

**Corrigendum & response to queries during the prebid meeting (5 July 2019 at VP, Noida)  
for Setting up of digital exhibits on Mahatma Gandhi at multiple locations across the  
country**

**1) Tender fee/EMD/ Performance Bank guarantee:**

- i. Earnest Money Deposit (EMD) is Rs. 54,00,000/- (Rupees Fifty four Lakhs only) and tender fee is Rs 10,000/- (Rupees Ten Thousand only). The EMD amount mentioned in the Annexure IV (Sl. no. 7) may be read as Rs. 54,00,000/- .
- ii. The EMD can also be given by the way of Bank Guarantee from any Indian Scheduled Commercial Bank in Annexure I to this document. Validity of EMD if submitted through Bank Guarantee shall be valid for 6 months beyond the bid due date. The declaration in this regards may be read as under:  
  

“We/I have enclosed a DD/ Bank order/Bank Guarantee for Rs. 54,00,000/- towards EMD (DD No..... Date:.....drawn on bank:..... or online transaction details.
- iii. The EMD can be considered as a part of performance guarantee of the selected bidder.
- iv. Exemption of EMD or tender fee may be claimed as the Govt of India’s orders issued from time to time. The exemption sought should be supported by relevant document(s).

**2) Demo of technologies:**

- i. The bidders are encouraged to provide demo of any proposed technology with sample storyline on proposed theme. Bidders have to arrange the equipment by their own.
- ii. If the bidder is not having demonstration, the documents such as Work Order having relevant experience of similar tasks (using any of the proposed technologies in RFP) along with Work completion certificate are required. The document & the proposal should clearly reflect the use of proposed technologies.
- iii. The evaluation marking table at Sl. no 10.6 may be read as

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	20

	in proposal submitted by bidder)	
3.	Presentation of idea/concept, methodology, outline, approach etc.	30
4.	Demonstration of technology or supporting work completion certificate having any of the proposed technologies & concept as per the proposed theme	30
	<b>Total</b>	<b>100</b>

### 3) Eligibility criteria:

- i. Eligibility criteria for evaluation at 10.4 (Sl no. 4) may be read as follows:

The bidder must have prior experience of execution of two projects based on digital technology using the proposed technologies in the present RFP in the last five year.

- ii. **Sl. no. 4.2:** The bidder should have minimum two projects of one crore or more in the last three years on information technology. The experience in Information Technology/Digital technology means the bidder must used the any of the proposed technology (Smart Interface for Multiuser Engagement, Smart Surface, Virtual Holographic Display, Transparent display) as a component of the work.
- iii. **Sl. no. 10.4** (Supporting Documents Required to be submitted along with the Technical Bid): The work order along with completion certificate issued by the client department indicating the value of the work and the technologies used in the work.
- iv. The payment schedule & execution deadlines will be same as per the tender document.

- 4) **Technical requirement & scope of work:** The specifications provided in the tender document are minimum requirement. The following are the modifications:

#### A. Smart Interface for Multiuser Engagement

Specifications & Hardware requirement:

1. Table design: At least 7-8 feet x 2-3 feet (L x B) size
2. Display: Seamless
3. Resolution – 3,840 x 1,080
4. Aspect Ratio: 32:9
5. Features: Brightness (Typ.): Min 650 cd/m
6. Thin bezel specification: At least 2.25 mm (L/T)/1.25 mm (R/B)
7. Touch Panel
  - Multi touch capabilities
  - Strengthened glass with Anti Glare and Anti Reflection Effect
  - 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 & position inclined
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.

## **B. Smart Surface**

### **Specifications & Hardware requirement:**

1. Display table design
  - Screen diagonal: 55 Inch or above with narrow bezel
  - IPS Panel
  - Aspect ratio 16:9
  - Physical resolution: 1920×1080 or higher
  - Brightness (cd/m<sup>2</sup>): 400 or higher
  - Visual Angle horizontal/vertical (°) 178/178
2. Touch Panel
  - Multi touch capabilities
  - Object recognition
  - Strengthened glass with Anti Glare and Anti Reflection Effect
  - No. of Touch Points - 10 or above
  - Touch Technology: Projected Capacitive 20-point Multitouch or any other touch technology to perform the same
  - Touch Panel Drivers Windows; Linux; Mac; Android T
  - Touch Life (Contacts) Unlimited
3. Precise accuracy

