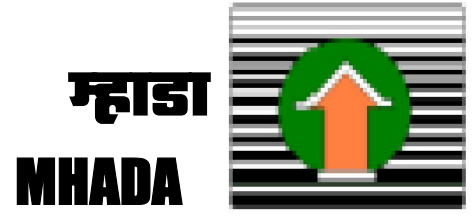


मुंबई झोपडपट्टी सुधार मंडळ, मुंबई
(म्हाडाचा घटक)

**MUMBAI SLUM IMPROVEMENT
BOARD, MUMBAI**
(A MHADA UNIT)



NOTICE FOR QUOTATION

Quotation for the following works are invited by Executive Engineer (W) M.S.I.Board from Experienced agencies having Shop & Establishment Certificate & GST No.for obtaining the rates. The blank quotations forms for the same will be issued 08/01/2019 to 15/01/2019 up to 1:00 pm after submission of certified copies of shop & establishment certificate & GST No.. and sealed quotations will be received by this Office in Room no 537, 4th Floor, Griha Nirman Bhavan, Bandra (E), Mumbai-400051 on or before 15-01-2019 upto 3:00 pm for the work mentioned below.

Name of work :Supply and installation of Electronic equipments at Leisure Park

Estimated cost put to quotation Rs.

1. The quotation is sealed cover shall be received in this office as mentioned above and will be opened on same day, possible in presence of quotationers.
2. The quotationers shall quote the rates in permanent ink, quoting the rate per unit.
3. Acceptance of the quotation will rest with the Executive Engineer (W) M.S.I Board Mumbai who reserves the right to reject all or any of the quotation without assigning any reason thereof.
4. The rate shall be quoted inclusive of all taxes, transportation, supplying & installation of equipment at site of work.
5. The offer submitted by the quotation will be binding on him for the period of Six months from the date of quotations.
6. The name of the work for which the quotation is tendered shall be stated clearly on the envelop containing the quotation.
7. The quotation are invited for obtaining the rates without GST & with GST.
8. The rates includes all material including Transportation, loading-unloading & fixing/installation at site of work.
9. Agency should have experience of carrying out similar type of work.
11. Blank quotation documents will be available in the office of the Executive Engineer (W) M.S.I Board Mumbai.
12. Details of works and technical specification are available on MHADA's website i.e.

<https://mhada.gov.in>

Executive Engineer (W)
M.S.I. Board, Mumbai

Issue to M/s.-----

Name of work: Supply and installation of Electronic equipments at Leisure Park

Rate Quotation

Sr No.	Item rate & Specification	Description	Rate		Unit	Amount
			In No.	In word		
1.	As per wording of Item	Supply and installation of Processor Intel Core i7 8700 (8th Generation) with specifications mentioned below and as per direction of Engineer-in-charge. Mainboard Gigabyte B310M Motherboard RAM 16 GB Kingston DDR4 HyperX RAM Storage 128 GB SSD Display Adapter Nvidia GTX 1050 4GB VRAM Network Adapter Gigabit Ethernet LAN 10/100/1000 HID Dell USB Keyboard + Mouse Combo			Per No.	
2	As per wording of Item	Supply and installation of Processor Intel Core i7 8700 (8th Generation) with specifications mentioned below and as per direction of Engineer-in-charge. Mainboard Gigabyte B310M Motherboard RAM 16 GB Kingston DDR4 HyperX RAM Storage 256 GB SSD Display Adapter Nvidia GTX 1060 4GB VRAM Network Adapter Gigabit Ethernet LAN 10/100/1000 HID Dell USB Keyboard + Mouse Combo			Per No.	
3	As per wording of Item	Supply and installation of Processor Intel Xeon E3-1225 v5 with specifications mentioned below and as per direction of Engineer-in-charge. Chipset Intel C236 RAM 8GB DDR4 Storage 1TB SATA HDD Network Controller Intel®I219-LM Gigabit Ethernet LAN 10/100/1000			Per No.	
4	As per wording of Item	Supply and installation of Computer Intel Celeron with specifications mentioned below and as per direction of Engineer-in-charge. Brand and Model Gigabyte Brix RAM 4 GB DDR4 2400 SO DIMM Storage Kingston SUV400S37A 120 GB SSD Display Adapter Intel® Graphics Nework Adapter Gigabit Ethernet LAN 10/100/1000			Per No.	
5	As per	Supply and installation of Computer Intel Core i5 with			Per	

