of intermediate certificate shall be regarded as payments by way of advance, against the final payment and not as payments for work actually done and completed.
- (i) Intermediate payment shall not preclude the requiring of bad, unsound and imperfect or unskilled work to be removed and taken away and reconstructed or be considered as an admission of the due performance of the contractor any part thereof, in any respect or the occurring of any claim.
- (j) The payment of final bill shall be governed by the provisions of clause 36 of GCC.

E. Finishing the Contract

35. Completion Certificate

35.1 A Completion Certificate in the prescribed format in Contract Data shall be issued by the Engineer-in-Charge after physical completion of the Work.

35.2 After final payment to the Contractor a Final Completion Certificate in the prescribed format in the Contract Data shall be issued by the Engineer-in Charge.

36. Final Account

36.1 The Contractor shall supply the Engineer with a detailed account of the total amount that the Contractor considers payable for works under the Contract within 21 days of issue of certificate of physical completion of works. The Engineer shall issue a Defects Liability Certificate and certify any payment that is due to the Contractor within 45 days of receiving the Contractor's account if it is correct and complete. If the account is not correct

or complete, the Engineer shall issue within 45 days a schedule that states the scope of the corrections or additions that are necessary. If the Account is still unsatisfactory after it has been resubmitted, the matter shall be referred to the Competent Authority as defined in the Contract Data, who shall decide on the amount payable to the Contractor after hearing the Contractor and the Engineer in Charge.

- 36.2 In case the account is not received within 21 days of issue of Certificate of Completion as provided in clause 32.1 above, the Engineer shall proceed to finalize the account and issue a payment certificate within 28 days.

F. Other Conditions of Contract

37. Currencies

All payments will be made in Indian Rupees.

38. Labour

- 38.1 The Contractor shall, unless otherwise provided in the Contract, make his own arrangements for the engagement of all staff and labour, local or other, and for their payment, housing, feeding and transport.
- 38.2 The Contractor shall, if required by the Engineer, deliver to the Engineer a return in detail, in such form and at such intervals as the Engineer may prescribe, showing the staff and the numbers of the several classes of labour from time to time employed by the Contractor on the Site and such other information as the Engineer may require.

39. Compliance with Labor Regulations

- 39.1 During continuance of the Contract, the Contractor and his Sub Contractors shall abide at all times by all existing labor enactments and rules made there under, regulations, notifications and bye laws of the, State or Central Government or local authority and any other labor law (including rules), regulations, bye laws that may be passed or notification that may be issued under any labor law in future either by the State or the Central Government or the local authority. Salient features of some of the major labour laws that, are applicable to construction industry are given in the Contract Data. The Contractor shall keep the Employer indemnified in case any action is taken against the Employer by the competent authority on account of contravention of any of the provisions of any Act or rules made their under, regulations or notifications including amendments, If the Employer is caused to pay or reimburse, such amounts as may .be necessary to cause or observe, or for non-observance of the provisions stipulated in the notifications/ byelaws/ Acts/Rules / regulations including amendments, if any, on the part of the Contractor, the Engineer/Employer shall have the right to deduct from any money due to the Contractor including his amount of performance security. The Employer/Engineer shall also have right to recover from the Contractor any sum required or estimated to be required for making good the loss or damage suffered by the Employer. The employees of the Contractor and the Sub Contractor in no case shall be treated as the employees of the Employer at any point of time.

40. Audit and Technical Examination

Government shall have the right to cause an audit and technical examination of the works and the final bill of the contract including all supporting vouchers abstract etc to be made after payment of the final bill and if as a result of such audit and technical examination any sun is found to have been overpaid in respect of any work done by the contractor under the contract or any work claimed by him to have been done under the contract and found

not to; have been executed, the Contractor shall be liable to refund the amount of overpayment and it shall be lawful for Government to recover the same from him in the manner prescribed in clause 24 above and if it is found that the Contractor was paid less than what was due to him, under the contract in respect of any work executed by him under it, the amount of such under payment shall be duly paid by Government to the Contractor.

41. Death or Permanent Invalidity of Contractor

If the Contractor is an individual or a proprietary concern, partnership concern, dies during the currency of the contract or becomes permanently incapacitated, where the surviving partners are only minors, the contract shall be closed without levying any damages/compensation as provided for in clause 28.2 of the contract agreement. However, if the competent authority is satisfied about the competence of the survivors, then the competent authority shall enter into a fresh agreement for the remaining work strictly on the same terms and conditions under which the contract was awarded.

42. Jurisdiction

This contract has been entered in the State of Madhya Pradesh and its validity, construction, interpretation and legal effect shall be subjected to the courts at the place where this agreement is entered into. No other jurisdiction shall be applicable.

[End of GCC]

Contract Data

Clause reference	Particulars	Data
1.14	Employer	Executive Director on behalf of USCL, Ujjain
1.15	Engineer	Engineer Nominated by USCL
1.16	Engineer in Charge	Superintending Engineer
1.12	Stipulated period of completion	09 months (including Rainy season)
3	Language & Law of Contract	Indian Contract Act 1872
4	Address & contact details of the Contractor	As per Annexure H
	Address & contact details of the Employer/ Engineer- phone, Fax, email.	Executive Director, USCL
5	Subcontracting permitted for the Contract Value	Up to 25% by approval of employer
6	Technical Personnel to be provided the contractor— requirement, &	As per Annexure - I (Format I-3)
	Penalty, if required Technical Personnel not employed (for full time staff) . In case the part time Personnel are not deployed as per requirements the payments shall be deducted on pro Rata basis.	As defined Annexure-I
10	Specifications	As per Annexure E
	Drawings / Location	As per Annexure N
12	Competent Authority for deciding dispute under Dispute Resolution System	Chief Executive officer USCL
	Appellate Authority for deciding dispute under Dispute Resolution System	Executive Director, USCL
13	Period for submission of updated construction program	Initial Work Plan shall be submitted within Seven days of Contract signing and then shall be updated. (a) Every Three Months Or (b) At end of every Milestone, Whichever is less
	Amount to be withheld for hot submitting execution program in prescribed period	As per rule (The contractor shall submit the planned as well as executed work in file compatible with Microsoft Project)
13.1	Additional supports for ensuring	As per Annexure – W

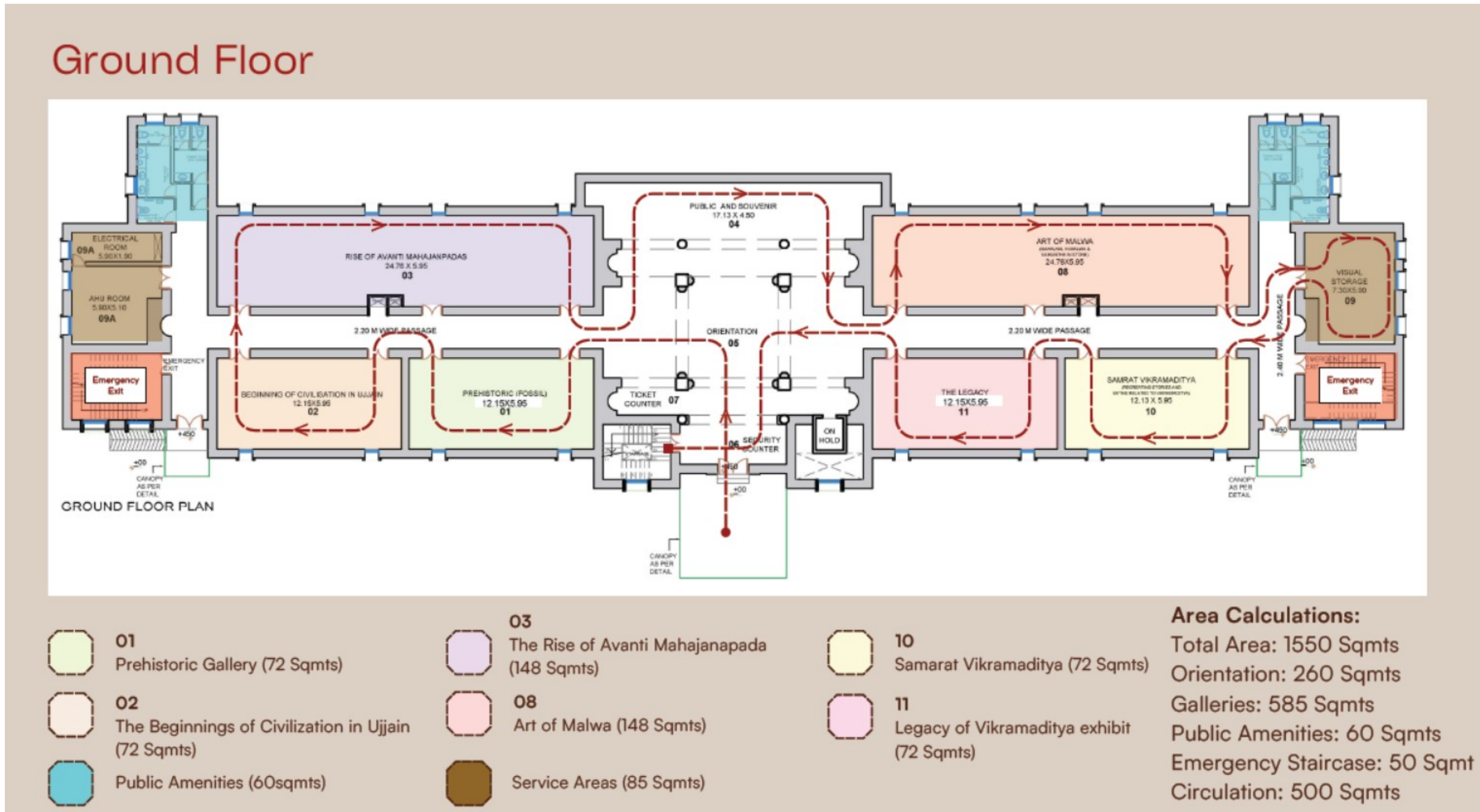
	proper Monitoring	
14	Competent Authority for granting Time Extension.	Superintending Engineer / Chief Executive Officer USCL
15	Milestones laid down for the contract	YES, Refer Scope of Work
	If Yes, details of Milestones	As per Annexure – O/ Scope of Work
	Liquidated damage	As per Annexure – P
17	List of equipment for lab	As per Annexure - Q
	Time to establish lab	30 days from the signing of Agreement.
	Penalty for not establishing field Laboratory	Not applicable
18	Defect Liability Period	<p>36 months (3 years) after physical completion of work.</p> <p>Note – in accordance with clause 18.3 (GCC), the Engineer in charge shall intimate the contractor about the cost assessed, for making good the defects, action for correction of defects shall be taken by the Engineer in Charge as below:</p> <p>a) Deploy departmental labour and material or</p> <p>b) Engage a contractor by issuing a work order at contract rate/SOR rate or</p> <p>c) Sanction supplementary work in a existing agreement to a contractor of similar other work or</p> <p>d) Invite open tender</p> <p>or</p> <p>e) Combination of above</p>
21	Competent Authority for determining the rate	Superintending Engineer, USCL
27	Any other condition for breach of contract	<p>Yes, as below:</p> <p>If the contractor fails to achieve 50 % financial progress in any milestone and/or fails to achieve 75% financial progress in two consecutive milestone</p>
28	Penalty	<p>Penalty Shall include</p> <p>(a) Security deposit as per clause 30 of General Conditions of Contract and</p> <p>(b) Liquidated Damages imposed as per clause 15</p>
29	Performance guarantee (Security) shall be valid up to	Till issue of physical Completion Certificate as per Clause 35.1 plus Defect Liability Period plus 3 months.
	Additional Performance guarantee (Security)	The Additional Performance guarantee shall be refunded on completion plus 3 Months.
30	Security Deposit to be deducted from each running bill	At the rate of 7%. of Gross amount of running bill

	Maximum limit of deduction of Security Deposit	Up to 7% of Final Contract Amount.
	30.3 Security deposit refund	50% of the security deposit (accumulated Retention Money) shall be released upon the successful completion of the project and the issuance of the Completion Certificate by USCL. The remaining 50% shall be released upon the successful completion of the Defect Liability Period and the issuance of the Final Acceptance Certificate.
31	Price Adjustment formula and procedure to calculate	Not Applicable.
31.1 (1)	Price adjustment shall be applicable	NO
32	32:1 Mobilization and Construction Machinery Advance Applicable	No Mobilization and Construction Machinery Advance shall be payable.
	32.2 If yes, Unconditional Bank Guarantee	Not Applicable
	32.3 If yes, Rate of interest chargeable on advances	Not applicable
	32.4 If yes, Type & Amount of Advance payment that can be paid	Not Applicable
	32.5 If yes, Recovery of advance payment	Not Applicable.
33	33.1 secured Advance Applicable	No Secured Advance payable.
	33.2 if yes, Unconditional Bank Guarantee	Not Applicable
	33.2 if yes, Amount of Secured Advance:	Not Applicable
	33.3 if yes, Conditions for secured advance.	Not Applicable
	33.4 if yes, Recovery of Secured advance	Not Applicable
35	Completion certificate - after physical completion of the Work	As per Annexure - U
	Final Completion Certificate — after final payment on completion of the Work	As per Annexure-V
	35.2 Final Payment	The final payment, including the release of the remaining Retention Money, shall be made only after the satisfactory conclusion of the DLP and the issuance of the Final Acceptance Certificate, confirming that the facility is functioning as per the