4. Palm rejection  
No Ghost Point
5. Flexible- Full mouse functionality with the touch of your finger
6. Orientation - Landscape / Portrait
7. Touch Capability - Finger
8. Support - Windows HID
9. Compatible - Windows 10 and another required operating systems
10. Touch Response Time: Typical response time 7 - 13ms
11. Working condition: Ambient Light Immunity,
12. Interface: Interface need to get design as per requirements and specification. Installations will as table top for 2-4 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
13. 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
14. 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
15. Design: As per requirement and placement

### **C. Virtual Holographic Display**

#### **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 x 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. Touch Interface Specifications to control Holographic Display and give interaction options
  - Display Size: Minimum 21 inch screen
  - Brightness : 300 nits or more
  - Resolution : 1920 x 300+
  - Aspect ratio should be higher in length
3. Touch Technology:
  - Projected Capacitance Glass/IR technology

- Touch Points: single
  - Touch activation force: No pressure required Finger
  - Touch accuracy: Finger with diameter  $\geq 5\text{mm}$
  - 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:  $<10\text{ ms}$
  - Sample rate: Upto 450 fps
  - Orientation: Landscape / Portrait
  - Support: Windows 10 , Mac, Linux
4. Working Condition: Ambient Light Immunity
  5. 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
  6. Fabrication: Design and Fabrication as per discussion and approval
  7. 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.
  8. 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 “Gandhiji’s 3 monkeys” in 3D for display in the system.

#### **D. Transparent Display**

##### **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. Lighting: White, Back, Light
6. Placement of Object: Inside white box
7. Touch Interface Specifications
  - Touch Technology: Projected Capacitance 20-point multi touch or more/IR technology
  - 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: 1.5 mm 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
  - Support: Windows, Mac, Linux
  - Multi User Headphone functionally for independent video soundtrack interaction
8. Working Condition: Ambient Light Immunity
  9. 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
  10. Fabrication: Design and Fabrication as per discussion and placement

***Note: Besides the above modification & clarification; the other term & conditions and requirements will be same***

**INSTRUCTIONS FOR FURNISHING BID-GUARANTEE /BANK GUARANTEE**

To,  
Registrar  
Vigyan Prasar  
A-50 Institutional Area Sector-62  
Noida

Whereas < name of the bidder> (hereinafter called 'the Bidder') has submitted the bid for Submission of RFP # < RFP Number > dated <insert date> for hereinafter called "the Bid") to Know all Men by these presents that we << >> having our office at (hereinafter called "the Bank") are bound unto the (hereinafter called "the Purchaser") in the sum of Rs. 54,00,000 (Rupees Fifty Four lakh only) for which payment well and truly to be made to the said Purchaser, the Bank binds itself, its successors and assigns by these presents. Sealed with the Common Seal of the said Bank this < insert date> The conditions of this obligation are:

1. If the Bidder having its bid withdrawn during the period of bid validity specified by the Bidder on the Bid Form; or
2. If the Bidder, having been notified of the acceptance of its bid by the Purchaser during the period of validity of bid:
  - (a) Withdraws his participation from the bid during the period of validity of bid document; or
  - (b) Fails or refuses to participate for failure to respond in the subsequent Tender process after having been short listed;

We undertake to pay to the Purchaser up to the above amount upon receipt of its first written demand, without the Purchaser having to substantiate its demand, provided that in its demand the Purchaser will note that the amount claimed by it is due to it owing to the occurrence of one or both of the two conditions, specifying the occurred condition or conditions. This guarantee will remain in force up to < > and including < > from the last

date of submission and any demand in respect thereof should reach the Bank not later than the above date.

NOTWITHSTANDING ANYTHING CONTAINED HEREIN:

- I. Our liability under this Bank Guarantee shall not exceed Rs. 54,00,000 (Rupees Fifty Four Lakh only)
- II. This Bank Guarantee shall be valid upto \_\_\_\_\_
- III. It is condition of our liability for payment of the guaranteed amount or any part thereof arising under this Bank Guarantee that we receive a valid written claim or demand for payment under this Bank Guarantee on or before ) failing which our liability under the guarantee will automatically cease.

(Authorized Signatory of the Bank)

Seal:

Date: