NATIONAL COUNCIL OF SCIENCE MUSEUMS

SECTOR-V, BLOCK-GN, BIDHANNAGAR,

KOLKATA : 700 091.

NOTICE INVITING E-TENDER

TENDER NO. I-18012/7/17(295)

On-line Digitally signed e-tenders are invited in two Bid System from the manufacturers or their authorized registered Indian agent for Supply and Installation of 2 sets of Full-Dome Projection System with mounting structure at site (North Bengal Science Centre, Siliguri and District Scince Centre Dharampur, Gujrat) as per Council’s technical specification. Only reputed manufacturers or their authorised registered Indian agents having proven experience in supplying similar product and capability to render after Sales Service in India at site 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/) . Bid submission end date is **February 19 , 2018.** Online Technical (Techno-Commercial) Bid will be opened at the first instance in this office **at 12.00 p.m. on February 20, 2018** for technical evaluation as well as selection of techno-commercially acceptable offers and at the second stage, the Financial Bids of only the selected and techno-commercially acceptable equipment/offers will be opened **at 3:00 p.m. on February 26, 2018** Off-line tenders shall not be accepted and no request in this regard will be entertained whatsoever. Decision of the Council regarding selection of eligible and qualified vendors/firms for opening the Financial Bid shall be final and binding on the bidders.

NATIONAL COUNCIL OF SCIENCE MUSEUMS

SECTOR-V, BLOCK-GN, BIDHANNAGAR,

KOLKATA : 700 091.

NOTICE INVITING E-TENDER

TENDER NO. I-18012/7/17(295)

On-line digitally signed e-tenders are invited in two Bids System from the manufacturers or their authorised registered Indian agent for supply and installation of **Full-Dome Projection System with mounting structure consists of Professional grade DLP Projector with effective dome resolution @ 1600 x 1600 px having dual Lamp facility and high quality Distortion free fish eye lense strictly as per the Council’s Technical Specification as specified in Annxure – “C”.**Only reputed manufacturers or their authorised registered Indian agents having proven experience and capability to render after sales service in India at site may download the Tender Papers from Central Public Procurement Portal (CPPP):<http://eprocure.gov.in/eprocure/app>or from Council’s website[www.ncsm.gov.in](http://www.ncsm.gov.in) as per the following schedule:-

|  |  |
| --- | --- |
| Bid Document Published Date | January 23, 2018 |
| Bid Document Download Start Date | January 23, 2018 |
| Bid Document Download End Date | February 18, 2018 |
| Bid Submission Start Date | January 23, 2018 |
| Bid Submission End Date & Time | February 19, 2018 (upto 12 pm) |
| Technical (techno- Commercial) Bid Opening Date | February20, 2018 (at 12 pm) |
| Financial Bid opening Date | February 26, 2018 (at 3 pm) |
|  |  |

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 this lies with the Bidder. Off-line tenders shall not be accepted and no request in this regard will be entertained whatsoever. Online Technical (Techno-Commercial) Bid will be opened at the first instance in this office **at 12 pm on February 20, 2018** for technical evaluation as well as selection of techno-commercially acceptable offers and at the second stage, the Financial Bids of only the selected and techno-commercially acceptable equipment/offers are scheduled to be opened **at 3 pm on February 26 2018.** Decision of the Council regarding selection of eligible and qualified vendors/firms and or equipment in particular for opening the Financial Bid shall be final and binding on the bidders. Bidders may be present during opening of tenders.

NCSM 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 equipment/system as well as after sales service including infrastructure to

render such service etc. shall be of prime consideration for selection of the equipment.

# ANNEXURE - A

# General Information and Instructions

1. The instruction given herein will be strictly binding on the tenderers and deviation, if any will make the tender or tenders liable to be considered invalid. Tenders incorporating additional conditions by the tenderer 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 instruction given in **“Annexure-B” for “Instruction for Online Bid Submission”** should be strictly followed during submission of the Bid.
4. Bid documents may be scanned with 100 dpi with black and white option which helps in reducing size of the scanned document.
5. An agent of foreign OEM, for submitting the offer on behalf of OEM, would be required to produce a copy of their legal agency agreement with their principal and a copy of registration/enlistment with DGS&D as an Indian agent, if registered/enlisted, failing which their bid would be disqualified.
6. **Validity of Bids**: The Bids should remain valid for 180 days from the date of Financial bid opening.
7. **Rejection of Bids:** Canvassing by the Bidder in any form, unsolicited letter and post-tender correction may invoke summary rejection. Conditional tenders will be rejected. Non-compliance of applicable General Information and Instruction will disqualify the Bid.
8. The tenderers should have Digital Signature Certificate (DSC) for filling up the Bids. The person signing the

tenderdocuments should be authorized for submitting the on line e-tender.

1. The Tenderers shall fill up the Prescribed Format for submission of **Technical (Techno- commercial) Bid as per**

**“Annexure-D”** format duly signed by the authorized signatory. The person signing the tender document

should be authorised for submitting the online e-tender.

1. The Financial Bid shall be filled in and signed by the authorized signatory online as per Proforma **“Annexure-F”** available at Central Public Procurement Portal e-tender system website <http://eprocure.gov.in/eprocure/app>. Off line Financial Bid shall not be accepted.
2. **Tender must be uploaded in two separates 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**

1. **Scanned copy of General Information & instruction and Instruction for online bid submission as detailed in Annexure- ‘A’ & ‘B’duly digitally signed by the authorised signatory as token of acceptance.**
2. **Technical Specification ( as per Annexure –“C” format ) shall be digitally signed as token of acceptance.**
3. **Technical (techno-Commercial) Bid (as per Annexure- ‘’D‘’ format) shall be duly filled in and digitally signed .**
4. **Prescribed Undertaking by the OEM as per “Annexure- “E” format duly Self attested and digitally signed.**
5. **Copy of Technical Literature / Brochure of the equipment duly self attested and digitally signed.**

**Cover-2**

**The Financial Bid (as per Annexure- “F” format) i.e. Schedule of Price Bid in the form of attached BOQ Proforma shall be duly filled in and uploaded online by the bidder in Cover-2 .**

**The Cover-1 i.e. Technical (Techno-commercial) Bid shall be opened by the Council at the first instance and evaluated by the competent authority of the Council. 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.**

1. The authorities of National Council of Science Museums do not bind themselves to accept mere lowest

tender and reserve the right to reject or accept any or all tenders wholly or partially without assigning any

reason whatsoever.

# ANNEXURE -B

**NATIONAL COUNCIL OF SCIENCE MUSEUMS**

**SECTOR-V, BLOCK-GN, BIDHANNAGAR,**

**KOLKATA – 700 091.**

**TENDER No.: I-18012/7/17(295)**

# 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>

**REGISTRATION**

* 1. Bidders are required to enroll on the e-Procurement module of the Central Public Procurement

Portal (URL: https://eprocure.gov.in/eprocure/app) by clicking on the link “**Online bidder**

**Enrolment**” on the CPP Portal which is free of charge.

* 1. As part of the enrolment process, the bidders will be required to choose a unique username and

assign a password for their accounts.

* 1. 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.

* 1. 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.

* 1. 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.

* 1. Bidder then logs in to the site through the secured log-in by entering their user ID / password and

the password of the DSC / e-Token.

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

**PREPARATION OF BIDS**

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

**SUBMISSION OF BIDS**

1. Bidder should 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. Bidder will be responsible for any delay due to other issues.
2. The bidder has to digitally sign and upload the required bid documents one by one as indicated in the tender document.
3. A standard Price Schedule format (BOQ) has been provided with the tender document to be filled by all the bidders. Bidders are requested to note that they should necessarily submit their financial bids in the format provided and no other format is acceptable. If the price bid has been given as a standard BOQ format with the tender document, then the same is to be downloaded and to be filled by all the bidders. Bidders are required to download the BOQ file, open it and complete the white coloured (unprotected) cells with their respective financial quotes and other details (such as name of the bidder). No other cells should be changed. Once the details have been completed, the bidder should save it and submit it online, without changing the filename. If the BOQ file is found to be modified by the bidder, the bid will be rejected.
4. 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.
5. All the documents being submitted by the bidders would be encrypted using PKI encryption techniques to ensure the secrecy of the data. The data entered cannot be viewed by unauthorized persons until the time of bid opening. The confidentiality of the bids is maintained using the secured Socket Layer 128 bit encryption technology. Data storage encryption of sensitive fields is done. Any bid document that is uploaded to the server is subjected to symmetric encryption using a system generated symmetric key. Further this key is subjected to asymmetric encryption using buyers/bid openers public keys. Overall, the uploaded tender documents become readable only after the tender opening by the authorized bid openers.
6. The uploaded tender documents become readable only after the tender opening by the authorized bid openers.
7. Upon the successful and timely submission of bids (i.e. after Clicking “Freeze Bid Submission” in the portal), the portal will give a successful bid submission message & a bid summary will be displayed with the bid no. and the date & time of submission of the bid with all other relevant details.
8. 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.