	wording of Item	<p>specifications mentioned below and as per direction of Engineer-in-charge.</p> <p>Brand and Model Gigabyte Brix RAM 8GB DDR4 Storage 240GB SSD Display Adapter Intel® Graphics Network Adapter Gigabit Ethernet LAN 10/100/1000</p>			No.	
6	As per wording of Item	<p>Supply and installation of Computer ATOM with specifications mentioned below and as per direction of Engineer-in-charge.</p> <p>Brand and Model ASUS VIVO Stick PC TS10- B017D RAM 2GB DDR4 Storage 32GB SSD Display Adapter Intel® Graphics Network Adapter WiFi 802.11ac</p>			Per No.	
7	As per wording of Item	<p>Supply and installation of Laser Projector with specifications mentioned below and as per direction of Engineer-in-charge.</p> <p>Brand and Model Epson EB-L610U Light Source Laser Projection System 3LCD Technology, RGB liquid crystal shutter LCD Panel 0.67" (D10) Color Light Output 6,000 lumens White Light Output 6,000 lumens LCD Image Resolution WUXGA, 1920 x 1200, 16:10 Colour Reproduction 30 bits, 1.07B Color (10+10+10) Throw Ratio 1.35 - 2.2:1 Lensing Standard Optical f1.5-1.7 / 20mm - 31.8mm Zoom Manual, Factor: 1 - 1.6</p>			Per No.	
8	As per wording of Item	<p>Supply and installation of Laser Projector with specifications mentioned below and as per direction of Engineer-in-charge.</p> <p>Projection System High-aperture Epson 3-chip, 3LCD technology LCD Panel 0.79" Poly-silicon TFT Active Matrix Color Light Output 7,000 lumens White Light Output 7,000 lumens LCD Image Resolution WUXGA, 1920 x 1200, 16:10 Colour Reproduction 30 bits, 1.07B Color (10+10+10) Throw Ratio 1.44 – 2.32 Lensing Standard Optical : f1.7-2.3 24.0mm - 38.2mm Zoom Zoom 1 - 1.6</p>			Per No.	
9	As per wording of Item	<p>Supply and installation of Short Throw Lens with specifications mentioned below and as per direction of Engineer-in-charge.</p>			Per No.	

		Brand and Model Epson Ultra Short Throw Lens ELPLX01 Zoom Ratio 0 Throw Ratio (4.3) 0.36 Throw Ratio (16:10) 0.35				
10	As per wording of Item	Supply and installation of Laser Projector with specifications mentioned below and as per direction of Engineer-in-charge. Brand and Model Viewsonic LS830 Light Source 390W DLP Laser Color Light Output 4,500 lumens White Light Output 4,500 lumens LCD Image Resolution 1080p, 1920 x 1080, 16:10 Colour Reproduction 30 bits, 1.07B Color (10+10+10) Throw Ratio 0.23 Ultra Short Throw Lensing Digital optical focus			Per No.	
11	As per wording of Item	Supply and installation of Laser Projector with specifications mentioned below and as per direction of Engineer-in-charge. Brand and Model Epson EB-L1505UHNL Light Source 670 W Laser Diode Projection System RGB liquid crystal shutter projection system LCD Panel 1.03-inch (D10) Color Light Output 12,000 lumen White Light Output 12,000 lumen LCD Image Resolution WUXGA, 1920 x 1200, 16:10 Colour Reproduction 30 bits, 1.07B Color (10+10+10) Lensing Standard Optical: f1.8-2.3 36mm - 57.35mm Powered Focus Zoom 1 - 1.61 (Optical)			Per No.	
12	As per wording of Item	Supply and installation of Short Throw Lens with specifications mentioned below and as per direction of Engineer-in-charge. Brand and Model Epson Ultra Short Throw Lens ELPLX02 Zoom Ratio 0 Throw Ratio (4.3) 0.35 Throw Ratio (16:10) 0.35			Per No.	
13	As per wording of Item	Supply and installation of Commercial Display with specifications mentioned below and as per direction of Engineer-in-charge. Brand and Model LG 86UM3C Display Type Commercial Display Screen Size 218.44cm (86") Resolution 3,840 x 2,160 (UHD) Brightness 350 cd/m ² Display Dimensions 1,926.2 x 1,097.2 x 60.6mm (without logo / handle) Bezel Width On: 15.6mm, Off: 14.3mm Input Connections HDMI(3), DP, DVI-D, Audio, USB 3.0, SD Card Output Connections DP, Audio Control Connections RS232C, RJ45, IR Receiver,			Per No.	

