

TENDER NOTICE

1. Vigyan Prasar, an autonomous organization of DST invites sealed tenders/quotations in **TWO BID SYSTEM** for **Setting up of digital exhibits on Mahatma Gandhi at multiple locations across the country.**
2. Detailed terms and conditions, procedure for submission of bids and other instructions have been mentioned at **Annexure-I.**
3. Interested agencies are requested to submit their Technical Bid and Financial Bid in separate sealed covers and enclosing both the sealed covers in another sealed cover superscribing "**TENDER FOR Setting up of digital exhibits on Mahatma Gandhi at multiple locations across the country**" addressed to The Registrar, Vigyan Prasar, A-50, Institutional Area, Sector-62, Noida-201 309, U.P. and send the same by hand/Post to Vigyan Prasar at the given address.
4. The detailed schedule of opening of the bids is given below:

S. No.	Activity	Date and Time
a.	Last date for submission of Bids	18 July 2019 (5 PM)
b.	Last date for clarification, if any	03 July 2019 (through mail)
c.	Pre-bid conference	05 July 2019 (11 AM)
d.	Opening of Technical Bids	19 July 2019 (11.30 AM)
e.	Presentation by eligible bidders	19 July 2019 (after opening of technical bid)
f.	Opening of Financial Bids	20 July 2019 (11 AM onward)

5. Tenders received after the closing date and time, shall be rejected.

**Admin Officer
Vigyan Prasar**

1. Procedure for submission of Bids:

- 1.1. The Technical Bid and Financial Bid should be placed in separate sealed covers with the wordings “Technical Bid” and “Financial Bid” respectively super-scribed on them. It may be noted **that prices must not be indicated in the Technical Bid and must only be indicated in the Financial Bid.**
- 1.2. The cover containing Technical Bid and Financial Bid must be put in another envelope (bid cover). The Bid Cover should be clearly marked “**TENDER FOR Setting up of digital exhibits on Mahatma Gandhi at multiple locations across the country**”.
- 1.3. The technical details & scope of work is defined in **Annexure II.**
- 1.4. The cover thus prepared should also indicate clearly the name, address and telephone number of the Bidder to enable the Bid to be returned unopened in case it is declared “**Late**”.
- 1.5. Each copy of the Technical Bid and Financial Bid should be a complete document and should be bound as a volume separately.
- 1.6. Along with technical bid, the sample designs of the proposed technology must be submitted.

2. Bid Prices:

- 2.1. The Bidder shall indicate in the proforma prescribed at **Annexure-III** the detailed and the total Financial Bid Price for services it proposes to provide under the Contract in **Indian Rupees (INR)**. Prices quoted must be firm and fixed and shall not be subject to any upward modifications, on any account whatsoever. In absence of above information, a bid may be considered incomplete and summarily rejected.
- 2.2. The Bidder shall prepare the bid based on details provided in the Tender documents. The Bidder shall carry out all the tasks in accordance with the requirement of the Tender documents and it shall be the responsibility of the Bidder to fully meet all the requirements of the Tender documents.
- 2.3. The Financial bid should clearly indicate the price excluding GST to be charged without any qualifications whatsoever and should **include other duties, fees, levies, works contract tax and other charges as may be applicable** in relation to the activities proposed to be carried out.
- 2.4. The estimated cost for one location (Gandhi Darshan, New Delhi) will be approx Rs 80 Lakhs and for replication at different places across the country (As per the list attached i.e, one in Gandhi Smriti, New Delhi and 15 National Science Centers) will be approx Rs 18 Crores.

3. Authorized Signatory (Bidder):

- 3.1. The "Bidder" as used in the Tender shall mean a Company/ Limited Liability Partnership (LLP)/Proprietorship who submits the proposal to Vigyan Prasar for providing the services required under the proposed Contract, and who has signed the Tender document forms.
- 3.2. The Bid shall be type written and shall be signed by a person or persons duly authorized to bind the bidder to the contract. The letter of authorization shall be indicated by a written power-of-attorney accompanying the bid. The person or persons signing the bid shall initial all pages with seal/stamp.
- 3.3. The Bidder shall duly sign and seal its bid with the exact name of the company firm to whom the contract is to be issued.
- 3.4. The bid shall contain no interlineations, erasures or overwriting except as necessary to correct errors made by the Bidder, in which case such corrections shall be initialed by the person or persons signing the bid.

4. Eligibility criteria:

- 4.1. The "Bidder" should be a Company/Consortium/Limited Liability Partnership (LLP)/Proprietorship firm registered & incorporated under the Indian Companies Act, 1956/2013/Limited Liability Partnership Act 2008/ respectively, including any amendments, re-enactments thereof. **(Annexure IV)**
- 4.2. The bidder should have minimum two projects of one crore or more in the last three years on information technology. **(Annexure V)**
- 4.3. The Bidder Company/Consortium/Limited Liability Partnership (LLP)/Proprietorship firm shall have a minimum average annual financial turnover of at least five Crore during last three financial years, ending 31st March of the previous financial year, i.e. 2016-17, 2017-18 and 2018-19. If Audited annual report for 2018-19 is not available, CA Certificate shall be submitted for this purpose.
- 4.4. If the agency is registered as a Start up unit, the agency should have designed and developed minimum three programmes and activities on digital technology during last three years. The agency should have own/collaborative design and production house and well trained staff/agency for different work profile of design aspects, and large scale exhibition. The "Startup" should have an annual turnover of Rs. One crore during each of the last three years.
- 4.5. Definition of consortium: A Consortium of a maximum of three (3) members of above such entities comprising one Lead Member with other members shall be allowed and shall hereinafter be referred as "Consortium". The Bids submitted by a Consortium should comply with the following additional requirements:

1. The number of members in the Consortium would be limited to the maximum of three (3);
 2. The Application should contain the information required from each member;
 3. The Application should include a description of the roles and responsibilities of all the members;
 4. Members of the Consortium shall nominate one member as the Lead Member and that member must be an entity as defined above;
 5. Participating Agency who has participated in this tender in its individual capacity or as part of a Consortium cannot participate as a separate Agency of any other Consortium participating in this tender;
 6. The members of the Consortium shall execute a Power of Attorney for Lead Member of Consortium.
 7. The members of the Consortium shall enter into a Memorandum of Understanding (MoU), for the purpose of submission of the Application. The MoU should, inter alia, (i) Clearly outline the proposed roles and responsibilities of each member of the Consortium; (ii) Include a statement to the effect that all members of the Consortium shall be liable jointly and severally for the assignments arising out of the States, Union Territories and million plus cities, as the case may be and in accordance with the terms of the contract agreement therefore; (iii) A copy of the MoU signed by all members should be submitted along with the technical bids. The MoU entered into between the members of the Consortium should contain the above requirements, failing which the Application shall be considered non-responsive. MoU so entered should be a registered MoU.
 8. Any change in the composition of a Consortium after submission of bids, during the term of evaluation process, and during the contract period shall not be permitted.
- 4.6. Participating agency /consortium should be profit making organisation. The audited balance sheet for the last three years may be attached with the technical bids, otherwise bids will be rejected.
- 4.7. Participating Agency or Consortium which has earlier been barred by Vigyan Prasar or blacklisted by any State /UT Government or Central Government / department / Agency in India from participating in Bidding Process shall not be eligible to submit bids, either individually or as member of a Consortium, if such bar subsists as on the submission Due Date. The Participating Agency or Consortium shall be required to furnish an affidavit that there is no such bar imposed and existing as on date.
- 4.8. Participating Agency or member of Consortium should have, during the last three years, neither failed to perform on any agreement, as evidenced by imposition of a penalty or a judicial pronouncement or arbitration award against the Bidder or member of Consortium, nor been expelled from any project or agreement nor have had any agreement terminated for breach by such Bidder or member of Consortium. In case the Bidder or member of Consortium during period of bidding process, fails to perform on any agreement, as evidenced by imposition of a penalty or a judicial pronouncement or arbitration award against the Bidder or member of Consortium, or been expelled from any project or agreement or have had any agreement terminated for breach by such

Bidder or member of Consortium, such Bidder shall cease to be empaneled with Vigyan Prasar.

- 4.9. The bidders have to deposit Earnest Money Deposit (EMD) of Rs. 54,00,000/- (Rupees Fifty four Lakhs only) and tender fee of Rs 10,000/- (Rupees Ten Thousand only) through account payee demand draft drawn in favour of "Vigyan Prasar" and payable at New Delhi or can be paid through online by NEFT/RTGS/IMPS to Vigyan Prasar account as detailed below (kindly submit details of NEFT with the proposal):-

Account Name/ VIGYAN PRASAR

ADDRESS- A- 50, NCMRWF BUILDING, SECTOR- 62, NOIDA.

NEFT/RTGS DETAIL BANK NAME- UNION BANK OF INDIA.

BANK ACCOUNT NUMBER- 349902010040204.

IFSC CODE- FOR RTGS/NEFT- UBIN0534994.

BANK ADDRESS- SAFDARJANG DEVELOPMENT AREA, C-4, COMMUNITY CENTRE, NEW DELHI- 110016.

The EMD & tender fee has to be deposited along with the technical bid. Tenders received without EMD would be summarily rejected. EMDs of unsuccessful bidders would be returned within 30 days after finalization of the tender.

- 4.10. The bidders are advised to ensure their capability before bidding as the task has to be completed in short duration and in a time bound manner under the direction of Vigyan Prasar. Only those bidders who are willing and are in a position to comply with these terms and conditions need to submit the tenders.
- 4.11. The Bidder has to provide minimum three year On-Site Warranty on all Hardware & software components.
- 4.12. The bidder will be required to show a live demonstration of Technology setup during the Concept presentation at the time of the evaluation of the Technical Bids. The bidder should demonstrate their ability to deliver the requirements of the present contract. (Time Limit of Concept presentation: 10 minutes).
- 4.13. Vigyan Prasar reserves the right to reject any tender without assigning any reason. If any successful bidder fails to fulfill his obligation under this tender, he may be blacklisted and Vigyan Prasar would also be free to circulate such blacklisted agencies to other Ministries / Departments of Govt. of India.

5. Address for Correspondence:

- 5.1. The Bidder shall designate the official mailing address, place, email and telephone number to which all correspondence shall be sent by Vigyan Prasar.