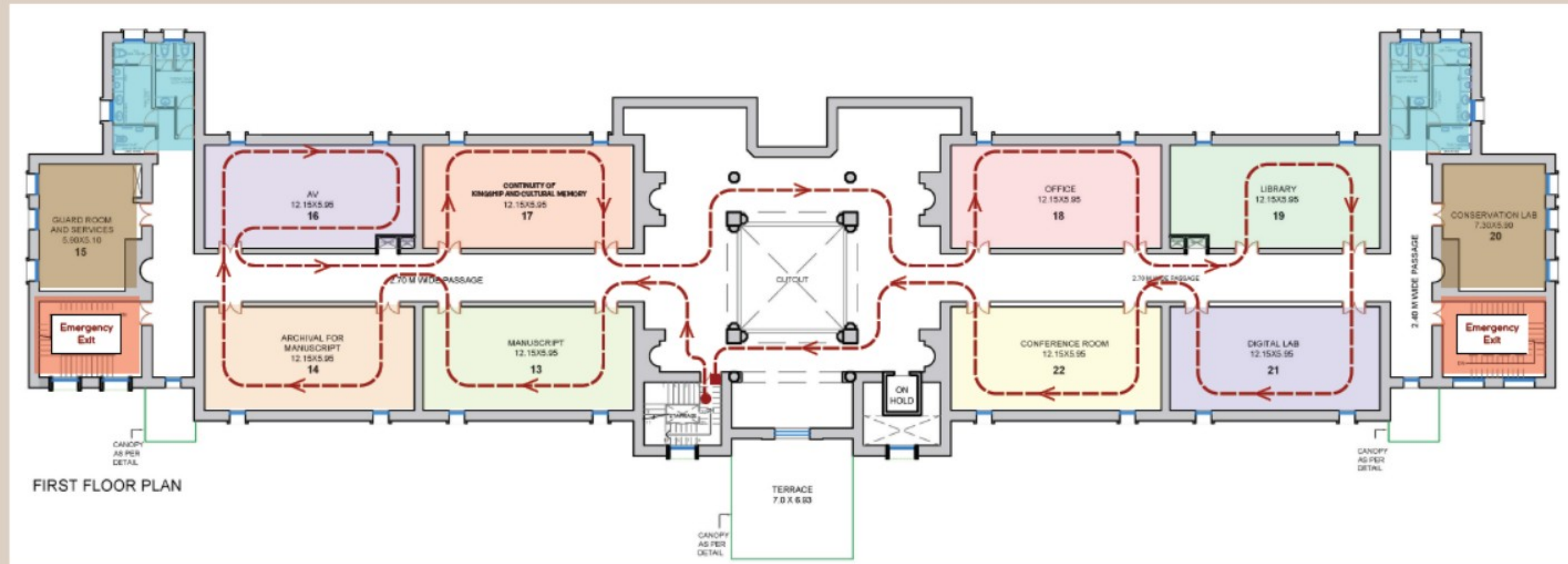
		contract specifications and CZA guidelines.
36	Competent Authority for deciding unsatisfactory Final Accounts	<i>Executive Director, USCL</i>
37	Salient features of some of the major labour laws that are applicable	As per Annexure – W

Drawings

The Concept Drawings are attached with the document.



First Floor



	13 Manuscript (72 Sqmts)		16 Audio Video (72 Sqmts)		18 Office (72 Sqmts)		21 Temporary Exhibitions Area (72 Sqmts)
	14 Archival For Manuscripts (72 Sqmts)		17 Continuity of Kingship and Cultural Memory (72 Sqmts)		19 Library (72 Sqmts)		22 Conference Room (72 Sqmts)
	Public Amenities (60 Sqmts)		Service Areas (85 Sqmts)				

Area Calculations:

Total Area: 1550 Sqmts
 Galleries: 288 Sqmts
 Public Amenities: 60 Sqmts
 Emergency Staircase: 50 Sqmt
 Circulation: 500 Sqmts
 Office Areas: 288 Sqmt

ANNEXURE—O
(See clause 15 of Section 3 -GCC)

Details of Milestones

Milestones to be followed are as under:

The time allowed for carrying out the work shall be strictly observed by the contractor and shall be deemed to be essence of the contract

The work shall throughout the stipulated period of contract be proceeded with all due diligence keeping in view that time is the essence of the contract. The contractor shall be bound in all cases to complete the following financial target:

- i. **Milestone 1:** 1/8th of the whole work before 1/4th of the whole time has elapsed
- ii. **Milestone 2:** 3/8th of the whole work before half of the whole time has elapsed
- iii. **Milestone 3:** 3/4th of the whole work before 3/4th of the whole time has elapsed
- iv. **Milestone 4:** Complete work within Stipulated time

Note: *The commencement date of the project shall be considered from the date of actual Signing date of Contract Agreement.*

ANNEXURE—P

(See clause 15 of Section 3-GCC)

Compensation for Delay

If the contractor fails to achieve the milestones, and the delay in execution of work is attributable to the contractor, the Employer shall retain an amount from the sums payable and due to the contractor as per following scale -

- i. Slippage up to 25% in financial target during the milestone under consideration 2.5% of the work remained unexecuted in the related time span.
- ii. Slippage exceeding 25% but Up to 50% in financial target during the milestone under consideration - 5% of the work remained unexecuted in the related time span.
- iii. Slippage exceeding 50% but Up to 75% in financial target during the milestone under consideration - 7.5% of the work remained unexecuted in the related time span,.
- iv. Slippage exceeding 75% in financial target during the milestone under consideration-10% of the work remained unexecuted in the related time span.

Note: *For arriving at the dates of completion of time span related to different milestones, delays which are not attributable to the Contractor shall be considered. The slippage on any milestone is if made good in subsequent milestones or at the time of stipulated period of completion, the amount retained as above shall be refunded. In case the work is not completed within the stipulated period of completion along with all such extensions which are granted to the Contractor for either Employer's default or Force Majeure, the compensation shall be levied on the contractor at the rate of 0.05% per day of delay limited to a maximum of 10% of contract price. The decision of Superintending Engineer shall be final and binding upon both the parties.*

Annexure – Q
(See clause 17 of Section 3 GCC)

List of Equipment for Quality Control Lab

Not Applicable

Suggestive list of equipment required in the field laboratory to be set up by Contractor at no additional cost to Authority.

S.No.	Equipment	Min. Nos. Required.
For Building Construction Projects		
1.	IS sieves with lid/pan: Size in mm: 100, 90, 80, 63, 53, 45, 37.5, 26.5, 19,13.2,11.2,9.5,4.75,2.8,5.6,3.35,2.36, 600 , 500, 425,355, 250, 212, 180, 150, 90, 75, 63,53,45,and 38 micron,	1 set
2.	Cube moulds 70 mm for mortar	6
3.	Cube moulds for CC 150 mm	6
4.	Compression testing machine 200t	1
5.	Electronic/digital balance 1 kg with least count of 0.01g	1
6.	Electronic / digital balance 5 kg	1
7.	Pan balance with weight box 5 kg.	1
8.	Enameled tray	6
9.	Oven (300oC) thermostatically controlled, sensitivity 1oC	1
10.	Slump cone	1
11.	First Aid Box	1
12.	Vicat Apparatus	1
13.	Room cooling equipment for temperature control	1 or 2
14.	Atterberg Limit Apparatus	1
For Road Construction Projects:		
1.	Additional -IS sieves with lid/pan: Size in mm: 125, 106, 75, 50, 40, 31.5, 25, 22.4, 20, 16, 12.5, 10, 8.6, 8, 6.7, 6.3, 4.75,2.8,5.6, 125, and 38 micron,	1set
2.	Balance 20 kg with 1 gm accuracy	1
3.	Proving ring 10kg, 50kg,100kg capacity	1 each
4.	Dial Gauge 25 mm, 50 mm travel (sensitivity 0.01 mm /division)	6 each
5.	Water bath (Electrically operated and thermostatically controlled) , water still (capacity 4 lit/hour)	1 each
6.	Thermometers: -Metallic type (Mercury in steel) with 300mm stem for near and distant readings. Glass type (mercury in glass) range of 110oC to 250oC	4 4
7.	Glassware: Flasks, beakers, Graduated cylinders, spatulas, wire gauges, scoops, steel scales, measuring tapes (30m, 15m, 5m), filter paper, glass marking pencils, heat resistant hand gloves, vernier calipers etc. Table lamp	
8.	Camber boards 3 m long	3
9.	Straight Edge 3 m long	1
10.	Thickness gauge	1
11.	Precision Level and staff, total station/theodolite	1 set each
12.	Rapid moisture meter.	1 set
13.	Liquid limit device	1
14.	Post hole auger (100 mm dia)	1
15.	Sampling Pipette 10 ml.	1
16.	B.S. Compaction apparatus	1
17.	Sand replacement equipment.	1
18.	Lab CBR equipment	1

S.No.	Equipment	Min. Nos. Required.
19.	Core 100 mm cutter.	1
20.	Flakiness and Elongation gauges	1
21.	Aggregate Impact value apparatus.	1
22.	Digging tools pickaxe, pan, axe, shovels,	LS
30.	Sieve shaker	1
31.	Steel tapes 50 m	1
32.	Steel tapes 5m	2
34.	Computer, printer , modem and internet	1 set.
35.	Others if required:	

- The contractor shall arrange to provide fully furnished and adequately equipped field laboratory with adequate qualified technical staff. Preferably located adjacent to the Project Office and provided amenities like water supply, electric supply etc.
- The laboratory equipment shall confirm I.S. specifications and MOST/MORTH/Applicable specifications. The Contractor shall carry out the calibration of the instruments as directed by the Engineer in- Charge on expiry date of calibration. On completion of work in all respect, the equipment will be the sole property of the contractor.
- It shall be considered as incidental to the work, and no extra payment will be made, what so ever, will not be made for the same.

ANNEXURE - R
(See clause 31 of Section 3 -GCC)

Price Adjustment
(Not Applicable)

The formulas for adjustment of price are as follow:

R = Value of work as defined in Clause 31.2(3) of General Conditions of Contract

Weightages* of component in the work

S.No.	Component	Percentage of Component in the work
1.	Cement - P_e	
2.	Steel - P_s	
3.	Bitumen - P_b	
4.	POL - P_f	

* Weightages of various components of the work shall be determined by the competent Technical authority.

Adjustment for cement component

(ii) Price adjustment for increase or decrease in the cost of cement procured by the contractor shall be paid in accordance with the following formula:

$$V_e = 0.85 \times P_e / 100 \times R \times (C_1 - C_0) / C_0$$

V_e = increase or decrease in the cost of work during the month under Consideration due to changes in the rates for cement.

C_0 = The all India average wholesale price index for Grey cement on the date of opening of Bids as published by the Ministry of Industrial Development, Government of India, New Delhi (www.eaindustry.nic.in)

C_1 = The all India average wholesale price Index for grey cement for the month under consideration as published by Ministry Government of India, New Delhi. (www.eaindustry.nic.in)

P_e = Percentage of cement component of the work

Note: For the application of this clause, index of Grey Cement has been chosen to represent Cement group.

Adjustment of steel component

(iii) Price adjustment for increase or decrease in the cost of steel procured by the Contractor shall be paid in accordance with the following formula:

$$V_s = 0.85 \times P_s \times R \times (S_1 - S_0) / S_0$$

V_s = Increase or decrease in the cost of work during the month under consideration due to changes in the rates for steel.

S_0 = The all India wholesale price index for steel (Bars and Rods) on the date of opening of Bids as published by the Ministry of Industrial Development, Government of India, New Delhi (www.eaindustry.nic.in)

S_1 = the all India average wholesale price index for steel (Bars and Rods) for the month under consideration as published by Ministry of Industrial Development, New Delhi (www.eaindustry.nic.in)

P_s = Percentage of steel component of the Work.

Note : For the application of this clause, index of Bars and Rods has been chosen to represent steel group.

Adjustment bitumen component

(iv) ~~Price adjustment for increase or decrease in the cost of bitumen shall be paid in accordance with the following formula:~~

~~$$V_b = 0.85 \times P_b / 100 \times R_x (B_i - B_0) / B_0$$~~

~~V_b = Increase or decrease in the cost of work during the month under consideration due to changes in rates for bitumen.~~

~~B_0 = The official retail price of bitumen of the IOC at nearest center on the date of opening of Bids.~~

~~B_i = The official retail price of bitumen of IOC at nearest center for the 15th day of the month under consideration.~~

~~P_b = Percentage of bitumen component of the work.~~

Adjustment of POL (fuel and lubricant) component

(V) ~~Price adjustment for increase or decrease in cost of POL (fuel and lubricant) shall be paid in accordance with the following formula:~~

~~$$V_f = 0.85 \times P_f / 100 \times R_x (F_i - F_0) / F_0$$~~

~~V_f = Increase or decrease in the cost of work during the month under consideration due to changes in rates for fuel and lubricant.~~

~~F_0 = the official retail price of High speed Diesel (HSD) at the existing consumer pumps of IOC at nearest center on the date of opening of Bids.~~

~~F_i = The official retail price of HSD at the existing consumer pumps of IOC at nearest center for the 15th day of month of the under consideration.~~

~~P_f = Percentage of fuel and lubricants component of the work.~~

~~Note: For the application of this clause, the price of High Speed Diesel has been chosen to represent fuel and lubricants group.~~

Annexure - S
(See clause 32 of Section 3-GCC)

Bank Guarantee Form for Mobilization and Construction Machinery Advance

Not applicable for this Contract

$$\mathbb{T}_\theta$$

_____[name of Employer]
_____[address of Employer]
_____[name of Contractor]

In accordance with the provisions of the General Conditions of Contract, clause 31 ("Mobilization and Construction Machinery Advance") of the above mentioned Contract _____ [name and address of Contractor] (hereinafter called "the Contractor")' shall deposit with _____ [name of Employer] a bank guarantee to guarantee his proper and faithful performance under the said Clause of the Contract in an amount of _____ [amount of Guarantee]* _____ [in % of Mobilization and Construction Machinery Advance]

We, the _____ (bank of financial institution) as instructed by the Contractor, agree unconditionally and irrevocably to guarantee _____ (name of contractor) as guarantor and not as surety merely, the payment to _____ (name of beneficiary) on his first demand without whatsoever right of obligation on our part and without recourse to the Contractor, in the amount not exceeding '[amount of guarantee]*' [in words].

We further agree that no change or addition to, or deletion or modification of the terms of the Contractor or Works to be performed hereunder or of any of the Contract documents which may be made between [Name of Employer] and the Contractor, shall in any way release us from any liability and this guarantee, and we hereby waive notice of any such change, addition or modification.

_____ This guarantee shall remain in full effect from the date of the advance payment under the contract until _____ [name of Employer] receives full repayment of the same amount from the Contractor.