		Pixel Sensor			
14	As per wording of Item	<p>Supply and installation of Commercial Display with specifications mentioned below and as per direction of Engineer-in-charge.</p> <p>Brand and Model LG 32SE3KD</p> <p>Display Type Commercial Display</p> <p>Screen Size 81.28 cm (32")</p> <p>Resolution 1,920 x 1,080 (FHD)</p> <p>Brightness 350 cd/m²</p> <p>Display Dimensions 729.4mm X 428.9mm X 55.5mm</p> <p>Bezel Width 13mm (T/R/L), 18mm (B)</p> <p>Input Connections HDMI(2), DVI-D, RGB, Audio</p> <p>Output Connections Audio</p> <p>Control Connections RS232C in/out, RJ in, IR Receiver, USB</p>			Per No.
15	As per wording of Item	<p>Supply and installation of Commercial Display with specifications mentioned below and as per direction of Engineer-in-charge.</p> <p>Brand and Model Dell E2418HN</p> <p>Display Type In-Plane Switching Panel</p> <p>Screen Size 60.47 cm (23.8")</p> <p>Resolution 1920 x 1080 at 60Hz (16:9)</p> <p>Brightness 250 cd/m²</p> <p>Pixel Pitch 0.275 mm x 0.275 mm</p> <p>Pixel Density 93 PPI</p> <p>Viewing Angle 178° vertical / 178° horizontal</p> <p>Colour Depth 16.7 Million colors</p> <p>Input Connections 1 x HDMI v1.4 + 1 x VGA</p>			Per No.
16	As per wording of Item	<p>Supply and installation of Commercial Display with specifications mentioned below and as per direction of Engineer-in-charge.</p> <p>Brand and Model Dell E2219HN</p> <p>Display Type LED-backlit LCD monitor</p> <p>Screen Size 54.61cm (21.5")</p> <p>Resolution 1920 x 1080 @ 60Hz (16:9)</p> <p>Brightness 250 cd/m²</p> <p>Pixel Pitch 0.248mm</p> <p>Pixel Density 102 PPI</p> <p>Viewing Angle 178° vertical / 178° horizontal</p> <p>Colour Depth 16.7 Million colors</p> <p>Input Connections 1 x HDMI v1.4 + 1 x VGA</p>			Per No.