**ANNEXURE-“D”**

**NATIONAL COUNCIL OF SCIENCE MUSEUMS**

**SECTOR-V, BLOCK-GN, BIDHANNAGAR,**

**KOLKATA – 700 091.**

**TENDER No.: I-18012/7/17(295)**

# TECHNICAL (Techno-Commercial) BID.

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

01. Name of the tenderer :

02. Mailing address of the tenderer :

including PIN/ZIP Code

03. Communication details like

Telephone numbers(s) :

Fax number(s) :

E-mail address :

Website number:

04 i) Background details of the firm :

(State whether original manufacturer /

authorised Registered Indian Agent

of the manufacturer).

ii) Incase of authorised Registered Indian Agent, :

submit notary certified copy of the Agency

Agreement with the manufacturer.

iii) In case of authorised Indian Agent, :

state whether enlisted with Central Purchase

Organization (i.e. DGS&D) as per

Compulsory Enlistment Scheme of Govt. of

India (State ‘YES or ‘NO’)

iv) If the answer of (iii) is ‘YES’, submit :

notary certified copy of enlistment Certificate duly

issued by the CPO(i.e. DGS&D) of Govt. of

India.

05. Following details should be submitted in case the :

tenderer is the manufacturer of the equipment:

a) Year of establishment :

b) Past experience in such business for last 3 years :

giving details of established clients. Submit

satisfactory certificate issued by such clients.

**-: 2 :-**

06. Following details should be submitted in case the :

tenderer is not the manufacturer of the equipment:

a) Name of the manufacturer :

b) Year of the establishment :

c) Past experience in such business for last 3 years :

giving details of established clients. Submit

satisfactory certificate issued by such clients.

07. i) Whether capable to supply and install the Full-Dome :

Projection System with mounting structure :2 Sets; consist of

Professional grade DLP projector with effective dome

Resolution @ 1600 x 1600 px having dual Lamp facility

and highquality reputed brand Distortion free fish

eye lens strictly asper enclosed technical specification

given in Annexure – “C”

(02 nos spare lamp for the Projector shall be provided

with each Set)

(The system will be installed at North Bengal Science

Centre Siliguri and District Science Centre Dharampur)

(Please mention “YES” or “NO”)

ii) If it is mentioned “NO” above, submit detailed deviation to :

be made from the enclosed Technical Specification.

Attached extra sheet, if required

**iii**) If it is mentioned “YES” above, submit the details :

specifications of the offered product including copies

of **Product brochure ofboth Prjector & Lens.**

08. State the name & address of the Vendor to whom :

the Order will placed .

09. State detail address and setup link (**onlyin India**) :

Wherefrom support for maintenance during Warranty

Periodshall be offered by the firm.

11. i) Whether agreed to accept AMC after the warranty period is over :

(State ‘YES or ‘NO’)

ii) If the answer above is ‘Yes’, state the detail address :

and set up link (**onlyin India**) where from support for maintenance

during post warranty shall be offered by the firm.

12. Minimum down time to handle breakdown :

calls and/or any sort of emergencies.

1. Warranty Period : Comprehensive Warranty for 3 years for projector :

and 500 hours or 90 days on lamp should be provided.

( State ‘YES’ or ‘NO’)

14. Payment terms :

(all payments shall be made only through bank against

irrevocable Letter of Credit)

15 a) Whether agreed to deliver the goods without any advance :

Payment (State ‘YES or ‘NO’)

b) Whether agreed to retain adequate Security in the form :

of Bank Guarantee etc. for strict observance of Warranty

terms during the Warranty period.

**NCSM prefers to release 90% payment after delivery of the**

**Equipment at site and balance 10% payment after**

**Installation of the equipment at site.**

16. a) Minimum time required to deliver the Full-Dome :

Projection system

b) Minimum time required to install the delivered equipment :

at site after delivery.

17 Validity of the offer for acceptance :

(minimum 180 days from the due date of opening

of the may be offered for acceptance).

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 firm/models of Full-Dome Projection System for opening of Financial Bid shall be final

and binding on me/us.

**Dated Official Seal Signature of the Tenderer/Constituted Attorney**

**ANNEXURE-E**

**PROFORMA FOR ISSUING “UNDERTAKING BY ORIGINAL EQUIPMENT MANUFACTURER” .**

**( To be submitted in OEM’s Letter head.)**

Dated:

**To**

**The National Council of Science Museums,**

**Block-GN, Sector-V, Bidhannagar,**

**Kolkata : 700 091.**

Dear Sir,

We, \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

hereby state that the product offered vide this tender by our authorized agent:

M/s. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ and to be supplied if found

selected and suitable shall be our original equipment and is to be deemed as if the supply has

been made by us directly.