~~Yours truly,~~

Signature and Seal: _____

Name of Bank/Financial Institution: _____

Address: _____

Date: _____

~~* An amount shall be inserted by the Bank or Financial Institution representing the amount of the Advance Payment and denominated in Indian Rupees.~~

Annexure - T
(See clause 33 of Section 3 -GCC)

Bank Guarantee Form for Secured Advance
(Not Applicable for this Contract)

INDENTURE FOR SECURED ADVANCES

_____ This indenture made the _____ day of _____ 20__ BETWEEN _____
(hereinafter called the contractor which expression shall where the context so admits or implies
be deemed to include his executors, administrators and assigns) or the one part and the
Employer of the other part.

_____ Whereas by an agreement dated _____ (hereinafter called the said agreement) the
contractor has agreed.

_____ AND WHEREAS the contractor has applied to the Employer that he may be allowed
advanced on the security of materials absolutely belonging to him and brought by him to the
site of the works the subject of the said agreement for the in- construction of such of the
works as he has undertaken to execute at a fixed price for the finished work (inclusive of the
cost of materials and labour and other charges).

_____ AND WHEREAS the Employer has agreed to advance to the Contractor the sum of
Rupees _____ on the security of materials the quantities and other
particulars of which are detailed in Accounts of Secured Advance attached to the Running
Account Bill for the said works submitted by the Contractor on _____ and the Employer has
reserved to himself the option of making any further advance or advances on the authority of
other materials brought by the Contractor to the site of the said works.

_____ Now THIS INDENTURE WITNESSETH that in pursuance of the said agreement and in
consideration of the sum of Rupees _____ on or before the execution of these presents paid
to the Contractor by the Employer (the receipt where of the Contractor doth hereby
'acknowledge) and of such further advances (if any) as may be made to him as a for said the
Contractor doth hereby covenant and agree with the President and declare as follows:

That the said sum of Rupees _____ so advanced by the Employer to

(1) _____ the Contractor as aforesaid and all or any further sum of sums advanced as aforesaid
shall be employed by the Contractor in or towards expending the execution of the said works
and for no other purpose whatsoever.

(2) _____ That the materials details in the said Account of Secured Advances which have been
offered to and accepted by the Employer as security are absolutely the Contractor's own
propriety and free from encumbrances of any kind and the contractor will not make any
application for or receive a further advance, on the security Of materials which are not
absolutely his own property and free from encumbrances of any kind and the Contractor
indemnified the Employer against all claims to any materials in respect of which an advance has
be made to him as aforesaid.

(3) _____ That the materials detailed in the said account of Secured Advances and all other
materials on the security of which any further advance or advances may here after be made as
aforesaid (hereafter called the said materials) shall be used by the Contractor solely in the
execution of the said works in accordance with the directions of the Engineer.

(4) _____ That the Contractor shall make at his own cost all necessary and adequate arrangements
for the proper watch, safe custody and protection against all risks of the said materials and that
until used in construction as aforesaid the said materials shall remain at the site of the said
works in the Contractor's custody and on his own responsibility and shall at all times be open to
inspection by the Engineer or any officer authorized by him. In the event of the said materials or
any part thereof being stolen, destroyed or damaged or becoming deteriorated in a greater

degree than is due to reasonable use and wear thereof the Contractor will forthwith replace the same with other materials of like quality or repair and make good the same required by the Engineer.

(5) — That the said materials shall not be removed from the site of the said works except with the written permission of the Engineer or an officer authorized by him on that behalf.

(6) — That the advances shall be repayable in full when or before the Contract receives payment from the Employer of the price payable to him for the said works under the terms and provisions of the said agreement. Provided that if any intermediate payments are made to the Contractor on account of work done then on the occasion of each such payment the Employer will be at liberty to make a recovery from the Contractor's bill for such payment by deducting there from the value of the said materials than actually used in the construction and in respect of which recovery has not been made previously, the value for this purpose being determined in respect of each description of materials at the rates at which the amounts of the advances made under these presents were calculated.

(7) — That if the Contractor shall at any time make any default in the performance or observance in any respect of any of the terms and provisions of the said agreement or of these presents the total amount of the advance or advances that may still be owing of the Employer shall immediately on the happening of such default were payable by the Contractor to be the Employer together with interest thereon at twelve percent per annum from the date or respective dates of such advance or advances to the date of payment and with all costs, charges, damages and expenses incurred by the Employer for the recovery thereof or the enforcement of this security or otherwise by reason of the default of the Contractor and the Contractor hereby covenants and agrees with the Employer to pay and pay the same respectively to him accordingly.

(8) — That the Contractor hereby covenants and agrees with the repayment to the Employer of the said sum of Rs. _____ and any further sum of sums advanced as aforesaid and all costs, charges, damages and expenses payable under these presents PROVIDED ALWAYS and does hereby warrant and declared that notwithstanding anything in the said agreement and without prejudice to the power contained therein if and whenever the covenant for payment of repayment here-in-before contained shall become enforceable and the money owing shall not be paid in accordance there with the Employer may at any time thereafter adopt all or any of the following courses as he may deem best:

(a) — Seize and utilize the said materials or any part thereof in the completion of the said works on behalf of the contractor in accordance with the provision in that behalf contained in the said agreement debiting the contractor with the actual cost of effecting such completion and the amount due to the contractor with the value of work done as if he had carried it out in accordance with the said agreement and at the rates thereby provided. If the balance is against the contractor, he is to pay same to the Employer on demand.

(b) — Remove and sell by public auction the seized materials or any part thereof and out of the moneys arising from the sale retain all the sums aforesaid repayable or repayable to the Employer under these presents and pay over the surplus (if any) to the Contractor.

(c) — Deduct all or any part of the moneys owing out of the security deposit or any sum due to the Contractor under the said agreement.

(9) — That except in the event of such default on the part of the contractor as aforesaid interest on the said advance shall not be payable.

(10) — That in the event of any conflict between the provisions of these presents and the said agreement the provisions of these presents shall prevail. In the event of any dispute or difference arising over the construction or effect of these presents the settlement of which has not been here-in-before expressly provided for, the same shall be referred to the Employer whose decision shall be final and the provisions of the Indian Arbitration Act for the time being in force shall apply to any such reference.

Annexure - U
(See clause 35 of Section 3 -GCC)

Physical Completion Certificate

Name of Work:

.....
.....
.....

Agreement NoDate

Amount of Contract Rs

Name of Agency

UsedMB No.

Last measurement recorded

a. Page No. &MB No.

b. Date

Certified that the above mentioned work was physically completed on(date) and taken over on(date) and that I have satisfied myself to best of my ability that the work has been done properly.

Date of issue

Executive Engineer/Engineer-in-charge
.....
.....

Annexure-V
(See clause 35 of Section 3-GCC)

Final Completion Certificate

Name of Work:

.....
.....
.....

Agreement noDate

Name of Agency:

Used MB No.

Last measurement recorded

a: Page No. & MB No.

b. Date

Certified that the above mentioned work was physically completed on(date)
and taken over on(date).

Agreemented amount Rs

Final Amount paid to contractor Rs.

Incumbency of officers for the work

I have satisfied myself to best of my ability that the work has been done properly.

Date of issue

Executive Engineer

.....
.....

Annexure - W
(See clause 39 of Section 3 -GCC)

Salient Features of Some Major Labour Laws Applicable

- a) **Workmen Compensation Act 1923** The Act provides for compensation in case of injury by accident arising out of and during the course of employment.
- b) **Payment of Gratuity Act 1972:-** Gratuity is payable to an employee under the Act on satisfaction of certain conditions on separation if an employee has completed the prescribed minimum years (say, five years) of service or more or on death the rate of prescribed minimum days'(say, 15 days) wages for every completed year of service. The Act is applicable to all establishments employing the prescribed minimum number (say, 10) or more employees.
- c) **Employees P.F. and Miscellaneous Provision Act 1952:** The Act Provides for monthly contributions by the Employer plus workers at the rate prescribed (say, 10% or 8.33%), The benefits payable under the Act are:
 - i. Pension or family pension on retirement or death as the case may be.
 - ii. Deposit linked insurance on the death in harness of the worker.
 - iii. Payment of P.F. accumulation on retirement/death etc.
- d) **Maternity Benefit Act 1951:** - The Act provides for leave and some other benefits to women employees in case of confinement or miscarriage etc.
- e) **Contract Labour (Regulation & Abolition) Act 1970:** - The Act provides for certain welfare measures to be provided by the Contractor to contract labour and in case the contractor fails to provide, the same are required to be provided, by the Principal Employer by Law.. The principal Employer is required to take certificate of Registration and the Contractor is required to take license from the designated Officer. The Act is applicable to the establishments or Contractor of Principal Employer if they employ prescribed minimum (say 20) or more contract labour.
- f) **'Minimum Wages Act 1948;** - The Employer is to pay not less than the Minimum Wages fixed by appropriate Government as per provisions of the Act if the employment is a scheduled employment. Construction of buildings, roads, runways is scheduled employment.
- g) **Payment of Wages Act 1936:** - It lays down as to by what date the wages are to be paid when it will be paid and what deductions can be made from the wages of the workers.
- h) **Equal Remuneration Act 1979:** - The Act provides for payment of equal wages for work of equal nature to male and female workers and for not making discrimination against female employees in the matters of transfers, training and promotions etc.
- l) **Payment of Bonus Act 1965:** - The Act is applicable to all establishments employing prescribed minimum (say, 20) or more workmen. The Act provides for payments of annual bonus within the prescribed range of percentage of wages to employees drawing up to the prescribed amount of wages, calculated in the prescribed manner. The Act does not apply to certain establishments. The newly set-up establishments are exempted for five years in certain circumstances. States may have different number of employment size.

j) **Industrial Disputes Act 1947:** - The Act lays down the machinery and procedure for resolution of industrial disputes, in what situations a strike or lock-out becomes illegal and what are the requirements for laying off or retrenching the employees or closing down the establishment.

k) **Industrial Employment (Standing Orders) Act 1946:** - It is applicable to all establishments employing prescribed minimum (say, 100, or 50). The Act provides for laying down rules governing the conditions of employment by the Employer on matters provided in the Act and gets these certified by the designated Authority.

l) **Trade Unions Act 1926:** - The Act lays down the procedure for registration of trade unions of workmen and Employers. The Trade Unions registered under the Act have, 'been given certain immunities from civil and criminal liabilities.

m) **Child Labour (Prohibition & Regulation) Act 1986:** - The Act prohibits employment of children below 14 years of age in certain occupations and processes and provides for regulations of employment of children in all other occupations and processes. Employment of child labour is prohibited in building and construction industry.

n) **Inter-State Migrant Workmen's (Regulation of Employment & Conditions of Service) Act 1979:** - The Act is applicable to an establishment which employs prescribed minimum (say, five) or more inter-state migrant workmen through an intermediary (who has recruited workmen in one state for employment in the establishment situated in another state). The Inter-State migrant workmen, in an establishment to which this Act becomes applicable, are required to be provided certain facilities such as Housing, Medical-Aid, Traveling expenses from home up to the establishment and back etc.

o) **The Building and Other Construction workers (Regulation of Employment and Conditions of Service) Act 1996 and the Cess Act of 1996** - All the establishments who carry on any building or other construction work and employs the prescribed minimum (say, 10) or more workers are covered under this Act. All such establishments are required to pay cess at the rate not exceeding 2% of the cost of construction as may be modified by the Government. The Employer of the establishment is required to provide safety measures at the building or construction work and other welfare measures, such as canteens, first-aid facilities, ambulance, housing accommodations for workers near the work place etc. The Employer to whom the Act applies has to obtain a registration certificate from the Registering Officer appointed by the Government.

p) **Factories Act 1948:** - The Act lays down the procedure for approval of plans before setting up a factory, health and safety provisions, welfare provisions, working hours, annual earned leave and rendering information regarding accidents or dangerous occurrences to designated authorities. It is applicable to premises employing the prescribed minimum (say, 10) persons or more with aid of power, or another prescribed minimum (say, 20) or more persons without the aid of power engaged in manufacturing process.

SECTION 4

CONDITIONS OF CONTRACT [Part II: Special Conditions of Contract (SCC)]

1. All works shall be carried out in strict accordance to the norms, procedure and specifications issued and enforced by BIS in Relevant Indian Standard specifications and code of Practices with up-to-date amendments and revisions, latest edition of National building code and National electric code. In addition, the installation shall comply in all respects with the requirements of Indian Electricity Act 1910 and Indian Electricity Rule 1956 with up-to-date amendments and revisions and special requirements if any of the M.P. State Electricity Board or Chief Electrical Advisor to Government of Madhya Pradesh cum Chief Electrical Inspector and his subordinate office.
2. The contractor shall make his own arrangements for supply of water and electricity at his expense required for execution of work. The USCL shall neither make any such arrangements nor shall make any payments in this regard.
3. The contractor has to construct at his own cost his site office and store at site on a suitable place and location as permitted by USCL. The USCL shall not provide any place or room in the building under construction for storage of equipment's required for work. No amount shall be paid to the contractor in this regard. The site office shall have also an arrangement of one room for office of Employers representatives. No additional cost shall be paid for same.
4. Proper upkeep and maintenance and safety of store and stocks of materials brought at site shall be the sole responsibility of the contractor. The materials got damaged due to negligence of its up keeping at site or due to mishandling shall have to be replaced by the contractor at his own cost. On discovery of such damages the USCL shall recover the amount paid through the running bills to the contractor and shall only be reimbursed after the replacement of the same. The USCL shall also not be responsible for theft of materials from site and the contractor has to replace all such materials at his own cost. No compensation whatsoever shall be payable to the contractor on above grounds.
5. Time being the essence of the contract, the contractor shall before drawl of agreement prepares a detail time bound work execution program which shall be approved by Engineer in charge. The contractor has to execute the work in strict accordance to the time bound execution program (The contractor shall submit the planned as well as executed work in file compatible with Microsoft Project) submitted by him, mutually agreed, approved.
6. Time schedule can be revised by the USCL for any unforeseen unavoidable reasons whatsoever. It may be necessary to stop the work at certain place due to some unavoidable reasons and restart the work at later date. Such contingencies shall not vitiate the contract and shall not be considered a ground for extra claim for any reason whatsoever. However time extension shall be allowed only for such days for which the work was stopped by USCL.
7. The contractor shall not be entitled to any compensation for any loss suffered by him on account of delay in commencement or execution for work whatever the cause of delay may be including delay arising out of other materials, supply of materials, transportation for any matter related with MPPKVV Co. Ltd. &Electrical Safety Department or any other reasons whatsoever, the USCL shall not be liable for any claim in respect thereof.
8. Rate quoted shall be applicable for works at all height unless otherwise specified in the schedule of quantities.
9. The contractor shall submit test reports of the equipment's to be supplied and drawings for approval of the Engineer in charge before supplying/Installation the equipment. The successful tenderer shall also submit the purchase bill of all items as required and directed at no cost.
10. The contractor shall have to arrange all free of cost facilities for the inspection, such as employ or material labor etc. and any fees payable to Government or any competent authority at his own cost.
11. The consultant / Contract employees appointed by USCL are authorized for following:

