



# **NATIONAL COUNCIL OF SCIENCE MUSEUMS**

**(MINISTRY OF CULTURE, GOVT OF INDIA)**

**33, BLOCK GN, SECTOR V**

**BIDHAN NAGAR**

**KOLKATA – 700091**

## **e-TENDER (RFP) DOCUMENT**

FOR

**CONCEPT, PLANNING, DESIGN, SUPPLY, INSTALLATION,  
TESTING, COMMISSIONING AND COMPREHENSIVE  
MAINTENANCE OF DYNAMIC ARTISTIC ARCHITECTURAL  
FAÇADE LIGHTING SYSTEM**

AT

**NATIONAL GALLERY OF MODERN ART (NGMA)**

**(JAIPUR HOUSE),**

**NEW DELHI**

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## **Disclaimer & Disclosures:**

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

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

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

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

NCSM may modify any / all of the terms of this RFP process giving due notification through the NCSM's website ([www.ncsm.gov.in](http://www.ncsm.gov.in)).

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

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

## National Council of Science Museums, Kolkata

### Request for Proposal (RFP)

Tender No: I-18013/1/20(10)

**Name of the work: Conceptualisation, Planning, Design, Supply, Installation, Testing, Commissioning and Comprehensive Maintenance for a period of two years beyond the initial one year defect liability period of Dynamic Artistic Architectural Façade Lighting System at NGMA (Jaipur House), New Delhi.**

All bids must conform to the guidelines set out in the RFP Document.

On-line Digitally signed e-tenders (RFP) under QCBS (Quality and Cost Based Selection) method are invited in Two Bid System from competent Company/Firm/Agency/Consortium, who satisfy the eligibility criteria enumerated in the Tender Documents (RFP), and having experience of similar nature of work of Conceptualization, Planning, Design, Supply, Installation, Testing, Commissioning and Maintenance of Dynamic Artistic Architectural Façade Lighting System at National Gallery of Modern Art (NGMA) (Jaipur House), New Delhi,. Interested Agencies may download the tender documents from the Central Public Procurement Portal (CPPP): <http://eprocure.gov.in/eprocure/app> or from the Council's website [www.ncsm.gov.in](http://www.ncsm.gov.in) as per the following schedule:-

#### SCHEDULE:

1	Bid Document Published Date	June 18, 2020	04.00 p.m.
2	Bid Document Download Start Date	June 18, 2020	04.00 p.m.
3	Bid Document Download End Date	July 09, 2020	12.00 noon
4	Bid Clarification Start Date	June 18, 2020	05.00 p.m.
5	Bid Clarification End Date	July 08, 2020	04.00 p.m.
6	Bid Submission Start Date	June 19, 2020	06.00 p.m.
7	Bid Submission End Date & Time	July 09, 2020	12.00 noon
8	Earnest Money Deposit (EMD)	Rs. 9,58,000.00 (Rupees Nine lakh, Fifty Eight Thousand only) Original EMD instrument shall be submitted by the bidder at <b>National Council of Science Museums, 33 Block GN, Sector V, Bidhan Nagar, Kolkata - 700091</b> on or before July 10, 2020 at 12 noon..	12 noon
9	Technical (Techno-Commercial) Bid Opening Date	July 10, 2020	12.00 noon
10	Date Place of Technical Presentation	<i>To be notified later</i>	
11	Financial Bid opening Date	<i>To be notified later</i>	

1. Tender document can be downloaded from Central Public Procurement Portal (CPPP) website “[http:// eprocure.gov.in](http://eprocure.gov.in)”
2. **Visit of the NGMA, New Delhi Campus:** Bidders are advised to visit the National Gallery of Modern Art at New Delhi premises and ascertain the nature and quantum of work before tendering.
3. Submission of the Bid: This Tender is an e-Tender and bids are to be submitted through CPP Portal (<http://eprocure.gov.in>) only. Bids submitted in physical forms will be summarily rejected.
4. Details of Tender fee, EMD, submission of tender, etc. are indicated in the RFP/tender document.
5. The online bid both Technical (Techno-Commercial) Bid and Financial bid duly furnished in Cover –I and Cover-II respectively should be uploaded by the due date and time as per the above schedule. The responsibility to ensure the same lies with the bidders.
6. NCSM reserve the right to amend / withdraw any of the terms and conditions in the RFP Documents or to reject any or all RFPs without giving any notice or assigning any reason. NCSM also reserves the right to accept or reject any or all tenders in full or part without assigning any reason whatsoever. NCSM shall also not be bound to accept merely the lowest tender but the technical suitability, capability and superiority of the concept/ technology interface/system etc. shall be of prime consideration for selection of the appropriate set of concept/ technology interface /system collectively considered as a complete solution.

(Dy. Controller of Stores & Purchase)  
National Council of Science Museums  
Kolkata

Date: 18.06.2020

The due date for submission of RFP is 12:00 hrs on July 09, 2020.

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## General Information and Instructions

1. The instructions given herein will be strictly binding on the bidders and deviation, if any will make the tender or tenders liable to be considered invalid. Tenders incorporating additional conditions by the bidder are liable for rejection.
2. Bids shall be submitted online only at CPPP website: <https://eprocure.gov.in/eprocure/app> Manual bids shall not be accepted.
3. The instructions given in “**Instruction for Online Bid Submission**” should be strictly followed during submission of the Bid.
4. Bid documents may be scanned with 100 dpi with black and white option which helps in reducing size of the scanned document.
5. Bid should be submitted along with the **Earnest Money Deposit (EMD) of Rs.9,58,000.00 (Rupees nine lakhs fifty eight thousand only)** by way of crossed Demand Draft/Pay Order/drawn on any nationalized bank of India payable in favour of “NATIONAL COUNCIL OF SCIENCE MUSEUMS, KOLKATA”. The EMD can also be submitted by ONLINE TRANSFER to the Bank Account of National Council of Science Museums (NCSM) as per details below (Bank charges shall be borne by the Bidder) :

### **Bank Details of NCSM**

Name of Bank:	Indian Overseas Bank
Branch Address:	GN-34/2, Sector V, Salt Lake, Kolkata – 700091.
SB A/c No.	164201000000491
IFSC Code:	IOBA0001642

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

Earnest Money deposit in the form of Bank Guarantee bond or any other bond shall not be accepted and shall be rejected straightway. Earnest Money deposits in respect of such offers which are not accepted will be returned to the bidders within 30 working days from the date on which the final decision is taken about the source from which the items under tender are to be procured or within 2 (two) months from the date of the opening of the financial bids, whichever is earlier. No interest will be paid on the Earnest Money deposited with NCSM. Earnest Money deposit in respect of the successful bidders will be retained with NCSM until entire execution of the order as per terms of the tender including defect liability period and two years Comprehensive AMC period. If the successful bidder fails to execute the order strictly as per the Council’s Scope of work, Bill of Quantities, Technical Specifications and Terms & Conditions in full within the stipulated completion time of the order, the Earnest Money Deposit retained with the Council shall be forfeited forthwith after cancellation of the concerned order.

6. **Validity of Bids: The Bids should remain valid for 90 days from the date of opening of financial bid.**
7. **Rejection of Bids:** Canvassing by the Bidder(s) in any form, unsolicited letter and post- tender correction may invoke summarily rejection of their bid(s). Conditional tenders will also be rejected. Non-compliance of applicable General Information and Instructions will disqualify the Bid.
8. The Bidders should have Digital Signature Certificate (DSC) for filling up the Bids. The person signing the tender documents should be authorized for submitting the on line e-tender.
9. The Bidders shall fill up the Prescribed Format for submission of **Technical (Techno-commercial) Bid as per “Annexure-B”** format duly signed by the authorized signatory. The person signing the tender document should be authorised for submitting the online e-tender.
10. The Financial Bid shall be filled in and signed by the authorized signatory online as per format **“Annexure-C”** available at **Central Public Procurement Portal** e-tender system website <http://eprocure.gov.in/eprocure/app>. **Off line Financial Bid shall not be accepted.**
11. Tender must be uploaded in two separate covers marked **Cover-1** (Technical Bid) and **Cover-2** (Financial Bid/BOQ). The contents of Cover-1 and Cover-2 shall be as follows:-

#### **Cover-1**

- i) “Technical (Techno-Commercial) Bid” (as per **Annexure-B** format) duly filled in and digitally signed with official stamp.
- ii) All relevant documents related to “Technical (Techno-commercial) Bid” as per **“Annexure-B”**.
- iii) The Technical Brochures of each equipment with technical explanation for every feature of the product offered by the bidders.
- iv) The scanned copy of the Demand Draft for Rs.9, 58, 000.00 (Rupees nine lakhs fifty eight thousand only) as Earnest Money Deposit. In case of online transfer of money, the UTR No. of the transaction shall be prepared in the letter head of the bidder/consortium and uploaded.
- v) The scanned copy of “Scope of Work, Bill of Quantities, Terms & Conditions etc. (**Annexure-A**)” duly signed by the Authorized Signatory with official stamp as a token of acceptance of the same by the bidders.