6. Contacting the Department:

- 6.1. Any clarifications required with regard to submission of bid may be had from Vigyan

Prasar, Noida up to the date as mentioned in the tender document. (May be reached by email on bhushan@vigyanprasar.gov.in)

- 6.2. VP will not entertain any query or clarification from applicants about technical evaluation marks.
- 6.3. No TA/DA will be admissible to the agency/firms. Proposer or authorized representative will attend the presentation at their own cost.
- 6.4. Any effort by a Bidder to influence the Department's bid evaluation, bid comparison or contract award decisions may result in the rejection of the Bidder's bid.

7. Opening of Bids by Vigyan Prasar:

- 7.1. Vigyan Prasar will open the Bids, in the presence of the representatives of the Bidder who choose to attend, at the time and date, as mentioned in Para 4 of the tender notice.
- 7.2. The Bidder's names, modifications, bid withdrawals and the presence or absence of the requisite Earnest Money and such other details as Vigyan Prasar, at its discretion, may consider appropriate will be announced at the bid opening.
- 7.3. The opening and evaluation of bids would consist of the following phases –
 1. Phase I: Evaluation of Technical Bid
 2. Phase II: Evaluation of Financial Bid
 3. Phase III: Combined Evaluation of Technical and Financial Bids

8. Query related to bid & clarifications:

- 8.1. Pre-Bid Conference will be held on 5 July 2019 at 11 AM in the VP Noida Office. Prospective bidders can send in their queries in advance to bhushan@vigyanprasar.gov.in by 03 July 2019. No queries will be entertained thereafter.
- 8.2. When deemed necessary, Vigyan Prasar may seek clarifications on any aspect from the Bidder. However, that would not entitle the Bidder to change or cause any change in the substance of the bid submitted or price quoted.

9. Criteria for Evaluation of Bids:

- 9.1. The evaluation process of the bid proposed to be adopted by Vigyan Prasar is indicated in Clauses 10 to 12. The purpose of these Clauses is only to provide the Bidder an idea of the evaluation process that Vigyan Prasar may adopt. The Vigyan Prasar reserves the right to modify the evaluation process at any time during the Tender process, without assigning any reason, whatsoever, and without any requirement of intimating the Bidder of any such change. At any time during the process of evaluation Vigyan Prasar may seek specific clarifications as may be necessary from any or all the Bidders.

9.2. VP has adopted a two-bid selection process (Quality and Cost-Based Selection) in evaluating the proposals comprising a 70:30 criteria, where 70% weightage will be accorded to technical evaluation and 30% weightage will be accorded to the financial bid.

9.3. It is mandatory for the Bidder to qualify in the technical qualification criteria in Phase I and obtain minimum qualifying Marks to be technically qualified for being considered for Phase II of Financial Bid evaluation.

10. Phase I: Evaluation of Technical Bid

10.1. Vigyan Prasar will first open the Technical Bids, in the presence of the representatives of the Bidder who choose to attend, at the time and date, as mentioned in Para 4 of the tender notice.

10.2. The technical bids will be evaluated on the basis of information furnished in the Technical Bid. The bids of Bidders, who do not qualify at this stage, shall not be taken up for further evaluation.

10.3. Bidder must enclose documentary evidence in support of eligibility Criteria. In the absence of such supporting documents as detailed in Clause 10.4 below, the bid will be summarily rejected.

10.4. To be eligible for short-listing, a Bidder should also fulfill the following conditions:

Sl.No	Eligibility Criteria	Supporting Documents Required to be submitted along with the Technical Bid
1.	Turnover	Certified Balance Sheet or Statement of Expenditure for the last three financial years (2016-17, 2017-18& 2018-19) OR Certificate by the company statutory auditors (Annexure VI)
2.	The bidder must have prior experience of execution of three projects based on digital technology in the last five years	Work Order/ Completion Certificate issued by the client department indicating the value of the work executed by the bidder
3.	The bidders have to submit Earnest Money Deposit (EMD) of Rs. 54,00,000/- (Rupees Fifty four Lakhs only) & tender fee of Rs 10,000/- (Rs Ten Thousand only) through account payee demand draft drawn in favour of " Vigyan Prasar " payable at New	In separate unsealed cover

	Delhi or Online as per details provided above.	
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- 10.5. All shortlisted Bidders will qualify for further evaluations of the Technical bid. The eligible bidders (or their representatives) shall have to make a presentation on Design and technical specification with the equipment in 3D models for better visualization along with colour scheme etc.
- 10.6. The technical bid will be analyzed and evaluated based on methodology as contained in their proposal and as brought out during the presentation as per the following matrix and technical bid marks shall be assigned to each Bidder. Agencies will be invited for technical presentation and discussions on the proposal. Agencies are expected to depute only those officials for technical presentations who will be responsible for providing the leadership to the proposed work. Evaluators of Technical Proposals shall have no access to the Financial Proposals until the technical evaluation is concluded.