- a) To visit the site from time to time to inspect the quality of work.
 - b) To check / issue working drawings with specifications to the contractor.
 - c) Technically guide the contractor if required.
 - d) To accompany USCL officials for factory inspections of material if required.
12. The contractor shall be responsible for removal of all defects and shall make rectification in the work at his own cost if any at the time of handing over without any claim for compensation.
13. The contractor has to quote his rates for items in strict accordance to the list of approved make of materials. The tenderer has to ensure before filling up the rates regarding their availability and period of delivery.
14. The contractor shall note that during the execution of works there is likelihood in charge of site/ specification and change in quantities of items entered in the schedule of items for which the contractor has tendered his rates. The increase or decrease in the quantities of such items may be up to any extent and the tenderer shall not be entitled to any compensation for any loss suffered by him on account or procurement of additional quantities of such items due to such changes.
15. Time schedule may be revised by the USCL from time to time keeping in view of the approval of concepts / drawings or items or for any reasons whatsoever. It may be necessary to stop the work at certain places due to some unavoidable reasons and restart the work at later date. Such contingencies shall not vitiate the contract and shall not be considered a ground for extra claim.
16. The contractor shall not be entitled to many compensations for any loss suffered by him on account of delay in commencement or execution of work whatever the cause of delay may be including delay arising out of other materials or any reasons whatever and the USCL shall not be liable for any claim in respect thereof.
17. The Contractor shall:
- a. comply with all applicable safety regulations,
 - b. take care for the safety of all persons entitled to be on the Site,
 - c. use reasonable efforts to keep the Site and Works clear of unnecessary obstruction so as to avoid danger to the persons. provide fencing, lighting, guarding and watching of the Works until completion.
18. Provide any Temporary Works (including roadways, footways, guards and fences) which may be necessary, because of the execution of the Works, for the use and protection of the public and workers.
19. The Contractor has to ensure that the works included in this contract are done in strict accordance with all approved concepts and specifications and in accordance with manufacturer's instructions for application.
20. The site shall have to be sprinkled with water so that dust settles down. Dust control sprinkling shall have to be done several times a day during hot, dry weather depending on the site requirement.
21. Contractor shall ensure safe workplace and shall install safety signs.
22. The excavation is to be done carefully to avoid damage to underground cables and other service lines.
23. Appointment of Agency will be done on lowest rate quoted in tender, Quantity and place of work shall be decided by the authority and shall be binding to Successful bidder.
24. Order of precedence
- In a situation of contractual disputes or ambiguities the priority of documents is set out as
- a. the Contract Agreement (if any).
 - b. any Addenda / Corrigendum
 - c. the Letter of Acceptance. (if any).
 - d. the Letter of Tender. (if any).
 - e. the Particular Conditions.
 - f. General Conditions,
 - g. Site Works Instructions

- h. the Specification.
 - i. the Drawings, and
 - j. the Schedules and any other documents forming part of the Contract.
25. Extra items

All such items which are not included in the priced BOQ shall be treated as extra items.

-Not Applicable

26. COVID-19 Health and Safety Protocols

General Obligations of the Contractor:

- To take all necessary precautions to maintain the health and safety of the Contractor's Personnel.
- To ensure, in collaboration with local health authorities, access to medical help, first aid and ambulance services are available for workers/labors, as and when needed.
- Provide health and safety training/orientation on COVID19 to all workers and staff and other employees of the sub-contractor (tips on cough etiquette, hand hygiene and social distancing).
- Prepare a detailed profile of the project work force, key work activities, schedule for carrying out such activities, different durations of contract and rotations, confirmed addresses of the labor and any underlying health conditions that increases the risk of severe infection, to facilitate tracking of workers in case of COVID-19 exposure.
- All laborers to be provided with photo ID cards for accessing the construction site.
- All laborers engaged at construction site to be provided with the required Personal Protection Equipment (PPE) – safety helmet and shoes, secured harness when working at heights, electrical gloves, eye protection for welding etc., without which entry to the construction site shall not be allowed.
- In relation to COVID19, masks, adequate hand washing/ sanitization, clean drinking water and sanitation facilities to be provided at construction site.
- All workers/labor to be regularly checked for symptoms before allowing entry to the work site.
- Paid leave to be mandatorily given if labor contacts COVID-19 and/or any other contagious disease while working at the construction site or in the labor camp.

For Labour Camp:

- Contractor to provide hygienic living conditions and safe drinking water.
- Separate toilets for male and females and adequate hand washing/sanitization facilities.
- Monthly/weekly health check up to be organized at the camp for all labors/family.
- Organize awareness campaign for social distancing and general health and hygiene.

Construction Management in Upgrading of Existing Facilities:

- Maintain a roster of workers/staff at work site indicating their health condition and symptoms and ensure screening procedures (non-physical temperature measurement) at work sites.
- Depute and assign monitoring and reporting responsibilities on environmental management, health and personnel safety.
- Preventing a worker from an affected area or who has been in contact with an infected person from returning to the site for 14 days or (if that is not possible) isolating such worker for 14 days.
- Place posters and signage's at/around the site, with images and text in local languages relating to personal safety, hygiene and on COVID-19 symptoms and guidelines.
- Ensuring hand washing facilities supplied with soap, disposable paper towels and closed waste bins exist at key places throughout site, including at entrances/exits to work areas; where there is a toilet, canteen or food distribution, or provision of drinking water; in worker accommodation; at waste stations; at stores; and in common spaces.
- Segregate lunch hours at worksite of workers to maintain social distancing.
- Securing the construction site with entry only for authorized personnel and disinfecting of the worksite to be undertaken at close of work every day or as may be required.

- Any medical waste produced during the care of ill workers should be collected safely in designated containers or bags and treated and disposed of following relevant requirements (e.g., Biomedical Waste Rules-2018, WHO).

27. Coordination with other Contractors

Due to the peculiar nature and location of the project, and in view of the objective of proper laying of all utility services, and adjacent works being done by other contractors the different contractors will need to work simultaneously and ensure proper mutual coordination. EMPLOYER reserves the right to require each Contractor to schedule the order of performance of their Work in such a manner as will minimize interference with work of any of the parties involved.

28. Photographic record of works

All the processes of conservation works should be well documented before , during and after execution of the works through photographs by the contractor's team and submitted to the USCL Project regularly, supported with relevant photographs. These photographed should be saved date wise as per work description

29. Add the following Additional Clause 17.5 under C. Quality Control, 17 – Tests in GCC (General Conditions of Contract)

17.5 Third Party Inspection

17.5.1 The bidder will also facilitate third party quality control and inspections on behalf of Engineer in charge as required. All the cost of third party inspection shall be born by the contractor and the contractor shall the quote accordingly.

17.5.2 The inspection and testing of the samples from a lot will be carried out by the employer and or inspecting agency approved by the employer, in the manufacture's workshop, before application of any paint. All the tests, as required as per the IS, shall be carried out on samples from each lot (number of samples from a lot shall be as per the relevant IS for sampling and testing), in presence of the inspecting agency. The materials will be dispatched only after issue of the test certificate by the inspecting agency for satisfactory performance of the tested materials. The inspection charges for such tests shall be paid by the contractor to the inspecting agency, No Reimbursement shall be made for the same and the rates quoted for this bid shall include these costs also.

17.5.3 Ten percent (10%) of the mandatory test prescribed under the specification shall be got carried out through laboratories accredited by national Accreditation Board of laboratories (NABL) By the Engineer-in-charge and the cost of such testing shall be deducted form the payments due to contractor .

17.5.4 The supplier shall give the inspection notice before or at least 10 days prior to the last date of supply of material. The material will be dispatched by the supplier after inspection by the representative of USCL. The supplier is required to dispatch the material within 10 days from the date of acceptance of material. In case the time taken in dispatch the material exceeds 10 days, the excess period shall be counted for levy of penalty. USCL's representative will visit the manufacturer's work and witness the tests as per specifications on each type of lighting fixtures as per the samples selected by USCL's representative. The sample of the material may also be sent to the government approved NABL laboratory at the cost of supplier for any kind of specific test required by USCL. Supplier shall submit the schedule with date, time & venue of the inspection to USCL in writing for the inspection of the material. USCL is authorized to get the material tested from the approved laboratory at the supplier cost for any kind of specific test if required. The contractor needs to make arrangements for Factory Inspection at his own cost for Luminaires, Brackets. INSPECTION WILL BE CARRIED OUT AT MANUFACTURER PREMISISONLY. It will not be permitted at vendor's place.

30. The contractor may have to do only manual excavation on site. The payment for same shall be as per BOQ / UADD SOR / Other SOR
31. If any heritage structure / Article etc. is encountered / found at site during Excavation, then the work must be stopped by the contractor till its solution/ Decision. No compensation shall be given to contractor for delay caused due to stopping of work except

Annexure - Y
(See Contract Data, Point No 13.1)

PROCESS PARAMETERS -			
Sr. No.	MIS Report	Frequency of Submission	Submission Date
1	Quarterly Plan	Quarterly	7 th of every quarter ad as and when required.
2	Construction Schedule for next Quarter	Quarterly	7 th of every quarter
3	Plan vs Achievement Report - Turnover (WD Status)	Weekly	
4	Daily Progress Report/Daily Labour Report / Including Gender segregated Labour report.	Daily	-
5	Material Identification/Tracker	Process	-
6	Monthly Dia-wise Steel & Cement requirement	Monthly	1 st of every month
7	Drawing Register	Process	-
8	Fortnightly Labour Report	Fortnightly	7 th / 22 nd
9	Sub-Contractor employed Details	Process	-
10	Material Stock Report	Monthly	7 th of every month
11	Hinderance Register Copy	Monthly	7 th of every month

SECTION 5

Bill of Quantities

PREAMBLE TO BILL OF QUANTITIES (BOQ)

Name of Work: Museum Interiors, Exhibition Design & Displays at Vikram Kirti Mandir Museum, Ujjain

1. General

This Bill of Quantities (BOQ) forms an integral part of the Contract for *Museum Interiors, Exhibition Design & Displays at Vikram Kirti Mandir Museum, Ujjain* which include Design, Supply, Fabrication, Installation, Testing, Commissioning and Handover of museum interiors, exhibition galleries, displays, audio-visual systems, conservation works, and support spaces at Vikram Kirti Mandir Museum, Ujjain.

The BOQ shall be read in conjunction with:

- Scope of Work
- Technical Specifications & Standards
- Drawings, concepts and narratives
- Milestone-based payment schedule
- Conditions of Contract (GCC/SCC)

The BOQ is intended to provide a broad itemised cost framework for execution of a design-build museum project, and shall not be treated as a complete or exhaustive description of all works required for successful completion of the Project.

2. Nature of Contract & Pricing Philosophy

2.1 The Contract is a Design-Build-Install-Commission contract for museum exhibition works, where the Contractor is responsible for end-to-end delivery of functional, interpretive and conservation-compliant museum spaces.

2.2 Unless specifically stated otherwise, rates quoted against BOQ items shall be deemed to be inclusive of:

- Design development and detailing
- Prototyping, mock-ups and approvals
- All materials, consumables and hardware
- Fabrication, assembly and finishing
- Handling, lifting, internal transportation and placement
- Conservation treatment (where applicable)
- Testing, commissioning and calibration
- Documentation, training and handover

- All labour, tools, plants, scaffolding, taxes, royalties, duties, insurance, overheads and profit
- 2.3 No separate payment shall be made for incidental, auxiliary or enabling works required to make the system complete, safe and operational, even if not expressly mentioned in individual BOQ items.

3. Design, Interpretation & Content Responsibility

- 3.1 The BOQ includes items related to content creation, script writing, storyboarding, animation, VFX, SFX, voiceover, multilingual interpretation, UI/UX and software applications for galleries and orientation spaces.
- 3.2 The Contractor shall be responsible for:
- Developing content aligned with the approved interpretation framework
 - Securing approvals from USCL / PDMC / Cultural Committee
 - Revising content as required, without additional cost
- 3.3 Quantities indicated for content (e.g., seconds of animation, scripts, graphics) are indicative, and the Contractor shall ensure complete narrative delivery for each gallery as approved.

4. Exhibition Structures, Displays & AV Systems

- 4.1 BOQ items covering display cases, showcases, pedestals, panels, lighting, AV hardware, immersive sound systems and interactive displays shall be executed as museum-grade installations, compliant with conservation, safety and durability standards
- 4.2 Rates shall include:
- Structural adequacy of pedestals and mounts based on artefact weight
 - UV-filtered glass, concealed fixings, tamper-proof locking
 - Integrated lighting, wiring and control systems
 - Interface coordination with HVAC / MEP works executed under separate contracts
- 4.3 Repetition of similar items across galleries does not imply standalone execution; the Contractor shall ensure uniform quality, standardisation and seamless integration across the museum.

5. Conservation Works

- 5.1 The BOQ separately identifies conservation of manuscripts, stone sculptures, fossils and wooden fossils, measured in appropriate units.
- 5.2 Conservation items shall include:
- Condition assessment & documentation
 - Scientific, reversible treatment as per ASI / National Archives / international best practices
 - Handling, safety, protection and internal movement
 - Pre- and post-treatment records and reports
- 5.3 Conservation rates shall also be deemed to include coordination with exhibition installation, including placing conserved artefacts on approved pedestals and displays.