#### **Cover-2**

- i) The “Financial Bid (BOQ)” (as per Detailed Scope of Work and Bill of Quantities) i.e. Schedule of Price Bid in the item wise tabular format duly filled in and digitally signed. **The Bidder shall fill up the percentage below/above/at par as per the BoQ.**
- ii) “Cost Break-up” for each quoted components (as per Detailed Scope of Work and Bill of Quantities) duly filled in tabular format and digitally signed with official stamp.

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

### **Instructions for Online Bid Submission**

1. The bidders are required to submit soft copies of their bids electronically on the CPP Portal, using valid Digital Signature Certificates. The instructions given below are meant to assist the bidders in registering on the CPP Portal, prepare their bids in accordance with the requirements and submitting their bids online on the CPP Portal.
2. More information useful for submitting online bids on the CPP Portal may be obtained at <https://eprocure.gov.in/eprocure/app>

#### **A. REGISTRATION**

1. Bidders are required to enrol on the e-Procurement module of the Central Public Procurement Portal (URL: <https://eprocure.gov.in/eprocure/app> ) by clicking on the link “**Online Bidders Enrolment**” on the CPP Portal which is free of charge.
2. As part of the enrolment process, the bidders will be required to choose a unique username and assign a password for their accounts.
3. Bidders are advised to register their valid email address and mobile numbers as part of the registration process. These would be used for any communication from the CPP Portal.
4. Upon enrolment, the bidders will be required to register their valid Digital Signature Certificate (Class II or Class III Certificates with signing key usage) issued by any Certifying Authority recognized by CCA India (e.g. Sify / nCode / eMudhra etc.) with their profile.
5. Only one valid DSC should be registered by a bidder. Please note that the bidders are responsible to ensure that they do not lend their DSC's to others which may lead to misuse.
6. Bidders may then log-in to the site through the secured log-in by entering their user ID / password and the password of the DSC / e-Token.

#### **B. SEARCHING FOR TENDER DOCUMENTS**

1. There are various search options built in the CPP Portal to facilitate bidders to search active tenders by several parameters. These parameters could include Tender ID, Organization Name, Location, Date, Value, etc. There is also an option of advanced search for tenders, wherein the bidders may combine a number of search parameters such as Organization Name, Form of Contract, Location, Date, Other keywords etc. to search for a tender published on the CPP Portal.
2. Once the bidders have selected the tenders they are interested in, they may download the required documents / tender schedules. These tenders can be moved to the respective ‘My Tenders’ folder. This would enable the CPP Portal to intimate the bidders through SMS / e-mail in case there is any corrigendum issued to the tender document.
3. The bidders should make a note of the unique Tender ID assigned to each tender, in case they want to obtain any clarification / help from the Helpdesk.



### C. PREPARATION OF BIDS

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

### D. SUBMISSION OF BIDS

1. Bidders should log-into the site well in advance for bid submission so that they can upload the bid in time i.e. on or before the bid submission time. Bidders will be responsible for any delay due to other issues.
2. The bidders have to digitally sign and upload the required bid documents one by one as indicated in the tender document.
3. Bidders have to select the payment option as "online or offline" to pay the requisite Earnest Money Deposit (EMD) and enter detail of the instrument.
4. **Bidders should submit the EMD as per the instructions specified in the tender document. The original EMD instrument should be posted/couriered/given in person to NCSM, latest by the last date of bid submission. The detail of the DD/any other accepted instrument, physically sent, should tally with the details available in the scanned copy and the data entered during bid submission time. Otherwise the uploaded bid will be rejected.**
5. A standard Price Schedule format (BOQ) has been provided with the tender document to be filled by all the bidders. Bidders are requested to note that they should necessarily submit their financial bids in the format provided and no other format is acceptable. If the price bid has been given as a standard BOQ format with the tender document, then the same is to be downloaded and to be filled by all the bidders. Bidders are required to download the BOQ file (ratequotesheet for Façade Lighting), open it and complete the

bluecoloured (unprotected) cells with their respective financial quotes and other details (such as name of the bidders). No other cells should be changed. **In case no rate value is required to be quoted in any particular cell , that cell may be kept blank , figure '0' (zero) shall not be entered in such cell(s)** .Once the details have been completed, the bidders should save it and submit it online, without changing the filename. If the BOQ file is found to be modified by the bidders, the bid will be rejected.

In addition to the above the **Cost Break-up** shall be submitted in tabular format duly digitally signed with official stamp.

6. The server time (which is displayed on the bidders' dashboard) will be considered as the standard time for referencing the deadlines for submission of the bids by the bidders, opening of bids etc. The bidders should follow this time during bid submission.
7. All the documents being submitted by the bidders would be encrypted using PKI encryption techniques to ensure the secrecy of the data. The data entered cannot be viewed by unauthorized persons until the time of bid opening. The confidentiality of the bids is maintained using the secured Socket Layer 128 bit encryption technology. Data storage encryption of sensitive fields is done. Any bid document that is uploaded to the server is subjected to symmetric encryption using a system generated symmetric key. Further this key is subjected to asymmetric encryption using buyers/bid opener's public keys. Overall, the uploaded tender documents become readable only after the tender opening by the authorized bid openers.
8. The uploaded tender documents become readable only after the tender opening by the authorized bid openers.
9. Upon the successful and timely submission of bids (i.e. after Clicking "Freeze Bid Submission" in the portal), the portal will give a successful bid submission message and a bid summary will be displayed with the bid number and the date & time of submission of the bid with all other relevant details.
10. The bid summary has to be printed and kept as an acknowledgement of the submission of the bid. This acknowledgement may be used as an entry pass for any bid opening meetings.

#### **E. ASSISTANCE TO BIDDERS**

1. Any enquiries relating to the tender document and the terms and conditions contained therein should be addressed to the Tender Inviting Authority.
2. Any queries relating to the process of online bid submission or queries relating to CPP Portal in general may be directed to the 24x7 CPP Portal helpdesk. The contact number for the helpdesk is 1800 233 7315.

**NATIONAL COUNCIL OF SCIENCE MUSEUMS**  
SECTOR-V, BLOCK-GN, BIDHANNAGAR,  
KOLKATA – 700 091.

**TENDER No. I-18013/1/20(10)**

**Name of the work: Conceptualisation, Planning, Design, Supply, Installation, Testing, Commissioning and Comprehensive Maintenance for a period of two years beyond the initial one year defect liability period of Dynamic Artistic Architectural Façade Lighting System at NGMA (Jaipur House), New Delhi.**

**1. Introduction:**

National Council of Science Museums, Ministry of Culture, Government of India invites offers/bids from reputed and experienced agencies in the field of dynamic artistic architectural façade lighting design and setting up of high quality light fittings and fixtures at museum/Art Galleries/exhibition/public space, especially in the field public/private museums for undertaking the work of as per the tender at National Gallery of Modern Art, Jaipur House, New Delhi.

- i. **Brief Information of National Gallery of Modern Art:** Inaugurated during the first decade of the Independence of India, the National Gallery of Modern Art opened in March 1954. The choice of Jaipur House, one of the premier edifices of Lutyens' Delhi, signified the envisaged high profile of the institution. Designed by architect Charles G Blomfield, as a residence for the Maharaja of Jaipur, the butterfly-shaped building with a central dome was built in 1936. It was styled after a concept of the Central Hexagon visualised by Sir Edwin Lutyens. Along with buildings designed for other princely potentates like Bikaner and Hyderabad, Jaipur House girded the India Gate circle. NGMA is the premier institution of its kind in India. It is run and administered as a subordinate office to the Department of Culture, Government of India. The NGMA has two branches one at Mumbai and the other at Bengaluru. NGMA with 17,000 works (approximately) is a repository of the cultural ethos of the country and showcases the most significant changing art forms through the passage of the last hundred and fifty years starting from 1857 in the field of Visual arts. Today NGMA is visited by over 225.000 people every year.
- ii. The proposed work is meant for the newly restored Jaipur House of the National Gallery of Modern Art (NGMA) situated on the C-Hexagon of the India Gate, New Delhi. **Its height is approximately 10meter for main façade and additional 05meter for central dome and its platform and the perimeter of external façade is approximately 300meter (Refer Annexure – I to Annexure - Mfor details)**which is required to be illuminated with tasteful and aesthetic façade lighting using the flood lights, spot lights, track lights, etc. on suitably mounted structure / peripheral walls to bring out the full beauty & aesthetic value of it.
- iii. NCSM therefore invites Request for Proposal from Company/Firm/Agency/Consortium with adequate experience, sound financial background and proven capabilities for Conceptualisation, Planning, Design, Supply, Installation, Testing, Commissioning and Maintenance of Dynamic Artistic Architectural Façade Lighting System
- iv. Bidders who are interested to participate should meet the eligibility criteria and submit their duly completed RFPs along with all the required documents in support of their eligibility qualification.