S No.	Evaluation Criteria	Maximum Score
1.	Prior experience of the Bidder in executing projects based on digital technology in the last five years (5 marks will be given for one completed task)	20
2.	Understanding scope of work, objectives, purpose of work, requirements (evaluation will be based on details in proposal submitted by bidder)	20
3.	Presentation of idea/concept, methodology, outline, approach etc.	30
4.	Demonstration of technology (any two of the proposed technologies) & concept as per the proposed theme	30
	Total	100

- 10.7. Technical Bids receiving overall marks greater than or equal to 65 Marks will be eligible for consideration in the subsequent round of evaluation

11. Phase II: Evaluation of Financial Bids

- 11.1. The opening of financial proposal shall be done in presence of representative of applicants who choose to remain present. The lowest Bid (L1) will be based on the lowest combined score (CS) after considering the Price quoted Format given in Annexure D on this NIT and the Technical scores referred above. All shortlisted applicants would be assigned financial score. For financial evaluation, the total cost indicated in the Financial Proposal, excluding GST, will be considered. Each Financial Proposal will be assigned a financial score as detailed below:

The lowest financial proposal (L1) will be awarded 100 % score. The financial scores of other proposals will be computed as follows: Financial Score of a bidder = {(Financial Bid of L1/Financial bid of the Bidder) X 100}% (adjusted to 2 decimals)

Proposals will finally be ranked according to their combined technical and financial scores (CS) as follows:

$$CS = \text{Technical Score} \times 0.7 + \text{Financial Score} \times 0.3$$

Weight assigned to technical and financial Proposals that shall be 0.7 and 0.3 respectively.

Generally, the successful applicant will be the applicant having the highest combined Score. The second highest Applicant will be kept in reserve and may be invited for negotiations in case the first-ranked applicant withdraws or is not selected for any reason.

Example of scoring and evaluation of Tender:

The marks scored by Bidders in the technical evaluation will be given a weightage of 70. Similarly, the financial bids of the Bidders will be given a weightage of 30. The lowest financial proposal (L1) will be awarded 100 % score. Illustration of scoring criteria:

Assume 3 participating Bidders have total technical scores as per column (3) in table below and in case of rates, the total rates quotes is as under:

Sl no.	Description	Total Technical Scores	Rate quotes (say in Rs.) Financial scores	Financial Score of a bidder = (Financial Bid of L1/Financial bid of the Bidder)X100}%
1.	Bidder 1	80	60	(50/60)X100= 83.33
2.	Bidder 2	75	55	(50/55)X100= 90.90
3.	Bidder 3	70	50	(50/50)X100= 100

The Bidder scoring minimum rates in the financial scores i.e. 50 scoring point will be awarded 100 % score and the other bidders will be worked out on proportionate basis and thereafter weightage. Their combined technical and financial scores (CS) as follows:
(CS obtained by firm = Technical Score X 0.7 + Financial Score X 0.3)

$$CS \text{ obtained by Bidder A} = 80 \times 0.7 + 83.33 \times 0.3 = 56 + 24.999 = 80.999 \text{ (CS1)}$$

$$CS \text{ obtained by Bidder B} = 75 \times 0.7 + 90.90 \times 0.3 = 52.5 + 27.27 = 79.77 \text{ (CS2)}$$

$$CS \text{ obtained by Bidder C} = 70 \times 0.7 + 100 \times 0.3 = 49 + 30 = 79.00 \text{ (CS3)}$$

For financial evaluation, the total cost indicated in the financial proposal, excluding GST, will be considered.

- 11.2. Unless stated otherwise, the financial bid document is for the whole scope of the work as described in the tender document. The bidder will not be permitted to add any items / costs later on. The total cost / bid amount indicated in the financial bid will be deemed to be for the entire scope of work outlined / detailed in the tender document. The costs / rates / amounts quoted by the bidder in the financial bid should allow for all costs including

labour, materials, consumables, spares, equipments, procurement, freight and installation, transportation charge, customs duty, octroi, excise duty, any other duties, taxes or charges, whatsoever payable on the components or the completed works and satisfactory performance of the bidders obligations under the tender / agreement. Hence, levy of taxes over and above quoted rates, if any, like GST etc. should be specifically stated in the financial bid with prevailing rates of such taxes to enable uniform comparison of the financial bids of the various bidders. In the absence of any such specific statement, along with rates, the quoted rates / amount will be presumed to be inclusive of taxes.

Note: Classification of any bidder as ‘Lowest Bidder’ does not automatically bestow any right on him to get the work awarded to him, which is subject to further processing and obtaining approval of competent authority of Vigyan Prasar. Vigyan Prasar, for valid reasons, reserves the right to not allot the works to lowest bidder and even cancel the entire tender process at any stage, even after process for determining lowest bidder is over.

12. Right to Accept Any Bid and to Reject Any or All Bids

- 12.1. Vigyan Prasar reserves the right to accept any bid, and to annul the Tender process and reject any or all bids at any time prior to award of Contract, without thereby incurring any liability to the affected Bidder or Bidder or any obligation to inform the affected Bidder or Bidder of the grounds for Vigyan Prasar’s action.

13. Notification of Award

- 13.1. Vigyan Prasar will notify the successful Bidder by e-mail or in writing, by registered letter that its bid has been accepted. The notification of award will constitute the formation of the Contract.
- 13.2. Upon the successful Bidder's furnishing of performance security pursuant to Clause 14, Vigyan Prasar will promptly notify each unsuccessful Bidder and their Earnest Money Deposit will be refunded.

14. Performance Security

- 14.1. Within 5 days of the signing of the contract, the successful Bidder shall furnish the performance security in accordance with the Conditions of Contract. The successful bidder will have to execute an agreement for the due performance of the contract on terms and conditions as may be specified, including all the terms and conditions of this tender document. The successful bidder shall also be required to furnish a performance guarantee equal to 10% of the contract amount from a commercial Bank in the form of Bank guarantee favouring the Director, Vigyan Prasar within 5 days of issuance of work order. Performance Security should remain valid for a period of sixty days beyond the date of completion of all contractual obligations of the supplier including warranty obligations.
- 14.2. Failure of the successful Bidder to comply with the requirement of Clause 14.1 shall constitute sufficient grounds for the annulment of the award and forfeiture of the bid

security (EMD), in which event the Vigyan Prasar may award the Contract to the next best evaluated Bidder or call for new bids.