17	As per wording of Item	<p>Supply and installation of Touch screen with specifications mentioned below and as per direction of Engineer-in-charge.</p> <p>Brand and Model Samsung PM43F-BC</p> <p>Display Type 60Hz E-LED BLU</p> <p>Screen Size 43"</p> <p>Resolution 1920x1080 (Full HD)</p> <p>Active Display Area 1209.6mm (H) x 680.4mm (V)</p> <p>Brightness 350 nit</p> <p>Pixel Pitch 0.49(H) x 0.49(V)</p> <p>Contrast Ratio 3000:1</p> <p>Viewing Angle 178:178</p> <p>Colour Depth 10bit Dithering - 1.07Billion Gamut 72%</p>			Per No.	
18	As per wording of Item	<p>Supply and installation of Touch screen with specifications mentioned below and as per direction of Engineer-in-charge.</p> <p>Brand and Model Samsung PM55F-BC</p> <p>Display Type 60Hz E-LED BLU</p> <p>Screen Size 55"</p> <p>Resolution 1920x1080 (Full HD)</p> <p>Active Display Area 940.89mm (H) x 529.25mm (V)</p> <p>Brightness 400 nit</p> <p>Pixel Pitch 0.630(H) x 0.630(V)</p> <p>Contrast Ratio 4000:1</p> <p>Viewing Angle 178:178</p> <p>Colour Depth 10bit Dithering - 1.07Billion Gamut 72%</p>			Per No.	
19	As per wording of Item	<p>Supply and installation of Protected LED screen with specifications mentioned below and as per direction of Engineer-in-charge.</p> <p>Display Type Protected LED Display</p> <p>Screen Size 17"</p> <p>Resolution 1366 x 768</p> <p>Ingress Protection IP68</p> <p>Input Connections VGA</p>			Per No.	
20	As per wording of Item	<p>Supply and installation of Licenses with specifications mentioned below and as per direction of Engineer-in-charge.</p> <p>Windows 10 Professional (OEM License)</p> <p>Windows 2016 Server (OEM License)</p>			Per No.	
21	As per wording of Item	<p>Supply and installation of Accessories with specifications mentioned below and as per direction of Engineer-in-charge.</p> <p>Brand and Model Asus RT-AC58U</p> <p>Description AC1300 Dual Band WiFi Router</p> <p>Network Standards IEEE 802.11a, IEEE 802.11b, IEEE 802.11g, IEEE 802.11n, IEEE 802.11ac, IPv4, IPv6</p> <p>Peak Data Rate up to 867 Mbps (@ 802.11ac)</p> <p>Brand and Model Dlink DGS-1210-28</p> <p>Description 24 Port Web Smart Switch</p> <p>Ports 24 10/100/1000Base-T ports + 4 SFP ports</p> <p>Network Standards IEEE 802.3, IEEE 802.3u, IEEE 802.3ab, IEEE 802.3x</p>			Per No.	

22	As per wording of Item	<p>Supply and installation of Speakers with specifications mentioned below and as per direction of Engineer-in-charge.</p> <p>Brand and Model 12" Variable Intensity Speaker</p> <p>System Type 12" Variable Intensity Loudspeaker</p> <p>Components Direct-radiating vented-bass fullrange loudspeaker system High-efficiency, high-power castframe 305-mm (12-inch) woofer with one 25.4-mm (1.0-inch) exit compression driver mounted to a small format Variably Intensity Multi-Angled Housing Direct-radiating vented LF</p> <p>Frequency Response 45 Hz - 20 kHz</p> <p>Power Handling 250 W LTC / 1,000 W Peak</p> <p>Max O/P 122 dB SPL LTC / 128 dB SPL Peak</p> <p>Impedance 8Ω (Nominal) 5.6Ω (Minimum) (17.5kHz)</p> <p>Beam - Long Throw (1-20 kHz) Horizontal : 60° (+38°, -5°) Vertical : 70° (+35°, -15°)</p> <p>Beam - Short Throw (600Hz-20 kHz) Horizontal : 110° (+25°, -15°) Vertical : 90° (+40°, -20°)</p> <p>Directivity Factor, Rθ (Q), 1.2-20 kHz 14.0 (+4.5, -4.0)</p> <p>Directivity Index, Di, 1.2-20 kHz 12.5 dB (+1.5 dB, -2.7 dB)</p>			Per No.	
23	As per wording of Item	<p>Supply and installation of Amplifier with specifications mentioned below and as per direction of Engineer-in-charge.</p> <p>Brand and Model Crown XLS 1502</p> <p>Description Two-channel, 525W @ 4Ω Class D Power Amplifier</p> <p>Sensitivity 1.4Vrms</p> <p>Frequency Response +0dB, -1dB</p> <p>Signal to Noise >103dB (at .775Vrms, 6dB lower)</p> <p>Intermodulation Distortion < 0.3%</p> <p>Damping Factor > 200</p> <p>THD < 0.5%</p> <p>Crosstalk At 1kHz: > 85dB, At 20kHz: > 55dB</p>			Per No.	
24	As per wording of Item	<p>Supply and installation of Speakers with specifications mentioned below and as per direction of Engineer-in-charge.</p> <p>Brand and Model QSC AC-S6T Acoustic Coverage™</p> <p>Description 6.5-inch 2-way, 130° conical Surface Mount speakers</p> <p>Components LF : 165 mm (6.5-inch) Polypropylene woofer with</p>			Per No.	