- v. If at any stage, it comes to the notice of NCSM that any successful/qualified bidder had misrepresented the facts/falsely claimed any qualification while submitting his RFP or at any time subsequently, the agency will be disqualified. And in any such instance, NCSM also reserves the right to take any further action against such bidder under law.

## 2. ELIGIBILITY CRITERIA:

- i. Company/Firm/Agency/Consortium shall have the experience of implementing Façade Lighting projects **OR** Company/Firm/Agency/Consortium having experience in installation of hardware equipment in the Lighting of Sound & Light Shows / Laser Shows or on Monument or Notified Buildings / Museums etc.
- ii. The bidder could be an Individual, Limited Company/Corporation, Proprietary Firm, Partnership etc. Consortium or Joint Venture are allowed to bid for the Works.
- iii. The bidders should have minimum experience of **5 years** since their establishment. For establishing the same, the bidder should submit copies of work orders issued on them as well as copies of work completion certificate of the same work.
- iv. The Average Annual Turnover of the Bidder (of the lead partner in case of consortium) for last three financial years should be minimum **INR 4 Crore**.
- v. The Bidder should have the requisite work experience of working on similar projects during the last 5 years ending last day of month previous to the date of issuing of RFP as per the details given below. It may be noted that the evaluation shall be done as per the marking scheme given in the clause 8(C)

One similar work of value not less than **Rs. 3.00 Crore** of the estimated cost of work.

Or

Two similar works each of value not less than **Rs. 2.25 Crore** of estimated cost of work.

Or

Three similar works each of value not less than **Rs. 1.50 Crore** of estimated cost of work.

### Notes:

Here the **similar works\*** means the work of Conceptualisation, Planning, Design, Supply, Installation, Testing and Commissioning of External Dynamic Façade Lighting works in Heritage or Monument or Notified buildings and Museums.

The details of qualifying works/projects shall be furnished as per the proforma **Annexure-D** and if required the bidder shall also facilitate inspection of the above qualifying project(s) by NCSM's officials to ascertain the performance of the system.

The value of executed works shall be brought to current costing level by enhancing the actual value of work at simple rate of 7% per annum, calculated from the date of completion to the last date of submission of bid or extended date of submission of bid.

- vi. NCSM may inspect any of those at its discretion to verify the credentials of the bidder for the qualifying works/ projects indicated above for which the Bidder shall provide references (including Referee names and contact details) in respect of the projects implemented.

For the purposes of determining Conditions of Eligibility and for evaluating the Proposals under this RFP, following projects shall be deemed as Eligible Projects - Similar works as mentioned in Notes under point (v) of Eligibility Criteria for Monument / Museum / Parks / Lakes / Landscape / Aquatic Illumination / Memorial / Buildings reflecting Heritage / Ethnic / Cultural themes / Convention Centre / Luxury Hotels / Resorts / Institutional Campus.

The bidder should provide documentary proof for the above in the form of a work order / supply order / contract document / testimonial.

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

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

**viii. Proof of Concept (PoC)**

- a. The applicants shall be advised to present a proof of concept (PoC) i.e. scheme for illuminating the external surface / façade of the building using lighting modelling software (such as: DiaLux, ReLux or any other such open licensed software). The details of the building such as AUTOCAD drawings (plan and elevation) shall be shared with the applicants on request.
- b. The light fittings used in the model should be LED type only and the colour of the light shall be controllable using an external/internal controller.
- c. The software model shall indicate the lumen output contour lines on the building external surface, and power consumption details.
- d. **The bidder shall also submit the REVISED Bill of Quantity along with the itemised cost breakup (as mentioned in scope of work) required to execute the dynamic façade lighting works as per their submitted model. However, the total cost of the revised Bill of Quantity should not exceed the quoted price of the bidder.**
- e. Further requirement if any regarding the presentation shall be communicated in due course.

**Note:** The bidder shall approach NCSM for required drawings. **The bidders should be ready for the demonstration of Proof of concept (PoC) on short notice, say 3 days from the communication from NCSM.**

### 3. SCOPE OF CONTRACT

The successful e-tenderer shall carry out and complete the works in every respect in accordance with this contract and in accordance with the directions of the Engineer and to the satisfaction of the Engineer and the NCSM/NGMA. The Engineer may from time to time issue further drawings and/or written instructions, detailed directions and explanations in regard to:

- (a) The variation or modification of the design, quality or quantity of works for the addition or omissions or substitution of any work.
- (b) Any discrepancy in the drawings or between the schedule of quantities and/or drawing and/or specifications.
- (c) The removal from the site of any material brought therein by the successful e-tenderer and the substitution of any other materials there from.
- (d) The removal and/or re-execution of any works executed by the successful e-tenderer.
- (e) The dismissal from the works of any persons employed thereupon.
- (f) The opening up for inspection of any work covered up.
- (g) The amending and making good of any defects.
- (h) The successful e-tenderer shall comply with and duly execute any work comprised in such instructions, detailed directions and explanations, provided always that if the Engineer's instructions involved variations from the priced Schedule of Quantities, such instructions shall be issued by the Council and the successful e-tenderer shall take appropriate action.
- (i) Even if not specifically mentioned in the schedule of quantities, the successful e-tenderer shall be deemed to have allowed necessary material, labour, tools and plants etc. required for satisfactory completion of the items of work as indicated in drawings and description given in the specifications, which are attached herewith unless the item specifies labour only or otherwise.
- (j) Rates quoted also apply for work in patches, strips, small or large areas, and for different shapes and in different sizes and in different planes (Horizontal/vertical or inclined).

#### **(k) SUCCESSFUL E-TENDERER TO PROVIDE EVERYTHING NECESSARY**

The successful e-tenderer shall provide everything necessary for the proper execution of the works according to the true intent and meaning of the drawings and specifications and bill of quantities taken together, whether the same may or may not be particularly shown on the drawings or described in the specifications or included in the bill of quantities, provided that the same is to be reasonably inferred there from and if he finds any discrepancy in the drawings, or between the drawings and specifications and bill of quantities, he shall immediately refer the same to the Engineer who shall decide which shall be followed. Figured dimensions shall be followed in reference to scale.

#### **(l) RATES**

The rates quoted by the Successful e-tenderer shall be paid at net rates. He should include in his rates allowance for increase or decrease in the prices due to market fluctuation. He shall not be entitled to any separate amount on account of GST, other taxes, Labour Cess, duties etc. which are in force or will be enforced or enhanced by

Government or local bodies during contract period or after e-tendering. Accepted e-tender rates shall not be changed due to changes in wages of labour either.

**The rates considered in the respective items are inclusive of comprehensive maintenance of the entire system for a period of two years after completion of the defects liability period of 1 year post the actual satisfactory completion of the entire work in all sense. (Total comprehensive maintenance period of 3 years including Defect Liability period of 1 year)**

**(m) QUANTITIES**

All the quantities given in schedule of quantities are provisional.

The e-tenderers shall be deemed to have given Balanced Rates for each item, irrespective of the quantities given. Also irrespective of variation in quantities to any extent the e-tenderer shall be paid at accepted contract rates only. **NCSM reserves the right to increase or decrease quantities to any extent.**

**4. SCOPE OF WORK**

NCSM desires to provide an external Dynamic Artistic Architectural Façade Lighting System at NGMA (Jaipur House), New Delhi. **The said building is a G+1 structure with a dome at the centre and a height of 10 meter for main façade and additional 05 meter for central dome and its platform and the perimeter of external façade is approximately 300 meter (Refer to Annexure – I to Annexure - M for details).** The façade of the building is required to be illuminated using LED floodlights, Linear LED wall-washers, LED spot lights, LED uplighters, LED CoB spotlights, LED GOBO projector, LED strips, etc.

Within the quoted rates, the successful bidder will also provide comprehensive maintenance services for the subject façade lighting system installed by them for the defect liability period of one year without any additional cost.

After the expiry of the defect liability period of one year, the Comprehensive Annual Maintenance Contract for two years will be executed with NGMA. **This two years Comprehensive AMC is the part of the scope of work within the quoted rates by bidders.**

The project/work is to be completed within **5 months** from the date of issuance of the work order/LOI.

**The Scope of Work of the project project includes the following major components:-**

**a. Creative Lighting Concept, Plan &Design**

- i. The lighting design should create an overall aesthetic look of the heritage structure and highlight the features and architectural details. Flat flood lighting should be avoided.
- ii. The use of cost-effective LED light fixtures is encouraged. All lights and control gear should be high quality, A-grade, long life equipment.

**b. Control System & Cabling Design**

- i. Design of the control system and system integration to provide dimming of various fixtures in order to balance light levels to create an aesthetic look. It should be possible to program and save various schemes as pre-sets which can be easily recalled from a touch interface.
- ii. A single point of control should be provided for the entire installation using industry standard protocols like DMX/DALI/WiFi/KiNet, etc for a third Party integration and control if & when required.
- iii. Design of the cabling to include power and data cables for least intrusive installation so that it does not mar the beauty of the recently restored building.

**c. Bill of Quantity/Material**

- i. Preparation and the specification of the hardware requirement and the Revised Bill of Quantity.
- ii. A tentative BOQ has been provided in the RFP document along with approved makes/manufacturers/suppliers. Reasonable variations to this are allowed with proper justifications, without any variation in the final cost quoted by the successful bidder in the financial bid.
- iii. Post installation, the support should be on 'No cost, No commitment' basis till the time the equipment is under warranty (defect liability) clause. **(Milestone – 1)**

**d. Supply, Installation, Testing and Commissioning of Hardware**

- i. Supply, installation, testing and commissioning of the light fixtures including making of suitable & sturdy mounting arrangement, junction boxes, terminations.
- ii. Supply, installation, testing and commissioning of the electrical panels & switchgear, cables and wires, earthing pits and earthing cable. **(Milestone – 2)**

**e. Programming System, Integration & Soft Commissioning**

- i. System Integration and addressing of fixtures for ease of control.
- ii. Programming of colours and lighting levels to create various pre-set schemes, saved to a touch controller.

**f. Modifications/ Alterations:**

After the setup is soft commissioned, the same will be reviewed by the Client. Upon such review, if there be any suggestion in the concept/integration etc. received from the Client, will need to be incorporated (within reason) without any extra cost before the work is finally commissioned and taken over. **(Milestone – 3)**



**g. Training to NGMA Staff**

- i. Provide training to the client/owner's staff including the day to day operation & maintenance with minor repairs.
- ii. Hard copy of ready reckoner (Manual) for the daily operation, checking and diagnosis of day to day faults repairable by client staff should be provided. (**Milestone – 4**)

**h. One Year Defect Liability Period and additional Two years of Comprehensive Annual Maintenance**

- i. The bidder will be required to provide comprehensive maintenance services for the subject façade lighting system installed by them for the defect liability period of one year without any additional cost. (**Milestone – 5**)
- ii. Prior to the expiry of the defect liability period of one year, the Comprehensive Annual Maintenance Contract for two years will be executed by the successful bidder with NGMA within the rates offered by them.
- iii. The successful bidder is supposed to maintain minimum spare at the site in order to keep the downtime less than 24 hrs and is required to complete the two years comprehensive AMC successfully. (**Milestone – 6**)

**5. EARNEST MONEY DEPOSIT (EMD)**

- i. Proposal should necessarily be accompanied by an Earnest Money Deposit for an amount of ` **9.58Lacs** (i.e. 2.5% of estimated cost of the work) in the form of Account Payee Demand Draft/Banker's Cheque/NEFT transfer to NCSM's bank account as per bank details provided in the term sheet. EMD instrument must remain valid for a period of 90 days beyond the final proposal/bid validity period.
- ii. Bids not accompanied by Earnest Money Deposit of the requisite amount with proper validity will be summarily rejected.
- iii. Exemption of depositing EMD is allowed only to the MSME/NSIC registered bidders.

**Document required for availing exemption of EMD for MSME's registered with NSIC:**  
**The following procedure is adopted for the bidders of MSME's registered with NSIC:**  
The MSMEs who intent to claim benefits under MSME act, shall fulfil the following, otherwise they run the risk of their bid being passed over as "INELIGIBLE" for the benefits applicable to MSME's and their bid will not be considered for evaluation.

- a. MSMEs which are specified by the Ministry of Micro, Small and Medium Enterprises under MSME Act 2006 and Public Procurement Policy, 2012 as **Manufacturing/ Service Enterprises should have registered with NSIC under its Single Point Registration Scheme (SPRS).**
- b. NSIC certificate with monetary limit indicated should be valid on the scheduled date/ extended date of submission of tender. Certificates without monetary limit will not be considered.
- c. The items of Product/ Services mentioned under NSIC certificate should be the same or similar to the tendered items
- d. The monetary limit stipulated in the NSIC certificate of MSME's should be equal or more than the value of work(s)/Supply is/are "In hand (Progress)" awarded under

- MSME benefits during the financial year plus estimated cost of this tender for availing EMD exemption.
- e. If monetary limit is less than the value of work(s)/ Supply is / are “In hand (Progress)” awarded under MSME benefits during the financial year plus estimated cost of this tender, they should obtain “Competency Certificate” from NSIC for participating in this tender as well as to avail MSME benefits. The competency certificate should be uploaded along with the tender document.
  - iv. The EMD amount shall not bear any interest payable by the NCSM to the successful bidder/un-successful bidder.
  - v. EMD of successful bidder shall be retained by the NCSM which will get converted into Retention Money/ Security Deposit is submitted by the successful Bidder. Whereas, EMD of the unsuccessful bidders will be returned after expiry of the final proposal/bid validity and latest on or before the 30th day after the award of the contract.
  - vi. EMD shall be forfeited and proposal of bidder shall be cancelled in the following cases:
    - a. if any information or document furnished by the bidder turns out to be misleading or untrue in any material respect.
    - b. if the successful bidder fails to execute the Agreement within the stipulated time as per the format of the Article of Agreement as given in this RFP/NIT document in Annexure - H.

## **6. RETENTION MONEY/SECURITY DEPOSIT:**

- i. This shall mean and be 10% of the total cost of work awarded or the final gross value of work done & paid against this contract, whichever is greater.
- ii. The Retention Money or Security Deposit will be deducted & retained @10% of the value of work done & paid through every interim bill which will be inclusive of the Earnest Money already deposited by the successful bidder along with the bid/tender.
- iii. The Retention Money or Security Deposit so retained shall not carry any interest thereon.
- iv. 50% of the Retention Money or Security Deposit shall be refundable to the successful bidder after satisfactory completion of the Defects Liability Period post actual successful completion of the work in all respect & handing over as detailed under TERMS OF PAYMENT.
- v. Balance 50% of the Retention Money or Security Deposit shall be refundable after satisfactory completion of the Comprehensive Annual Maintenance Contract with NGMA for a period of 2 years post the Defects Liability Period of 1 year as detailed under TERMS OF PAYMENT.
- vi. In case of cancellation of the contract, this retention money shall be forfeited and amount necessary to make up this amount shall be recovered from any money due to the successful bidder under this or any other contract with NCSM.

- vii. In case, the successful bidder causes any damage to the property of the Client, the NCSM shall have discretionary rights to execute the repair of damages and recover the amount from the successful bidder or to adjust the equivalent amount from the successful bidder's Security Deposit.
- viii. In case of death of successful bidder, Security Deposit shall be returned /refunded to the legal heir of the successful bidder after adjustment of dues, if any post the actual completion of the work & upon expiry of the specified guarantee/defects liability period as well as satisfactory completion of CAMC period of two years post the Defect Liability Period.

## **7. JOINT VENTURES/CONSORTIUM**

- i. In the event that the successful bidder is a consortium/joint venture formed, lead partner/prime contractor in whose name the bid was issued, shall be fully and solely responsible for the performance of contract and all works designed and executed under the contract.
- ii. Bids submitted by a consortium or joint venture of maximum two firms including lead partner, all partners shall comply with the following requirements:
  - a. The consortium as a whole must be a sound entity technically and the lead partner must be sound entity financially.
  - b. The Consortium as a whole must satisfy the qualification criteria set forth herein. The turnover of lead partner must satisfy the eligibility criteria of the tender. The bid shall contain a statement of the members of the consortium and shall provide all information necessary to satisfy Client/Employer that the Consortium fulfils the qualifying criteria.
  - c. The Bids shall contain original copy of the Memorandum of Understanding (MOU) on Rs.100. Non-Judicial Stamp paper (or as applicable) between the consortium members clearly identifying the lead partner, scope and responsibility and financial part of each member in the performance of the contract.
  - d. The consortium members will obtain approval of the Client for any change in the shareholding structure and scope of work or any other terms of MOU.
  - e. The lead partner of the consortium shall be nominated as being in-charge to represent the Consortium in all dealings with the Client/Employer and for providing any information or clarification sought from the Consortium.
  - f. The Bid shall be signed by all the consortium firms by their authorized person. The lead partner shall be authorized to incur liabilities and receive instructions for and on behalf of any and all member(s) of the Consortium and all dealings including billing and payments, shall be done exclusively with the leader of the consortium.

- g. Only firms or joint ventures that have been qualified under this procedure will be eligible to bid for this project.
- h. All members of the Consortium shall be liable for the execution of the project in accordance with the terms of the MOA and Contract agreement.
- i. Any individual bidder or member of a consortium cannot be member in another consortium and participate in this tender.
- j. All correspondence or communications will be done by the Lead partner (or authorized representative of Lead partner) of consortium.
- k. Net worth as on the last day of the preceding financial year should be positive during the preceding three consecutive financial years.
- l. Bidder submitting their bid shall not be under liquidation, court receivership or similar proceeding.

**Notes:**

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

**8. PROPOSAL EVALUATION / SELECTION CRITERIA**

A three-stage procedure under Quality Cum Cost Based (QCBS) Evaluation will be adopted in evaluating the proposals

- i. Eligibility Criteria Evaluation: Any short coming of the documents will lead to rejection of the bid and other envelope will not be opened.
- ii. Thematic/Technical Presentation Evaluation: The agencies qualifying on the basis of their credentials evaluation will only be called for Thematic /Technical Presentations which can be at a very short notice of even three days.
- iii. Financial Evaluation: Only the bidders/firms securing the minimum qualifying marks based on Eligibility Criteria Evaluation and Technical/Presentation Evaluation as described in details below will be eligible for their Financial Bid Opening & Financial Evaluation.

**A. Technical Evaluation**

- i. The Evaluation Committee appointed by the Client shall carry out its evaluation applying the evaluation criteria specified in the bid document. Evaluation of the application would be done as per the documents submitted. Bidders/agencies who are in the trade and are fulfilling the pre-qualification criteria as per the documents required would only be called for thematic presentation which can be at a very short notice of even three days.

- ii. Further during the technical presentation the evaluation would be carried out on Quality and Cost Based Selection (QCBS) basis where the Technical cum creative evaluation would be given upto 100 marks.
- iii. Each responsive proposal shall be attributed a technical score. On the basis of the technical assessment, **agencies securing minimum 75 marks out of 100 will be shortlisted** and the financial bids of **only** the shortlisted agencies will be opened. The date and time of opening of the financial bids will be intimated to the selected /shortlisted agencies through CPP portal.

## **B. Financial Evaluation**

### **Quality and Cost Based Selection (QCBS)**

Under the Quality and Cost Based Selection (QCBS) basis, the **weightage to Technical and Financial Bids would be 70% and 30% respectively.**

- i. **Technical Bid:** The total marks obtained out of 100 marks in technical bid shall be scaled down to a maximum of 70 as follows which shall henceforth be the total marks obtained by the bidder against the technical bid.  
Marks (max 70) on technical Bid (A) =  $0.70 \times \text{Marks of Technical Bid under evaluation}$ .
- ii. **Financial Bid:** The lowest financial bid would be the best financial bid and shall be awarded 30 marks. Other financial bidders would be awarded marks out of a maximum of 30 based on the following formula:  
Marks (Max 30) on Financial Bid (B) =  $0.30 \times (\text{Lowest Financial Bid}) \times 100 \div \text{Financial Bid under Evaluation}$ .

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

### **Notes:**

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

## **C. Technical cum Creative Evaluation Marks**

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

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

Sl. No.	Parameter	Criteria	Max. Marks 100	Marks Obtained
1.	Credentials of applicant/agency <b>(Total Max. marks- 10)</b>	5 Years - 7 Marks	10	
		More than 5 years upto 10 years - Bonus 2 Marks		
		More than 10 years –Bonus 3Marks		
2.	Team (Experience and credentials will be taken into account. Provide detailed Bio) <b>(Total Max. marks- 10)</b>	Team Leader –3 Marks	10	
		Lighting Designer - 3 Marks		
		Electrical Engineer –2Marks		
		Lighting System Programmer - 2 Marks		
3.	Financial Soundness (annual turnover {of Lead Partner in case of consortium} during each of the last three years [years 2018-19,2017-18, 2016-17]) <b>(Total Max.Marks-15)</b>	<b>Turnover:</b> i. For annual average turnover above Rs. 4.00 Crore = 10 marks ii. For turnover in excess of Rs. 4.00 Crore @ 1 marks per Rs. 1.00 Crore each (maximum of 15 marks).	15	
4.	Experience of works undertaken/completed costing minimum 1.50 crore and above during last 7 years <b>(Total Max Marks- 15)</b>	For completed works having value ≥ Rs. 3.00 Crore - 10 marks for each work (Maximum 15 marks) For completed works having value ≥ Rs. 2.25 Crore<3.00 Cr - 7 marks for each work (Maximum 15 marks) For completed works having value ≥ Rs. 1.50 Crore< 2.25 Cr - 5 marks for each work (Maximum 15 marks)	15	
5.	Technical presentation before the Technical Evaluation Committee <b>(Total Max Marks- 50)</b>	(a) Design/concept of the design - 15 Marks (b) Technology adopted / quality of equipment - 15 Marks (c) Control system design flexibility - 10 Marks (d) Illumination look & feel - 10 Marks	50	

## **9. COMPLETION TIME**

The project/work is to be completed within **5 Months** from the date of issuance of the work order/LOI.

## **10. DEFECT LIABILITY PERIOD and COMPREHENSIVE ANNUAL MAINTAINENCE CONTRACT**

- i. **Defect Liability Period (DLP) shall be of ONE YEAR** from the date of actual satisfactory completion & handing over of the entire job as certified by the authorities of NCSM/NGMA.
- ii. The Comprehensive Annual Maintenance Contract (CAMC) will be of TWO YEARS and will commence from the date of satisfactory completion of the Defect Liability Period.
- iii. During the Defect Liability Period and the Comprehensive Annual Maintenance Contract Period, the successful bidder within their quoted rates shall service & maintain the entire façade lighting system installation with all its control units & other accessories, rectify any or all the observed defects or any or all the defects as pointed out to them within a reasonable time, as decided by the competent authority of NCSM/NGMA.
- iv. During the DLP as well as the CAMCP, minimum 1 visit per quarter will be given by the Service Engineer/Technician of the successful bidder for a thorough inspection, checking, repairs & maintenance of the entire façade lighting system for which all tools, tackles and material including spares as well as the required skilled/specialised manpower shall be arranged by the bidder at their expenses & risk.
- v. Apart from the routine quarterly visits as above, whenever the successful bidder is called for providing any kind of repairs/maintenance, they shall render all such services within a reasonable time, any number of times within the quoted rates and at no extra cost or expenses whether during the DLP or the CAMCP.
- vi. A register of such visits during DLP & CAMCP as well as a log-book of services rendered/ major works done shall be maintained wherein counter signatures of the authorised NCSM/NGMA representative shall be obtained from time to time.
- vii. A penalty in the form of deduction as deemed fit by NCSM/NGMA authority shall be applied and be deductible from the Retention Money / Security Deposit of the bidder for any lapse in providing services, rectifying defects or in case of an inordinate delay in attending the faults/defects or responding to the service/breakdown calls.
- viii. If the successful bidder fails to rectify the defects within a reasonable time, such defects will be rectified by NCSM/NGMA by engaging departmental staff or outside Agencies at their discretion, and the cost thereof, as decided by NCSM will be deducted from the Retention Money / Security Deposit of the successful bidder retained by NCSM.

- ix. The bidder may separately prepare & upload a detailed scope of CAMC with other terms & conditions on their letter head which will be mutually modifiable with the successful bidder during the execution of the work and the DLP.

## 11. TERMS OF PAYMENT

Total Contract Payment shall be on progressive basis as per the breakup in the following table:

SL No	On Achieving of Milestone No*	Percentage of total Payment admissible (after Retention Money/Security Deposit and other statutory deductions)
1	1	5% of work awarded/ordered amount
2	2	50% of the actual work done
3	3	35% of the actual work done after adjusting the excess or less payment done, calculated based on the actual work done
4	4	10% of the actual work done
5	5	Refund of 50% of Security Deposit
6	6	Refund of balance 50% of Security Deposit

### \* Please refer to Point 4, Scope of Work of this Tender Document

In case of the work is carried out in phases, total payment admissible will be computed on pro-rata basis based on completed percent of work vis-à-vis total work under consideration.

All payments, as above, shall become payable within fifteen days of submission of the respective invoices. The payment shall be transferred to the bank account of successful bidder through electronic transfer only, for which the bank details of the bidder has to be provided with each invoice.

Statutory deductions/recoveries viz. TDS, TDS GST, Labour Cess, etc. shall be made as per the relevant provisions from the payment due to the bidder from time to time.

## 12. OTHER TERMS AND CONDITIONS

- i. The successful Bidder shall submit within 3 (three) days from the date of placement of the work order the duplicate copy of the work order duly signed with official stamp on all the pages as a token of their acceptance of the work order/LoI.
- ii. In case the successful bidder refuses to accept the offer after finalisation or does not comply with sending of acceptance of the order within 03 (three) days from the date of placement of the order as per the finalised and accepted terms & conditions, earnest money deposit would be automatically forfeited and the order shall be cancelled forthwith.
- iii. **Penalty Clause :**



In case of non-completion of the entire work within the stipulated time, and the delay is not attributable to site requirements, **Liquidated Damage (L.D.) @1% per week of the total cost of work awarded subject to a maximum of 10% of the gross value of work done or cost of work awarded, whichever is greater**, shall be recovered from the bill of the successful bidder.