15. Confidentiality of the Document

15.1. This Tender is confidential and the Bidder is required to furnish an undertaking that anything contained in this Tender shall not be disclosed in any manner, whatsoever.

16. Rejection Criteria

16.1. Besides other conditions and terms highlighted in the Tender document, bids may be rejected under following circumstances:

16.2. Technical Bid

1. Incomplete bids that do not quote for the complete Scope of Work as indicated in the bidding documents, addendum (if any) and any subsequent information given to the Bidder
2. Bids providing information that are found to be incorrect / misleading at any stage / time during the Tendering Process
3. Technical Bid containing commercial details
4. Bids that reveal prices in any form or by any reason before opening the Financial Bid
5. Non compliance of technical requirements as per the clause 10 of the tender document.

16.3. Financial Bid

1. Bids in which the total lump sum price quoted by the Bidder is not inclusive of all duties, fees, levies, works contract tax and other charges excluding GST.
2. Bids where prices are not firm during the entire duration of the contract and / or with any qualifications
3. Bids which do not conform to Vigyan Prasar 's price bid format

16.4. Others

1. Bids that do not confirm unconditional acceptance of full responsibility of executing the 'Scope of Work' of this Tender
2. Bids in which the Bidder seeks to influence the Vigyan Prasar's bid evaluation, bid comparison or contract award decisions
3. Bids without power of authorization and any other document consisting of adequate proof of the ability of the signatory to bind the Bidder

17. Payment Terms:

- 17.1. 60% Payment would be released against the invoice on successful delivery of Equipments,
- 17.2. 20% payment would be released after successful integration of storyline & software & installation,
- 17.3. Remaining 20% payment would be released after training and commissioning of the Equipment/s and successful completion.

This may be noted that payment for execution at Gandhi Darshan, New Delhi will be done by Vigyan Prasar and for other places (as per attached list); Ministry of Culture/its organizations will make payment.

18. Time Schedule for completion of work:

- 18.1. Vigyan Prasar will execute the task related of setting up of digital exhibits at Gandhi Darshan, New Delhi. The technologies System should be fully tested and become functional in all respects by end of August 2019.

The task of setting up of technologies at different location across the country (As per the list attached i.e, one in Gandhi Smriti, New Delhi and 15 National Science Centers) should be completed in all respect by last week of September. This task will be executed in collaboration with Ministry of Culture / National Council of Science Museums.

- 18.2. The appointed agency will work with Ministry of Culture/Gandhi Smriti/Gandhi Darshan / Vigyan Prasar to source the archival, audio & video content, as approved by the Ministry of Culture/Gandhi Darshan / Vigyan Prasar.

19. Arbitration & Jurisdiction Clause:

Any dispute or differences including those considered as such by only one of the parties arising out of or in connection with this work shall be, to the extent possible, settled amicably between the parties. If amicable settlement cannot be reached, then all disputes shall be settled by an Arbitrator. The Director Vigyan Prasar or any officer nominated by him will be the sole arbitrator and his/ her award shall be final and binding upon the parties without appeal and shall be in writing and set forth the findings of fact and the conclusions of Law.

- 20.** Vigyan Prasar reserves the right to accept or reject any or all tender/s without assigning any reasons and decision of Director, Vigyan Prasar will be final.

- 21.** Bidder has to submit signed tender document uploaded by Vigyan Prasar.

Setting up of digital exhibits on Mahatma Gandhi at multiple locations across the country

Technical requirement & Scope of Work

The proposal includes supply installation of the following technologies along with necessary software and specially created content.

- A. Smart Interface for Multiuser Engagement
- B. Smart Surface
- C. Virtual Holographic Display
- D. Transparent display

The detailed scopes of work with respect to above technologies are as follows

All the proposed equipment should be capable of operating in Non Air Conditioned indoor ambiance and general lighting conditions. The interactive surfaces should be vandal proof. All the equipment used should have 3 years on-site OEM warranty. The agency shall submit copies of equipment procurement bills to the organization where the equipment/exhibits are supplied.

In addition, the agency should provide free software support for one year from the date of installation under warranty besides warranty for equipment.

A. Smart Interface for Multiuser Engagement

Smart Interface is cutting-edge technology in bridging communication gaps and offers solutions in digital Multi-User Digital Surface Technology. It provides Multi-User Interactive Smart Surface Table and walls to Group of Users/individuals for discussions with interactive applications including photos, videos, presentations, documents etc. Multi-Users can work simultaneously on Smart Surface tables and walls for intuitive interaction to make effective and collaborative group communication.

Probable theme to be showcased: Chronology of Gandhi Ji's life

Specifications & Hardware requirement:

1. Display Table Design: 12 Feet (to get this size, preferably two single screens of 70-80" diagonal could be used)
2. Dimension of Interactive and Visible Area
 - Length - 70 to 80 inch
 - Width - 20 to 25 inch
 - Height - As per museum users' Interaction
3. Size: 70-80 inches (Single Screen)
4. Resolution – 3,840 x 1,080
5. Aspect Ratio: 32:9
6. Features : Brightness(Typ.): Min 650 cd/m
7. Touch Panel
 - a. Multi touch capabilities

- b. Strengthened glass with Anti Glare and Anti Reflection Effect
- c. No of Touch Points - 40 or above
- 8. Precise accuracy, Palm rejection, No Ghost Point
- 9. Drift - free
- 10. Flexible- Full mouse functionality with the touch of your finger
- 11. Orientation - Landscape
- 12. Touch Capability - Finger with diameter $\geq 5\text{mm}$
- 13. Calibration - Four or more points with no drift or any other suitable technology
- 14. Support - Windows HID
- 15. Compatible - Windows 10/7 and another related OS
- 16. Touch Response Time - 7 - 13ms
- 17. Environment - Indoor ambience
- 18. Working condition - Ambient Light Immunity
- 19. Interface: Interface need to get design as per requirements and specification of Installation. Installation will as table top for 10 to 15 users simultaneous use. Multi User headphone functionally for independent video(s) soundtrack interaction on touchable Interface Every user may be able to run/hear independent headset with respect to content and able to play/interact with physical objects on the surface by interaction.
- 20. Computing Device: I7, 8th Generation, 1Tb Hard Disk or above, 16GB RAM or above, Graphics Memory: 2GB and above, Operating System: Microsoft Windows 7 Professional/ Win 8 Pro / Win 8.1 Pro/Windows 10, I/O Devices : Wireless keyboard + Mouse, USB 3.0, Wi-Fi
- 21. Other Supports: Interface design application support software running on Windows or Host OS.
Design : Need to proposed as per ambience and place

Content Requirement Specification:

Probable theme on which the software need to be designed are

- Chronology of Gandhi's life on the long smart table
- Major event of Gandhi Ji life
- Travel during his life
- Birthplace and related information
- Time during abroad visit or any others

Need to share proposed diagram of software, UX, Open project file (editable version)

The scope of preparation, installation and supply of software include

- a. high quality graphics,
- b. animations (2D/3D) specifically created, collection and display of videos
- c. Proper designing of layouts with good aesthetics
- d. Proper logical mapping of content for ease of navigation.
- e. The content should not include any material that has copyright violations.
- f. The content should be got vetted by professionals.

B. Smart Surface

Smart surface is similar in technology as in Smart Interface for Multiuser Engagement. It also provides Multi User Interactive but small in size compare to smart interface

Probable theme to be showcased: Major Events of Gandhi Ji's life on small Interactive table

Specifications & Hardware requirement:

1. Display
 - Screen diagonal: 65 Inch
 - IPS Panel
 - Aspect ratio 16:9
 - Physical resolution 1920×1080 or higher
 - Colours displayed 16.7M
 - Brightness (cd/m²) 350 or higher
 - Contrast 1400:1
 - Visual Angle horizontal/vertical (°) 178/178
 - Backlight / Backlight Lifetime (hours) LED / 50,000
2. Touch Panel
 - Multi touch capabilities
 - Object recognition
 - Strengthened glass with Anti Glare and Anti Reflection Effect
 - No of Touch Points - 40 or above
 - Touch Technology: Projected Capacitive 40-point Multitouch or more
 - Touch Panel Drivers Windows; Linux; Mac; Android T
 - Touch Life (Contacts) Unlimited
3. Works well out door/ in sunlight.
4. Precise accuracy
5. Palm rejection
No Ghost Point
6. Drift - free
7. Flexible- Full mouse functionality with the touch of your finger
8. Orientation - Landscape / Portrait
9. Touch Capability - Finger with diameter $\geq 5\text{mm}$
10. Calibration - Four or more points with no drift
11. Support - Windows HID
12. Compatible - Windows 10 and another required operating systems
13. Touch Response Time: Typical response time 7 - 13ms
14. Working condition: Ambient Light Immunity, Minimum No of touch - 40
15. Interface: Interface need to get design as per requirements and specification.
Installations will as table top for 4 to 6 users simultaneously, Multi User Headphone functionally for independent video soundtrack interaction. Every user may be able to run/hear independent headset with respect to content and able to play/interact with physical objects on the surface by interaction

16. Computing Device: I7, 8th Generation, 1Tb Hard Disk or above, 16GB RAM or above, Graphics card Gforce and another equivalent graphic card 2GB and above, Operating System: Microsoft Windows 7 Professional/ Win 8 Pro / Win 8.1 Pro/Windows 10; I/O Devices: Wireless keyboard + Mouse, USB 3.0, Wi-Fi
17. Other Supports: Must Support multiple framework for application development, External Connectors; Video - 1x VGA min, 1x DVI-D min, 1x HDMI min, 1.3 (incl. HDCP), Audio 1x PC-Audio, Touch Connector 1x USB, Connectors 1x 24V DC-IN
18. Design: As per requirement and placement

Software requirement specification: Need to propose idea and theme.

The Content should be as follows:

This will have 4 nos. of units of similar surface of above specification. The content in each of these units will be different. Information provided should be in layers (at least three layers) with 6-8 page content per layer. Details of content are as given below:

Unit 1: The content should cover the Champaran Satyagrah in detail explaining various aspects

Unit 2: The content should cover Non-Cooperation Movement in detail explaining various aspects

Unit 3: The content should cover Civil Disobedience Movement in detail explaining various aspects.