6. Handling of Existing Artefacts

All BOQ items shall be read together with the Scope clause requiring the Contractor to safely lift, move, conserve and reinstall existing sculptures and artefacts lying within the museum premises, using trained manpower and suitable equipment, at no additional cost beyond BOQ rates.

7. Quantities & Variations

7.1 Quantities indicated in the BOQ are indicative and based on current planning.

7.2 Actual execution may require:

- Minor variation in quantities
- Redistribution of items between galleries
- Refinement during detailed design

Such variations shall be governed by Contract conditions, and shall not entitle the Contractor to claims except as provided under the Contract.

8. Installation, Integration & Commissioning

8.1 BOQ items described as Installation & Integration / SITC / Job / LS shall be deemed to include:

- All cabling, terminations, mounting hardware
- System integration, mapping, alignment and calibration
- Testing, commissioning and performance verification
- Mock-ups, approvals and final handover

8.2 No separate payment shall be made for partial or incomplete systems.

9. Quality Assurance, Testing & Inspections

9.1 Execution of BOQ items is subject to:

- Approved Quality Assurance Plans (QAPs)
- Manufacturer's test certificates
- Third-party inspection (TPI), wherever specified

9.2 Costs of QA, testing and inspections shall be deemed included in BOQ rates.

10. Milestone-Based Payments

10.1 Payments shall be released only against approved milestones, linked to:

- Design approvals
- Fabrication progress
- Installation completion (gallery-wise)
- Commissioning and handover

10.2 Measurement under BOQ shall not by itself entitle payment unless the corresponding milestone conditions are met.

11. Completeness & No-Claim Clause

The BOQ shall be read as a whole, and the Contractor shall be responsible for delivering a fully functional, interpretive and conservation-compliant museum, irrespective of whether every minor component is expressly itemised.

No claim for additional cost or time shall be entertained on account of:

- Omissions in BOQ descriptions
- Design development requirements
- Approvals, mock-ups or revisions
- Coordination with other agencies

12. Closing Note

This BOQ is intended to facilitate transparent pricing while ensuring design excellence, conservation integrity and visitor experience, and shall be interpreted accordingly.

ABSTRACT OF COST

Name of Work: Museum Interiors, Exhibition Design & Displays at Vikram Kirti Mandir Museum, Ujjain

SNo	Description	Amount (In Rupees)
1	Gallery 1: Prehistoric	
2	Gallery 2: Beginning of Civilization in Ujjain	
3	Gallery 3: Rise of Avanti Mahajanpadas	
4	Gallery 4: Art of Malwa	
5	Gallery 5: Samrat Vikramaditya	
6	Gallery 6: The Legacy	
7	Gallery 7: Continuity of Kingship and Cultural Memory	
8	Gallery 8: Manuscripts	
9	Orientation	
10	Miscellaneous Items	
Grand Total (excluding GST)		
Total Amount in Words: Rupees		
.....		

DETAILED BILL OF QUANTITIES

Attached Separately.

SECTION 6

AGREEMENT FORM

AGREEMENT

This agreement, made on the _____ day of _____ between: _____ (name and address of Employer) (hereinafter called "the Employer") and _____ (name and address of contractor) hereinafter called "the Contractor" of the other part.

Whereas the Employer is desirous that the Contractor execute _____ (name and identification number of Contract) (hereinafter called "the Works") and the Employer has accepted the Bid by the Contractor for the execution and completion of such Works and the remedying of any defects therein, at a cost of Rs.....

NOW THIS AGREEMENT WITNESSED as follows:

1. In this Agreement, words and expression shall have the same meaning as are respectively assigned to them in the conditions of contract hereinafter referred to and they shall be deemed to form and be read and construed as part of this Agreement.
2. In consideration of the payments to be made by the Employer to the Contractor as hereinafter mentioned, the Contractor hereby covenants with the Employer to execute and complete the Works and remedy any defects therein in conformity in all aspects with the provisions of the contract.
3. The Employer hereby covenants to pay the Contractor in consideration of the execution and completion of the Works and the remedying the defects wherein Contract Price or such other Sum as may become payable under the provisions of the Contract at the times and in the manner prescribed by the Contract.
4. The following documents shall be deemed to form and be ready and construed as part of this Agreement viz.
 - i. Letter of Acceptance
 - ii. Contractor's Bid
 - iii. Condition of Contract: General and Special -
 - iv. Contract Data
 - v. - Bid Data
 - vi. Drawings
 - vii. Bill of Quantities and
 - viii. Any other documents listed in the Contract Data as forming part of the Contract.

In witnessed where of the parties there to have caused this Agreement to be executed the day and year first before written.

The Common Seal of _____ was hereunto affixed in the presence of:

Signed, Sealed and Delivered by the said _____ in the presence of:

Binding Signature of Employer _____

Binding Signature of Contractor _____

Name of Work : Design, Supply, Installation, Testing, Commissioning of Museum Galleries VIKRAM KIRTI MANDIR, UJJAIN (MP)						
Bill of Qunatities						
S.no.	Item	Description	Unit	Quantity	Rate	Amount
1	Gallery 1: Prehistoric					
1.01	Central Installation	Design, Supply, Installation, Testing, and Commissioning(S.I.T.C.) central fossil replica showcasing prehistoric Age in a space of size 5000 mm long and 2500 mm wide and minimum height of 400 mm made in F.R.P (minimum thickness of FRP 5-8mm) and wood Reinforce with Ms Steel Frame strucutre finish with paint (Wooden Finsih Paint). The fixing of the model has to be seamless, grooveless.The cost is inclusive fixtures, fittings, hardware, hanging and bolting systems, electrical, mechanical, and any other mechanism required to make it Look as orignal Replica.	nos	1.00		
1.02	Dislpay/Showcase	Design,supply, Installation, Testing, and Commissioning (S.I.T.C.) of Free Standing Floor Mounted showcase of size 1200 x 600x 1500 mm, with a base made up of a wooden pedestal of appropriate structural finish, treatment, and color . The showcase is to house actual archaeological artifacts. . The cost is inclusive 6mm Toughened Glass ,fixtures, fittings, hardware, hanging/ bolting systems, electrical, mechanical, or any other mechanism required to make it functional.	nos	3.00		
1.03	Panels	Design, Supply, installation Testing, and Commissioning (S.I.T.C.) of matte-finish projection panels (20m x 3m) on MS sub-frame with concealed fixing, seamless joints, and anti-reflective coating. Includes anchoring, joint finishing, and paint touch-ups.	Sqmt	100.00		
1.04	display	Supply, installation Testing, and Commissioning (S.I.T.C.) of display with 10-point multi-touch functionality provides a user-friendly experience Professtional with 3 year Warranty , WIFI,LAN,HDMI,Compact and slim design enables efficient use of space,inbuilt Processor : Cortex A72 1.7GHz Quad Core CPU etc. (showcasing indian map)	nos	1.00		
1.05	Mini PC	Design, Supply, installation Testing, and Commissioning (S.I.T.C.) of Mini PC, Intel NUC i7/16GB/500GB/Win 10 Pro 64bit/Wireless KM/HDMI cable Approved makes: Intel/Dell/HP/ASUS.	Nos	2.00		

1.06	Lighting and wiring	Design, Supply, installation Testing, and Commissioning of programming of integrated spotlight system to highlight exhibits during non-active states. Includes DMX/DALI-controlled dimming circuits for smooth transitions during projection sequences, concealed cabling, adjustable focus fixtures, and energy-efficient museum-grade luminaires or equivalent including wiring required.	set	1.00		
1.07	Software/Application	Supply, installation Testing, and Commissioning all the necessary tech equipments, softwares, applications, accessories, special effects or any other mechanism required to make it functional.	Job	1.00		
1.08	UI/UX	UI & UX design of the overall interaction with programme assets and animations	Job	1.00		
1.09	Content	Script	Per Sec	900		
		Survey and research for content creation	Job	1		
		Storyboarding	Per Sec	900		
		3D Animation	Per Environment	1		
		Lighting	Per Environment	1		
		VFX	Per Sec	900		
		SFX	Per Sec	900		
		Voiceover with professional dubbing	Per Sec	840		
		Multilanguage content creation as per specification mentioned	Per Sec	840		
		Internet	LS	1		
1.10	Installation and Integration	Comprehensive installation of hardware, cabling, and software systems with full integration, testing, and commissioning. Scope includes preparation of mock-ups, consultant/client approvals, alignment and calibration of equipment, and final handover after performance verification.	Job	1.00		
2	Gallery 2 Beginning Civilisation in Ujjain					

2.01	Central Installation	Design, Supply, Installation, Testing, and Commissioning(S.I.T.C.) central fossil replica showcasing city of ujjain in a space of size 5000 mm long and 2500 mm wide made in F.R.P(minimum thickness of FRP 5-8mm) and wood Reinforce with Ms Steel Frame strucutre finish with paint (Wooden Finsih Paint). The fixing of the model has to be seamless, grooveless.The cost is inclusive fixtures, fittings, hardware, hanging and bolting systems, electrical, mechanical, and any other mechanism required to make it Look as orignal Replica. plus fabrication of some other installations like pots.	nos	1.00		
2.02	Dislpay/Showcase	Design, Supply, Installation, Testing, and Commissioning (S.I.T.C.) of Free Standing Floor Mounted showcase of size 1500 x 600x 1500 mm, with a base made up of a pedestal of appropriate structure finish, treatment, and color . The showcase is to house actual archaeological artifacts. . The cost is inclusive 6mm Toughened Glass ,fixtures, fittings, hardware, hanging/ bolting systems, electrical, mechanical, or any other mechanism required to make it functional.	nos	3.00		
2.03	Panels	Design,supply, Installation, Testing, and Commissioning (SITC) of matte-finish projection panels (20m x 3m) on MS sub-frame with concealed fixing, seamless joints, and anti-reflective coating. Includes anchoring, joint finishing, and paint touch-ups.	Sqmt	100.00		
2.04	display	Supply, installation Testing, and Commissioning (S.I.T.C.) Providing and fixing of display with 10-point multi-touch functionality provides a user-friendly experience Professtional with 3 year Warranty , WIFI,LAN,HDMI,Compact and slim design enables efficient use of space,inbuilt Processor : Cortex A72 1.7GHz Quad Core CPU etc. (showcasing indian map)	nos	1.00		
2.05	Mini PC	Design, Supply, installation Testing, and Commissioning (S.I.T.C.) of Mini PC, Intel NUC i7/16GB/500GB/Win 10 Pro 64bit/Wireless KM/HDMI cable Approved makes: Intel/Dell/HP/ASUS.	Nos	1.00		
2.06	Lighting and wiring	Design, Supply, installation Testing, and Commissioning (SITC) of programming of integrated spotlight system to highlight exhibits during non-active states. Includes DMX/DALI-controlled dimming circuits for smooth transitions during projection sequences, concealed cabling, adjustable focus fixtures, and energy-efficient museum-grade luminaires or equivalent including wiring required.	set	1.00		

2.07	Software/Application	Supply, installation Testing, and Commissioning all the necessary tech equipments, softwares, applications, accessories, special effects or any other mechanism required to make it functional.	Job	1.00		
2.08	Content	Script	Per Sec	950		
		Storyboarding	Per Sec	950		
		3D Animation	Per Environment	1		
		Lighting	Per Environment	1		
		VFX	Per Sec	950		
		SFX	Per Sec	950		
		Multilanguage content creation as per specification mentioned	Per Sec	950		
		Voiceover with professional dubbing	Per Sec	900		
2.09	Installation and Integration	Comprehensive installation of hardware, cabling, and software systems with full integration, testing, and commissioning. Scope includes preparation of mock-ups, consultant/client approvals, alignment and calibration of equipment, and final handover after performance verification.	Job	1.00		
3	Gallery 3: Rise of Avanti Mahajanpadas					
3.01	Fibre Reinforced Plastic (F.R.P) Replica of Coin	Design, Supply, installation Testing, and Commissioning (D.S.I.T.C.) of a circular Fibre Reinforced Plastic (F.R.P.)(minimum thickness of FRP 5-8mm) replica model of size up to 50-200 mm diameter of a coin from Period 03 of the City Timeline of variable thickness ranging from 10 mm - 100 mm. The model's finish and color with details and motifs of the original coin in relief form. The cost is inclusive of all framework, prototyping, fixtures, hardware, hanging/ bolting system for wall/ floor mounted/ ceiling suspended, electrical, mechanical, or any other mechanism required to make it functional. The model should have stability, color as per approval, and appropriate finishing.	Job	20.00		

3.02	65" Display	Supply, installation Testing, and Commissioning (S.I.T.C.) of Diagonal Size 65",Type Edge LED BLU,Resolution 3840*2160 (4K UHD) Pixel Pitch(mm) 0.315 x 0.315,Active Display Area(mm) 1209.6(H) x 680.4(V),Brightness(Typ.): 500 nit Contrast Ratio 4,000:1 ,Viewing Angle(H/V) 178/178,Response Time(G-to-G) 8ms(Typ.),Display Colors 16.7M,Color Gamut 92% (DCI-P3, CIE 1976 Operation Hour, 24/7 Haze,25% (Without Glass),Special Features H/W: Temperature Sensor,Pivot Display, Clock Battery(168hrs Clock Keeping), Built in Speaker(10W 2ch), Video Wall Daisy Chain(HDCP2.2:4EA,HDCP1.4:7EA), IP5x Rating, Wi-Fi/BT S/W: Auto Source Switching & Recovery, LFD Home UI, Button Lock, Hot key option, Plug&Play (Initial Setting) with 5 year onsite warranty. Approved makes: - Samsung/ Christie etc. .	Nos	1.00		
3.03	Installation & Integration	Design, Supply, installation Testing, and Commissioning (DSITC)of All wiring and other Digital Projectionessary items required on site for conDigital Projection from DB to the mentioned technology item all complete with integration, mapping etc.	Job	1.00		
3.04	Software/Application	Design, Supply, installation Testing, and Commissioning all the necessary tech equipmets, softwares, applications, accessories, special effects or any other mechanism required to make it functional. .	Job	1.00		
3.05	Mini PC for Info Kisok	Supply, installation Testing, and Commissioning (S.I.T.C.) of Mini PC Controller for Kisok Intel NUC i7/16GB/500GB/Win 10 Pro 64bit/Wireless KM/HDMI cable Approved makes: Intel/Dell/HP/ASUS.	Nos	1.00		
3.06	Dislpay/Showcase	Desugn, Supply, Installation, Testing, and Commissioning (S.I.T.C.) of Free Standing Floor Mounted showcase of size 600 x 600x 900 mm, with a base made up of a wooden pedestal of appropriate finish, treatment, and color with structural metal . The showcase is to house actual archaeological artifacts. . The cost is inclusive 6mm Toughened Glass ,fixtures, fittings, hardware, hanging/ bolting systems, electrical, mechanical, or any other mechanism required to make it functional. The pedestal should be design as per the weight requirement of the artifact.showcase will include the information plaque of the artifact	nos	130.00		