- iv. The authorities of NCSM do not bind themselves to accept the lowest tender and reserves the right to accept or reject any or all tenders wholly or partially without assigning any reason whatsoever.
- v. The quoted rate shall remain unchanged during the entire contract period.
- vi. The successful bidder shall be liable for depositing all taxes, levies, cess, etc. on account of service rendered by it to concerned tax collection authorities from the time to time as per extant rules and regulations on the matter.
- vii. The successful bidder shall maintain all statutory registers under the applicable laws. The bidder shall produce the same, on demand, to the concerned authority of this Office or any other authority under Law.
- viii. The Tax Deduction at Source (TDS) shall be effected, as and when applicable, as per the provisions of Income Tax Act, as amended from time to time and a certificate to this effect shall be provided to the bidder/contractor/supplier by this Office.
- ix. In case, the successful bidder fails to comply with any statutory/ taxation liability under appropriate law and as a result thereof this Office is put to any loss/ obligation, monetary or otherwise, this Office (National Council of Science Museums, Kolkata) will be entitled to get itself reimbursed out of the outstanding bills or the Security Deposit of the Agency, to the extent of the loss or obligation in monetary terms.
- x. **Before submitting the offer, bidders may visit the National Gallery of Modern Art, New Delhi at their own cost and risk, to get an idea of actual building structure, façade area, surroundings, ambiance, site understanding, etc. which may help in designing an impressive facade lighting system, nature & quantum of work.**
- xi. Bidders should provide the details of their local office, service centres in Delhi/NCR for after sales service and maintenance of the entire system.
- xii. The successful bidder shall be required to depute a team of qualified and experienced personnel to co-ordinate, execute and supervise all the activities from commencement till completion and handing over the system. This team of personnel will also be required to monitor the progress and review in consultation with NCSM & NGMA officials on a regular basis.

- xiii. Bidders should provide escalation matrix of their company for this project. Names of all the persons, contact details along with their designation should be submitted.
- xiv. Bidder should submit the details of the major projects which they have done in the last Five Years.
- xv. Notwithstanding anything contained herein above, in case of any dispute, claim and/or legal action arising out of this contract, the same shall be subject to the jurisdiction of courts at Kolkata only.
- xvi. **Arbitration Clause:** All disputes and differences between the successful tenderer and the Council of any kind, except quality of workmanship and materials, whatever arising out of or in connection with the order on the carrying out of the work (whether during the progress of the work or after their completion and whether before or after the determination, abandonment or breach of the terms and conditions of the order) shall be referred to the sole arbitration of a person nominated by the Director General, National Council of Science Museums, whose decision in this regard will be final and binding on both the successful Tenderer and the Council.
- The provisions of the Arbitration and Reconciliation Act 1996 or any statutory modification of the rules made there under for the time being in force shall apply to arbitration's proceedings under this Clause.

### 13. TECHNICAL DETAILS

#### **SPECIFICATIONS FOR LED FLOOD-LIGHTS, WALL-WASHERS, SPOT-LIGHTS, BEAM-LIGHTS, ETC.**

The energy efficient LED RGB/RGBW flood lighting luminaires, Wall Washers, Spotlights or Beam lights, etc. for architectural dynamic façade lighting should be with Die-cast aluminium / Extruded Aluminium housing, powder-coated RAL7043 finish, weatherproof (IP66 or IP65) of wattages as given in the itemised Bill of Quantities and of Recommended/Acceptable/Approved make.

The Luminaires should be capable of producing dynamic colour changing lights for large scale facades with 16 million colours by DMX / Ethernet based / other controller as specified in the BoQ.

The beam angle of the luminaires shall be narrow/medium/wide or asymmetric as specified or as per the actual on site requirement for the desired effects.

Luminaires shall be complete with driver and capable of operating at line voltage without any separate power supply from 100-270V AC, 50Hz with power factor >0.9.

Fixtures shall be suitable to operate at an ambient temperature range of -10°C to +50°C and shall be IP66/IP65 and IK06 rated for outdoor usage.

Their Life time shall be at least L70:50000 burning hours at 50°C.

Luminaire shall be conforming to BIS(IS10322) or appropriate international standard and shall be complete with all necessary accessories required for proper working of fixture including weatherproof connection cables, waterproof connectors etc. as required.

The Luminaire should have DMX controller, related accessories, cable etc. as per site conditions. Work should be complete with necessary factory made weather proof cable, lenses, and external power cum data supply [if any], wiring, junction boxes, provisioning of power and data cabling etc. as required.

All luminaires have to be individually accessible and remotely controllable as well as with facility that they can be integrated at a later stage with the expansion work of Audio-Visual shows on the façade in future.

#### List of Recommended / Acceptable Makes

1	Various types of LED Light Fittings	Phillips / Osram / Wipro / Bajaj / Martin / Decon
2	DMX Controllers, Control Panels, Dimmers & other Accessories	Martin / Artistic Licence / Lite Puter / Entecc / Nicolaudie / EVO / RGB / SGM / DTS
3	Weather-proof Junction Boxes :	Hensel / Sintex
4	MCBs, MCCBs, Distribution Boards & accessories	Siemens / Legrand / Schneider / L&T / Hager / Havells
5	Power Cables & Wires	Polycab / Finolex / Havells / KEI
6	Control Cables	Polycab / Finolex / Belden
7	Starters, Contactors & Accessories	Siemens / L&T / ABB / Schneider /
8	Selector & Rotary Switches	Kaycee / Salzer
9	Push Buttons, Indicating Lamps & other Accessories	Siemens / L&T / Vishnav / Rishabh
10	Cable Glands, Lugs & accessories	Dowells / Braco / Comet
11	Terminals & Connectors	Elmex / Connectwell / Wago

#### Note:

- i. Any item of any of the above makes, excepting the specialised items, should at least have BIS mark failing which they should not be used in the project.
- ii. The above is only an indicative and not an exhaustive list of Recommended/Acceptable Makes. Other equivalent makes may be used by the bidder in the project subject to prior approval of such other makes/brands from the competitive NCSM authority.

#### 14. BILL OF QUANTITY

The detailed list of probable light fixtures, associated accessories, control gear, distribution boards and cables is as follows:

S.No.	Description	Qty	*Rate (in INR)	*Amount (in INR)
<b>Design, Engineering &amp; Installation Services</b>				
1	Design Engineering of Lighting & Control System with Trial Demo	1 job	14,00,000	14,00,000
2	Installation of the Lighting & Control System	1 job	35,00,000	35,00,000
<b>Supply of LIGHT FITTINGS *</b>				
3	36W Linear LED Wall Washer, Triac/DMX Dimmable, Various colour temperature - 2700/3000/4000°K, Various beam angles, Material: Aluminium, Finish: Powder Coated dholpur stone / red sandstone colour Outdoor IP65	365 no.	20,600	75,19,000
4	25W Track LED Spotlight, Triac/DMX Dimmable, Colour temperature - 2700/3000/4000°K, Various beam angles, Material: Aluminium, Finish: Powder Coated dholpur stone / red sandstone colour Indoor of IP42 or higher	233 no.	13,200	30,75,600
5	12W Linear LED wall washer, Triac/DMX Dimmable, Colour temperature - 2700/3000/4000°K, Various beam angles, Material: Aluminium, Finish: Powder Coated dholpur stone / red sandstone colour Outdoor IP65	12 no.	8,800	1,05,600
6	9W LED Spotlight, Triac/DMX Dimmable Colour temperature - 2700/3000/4000°K Various beam angles, Material: Aluminium Die Cast, Finish: Powder Coated red sandstone Outdoor IP65	53 no.	9,500	5,03,500
7	30W LED Flood Uplighter, Triac/DMX Dimmable, Colour temperature 2700/3000/4000°K / Amber, Various beam angles, Material: Aluminium Die Cast, Finish: Powder Coated dholpur stone / red sandstone colour, Outdoor IP65	20 no.	14,700	2,94,000
8	100W LED Round Spotlight, Triax/DMX Dimmable Various colour temperature - 2700/3000/4000°K, Various beam angles, : 15° / 30°, Material: Aluminium	146 no.	48,500	70,81,000

	Finish: Powder Coated dholpur stone / red sandstone colour, Outdoor IP65			
9	185W High Power LED Round Spotlight Triac/DMX Dimmable, 4000 °K, 7° beam angle Material: Aluminium, Finish: Powder Coated, dholpur stone / red sandstone colour, Outdoor IP65	9 no.	216,000	19,44,000
10	15W LED COB Spotlight, Various colour temperature - 2700/3000/4000°K, Material: Aluminium, Finish: Powder Coated, dholpur stone / red sandstone colour, Outdoor IP65	145 no.	14,000	20,30,000
11	High Powered 230W LED Gobo Projector 31° Optics, DMX controlled, Outdoor IP65	1 no.	452,400	4,52,400
12	50W LED COB Floodlight, 2700/3000/4000°K Triac/DMX Dimmable, Material: Aluminium Finish: White powder Coated, dholpur stone / red sandstone colour, Outdoor IP65	9 no.	12,500	1,12,500
13	20W Customised light fixture for the Gate Post Lantern Outdoor IP65	4 no.	10,300	41,200
<b>Supply of CONTROL &amp; OTHERS</b>				
14	Customised Extruded Aluminium Channel powder coated dholpur stone colour	290m	1,500	4,35,000
15	DMX512 Opto-splitters 1in 6out DIN Rail mounted in IP65 box	12 no.	72,700	8,72,400
16	DMX512 Touch Control Panel wall mounted computer programmable, 24 scene memory	1 no.	110,200	1,10,200
17	DMX512 Wall Mount Dimmers - 6Ch @10A each	11 no.	94,000	10,34,000
18	Stone Pedestals - Customised red sandstone block pre-drilled for cable access & mounting	220 no.	5,100	11,22,000
19	Pre-cast Foundations	65 no.	3,080	2,00,200
20	Junction Boxes IP65	746 no.	3,070	22,90,220
21	Earthing Pits	2 no.	35,180	70,360
<b>Supply &amp; Installation of DISTRIBUTION BOARDS</b>				
22	Main Distribution Board (MDB) with Indication / Metering and Timer Control i/c - 1#200A FP MCCB o/g - 2#40A TPNMCB - 2#40A TPNMCB - 1#40A TPNMCB - 1#40A TPN NCB	1 no.	175,900	1,75,900
23	Sub Distribution Board with Indications i/c - 1#40A TPNMCB	5 no.	44,000	2,20,000

	o/g - 18#10A SP MCB			
<b>Supply &amp; Installation of CABLES</b>				
24	3-1/2Cx95mm <sup>2</sup> 1.1 kV Grade, Cu Conductor, PVC Insulated, Inner Sheathed, Armoured PVC Sheathed Cables	50 m	4058	2,02,900
25	4Cx10mm <sup>2</sup> 1.1 kV Grade, Cu Armoured	625 m	750	4,68,750
26	3Cx2.5mm <sup>2</sup> 1.1 kV Grade, Cu Armoured	4180 m	380	15,88,400
27	3Cx1.5mm <sup>2</sup> 1.1 kV Grade, Cu Un-Armoured	836 m	189	1,58,004
28	Control Cable - CAT 6 UTP Armoured	3000 m	332	9,96,000
29	Earthing Cable - 1Cx16mm <sup>2</sup> 1.1 kV Grade, Cu Un-Armoured	625 m	462	2,88,750
		<b>TOTAL</b>		<b>3,82,91,884</b>

\* Cost Includes GST of 12% for items under supply of Light Fittings and 18% for rest.

\* Cost Includes Comprehensive Defect Liability Period of ONE YEAR after the completion of work

\* Cost Includes Comprehensive Annual Maintenance Contract of TWO YEARS after the completion of Defect Liability Period

**TENDER NO. I-18013/1/20(10)**

**Name of the Work: Conceptualisation, Planning, Design, Supply, Installation, Testing, Commissioning and Comprehensive Maintenance for a period of two years beyond the initial one year defect liability period of Dynamic Artistic Architectural Façade Lighting System at NGMA (Jaipur House), New Delhi**

**TECHNICAL (TECHNO-COMMERCIAL) BID**

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

10.	State the Name of the Banker including IFSC Code and Account Number of the Bidder to follow digital mode of payment.		
<b>Technical Eligibility Criteria</b>			
11.	Details of Earnest Money Deposit (EMD) Rs. 9.50 lakh (Rs. Nine Lakh, Fifty Thousand), through Demand Draft/Pay Order/NEFT/RTGS, in favour of National Council of Science Museums.	Submitted/ Not Submitted	
12.	The bidder should have a minimum of 5 years' experience in executing Façade Lighting projects <b>OR</b> having experience in installation of hardware equipment in the Lighting of Sound & Light Shows / Laser Shows or on Monument or Notified Buildings / Museums etc at International/ National / State level and must have accomplished at least 3 (three) related projects in last 5 years.(Annexure – D)	Submitted/ Not Submitted	
13.	The bidder should have an average annual financial turnover of at least Rs. 4.00 Crore in last 3 years. (Annexure – F)	Submitted/ Not Submitted	
14.	The bidder should have executed one single similar work of at least Rs. 3.00 Crore or two similar works of Rs. 2.25 Crore each or three similar works of 1.5 Crore each in last three years. (Annexure-D)	Submitted/ Not Submitted	
15.	The bidder should have associated/employed panel of expert(s) having following qualifications: i. Expert in the field of Façade Lighting design and planning and its related work, who will act as a Team Leader. ii. Electrical Engineer iii. Lighting Designer iv. System Programmer v. Other Manpower as per requirement of the project. (Annexure E)	Submitted/ Not Submitted	
16.	Name and details of the Manufacturer whose Light Fitting and Light Fitting Controller have been used by the bidder in any one of the major completed projects and with whom tie-ups/ agreements/dealership exist as on the date of submission of application for Empanelment for the following components as under: i. LED Light Fitting ii. Light Controller		
17.	Documentary evidences like Work Order, Completion Certificate, Income Tax Return, Audited Report, and Financial Statement, Valid MSME/NSIC Registration Certificate etc. to support. Sl no- 12 to 15above.	Submitted/ Not Submitted	



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

**Date:**

**Official Seal**

**Constituted Attorney**

**Signature of the Tenderer /**

**Note: -**

- 1) The Technical bids received shall be evaluated on the basis of eligibility criteria.
- 2) Non submission of any of the documents listed in 'General Information and Technical Eligibility Criteria', mentioned above, shall lead to summarily rejection of the offer. No further correspondence in this regard will be made. However, clarification may be asked on the 'General Information' mentioned above.
- 3) English translation of all such documents which are written in foreign language is required to be submitted.

**TENDER NO. I-18013/1/20(10)**

Name of the Work: Conceptualisation, Planning, Design, Supply, Installation, Testing, Commissioning and Comprehensive Maintenance for a period of two years beyond the initial one year defect liability period of Dynamic Artistic Architectural Façade Lighting System at NGMA (Jaipur House), New Delhi

**FINANCIAL BID FORMAT**

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

Tender Inviting Authority: Director General, National Council of Science Museums, Kolkata.					
Name of Work: Conceptualisation, Planning, Design, Supply, Installation, Testing, Commissioning and Maintenance of Dynamic Artistic Architectural Façade Lighting System at NGMA (Jaipur House), New Delhi.					
Contract No: Tender No					
Name of the Bidder/ Bidding Firm / Company :					
<b><u>PRICE SCHEDULE</u></b>					
(This is a just a format of the actual BOQ template and must not be filled here. The actual BoQ is available in Excel Sheet on CPP portal. Only the relevant columns of the BoQ available at CPP portal should be filled. No other format is acceptable. )					
Sl. No.	Item Description	Quantity	Units	Estimated Rate in Rs. P	TOTAL AMOUNT including Taxes in Rs. P
1	2	3	4	5	6
1	<b>Façade Lighting Concept, Design &amp; SITC:</b>				
1.01	<b>Conceptualisation, Planning, Design, Supply, Installation, Testing, Commissioning and Comprehensive Maintenance for a period of two years beyond the initial one year defect liability period of Dynamic Artistic Architectural Façade Lighting System at NGMA (Jaipur House), New Delhi as per Annexure – ‘A’.</b>	1.00	Job		
<b>Total in Figures</b>					
<b>Quoted Rate in Figures</b>		<b>Select</b>			
<b>Quoted Rate in Words</b>					

**Offline Financial Bid shall not be accepted under any circumstances.**

**EXPERIENCE IN INSTALLATION OF HARDWARE EQUIPMENT IN THE LIGHTING ON  
MONUMENT / NOTIFIED BUILDINGS AND MUSEUM ETC. ON BASIS OF FINALIZATION OF  
AGREEMENTS EXECUTED DURING THE LAST**

**5 YEARS SUPPORTED BY MINIMUM THREE CREDENTIALS**

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

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

\_\_\_\_\_  
(Signature of Authorized Signatory)

**FORMAT FOR AVAILABILITY OF TECHNICAL TEAM.**

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

<b>S.No</b>	<b>Key personnel / support staff</b>	<b>Name and short bio to be given by the bidder</b>
(a)	Team Leader	
(b)	Lighting Designer	
(c)	Electrical Engineer	
(d)	System Programmer	
(e)	Other Manpower	

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

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(Signature of Authorised Signatory)

**FORMAT FOR ANNUAL TURNOVER AS PER THE AUDITED ACCOUNTS**

**TOWARDS THE QUALIFYING EXPERIENCE**

S. No.	Financial Year	Turnover in Indian Rupees(INR)
1.	2016-17	
2.	2017-18	
3.	2018-19	

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

\_\_\_\_\_

(Signature of Authorised Signatory)

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

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

**NATIONAL COUNCIL OF SCIENCE MUSEUMS  
SECTOR-V, BLOCK-GN, BIDHANNAGAR  
KOLKATA : 700 091.**

**TENDER NO. I-18013/1/20(10)**

**DECLARATION**

We do hereby accept the "Scope of Work, Bill of Quantities, General Terms & Conditions etc. as provided by the National Council of Science Museums along with the Tender documents for the work of Design, Supply, Installation, Testing, Commissioning and Maintenance of Dynamic Artistic Architectural Façade Lighting System at National Gallery of Modern Art (NGMA) (Jaipur House), New Delhi and also under take to supply the said materials and carry out the work within the stipulated time strictly as per the Scope of work and Technical Specifications of National Council of Science Museums as provided along with the tender documents, in the event of placement of any order on us. The NCSM shall be at liberty to cancel the order in full or part, in the event of failure of the above declaration made by us and forfeit the EMD submitted by us.

Signature of the Bidder / Constituted Attorney

## FORMAT FOR ARTICLES OF AGREEMENT

### INSTRUCTIONS (not to be typed in Agreement)

(Articles of Agreement have to be typed on non-judicial stamp paper. The value of the stamp paper varies from state to state and is to be known from the particular place. The stamp paper will be purchased by the successful e-tenderer and the agreement may be typed by the Museum/Centre according to the format.)

ARTICLES OF AGREEMENT made at

.....

.....  
 this..... day of

.....  
 (Date) (Month & Year)  
 between the

.....

.....  
 (Name of the parent Museum/Centre)

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

.....

.....  
 (Name of the successful e-tenderer)

trading in the name and style of .....

.....

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

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

WHEREAS the Museum/Centre is desirous of getting the work of

.....

.....therein done and has caused  
 (Name of the work)

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

.....

.....

.....  
 (Name and address of the Architect).

Name of the work: Conceptualisation, Planning, Design, Supply, Installation, Testing, Commissioning and Comprehensive Maintenance for a period of two years beyond the initial one year defect liability period of Dynamic Artistic Architectural Façade Lighting System at NGMA (Jaipur House), New Delhi.

AND WHEREAS the said NIT (including appendix) drawings as per list attached, specifications and the priced schedule of quantities and conditions of contract have been signed by or on behalf of the parties hereto. AND whereas the Successful e-tenderer has deposited in Bank Draft/Pay Order/ NEFT/RTGS

.....  
(Exact amount in words)

the amount being 10% of the ordered value of the e-tender) with the Museum /Centre as Security Deposit for the due performance of this Agreement as provided in the said conditions.

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

1. In consideration of the payments to be made to him as hereinafter provided the successful e-tenderer shall upon and subject to the conditions herein contained execute and complete the work within ..... months from the date of issue of letter of intent / Work Order (as defined in the scope of work of the NIT) and as per the said drawings and such further detailed drawings as may be furnished to him from time to time and described in the said specifications and the said priced schedule of quantities along with the progress of the building work.
2. The Museum/Centre shall pay to the successful e-tenderer such sum as shall become payable hereunder at the time and in the manner specified in the said conditions.
3. Time is the essence of this agreement and the successful e-tenderer shall proceed with the work, throughout the stipulated period of this contract, strictly according to the CPM/PERT/BAR CHART attached herewith and forming a part of this agreement. At any stage during execution, if any work lags behind the target as indicated in the CPM/PERT/BAR CHART for reasons directly attributable to the successful e-tenderer, he shall pay or allow the Museum/Centre to deduct from any money due to him a liquidated damage as per Clause 11(iii) of the conditions of contract.
4. This agreement comprises the work above and all subsidiary works connected therewith, even though such works may not be shown on the drawings, or described in the said specifications or the priced Schedule of Quantities.
5. The Museum/Centre through the Engineer reserves to itself the right of altering the drawings and of adding to or omitting any item of work or of having portions of the same carried out departmentally or otherwise and such alterations or variations shall not vitiate this agreement.
6. All disputes and differences of any kind whatever, arising out of or in connection with the contract on the carrying out of works (Whether during the progress of the work or after their completion and whether before or after the determination, abandonment or breach of the contract) shall be referred to arbitration as per Clause 11(xvi) of Annexure - A of the said conditions of contract. In case of any legal dispute, other than the arbitration, the court of jurisdiction shall be at the place written in the first line of this agreement.

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

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



Signed by for and on behalf of the Museum/Centre

.....

.....

*(Controller of Administration)*

In the presence of

Seal

1. ....

*(Dy Controller, Finance & Accounts)*

2. ....

*(Project Co-coordinator/Engineer)*

Signed by the said Successful e-tenderer .....

In the presence of

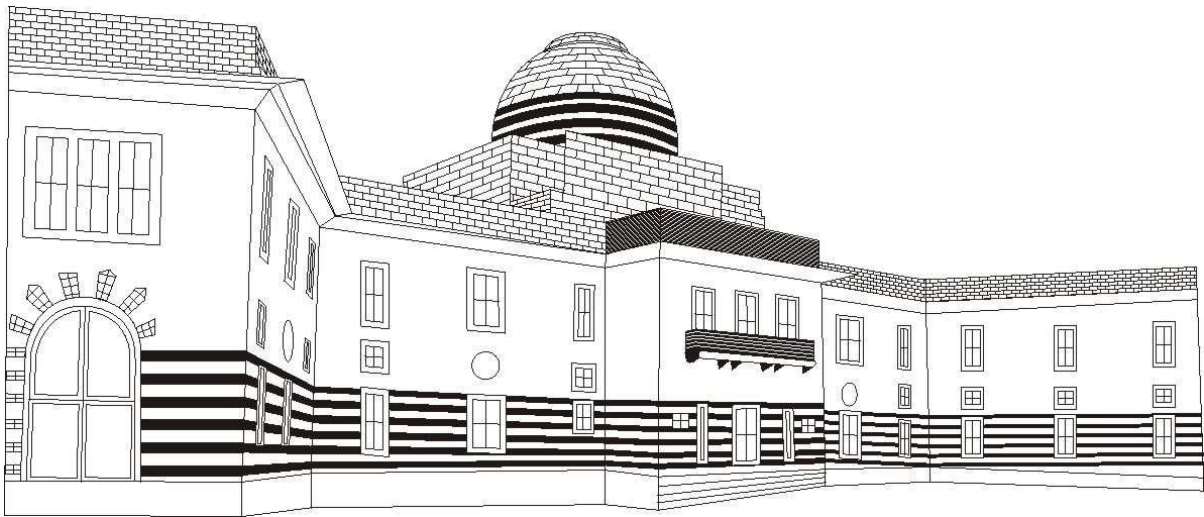
1. ....

Seal

2. ....

Tentative Images of NGMA (Jaipur House), New Delhi

A. Front Façade of Jaipur House, NGMA



**B. Birds eye view of Jaipur House, where Façade Lighting is to be done**



**C. Plan View of Jaipur House, NGMA**

JAIPUR HOUSE



## CHECK LIST

Sl. No.	Nomenclature	Yes/No
1	Whether the Tender documents have been completely read, understood and accepted	
2	Whether soft copy of EMD of Rs.9,50,000.00 has been uploaded	
3	Whether hard copy of EMD has been submitted to NCSM	
4	Whether fund transfer details such as UTR Number, date etc. have been uploaded	
5	Whether the Bid is valid for 90 days from the date of opening of financial bids	
6	Whether Technical (Techno-Commercial) Bid” (as per <b>Annexure-B</b> format) has been duly filled in and digitally signed with official stamp.	
7	Whether all relevant documents related to “Technical (Techno-commercial) Bid” as per <b>Annexure-B</b> have been uploaded	
8	Whether the Technical Brochures of each equipment with technical explanation for every feature of the product offered have been uploaded.	
9	Whether the scanned copy of Scope of Work, Bill of Quantities, General Terms & Conditions etc. ( <b>Annexure-A</b> ) duly signed by the Authorized Signatory with official stamp as a token of acceptance of the same have been uploaded.	
10	Whether the Financial Bid (BOQ)” (as per Detailed Scope of Work and Bill of Quantities) i.e. Schedule of Price Bid in the item wise tabular format have been duly filled in and digitally signed	
11	<b>Whether the BOQ has been filled up as percentage below/above/at par as per the BoQ</b>	
12	Whether “Cost Break-up” for each quoted components (as per Detailed Scope of Work and Bill of Quantities) duly filled in tabular format and digitally signed with official stamp.	
13	Whether documentary proof for One similar work of value not less than Rs. 3.00 Crore of the estimated cost of work.  Or Two similar works each of value not less than Rs. 2.25 Crore of estimated cost of work.  Or Three similar works each of value not less than Rs. 1.50Crore of estimated cost of work has been uploaded(Please specify)	
14	Whether Agency Experience (Private/PPP/Joint Venture Projects) (Annexure-D) has been filled up and uploaded	
15	Whether format for availability of Technical Team (Annexure-E) has been filled up and uploaded	
16	Whether format for annual turnover (Annexure-F) has been filled up and uploaded	
17	Whether Declaration as per Annexure-G has been signed and uploaded	
18	Whether the Format for Articles of Agreement (Annexure-H) has been read	