Unit 4: The content should cover Quit India Movement in detail explaining various aspects.

C. Virtual Holographic Display

Virtual Holographic Display (VHD) is cutting-edge solutions for visualisation and storytelling for museums. Virtual Holographic Display generates attention that resonates with today's generation who increasingly live beyond the reach of traditional visualization.

Probable theme to be showcased: In holographic, we may place real objects like Three Monkeys of Mahatma Gandhi and present the message of Mahatma Gandhi in Holographic or personal belongings & messages of Mahatma Gandhi.

Specifications & Hardware requirement:

1. Display Area –

- Length: 40 - 50 Inch
- Height : 20 - 25 Inch

Projection Technologies: Reflection technologies of three dimensions holographic content (Image created inside such display is only two dimensions but due to stitching and content placement technology is look like 3D holographic)

- Display: 1920*1080 or higher, any reputed brand commercial Display

- Display screen/content should not be visible, if user bends look on top mounted screen for projection.
2. Interactive Screen Integration:
 - Holographic Display active screen size (cm) - 23" single touch monitor
 - Contrast ratio: 4000:1
 - Brightness: 1000 cd/m²
 - Resolution: 1920*1080 min
 - Visual Angle horizontal/vertical - 178/178
 3. Touch Technology: Projected Capacitance Touch
 4. Touch Interface Specifications to control Holographic Display and give interaction options
 - Display Size: 35-40 Inch
 - Brightness : 300 nits or more
 - Resolution : 1920:300+
 5. Touch Technology:
 - Projected Capacitance Glass
 - Touch Points: 10 Touch Point or more
 - Touch Type: Finger to swipe, pinch and zoom gestures, gloved hand or any other pointer (remove palm touch)
 - Touch activation force: No pressure required Finger
 - Touch accuracy: Finger with diameter ≥ 5 mm
 - Able to play with physical objects on the surface by interaction
 - Flexible: Full mouse functionality with the touch of finger or any object
 - Touch Response Time: <10 ms
 - Sample rate: Upto 450 fps
 - Orientation: Landscape / Portrait
 - Size (W x H) cm: as per interactive area of two displays placed side by side
 - Power Supply: USB Powered / 5V DC OS
 - Support: Windows 10 , Mac, Linux
 6. Working Condition: Ambient Light Immunity
 7. Computing System Specification: HP, Dell or equivalent or higher Computing power, 8th Generation Intel® Core™ i7 Processor or higher, Up to 8GB DDR3 SDRAM or higher, at least 1TB SATA or Higher, NVIDIA or equivalent (support 2 or more displays) etc
 8. Fabrication: Design and Fabrication as per discussion and approval
 9. Holographic content need to be proposed as per theme and design element. This holographic content should be controlled by Touchable screen to give tangible experience.

10. Content: The successful bidder is required to blend the 3D scanned data (to be provided by MoC) of the objects of Gandhiji to put with black background to get real 3D holographic effect. In addition, messages of Gandhiji will also pop up in 3D on the screen. Also the bidder is required to create “Gadhiji’s 3 monkeys” in 3D for display in the system.

D. Transparent Display

Transparent display is an innovative and high impact way to engage with audience. A Transparent display sees LED technology fused with a transparent screen substrate, enabling white pixels to appear as transparent. Using this, merchandisers can produce media which hides or gradually reveals products behind the screen.

Probable theme to be showcased: We can use to make a story like about movements by Gandhi Ji as we can place a real picture and 3D pictures behind these transparent displays and interactive also. These screens are required to be mounted in from of 3D static diorama cubicles. The theme/movement depicted in the diorama is required to be enhanced with animation through this transparent screen. This would require creation of characters (similar to the ones put up inside the diorama) and create a storyline to tell the story through animation (which could be 2D / 3D).

Specifications & Hardware requirement:

1. Size of Display: 46 Inch or bigger
2. Aspect Ratio 16:9
3. Resolution: 1920*1080
4. Transparency 87 % or more
5. Other Requisite Specifications
6. Projected Capacitance Touch Input with Touch Point 40 or more
7. Lighting: White, Back, Light
8. Placement of Object: Inside white box
9. Hardware Specifications: LED Display
10. Touch Interface Specifications
 - Touch Technology: Projected Capacitance Touch
11. Touch Interface Specifications
 - Touch Points: 12-20 Touch Point
 - Touch Type: Finger to swipe, pinch and zoom gestures, gloved hand or any other pointer (remove palm touch)
 - Touch activation force: No pressure required Finger
 - Touch accuracy: 1.5mm Touch
 - Durability: Unlimited
 - Flexible: Full mouse functionality with the touch of finger or any object
 - Touch Response Time: <10 ms
 - Protocols: HID
 - Orientation: Landscape / Portrait
 - Size (W x H) cm: as per interactive area of two displays placed side by side

- Power Supply: USB Powered / 5V DC OS
 - Support: Windows, Mac, Linux
 - Multi User Headphone functionally for independent video soundtrack interaction
12. Working Condition: Ambient Light Immunity
 13. Computing System Specification: HP, Dell or equivalent or higher Computing power, 8th Generation Intel® Core™ i7 Processor or higher, Up to 8GB DDR3 SDRAM or higher, at least 1TB SATA or Higher, NVIDIA or equivalent (support 2 or more displays) etc
 14. Fabrication: Design and Fabrication as per discussion and placement