3.07	Display/Showcase	Design, Supply, Installation, Testing, and Commissioning (S.I.T.C.) of Free Standing Floor Mounted showcase of size 900 x 900x 900 mm, with a base made up of a wooden pedestal of appropriate finish, treatment, and color with structural metal . The showcase is to house actual archaeological artifacts. . The cost is inclusive 6mm Toughened Glass ,fixtures, fittings, hardware, hanging/ bolting systems, electrical, mechanical, or any other mechanism required to make it functional. The pedestal should be design as per the weight requirement of the artifact. showcase will include the information plaque of the artifact	nos	20.00		
3.07	Panels	Design, Supply, fabrication, and installation of matte-finish projection panels (20m x 3m) on MS sub-frame with concealed fixing, seamless joints, and anti-reflective coating. Includes anchoring, joint finishing, and paint touch-ups.	Sqmt	200.00		
3.08	Lighting and wiring	Design, Supply, Installation, Testing, and Commissioning (DSITC) of programming of integrated spotlight system to highlight exhibits during non-active states. Includes DMX/DALI-controlled dimming circuits for smooth transitions during projection sequences, concealed cabling, adjustable focus fixtures, and energy-efficient museum-grade luminaires or equivalent including wiring required.	set	1.00		
3.09	Content	Script	Per Sec	650		
		Storyboarding	Per Sec	650		
		3D Animation	Per Environment	1		
		Lighting	Per Environment	1		
		VFX	Per Sec	650		
		SFX	Per Sec	650		
		Multilanguage content creation as per specification mentioned	Per Sec	650		
		Voiceover with professional dubbing	Per Sec	650		

3.10	Display Graphics	Design, Supply, Installation, Testing, and Commissioning (D.S.I.T.C.) of Stretch fabric Partitions (Backlit) : Providing, fixing & application of Backlit Graphic Panel fixed to the wall with necessary support also known as Silicon Edge Graphics (SEG) of 150 - 300 gsm polyester fabric(make:- Barisol,LG,Dinolax), FR rated, giving a edgeless or frameless feel made out of metal frame, and a fabric material using a UV printing process the setup to be Complete with all the necessary hardwares and graphic .The surface should be in the organic forms with necessary accessories with flexi ply . The light should be evenly lit and the provision for the programmable lighting with the auomation feature as per the design. The cost is inclusive of all necessary hardwares , LED lights, and frame work for different organic shapes .	sqm	160.00		
3.11	Sound	Supply, Installation, Testing, and Commissioning (S.I.T.C.) of Immersive sound System of leading brands for the interaction..	job	1.00		
4	Gallery 4: Art of Malwa					
4.01	65" Display	Supply, installation Testing, and Commissioning (S.I.T.C.) of Diagonal Size 65",Type Edge LED BLU,Resolution 3840*2160 (4K UHD) Pixel Pitch(mm) 0.315 x 0.315,Active Display Area(mm) 1209.6(H) x 680.4(V),Brightness(Typ.): 500 nit Contrast Ratio 4,000:1 ,Viewing Angle(H/V) 178/178,Response Time(G-to-G) 8ms(Typ.),Display Colors 16.7M,Color Gamut 92% (DCI-P3, CIE 1976 Operation Hour, 24/7 Haze,25% (Without Glass),Special Features H/W: Temperature Sensor,Pivot Display, Clock Battery(168hrs Clock Keeping), Built in Speaker(10W 2ch), Video Wall Daisy Chain(HDCP2.2:4EA,HDCP1.4:7EA), IP5x Rating, Wi-Fi/BT S/W: Auto Source Switching & Recovery, LFD Home UI, Button Lock, Hot key option, Plug&Play (Initial Setting) with 5 year onsite warranty. Approved makes: - Samsung/ Christie etc. .	Nos	1.00		
4.02	Installation & Integration	Design, Supply, installation Testing, and Commissioning (DSITC) of All wiring and other Digital Projectionessary items required on site for conDigital Projection from DB to the mentioned technology item all complete with integration, mapping etc. .	Job	1.00		

4.03	Software/Application	Design, Supply, installation Testing, and Commissioning (DSITC) all the necessary tech equipments, softwares, applications, accessories, special effects or any other mechanism required to make it functional. .	Job	1.00		
4.04	Mini PC for Info Kisok	Supply, installation Testing, and Commissioning (DSITC) (S.I.T.C.)Providing and fixing of Mini PC Controller for Kisok Intel NUC i7/16GB/500GB/Win 10 Pro 64bit/Wireless KM/HDMI cable Approved makes: Intel/Dell/HP/ASUS.	Nos	1.00		
4.05	Dislpay/Showcase	Supply, Installation, Testing, and Commissioning (S.I.T.C.) of Free Standing Floor Mounted showcase of size 600 x 600x 900 mm, with a base made up of a wooden pedestal of appropriate finish, treatment, and color with structural metal . The showcase is to house actual archaeological artifacts. . The cost is inclusive 6mm Toughened Glass ,fixtures, fittings, hardware, hanging/ bolting systems, electrical, mechanical, or any other mechanism required to make it functional. The pedestal should be design as per the weight requirement of the artifact.showcase will include the information plaque of the artifact	nos	20.00		
4.06	Panels	Supply, fabrication, and installation of matte-finish projection panels (20m x 3m) on MS sub-frame with concealed fixing, seamless joints, and anti-reflective coating. Includes anchoring, joint finishing, and paint touch-ups.	Sqmt	160.00		
4.07	Lighting and wiring	Design, Supply, Installation, Testing, and Commissioning (DSITC) of all programming of integrated spotlight system to highlight exhibits during non-active states. Includes DMX/DALI-controlled dimming circuits for smooth transitions during projection sequences, concealed cabling, adjustable focus fixtures, and energy-efficient museum-grade luminaires or equivalent including wiring required.	set	1.00		
4.08	Content	Script	Per Sec	850		
		Storyboarding	Per Sec	850		
		3D Animation	Per Environment	1		
		Lighting	Per Environment	1		

		VFX	Per Sec	850		
		SFX	Per Sec	850		
		Multilanguage content creation as per specification mentioned	Per Sec	850		
		Voiceover with professional dubbing	Per Sec	850		
4.09	Display Graphics	Design, Supply, installation Testing, and Commissioning (DSITC) of Stretch fabric Partitions (Backlit) : Providing, fixing & application of Backlit Graphic Panel fixed to the wall with necessary support also known as Silicon Edge Graphics (SEG) of 150 - 300 gsm polyester fabric(make:- Barisol,LG,Dinolax), FR rated, giving a edgeless or frameless feel made out of metal frame, and a fabric material using a UV printing process the setup to be Complete with all the necessary hardwares and graphic .The surface should be in the organic forms with necessary accessories with flexi ply . The light should be evenly lit and the provision for the programmable lighting with the auomation feature as per the design. The cost is inclusive of all necessary hardwares , LED lights, and frame work for different organic shapes .	sqm	160.00		
4.10	Sound	Supply, Installation, Testing, and Commissioning (S.I.T.C.) of Immersive sound System of leading brands for the interaction..	job	1.00		
5	Gallery 5: Samrat Vikramaditya					
5.01	65" Display	Supply, Installation, Testing, and Commissioning (S.I.T.C.) of Diagonal Size 65",Type Edge LED BLU,Resolution 3840*2160 (4K UHD) Pixel Pitch(mm) 0.315 x 0.315,Active Display Area(mm) 1209.6(H) x 680.4(V),Brightness(Typ.): 500 nit Contrast Ratio 4,000:1 ,Viewing Angle(H/V) 178/178,Response Time(G-to-G) 8ms(Typ.),Display Colors 16.7M,Color Gamut 92% (DCI-P3, CIE 1976 Operation Hour, 24/7 Haze,25% (Without Glass),Special Features H/W: Temperature Sensor,Pivot Display, Clock Battery(168hrs Clock Keeping), Built in Speaker(10W 2ch), Video Wall Daisy Chain(HDCP2.2:4EA,HDCP1.4:7EA), IP5x Rating, Wi-Fi/BT S/W: Auto Source Switching & Recovery, LFD Home UI, Button Lock, Hot key option, Plug&Play (Initial Setting) with 5 year onsite warranty. Approved makes: - Samsung/ Christie etc. .	Nos	1.00		

5.02	Installation & Integration	Design, Supply, installation Testing, and Commissioning (DSITC) of All wiring and other Digital Projectionessary items required on site for conDigital Projection from DB to the mentioned technology item all complete with integration, mapping etc. .	Job	1.00		
5.03	Software/Application	Design, Supply, installation Testing, and Commissioning (DSITC) all the necessary tech equipmets, softwares, applications, accessories, special effects or any other mechanism required to make it functional. .	Job	1.00		
5.04	Mini PC for Info Kisok	Supply, installation Testing, and Commissioning (S.I.T.C.) of Mini PC Controller for Kisok Intel NUC i7/16GB/500GB/Win 10 Pro 64bit/Wireless KM/HDMI cable Approved makes: Intel/Dell/HP/ASUS.	Nos	1.00		
5.05	Panels	Supply, fabrication, and installation of matte-finish projection panels (20m x 3m) on MS sub-frame with concealed fixing, seamless joints, and anti-reflective coating. Includes anchoring, joint finishing, and paint touch-ups.	Sqmt	160.00		
5.06	Lighting and wiring	Design, Supply, Installation, Testing, and Commissioning (DSITC) of all programming of integrated spotlight system to highlight exhibits during non-active states. Includes DMX/DALI-controlled dimming circuits for smooth transitions during projection sequences, concealed cabling, adjustable focus fixtures, and energy-efficient museum-grade luminaires or equivalent including wiring required.	set	1.00		
5.07	Content	Script	Per Sec	600		
		Storyboarding	Per Sec	600		
		3D Animation	Per Environment	1		
		Lighting	Per Environment	1		
		VFX	Per Sec	600		
		SFX	Per Sec	600		
		Multilanguage content creation as per specification mantioned	Per Sec	600		
		Voiceover with professional dubbing	Per Sec	600		

5.09	Display Graphics	Design, Supply, Installation, Testing, and Commissioning of Stretch fabric Partitions (Backlit) : Providing, fixing & application of Backlit Graphic Panel fixed to the wall with necessary support also known as Silicon Edge Graphics (SEG) of 150 - 300 gsm polyester fabric(make:- Barisol,LG,Dinolax), FR rated, giving a edgeless or frameless feel made out of metal frame, and a fabric material using a UV printing process the setup to be Complete with all the necessary hardwares and graphic .The surface should be in the organic forms with necessary accessories with flexi ply . The light should be evenly lit and the provision for the programmable lighting with the auomation feature as per the design. The cost is inclusive of all necessary hardwares , LED lights, and frame work for different organic shapes .	sqm	160.00		
5.10	Sound	Design, Supply, Installation, Testing, and Commissioning (D S.I.T.C.)of Immersive sound System of leading brands for the interaction..	job	1.00		
6	Gallery 6: The Legecy					
6.01	65" Display	Supply, Installation, Testing, and Commissioning (S.I.T.C.) of Diagonal Size 65",Type Edge LED BLU,Resolution 3840*2160 (4K UHD) Pixel Pitch(mm) 0.315 x 0.315,Active Display Area(mm) 1209.6(H) x680.4(V),Brightness(Typ.): 500 nit Contrast Ratio 4,000:1 ,Viewing Angle(H/V)178/178,Response Time(G-to-G) 8ms(Typ.),Display Colors 16.7M,Color Gamut 92% (DCI-P3, CIE 1976 Operation Hour, 24/7 Haze,25% (Without Glass),Special FeaturesH/W: Temperature Sensor,Pivot Display, Clock Battery(168hrs Clock Keeping), Built in Speaker(10W 2ch), Video Wall Daisy Chain(HDCP2.2:4EA,HDCP1.4:7EA), IP5x Rating, Wi-Fi/BT S/W: Auto Source Switching & Recovery, LFD Home UI, Button Lock, Hot key option, Plug&Play (Initial Setting) with 5 year onsite warranty. Approved makes: - Samsung/ Christie etc. .	Nos	1.00		
6.02	Installation & Integration	Design, Supply, installation Testing, and Commissioning (DSITC) of All wiring and other Digital Projectionessary items required on site for conDigital Projection from DB to the mentioned technology item all complete with integration, mapping etc. .	Job	1.00		
6.03	Software/Application	Design, Supply, installation Testing, and Commissioning (DSITC) all the neccessary tech equipments, softwares, applications, accessories, special effects or any other mechanism required to make it functional. .	Job	1.00		

6.04	Mini PC for Info Kisok	Supply, installation Testing, and Commissioning (S.I.T.C.) of Mini PC Controller for Kisok Intel NUC i7/16GB/500GB/Win 10 Pro 64bit/Wireless KM/HDMI cable Approved makes: Intel/Dell/HP/ASUS.	Nos	1.00		
6.05	Panels	Design, Supply, fabrication, and installation of matte-finish projection panels (20m x 3m) on MS sub-frame with concealed fixing, seamless joints, and anti-reflective coating. Includes anchoring, joint finishing, and paint touch-ups.	Sqmt	160.00		
6.06	Lighting and wiring	Design, Supply, Installation, Testing, and Commissioning (DSITC) of programming of integrated spotlight system to highlight exhibits during non-active states. Includes DMX/DALI-controlled dimming circuits for smooth transitions during projection sequences, concealed cabling, adjustable focus fixtures, and energy-efficient museum-grade luminaires or equivalent including wiring required.	set	1.00		
6.07	Content	Script	Per Sec	600		
		Storyboarding	Per Sec	600		
		3D Animation	Per Environment	1		
		Lighting	Per Environment	1		
		VFX	Per Sec	600		
		SFX	Per Sec	600		
		Multilanguage content creation as per specification mentioned	Per Sec	600		
		Voiceover with professional dubbing	Per Sec	600		

6.08	Display Graphics	Supply, Installation, Testing, and Commissioning (S.I.T.C.) of Stretch fabric Partitions (Backlit) : Providing, fixing & application of Backlit Graphic Panel fixed to the wall with necessary support also known as Silicon Edge Graphics (SEG) of 150 - 300 gsm polyester fabric(make:- Barisol,LG,Dinolax), FR rated, giving a edgeless or frameless feel made out of metal frame, and a fabric material using a UV printing process the setup to be Complete with all the necessary hardwares and graphic .The surface should be in the organic forms with necessary accessories with flexi ply . The light should be evenly lit and the provision for the programmable lighting with the auomation feature as per the design. The cost is inclusive of all necessary hardwares , LED lights, and frame work for different organic shapes .	sqm	160.00		
6.09	Sound	Design, Supply, Installation, Testing, and Commissioning (D S.I.T.C.)of Immersive sound System of leading brands for the interaction..	job	1.00		
6.10	Dislpay/Showcase	Design, Supply, Installation, Testing, and Commissioning of Free Standing Floor Mounted showcase of size 600 x 600x 900 mm, with a base made up of a wooden pedestal of appropriate finish, treatment, and color with structural metal . The showcase is to house actual archaeological artifacts. . The cost is inclusive 6mm Toughened Glass ,fixtures, fittings, hardware, hanging/ bolting systems, electrical, mechanical, or any other mechanism required to make it functional. The pedestal should be design as per the weight requirement of the artifact.showcase will include the information plaque of the artifact	nos	4.00		
7	Gallery 7: Continuity of Kingship and Cultural Memory					
7.01	65" Display	Supply, Installation, Testing, and Commissioning of (S.I.T.C.) of Diagonal Size 65",Type Edge LED BLU,Resolution 3840*2160 (4K UHD) Pixel Pitch(mm) 0.315 x 0.315,Active Display Area(mm) 1209.6(H) x 680.4(V),Brightness(Typ.): 500 nit Contrast Ratio 4,000:1 ,Viewing Angle(H/V) 178/178,Response Time(G-to-G) 8ms(Typ.),Display Colors 16.7M,Color Gamut 92% (DCI-P3, CIE 1976 Operation Hour, 24/7 Haze,25% (Without Glass),Special Features H/W: Temperature Sensor,Pivot Display, Clock Battery(168hrs Clock Keeping), Built in Speaker(10W 2ch), Video Wall Daisy Chain(HDCP2.2:4EA,HDCP1.4:7EA), IP5x Rating, Wi-Fi/BT S/W: Auto	Nos	1.00		

		Source Switching & Recovery, LFD Home UI, Button Lock, Hot key option, Plug&Play (Initial Setting) with 5 year onsite warranty. Approved makes: - Samsung/ Christie etc. .				
7.02	Installation & Integration	Design, Supply, installation Testing, and Commissioning (DSITC) of All wiring and other Digital Projectionessary items required on site for conDigital Projection from DB to the mentioned technology item all complete with integration, mapping etc. .	Job	1.00		
7.03	Software/Application	Design, Supply, installation Testing, and Commissioning (DSITC) all the necessary tech equipmets, softwares, applications, accessories, special effects or any other mechanism required to make it functional. .	Job	1.00		
7.04	Mini PC for Info Kisok	Supply, installation Testing, and Commissioning of Mini PC Controller for Kisok Intel NUC i7/16GB/500GB/Win 10 Pro 64bit/Wireless KM/HDMI cable Approved makes: Intel/Dell/HP/ASUS.	Nos	1.00		
7.05	Panels	Design, Supply, fabrication, and installation of matte-finish projection panels (20m x 3m) on MS sub-frame with concealed fixing, seamless joints, and anti-reflective coating. Includes anchoring, joint finishing, and paint touch-ups.	Sqmt	160.00		
7.06	Lighting and wiring	Design, Supply, Installation, Testing, and Commissioning (DSITC) of Pogramming of integrated spotlight system to highlight exhibits during non-active states. Includes DMX/DALI-controlled dimming circuits for smooth transitions during projection sequences, concealed cabling, adjustable focus fixtures, and energy-efficient museum-grade luminaires or equivalent including wiring required.	set	1.00		
7.07	Content	Script	Per Sec	800		
		Storyboarding	Per Sec	800		

		3D Animation	Per Environment	1		
		Lighting	Per Environment	1		
		VFX	Per Sec	800		
		SFX	Per Sec	800		
		Multilanguage content creation as per specification mentioned	Per Sec	700		
		Voiceover with professional dubbing	Per Sec	700		
7.08	Installation and Integration	Design, Supply, installation Testing, and Commissioning (DSITC) of All hardware, cabling, and software systems with full integration, testing, and commissioning. Scope includes preparation of mock-ups, consultant/client approvals, alignment and calibration of equipment, and final handover after performance verification.	Job	1.00		
7.09	Display Graphics	Design, Supply, installation Testing, and Commissioning (DSITC) of All Stretch fabric Partitions (Backlit) : Providing, fixing & application of Backlit Graphic Panel fixed to the wall with necessary support also known as Silicon Edge Graphics (SEG) of 150 - 300 gsm polyester fabric(make:- Barisol,LG,Dinolax), FR rated, giving a edgeless or frameless feel made out of metal frame, and a fabric material using a UV printing process the setup to be Complete with all the necessary hardwares and graphic .The surface should be in the organic forms with necessary accessories with flexi ply . The light should be evenly lit and the provision for the programmable lighting with the automation feature as per the design. The cost is inclusive of all necessary hardwares , LED lights, and frame work for different organic shapes .	sqm	160.00		
7.10	Sound	Design, Supply, Installation, Testing, and Commissioning (D S.I.T.C.)of Immersive sound System of leading brands for the interaction..	job	1.00		

7.11	Display/Showcase	Design, Supply, Installation, Testing, and Commissioning of Free Standing Floor Mounted showcase of size 1200 x 600x 900 mm, with a base made up of a wooden pedestal of appropriate finish, treatment, and color with structural metal . The showcase is to house actual archaeological artifacts. . The cost is inclusive 6mm Toughened Glass ,fixtures, fittings, hardware, hanging/ bolting systems, electrical, mechanical, or any other mechanism required to make it functional. The pedestal should be design as per the weight requirement of the artifact.showcase will include the information plaque of the artifact	nos	3.00		
8	Gallery 8: Manuscripts					
8.01	Panels	Design, Supply, fabrication, and installation of matte-finish projection panels (20m x 3m) on MS sub-frame with concealed fixing, seamless joints, and anti-reflective coating. Includes anchoring, joint finishing, and paint touch-ups.	Sqmt	160.00		
8.02	Lighting and wiring	Design, Supply, Installation, Testing, and Commissioning (DSITC) of programming of integrated spotlight system to highlight exhibits during non-active states. Includes DMX/DALI-controlled dimming circuits for smooth transitions during projection sequences, concealed cabling, adjustable focus fixtures, and energy-efficient museum-grade luminaires or equivalent including wiring required.	set	1.00		
8.03	Display Graphics	Supply, Installation, Testing, and Commissioning (S.I.T.C.) of Stretch fabric Partitions (Backlit) : Providing, fixing & application of Backlit Graphic Panel fixed to the wall with necessary support also known as Silicon Edge Graphics (SEG) of 150 - 300 gsm polyester fabric(make:- Barisol,LG,Dinolax), FR rated, giving a edgeless or frameless feel made out of metal frame, and a fabric material using a UV printing process the setup to be Complete with all the necessary hardwares and graphic .The surface should be in the organic forms with necessary accessories with flexi ply . The light should be evenly lit and the provision for the programmable lighting with the automation feature as per the design. The cost is inclusive of all necessary hardwares , LED lights, and frame work for different organic shapes .	sqm	140.00		

8.04	Dislpay/Showcase	Design, Supply, Installation, Testing, and Commissioning of (DSI.T.C.) of Free Standing Floor Mounted showcase of size 12000 x 600x 900 mm, with a base made up of a wooden pedestal of appropriate finish, treatment, and color with structural metal . The showcase is to house actual archaeological artifacts. . The cost is inclusive 6mm Toughened Glass ,fixtures, fittings, hardware, hanging/ bolting systems, electrical, mechanical, or any other mechanism required to make it functional. The pedestal should be design as per the weight requirement of the artifact.showcase will include the information plaque of the artifact	nos	4.00		
9	Orientation					
9.01	Dislpay/Showcase	Design, Supply, Installation, Testing, and Commissioning (S.I.T.C.) of Free Standing Floor Mounted showcase of size 4*4 mm, with a base made up of a structural pedestal of appropriate finish, treatment, and color . The showcase is to house actual archaeological artifacts. . The cost is inclusive 6mm Toughened Glass ,fixtures, fittings, hardware, hanging/ bolting systems, electrical, mechanical, or any other mechanism required to make it functional.	nos	1.00		
9.02	Dislpay/Showcase	Design, Supply, Installation, Testing, and Commissioning (S.I.T.C.) of Free Standing Floor Mounted showcase of size 900 x 900x 900 mm, with a base made up of a wooden pedestal of appropriate finish, treatment, and color with structural metal . The showcase is to house actual archaeological artifacts. . The cost is inclusive 6mm Toughened Glass ,fixtures, fittings, hardware, hanging/ bolting systems, electrical, mechanical, or any other mechanism required to make it functional. The pedestal should be design as per the weight requirement of the artifact.showcase will include the information plaque of the artifact	nos	3.00		
9.03	Panels	Supply, fabrication, and installation of matte-finish projection panels (20m x 3m) on MS sub-frame with concealed fixing, seamless joints, and anti-reflective coating. Includes anchoring, joint finishing, and paint touch-ups.	Sqmt	80.00		
9.04	display	Design, Supply, Installation, Testing, and Commissioning of (S.I.T.C.) of display with 10-point multi-touch functionality provides a user-friendly experience Professtional with 3 year Warranty , WIFI,LAN,HDMI,Compact and slim design enables efficient use of space,inbuilt Processor : Cortex A72 1.7GHz Quad Core CPU etc. (showcasing indian map)	nos	1.00		

9.05	Mini PC	Supply, installation Testing, and Commissioning of (S.I.T.C.) of Mini PC, Intel NUC i7/16GB/500GB/Win 10 Pro 64bit/Wireless KM/HDMI cable Approved makes: Intel/Dell/HP/ASUS.	Nos	2.00		
9.06	Lighting and wiring	Design, Supply, Installation, Testing, and Commissioning (DSITC) of programming of integrated spotlight system to highlight exhibits during non-active states. Includes DMX/DALI-controlled dimming circuits for smooth transitions during projection sequences, concealed cabling, adjustable focus fixtures, and energy-efficient museum-grade luminaires or equivalent including wiring required.	set	1.00		
9.07	Software/Application	all the necessary tech equipments, softwares, applications, accessories, special effects or any other mechanism required to make it functional.	Job	1.00		
9.08	Content	Script	Per Sec	600		
		Storyboarding	Per Sec	600		
		3D Animation	Per Environment	1		
		Lighting	Per Environment	1		
		VFX	Per Sec	600		
		SFX	Per Sec	600		
		Multilanguage content creation as per specification mentioned	Per Sec	550		
		Voiceover with professional dubbing	Per Sec	550		
9.09	Information Panel	Supply, fabrication, and installation of matte-finish projection panels (4.5m x 2m) on MS sub-frame with concealed fixing, seamless joints, and anti-reflective coating. Includes anchoring, joint finishing, and paint touch-ups showcasing details of each galleries	job	8.00		
9.10	Installation and Integration	Design, Supply, installation Testing, and Commissioning (DSITC) of all hardware, cabling, and software systems with full integration, testing, and commissioning. Scope includes preparation of mock-ups, consultant/client approvals, alignment and calibration of equipment, and final handover after performance verification.	Job	1.00		

10	Miscellaneous Items	
10.1	<p>Curator Room</p> <p>Design, Supply, installation Testing, and Commissioning (DSITC) of Setting up of Curator Room with furniture and interior finishing, including preparation of detailed layout and shop drawings and execution as per approved drawings and directions of Engineer-in-Charge, comprising the following works: Providing and applying interior acrylic emulsion paint of approved shade and make over putty-finished surfaces, including preparation of surface, minimum two coats, complete as per CPWD DSR specifications. Providing and fixing false ceiling of 12.5 mm thick gypsum board conforming to IS:2095, fixed to GI framework of 0.55 mm thick galvanised steel sections suspended from RCC slab with dash fasteners, including jointing, finishing, cut-outs for light fittings and access panels, complete as per CPWD DSR. Providing and laying vitrified floor tiles of minimum 8 mm thickness, conforming to IS:15622, of approved shade and make, laid over adhesive and including matching skirting, complete. Providing, fabricating and fixing custom-made curator table/workstation using 19 mm thick BWR grade plywood conforming to IS:303, finished with 1.0 mm thick decorative laminate on exposed surfaces and balancing laminate on internal faces, including drawer units, storage, keyboard tray, cable management grommets and approved hardware, complete. Providing and placing high-back ergonomic executive chair with adjustable height, backrest and armrest, and visitor chairs with cushioned seat and back, complete. Providing and fixing storage units including lockable filing cabinets, pedestal units and bookshelves fabricated from 18–19 mm thick BWR plywood conforming to IS:303 or CRCA steel sheet (minimum 0.9 mm thick), finished with approved laminate/paint, including shelves, locks and handles, complete. Providing internal electrical installation including concealed copper wiring in PVC conduits, modular switches and sockets of approved make, including 6A and 16A points, data points, LED panel lights/downlights, complete as per CPWD DSR and IE Rules, including testing and commissioning. Providing and fixing window blinds/curtains of approved fabric and shade, pin-up/notice board with fabric finish and aluminium frame, and standard door hardware including handles and hinges, complete. The rate shall include cost of all materials, labour, tools, plants, scaffolding, transportation, taxes, leads,</p>	<p>Job</p> <p>1.00</p>

	lifts and incidentals, complete in all respects, as per CPWD DSR 2024/2025 and directions of Engineer-in-Charge.			
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10.2	Additional Services	<p>Design, Supply, installation Testing, and Commissioning (DSITC) of Setting up of Ticket Counter, Information Desk, Security Check-in Desk and Souvenir Shop, including interior finishing, furniture and basic services, complete, as per approved drawings and directions of Engineer-in-Charge, comprising the following works:</p> <p>Providing and applying interior acrylic emulsion paint of approved shade and make over putty-finished surfaces, including preparation of surface and minimum two coats, complete as per CPWD DSR specifications. Providing and fixing false ceiling of 12.5 mm thick gypsum board conforming to IS:2095, fixed on GI framework of 0.55 mm thick galvanised steel sections suspended from RCC slab, including jointing, finishing, cut-outs for lighting fixtures and access panels, complete. Providing and laying vitrified floor tiles of minimum 8 mm thickness conforming to IS:15622, of approved shade and make, laid over adhesive including matching skirting, complete.</p> <p>Providing, fabricating and fixing custom-made counters and desks including ticket counter, information desk and security check-in desk, using 19 mm thick BWR grade plywood conforming to IS:303, finished with 1.0 mm thick decorative laminate on exposed surfaces and balancing laminate on internal faces, including transaction counter top, staff working surface, lockable drawers, storage shelves, cable management provisions and approved hardware, complete.</p> <p>Providing and fixing souvenir shop display and sales furniture, including display racks, wall-mounted shelves, counter units and storage cabinets, fabricated from 18–19 mm thick BWR plywood conforming to IS:303 or laminated MDF boards, finished with approved laminate, including adjustable shelving, concealed fixings and locks, complete.</p> <p>Providing and fixing safety glass panels (if required) at ticket counter using 12 mm thick toughened clear glass conforming to IS:2553, fixed with SS fittings, complete.</p> <p>Providing internal electrical installation including concealed copper wiring in PVC conduits, modular switches and sockets of approved make, LED panel lights / downlights, power points for computers, scanners, ticketing machines, CCTV and security equipment, complete as per CPWD DSR and IE Rules, including testing and commissioning.</p> <p>Providing and fixing standard accessories including signage panels, queue</p>	job	1.00		
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	<p>management railing provisions (excluding movable barricades), pin-up/notice boards, and basic door hardware, complete.</p> <p>The rate shall include cost of all materials, labour, tools, plants, scaffolding, transportation, wastage, taxes, leads and lifts, testing and commissioning, complete in all respects, as per CPWD DSR 2024/2025 and directions of Engineer-in-Charge.</p>				
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10.3	AV Room	<p>Design, supply, fabrication, installation and commissioning of a 50-seater Theme-Based Audio-Visual (AV) / Movie Experience Room, intended for visitor orientation, heritage interpretation and educational screenings, complete in all respects, as per approved concept, drawings, specifications and directions of Engineer-in-Charge / Smart City SPV, comprising the following:</p> <p>1. Civil & Interior Finishes: Providing surface preparation and application of interior acrylic emulsion paint of approved shade and make over putty-finished plastered surfaces, minimum two coats, complete. Providing and fixing false ceiling using 12.5 mm thick gypsum boards conforming to IS:2095, fixed on GI framework (0.55 mm thick galvanised sections) suspended from RCC slab with dash fasteners, including jointing, finishing, cut-outs for lighting fixtures, access panels and coordination with AV and acoustic elements, complete.</p> <p>2. Acoustic Treatment (Critical for AV Room): Providing and fixing wall and ceiling acoustic treatment comprising: Fabric-wrapped acoustic panels / perforated gypsum boards Backed with minimum 40 mm thick mineral wool (48 kg/m³ density) NRC ≥ 0.7 for speech and movie clarity Fixed on GI framework with vapour barrier where required, Complete acoustic lining on minimum 60–70% of wall surface and selected ceiling zones, as per approved acoustic layout.</p> <p>3. Flooring: Providing and laying acoustic-friendly flooring using carpet tiles / vinyl flooring, minimum 6–8 mm thick, with underlay and skirting, suitable for auditorium use, complete.</p> <p>4. Seating (50 Nos.): Providing and fixing 50 numbers of theatre-type cushioned chairs, comprising: MS powder-coated frame with floor-mounted anchoring High-density moulded PU foam seat and back Upholstery in fire-retardant fabric conforming to IS:15061 Armrests with cup-holder (optional), Row spacing min. 900–1000 mm for comfort and circulation Complete in all respects, arranged as per approved seating layout.</p> <p>5. AV Infrastructure (Passive Systems): Providing and fixing AV infrastructure including: Motorised / fixed projection screen (min. 180–220 inches diagonal) Ceiling-mounted projector bracket (heavy-duty MS), Wall-mounted AV equipment rack / control cabinet with ventilation, Concealed PVC/GI conduits and cable trays for AV, HDMI, speaker and control wiring (Note: Active AV equipment such as projector, sound system, server, control processor shall be measured and paid separately unless specified.)</p> <p>6. Electrical & Lighting: Providing internal electrical installation including: Concealed</p>	job	1.00			
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	<p>FRLS copper wiring in PVC conduits, Modular switches & sockets (approved make), Dedicated power points for projector, amplifiers, server and control desk , Dimmable LED downlights / wall washers suitable for auditorium use Emergency lighting and aisle lights Complete including testing and commissioning, as per IE Rules and CPWD/Smart City norms.7. Thematic & Interpretive Elements: Providing and fixing theme-based interior elements including: Graphic wall panels / MDF cladding / printed interpretive panels Colour palette and finishes aligned with museum / tourism narrative Non-reflective finishes near screen areaComplete to create immersive visitor experience. <i>“The AV Room is proposed as an immersive interpretive space for visitor orientation and storytelling, enhancing the overall museum / tourism experience through curated audio-visual content in a controlled acoustic and thematic environment.”</i></p>				
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10.4	Conservation (Manuscripts)	Providing and carrying out scientific conservation, restoration and digitisation of historical paper manuscripts by qualified and experienced manuscript conservators, in accordance with ASI guidelines, National Archives of India standards and accepted archival conservation practices, including condition assessment and documentation; dry and wet surface cleaning; de-acidification and pH stabilization of paper; repair and consolidation of tears, cracks and weakened areas using reversible conservation adhesives; humidification, flattening and stabilization of distorted sheets; removal of old non-archival repairs such as tapes, acidic pastes and clips; anti-fungal and insect treatment wherever required using approved non-invasive methods; final protective conservation treatment for long-term preservation; high-resolution non-contact digitisation through scanning or digital photography (minimum 300–600 dpi) using archival-safe equipment, including colour correction and image processing without alteration of original content; supply of digitised outputs in approved formats (TIFF/JPEG/PDF) submission of pre- and post-conservation photographs and complete treatment records; and including all materials, skilled manpower, tools, plants, equipment, handling, safety measures, data storage media, transportation within site, taxes, overheads and all incidental charges, complete in all respects as directed by the Engineer-in-Charge.	A3	100.00		
10.5	Conservation (Manuscripts)	Providing and carrying out scientific conservation, restoration and digitisation of historical paper manuscripts by qualified and experienced manuscript conservators, in accordance with ASI guidelines, National Archives of India standards and accepted archival conservation practices, including condition assessment and documentation; dry and wet surface cleaning; de-acidification and pH stabilization of paper; repair and consolidation of tears, cracks and weakened areas using reversible conservation adhesives; humidification, flattening and stabilization of distorted sheets; removal of old non-archival repairs such as tapes, acidic pastes and clips; anti-fungal and insect treatment wherever required using approved non-invasive methods; final protective conservation treatment for long-term preservation; high-resolution non-contact digitisation through scanning or digital photography (minimum 300–600 dpi) using archival-safe equipment, including colour correction and image processing without alteration of original content; supply of digitised outputs in approved formats	A2	100.00		

		(TIFF/JPEG/PDF) submission of pre- and post-conservation photographs and complete treatment records; and including all materials, skilled manpower, tools, plants, equipment, handling, safety measures, data storage media, transportation within site, taxes, overheads and all incidental charges, complete in all respects as directed by the Engineer-in-Charge.				
10.6	Conservation (Manuscripts)	Providing and carrying out scientific conservation, restoration and digitisation of historical paper manuscripts by qualified and experienced manuscript conservators, in accordance with ASI guidelines, National Archives of India standards and accepted archival conservation practices, including condition assessment and documentation; dry and wet surface cleaning; de-acidification and pH stabilization of paper; repair and consolidation of tears, cracks and weakened areas using reversible conservation adhesives; humidification, flattening and stabilization of distorted sheets; removal of old non-archival repairs such as tapes, acidic pastes and clips; anti-fungal and insect treatment wherever required using approved non-invasive methods; final protective conservation treatment for long-term preservation; high-resolution non-contact digitisation through scanning or digital photography (minimum 300–600 dpi) using archival-safe equipment, including colour correction and image processing without alteration of original content; supply of digitised outputs in approved formats (TIFF/JPEG/PDF) submission of pre- and post-conservation photographs and complete treatment records; and including all materials, skilled manpower, tools, plants, equipment, handling, safety measures, data storage media, transportation within site, taxes, overheads and all incidental charges, complete in all respects as directed by the Engineer-in-Charge.	A1	100.00		

10.7	Conservation (Stone statues)	<p>Providing and carrying out scientific chemical conservation treatment of historical basalt stone statues by qualified and experienced stone conservators, strictly in accordance with ASI conservation guidelines and approved heritage conservation practices, without causing any physical, chemical or visual damage to the artifact or loss of its historical authenticity, including detailed condition assessment and documentation; dry and wet cleaning to remove surface dust, accretions, biological growth, pollutants and deposits using approved low-impact methods; application of suitable biocides, fungicides and algacides (where required) of non-staining, non-corrosive and reversible nature; controlled chemical cleaning using tested and approved solutions compatible with basalt stone, ensuring no alteration of original surface, texture ; desalination and salt extraction treatment, if required; consolidation of weakened stone using compatible, breathable and reversible stone consolidants; crack filling and minor surface repairs using compatible mineral-based materials matching the original stone characteristics; final application of breathable, water-repellent protective treatment (where approved) to enhance durability without affecting appearance; continuous monitoring during treatment; submission of pre- and post-treatment photographic documentation and treatment reports; and including all materials, skilled manpower, tools, plants, scaffolding, safety measures, testing, handling, cleaning, protection of surrounding areas, taxes, overheads and all incidental charges, complete in all respects as directed by the Engineer-in-Charge, Calculation of the area will be based on the longest available length.</p>	Sqft	800.00		
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10.8	Conservation (fossils)	Providing and carrying out scientific chemical conservation treatment of fossils of historical and scientific importance by qualified and experienced palaeontological / conservation specialists, strictly in accordance with ASI guidelines and approved museum and heritage conservation practices, ensuring complete preservation of the fossil's original morphology, surface texture and scientific value without causing any physical, chemical or visual damage, including detailed condition assessment and documentation; dry and controlled wet cleaning to remove dust, soil, accretions and biological growth using non-invasive, low-impact and reversible methods; application of approved biocides or fungicides, wherever required, of non-staining, non-corrosive and reversible nature; controlled chemical stabilization using tested and approved solutions compatible with fossil material and surrounding matrix, ensuring no alteration of original structure, colour ; desalination and removal of harmful salts, if required; consolidation of fragile or friable fossil surfaces using compatible, breathable and reversible consolidants; micro-crack filling and edge stabilization using conservation-grade materials matching the fossil matrix; controlled drying and curing under monitored conditions; final application of approved protective treatment or coating, wherever recommended, without affecting visibility or scientific interpretation; continuous monitoring during treatment; submission of pre- and post-treatment photographic records, treatment methodology and condition reports; and including all materials, skilled manpower, specialised tools, plants, equipment, testing, scaffolding (if required), safety measures, handling, protection, transportation within site, taxes, overheads and all incidental charges, complete in all respects as directed by the Engineer-in-Charge. Calculation of the area will be based on the longest available length.	Sqft	120.00		
10.9	Conservation (Wooden fossils)	Providing and carrying out scientific conservation and chemical stabilization treatment of ancient wooden fossil remains (approximately 6000 years old) of historical Bhandargahs, by qualified and experienced heritage conservators / palaeobotanical specialists, strictly in accordance with ASI conservation guidelines, National Museum conservation protocols and approved international heritage practices, ensuring complete preservation of original form, stratigraphy, surface texture and historical authenticity without causing any physical, chemical or visual damage, including detailed condition assessment, material characterization and documentation; gentle dry cleaning	sqft	70.00		

	and controlled low-moisture cleaning to remove soil deposits, salts, biological growth and surface accretions using non-invasive, reversible methods; application of approved biocidal and fungicidal treatments of non-staining, non-corrosive and reversible nature, wherever required; controlled chemical stabilization using tested and approved conservation-grade consolidants compatible with fossilized / mineralised wood structure, ensuring no alteration of original colour, grain pattern, mineral composition or patina; desalination and removal of soluble salts, if required; consolidation of fragile, friable or delaminated zones using breathable and reversible materials; micro-crack filling and edge stabilization using compatible conservation mortars or resins, limited strictly to areas of distress; controlled drying and curing under monitored environmental conditions; final application of approved protective treatment, wherever recommended, without affecting scientific interpretation or visual integrity; continuous monitoring during treatment; submission of pre- and post-conservation photographic records, detailed treatment methodology, material data sheets and condition reports; and including all materials, skilled manpower, specialised tools and equipment, handling, temporary supports, safety measures, testing, protection of surrounding areas, transportation within site, taxes, overheads and all incidental charges, complete in all respects as directed by the Engineer-in-Charge.				
	Total (excluding GST)				