Accordingly, we stand by all the terms, conditions and stipulations as defined in tender

No.I-18012/7/17 (295) of National Council of Science Museums.

We also undertake to directly make good of any shortcomings either in product quality and/or

in services which my/our authorized agent may fail to fulfil as a part of his obligations under

the terms & conditions of this tender.

Thanking you,

Yours faithfully,

(Authorised Signatory with Seal).

**ANNEXURE-“C”**

**TECHNICAL SPECIFICATION**

Supply of Full-Dome Projection System with mounting structure - 2 Sets

**Full Dome Projector with effective dome resolution @ 1600 x 1600 px**Professional grade DLP projector having dual Lamp facility and high quality Distortion free fish eye lens firmly mounted for full dome projection. It is preferred to keep the tip of the lens of the projector at around **170 cm** from finished floor level to avail full resolution.

The System will be installed at North Bengal Science Centre, Siliguri and District Science Centre, Dharampur, Gujrat

*Detailed Specification of System Components:*

**DLP Projector with DarkChip technology**

Single chip, powered lens shift system

Color wheel: High Brightness   
Technology: Single chip DLP projector LVDS DMD with DarkChip technology  
Native Resolution: WQXGA (2,560 x 1,600),   
Brightness: Minimum 7,500 lumens   
Contrast: Up to 8,000 : 1   
Aspect ratio 16:10 (WQXGA),  
Latency: Maximum 19 ms  
Computer graphics formats: Up to 2,560 x 1,600 pixels   
Horizontal scan frequencies: 10 - 150kHz  
Vertical scan frequencies: 48 - 190 Hz (resolution dependent)  
Video formats: HDTV (1080p, 1080i, 720p), EDTV (576p, 480p), SDTV (576i, 480i), NTSC, PAL, SECAM, progressive scan  
Lens operation: Motorized zoom, Focus, Shift, Iris and Mechanical shutter  
Image width: 0.5 - 10 m  
Light source: 2 x 300W UHP VIDI  
Lamp lifetime: Minimum 2,000 hours (Full power) / Minimum 2,500 hours (Eco mode)  
Computer inputs: 2 x DVI-I, 2 x HDMI 1.3a, 2 x VGA  
Video Input: 1 x Component, 1 x S-video  
Control possibilities: 1 x RJ-45 TCP/IP, 1 x 9-pin D-SUB RS232, 2 x 12V programmable trigger (3.5mm mini jack), 1 x Wired Remote 3.5mm mini jack, 2 x USB  
Power requirements 100-240VAC 50-60Hz,   
Conformances: CCC, cNus, FCC Class A, cUL, UL and CE  
Operating temperature: 10 - 40 °C  
Storage temperature: -20 - 60 °C  
Operating humidity: 20 - 80% RH  
Storage humidity: 10 - 90% RH

Duty Cycle: This projector is should be designed for heavy duty 24/7 operation.   
MTBF: Minimum 34,000 hours

Manufacturer, Model number and Technical details of the projector should be furnished along with the offer.

**Warranty: Comprehensive warranty is to be provided for three years. The mode of support is to be stated clearly. 500 hours or 90 days on lamp   
*Note: After sales support is to be provided from India only. It is mandatory to have authorized service workshop of the manufacturer of the projector in India only.***

**Compatible Fish Eye Lens**

The fish eye lens should be manufactured by a reputed manufacturer.  
**All optical parts of the lens should be made of ceramic (No Resin/Plastic parts)**  
The FOV of the lens is preferred to be chosen to keep the dimension of the central projection system within the following limits for 1600x1600 pixels visible projection on dome:   
Height (tip of the lens): around 170 cm from finished floor (@ 270 cm horizon height)  
  
Light Transmittance: 80%  
Lateral Color: R-G < 3.4μm  
Lateral Color: B-G < 3.6μm  
F-Theta Distortion: -5% Max  
Relative Illumination: 95%  
  
Manufacturer, Model number and Technical details of the lens should be furnished along with the offer.

**Mounting Structure**The mounting structure should be sleek but sturdy and matching with the ambience. It should have provision for height adjustments and mechanical mounting facility on floor. The structure is preferred to be made of metal with matt black painting.

**Spare Lamps for the projector: 2 Nos. with each Set (total 4 Nos.)**