Setting up of digital exhibits on Mahatma Gandhi at multiple locations across the country**Price Bid
(To be submitted with financial bid) (In Rupees only)**

Sl. No.	Tender Specifications	Cost per set	Total Cost	Remarks
PART A	Setting up a digital exhibition (master) at Gandhi Darshan, New Delhi	NA	NA	NA
1.	Smart Interface for Multiuser Engagement consisting of two such units as per the specs given constitutes one set. (1 set = two units)			
2.	Smart Surfaces; four units as per the specification will constitute one set (1 set = four units)			
3.	Virtual Holographic Display; two units as per specification will constitute one set (1 set = two units)			
4.	Transparent screen; two units as per specification will constitute one set (1 set = 2 units)			
	Total (A)			
PART B	Development of software & storyline for above hardware (different modules for each unit)			
	Total (B)			
PART C	Cost of setting up of exhibits at different locations across the country (as per attached list)			
	Total project cost (A+B+C)			

Proposer’s Information

1. Name

- a) of the proposer : _____
- b) of the Company : _____

2. Contact Information

Address with contact details:

3. Proposer’s Category (Please tick only ONE, which is most appropriate/ applicable to you)

Company	
Consortium	
Limited Liability Partnership (LLP)	
Proprietorship firm	
Startups	
Other (Pl specify)	

Photocopy of relevant documents to be attached

- 4. Copies of Income Tax returns as accepted by the Income Tax Department of preceding three years with PAN:
- 5. Has the Agency/its its sister concern/any director ever been blacklisted/defaulted by any organization?: Yes/No (If yes, give details)
- 6. We/I have enclosed a DD/ Bank order/Online transfer for Rs. 10,000/- towards non-refundable application fee (DD No..... Date:.....drawn on bank:..... or online transaction details)
- 7. We/I have enclosed a DD/ Bank order for Rs. 54,00,000/- towards EMD (DD No..... Date:.....drawn on bank:..... or online transaction details)
- 8. Any other relevant information:

SIGNATURE (of authorised signatory)

Full Name and designation

DECLARATION

- i. I.....(authorised signatory for the proposer) solemnly affirm that the facts stated above are correct and nothing has been withheld. If any information submitted above, is found to be false or fabricated, I may be liable to be suspended and

- /or debarred from empanelment.
- ii. I permit Vigyan Prasar to cross check the above facts from any other source.
 - iii. I or my authorized representative, along with the team, if required by Vigyan Prasar would make presentation before Selection Committee at my own cost.
 - iv. Here by I declare that I shall adhere to the terms and conditions mentioned in RFP.

Signature
Full Name
Date (Seal of organization)

Work Experience Certificate

Name of the firm: _____

From _____ to _____ (Period):

Order No.& Date	Full contact address of such agency	Service provided	Value of order in Rupees	Remarks indicating reasons for delay , if any

Date: _____ Place: _____

Signature of the bidder: _____

NOTE: Please provide copies of valid Work Order or Certificate of Completion (for completed projects) from authorized client officials.

Annexure VI

Turnover/ Financial Details as per Audited Accounts

Years	FY 2016-17	FY 2017-18	FY 2018-19	Average Turnover		
	Total	From relevant services	Total	From relevant services	Total	From relevant services
Turnover (Rs)						
Profit (Rs)						

Note: Enclose CA certificate conforming Annual Turnover during stated financial years.

List of Science Centres (15 nos.) under NCSM identified for installing digital exhibits on Mahatma Gandhi along with one complete set at Gandhi Smriti, New Delhi.

01	West Zone (5 sets)	Nehru Science Centre Dr. E. Moses Road, Worli Mumbai-400 018 Maharashtra, India
		Raman Science Centre & Planetarium Opp. Gandhisagar, Nagpur-440018 (India)
		Regional Science Center Shyamla Hills , Banganga Road Bhopal- 462002, M.P. India
		Goa Science Centre & Planetarium Miramar, Panaji, Goa-403001, India
		District Science Centre Garden Road Dharampur – 396050 Dist. Valsad, Gujarat, India
02	North Zone (02 Sets)	Regional Science City Aliganj Extension, Sector-E (EktaVihar) Lucknow-226024 (Uttar Pradesh) India
		Kurukshetra Panorama & Science Centre Pehowa Road, Kurukshetra-136118 (Haryana) India
03	East Zone (02 sets)	Digha Science Centre & National Science Camp Foreshore Road, New Digha Dist. - Midnapore (East)-721463 West Bengal
		North Bengal Science Centre Matigara, Siliguri Darjeeling-734010 West Bengal
04	South Zone (03 sets)	Visvesvaraya Industrial & Technological Museum Kasturba Road, Bangalore-560001, India
		Regional Science Centre Near Alipiri Gate, Alipiri-Chittoor Bypass Tirupati-517507 Abdhra Pradesh, India
		District Science Centre National Highway No.7, Kokkirakulam Tirunelveli-627009 Tamilnadu, India

05	North-East Zone (01 Set)	Regional Science Centre Jawaharnagar, Khanapara, Guwahati- 781022 Assam, India
06	Science City, Kolkata (01 Set)	Science City Dr. J.B.S. Haldane Avenue Kolkata-700046 West Bengal
07	CRTL Zone (01 Set)	Regional Science Centre Pt. J. L. Nehru Marg Bhubaneswar, Orissa India