		<p>25 mm (1-inch) voice coil HF: 25 mm (1-inch) Aluminium dome tweeter with 25 mm (1-inch) voice coil</p> <p>Frequency Response 60 Hz–20 kHz</p> <p>Rated Noise Power / Voltage 30 watts / 15.5 volts rms</p> <p>Max O/P 101 dB SPL LTC / 107 dB SPL Peak</p> <p>Impedance 8Ω</p> <p>Broad-band Sensitivity 86 dB SPL</p> <p>Coverage Angle 130° conical (500 Hz–5 kHz)</p> <p>Directivity Factor, Rθ (Q) 6</p> <p>Directivity Index, Di 8 dB</p>				
25	As per wording of Item	<p>Supply and installation of Amplifier with specifications mentioned below and as per direction of Engineer-in-charge.</p> <p>Brand and Model Crown XLS 1502</p> <p>Description Two-channel, 525W @ 4Ω Class D Power Amplifier</p> <p>Sensitivity 1.4Vrms</p> <p>Frequency Response +0dB, -1dB</p> <p>Signal to Noise >103dB (at .775Vrms, 6dB lower)</p> <p>Intermodulation Distortion < 0.3%</p> <p>Damping Factor > 200</p> <p>THD < 0.5%</p> <p>Crosstalk At 1kHz: > 85dB, At 20kHz: > 55dB</p>			Per No.	
26	As per wording of Item	<p>Supply and installation of Speakers with specifications mentioned below and as per direction of Engineer-in-charge.</p> <p>Brand and Model Quest Audio MS601</p> <p>Description Bass Reflex</p> <p>Peak Power 160 W</p> <p>Power Handling 80 W</p> <p>Nominal impedance 8Ω</p> <p>Components LF : 6.5" Poly Propylene Cone, Rubber Surround, 35 mm Voice Coil HF: Dome Tweeter, Silk Membrane, 25 mm Voice Coil</p> <p>Angle of Coverage 90° x 90°</p> <p>Sensitivity 1W @1 meter 93 dB</p> <p>Max SPL 110 dB</p> <p>Frequency Response 60 Hz - 20 Khz ± 3 dB</p> <p>Crossover Frequency 3000 Hz</p>			Per No.	
27	As per wording of Item	<p>Supply and installation of Amplifier with specifications mentioned below and as per direction of Engineer-in-charge.</p> <p>Brand and Model Crown XLS 1002</p> <p>Description Two-channel, 350W @ 4Ω Class D Power Amplifier</p> <p>Sensitivity 1.4Vrms</p> <p>Frequency Response +0dB, -1dB</p> <p>Signal to Noise > 97dB (at .775Vrms)</p>			Per No.	

		<p>sensitivity, 6dB lower)</p> <p>Intermodulation Distortion < 0.3%</p> <p>Damping Factor > 200</p> <p>THD < 0.5%</p> <p>Crosstalk At 1kHz: > 85dB, At 20kHz: > 55dB</p>				
28	As per wording of Item	<p>Supply and installation of Headphones with specifications mentioned below and as per direction of Engineer-in-charge.</p> <p>Description Noise-Cancelling On-Ear Headphones</p> <p>Drivers 40mm</p> <p>Frequency Response 20Hz - 20 kHz</p>			Per No.	
29	As per wording of Item	<p>Supply and installation of DMX stage light controller with specifications mentioned below and as per direction of Engineer-in-charge.</p> <p>Brand and Model CHAUVET Obey 4 DMX Channel Controller</p> <p>Description 512 Channel</p>			Per No.	
30	As per wording of Item	<p>Supply and installation of RGB stage light with specifications mentioned below and as per direction of Engineer-in-charge.</p> <p>Brand and Model ChauvetSlimPar 56</p> <p>Description 180W</p>			Per No.	
31	As per wording of Item	<p>Supply and installation of Stage light spot with specifications mentioned below and as per direction of Engineer-in-charge.</p> <p>Brand and Model Chauvet LED Pin Spot</p> <p>Description 30W RGBW LED</p>			Per No.	
32	As per wording of Item	<p>Supply and installation of Aluminium make Truss with specifications mentioned below and as per direction of Engineer-in-charge.</p> <p>Description Lightweight Aluminium Truss</p> <p>Dimensions 80 meters</p>			Per No.	
33	As per wording of Item	<p>Supply and installation of Drapes with specifications mentioned below and as per direction of Engineer-in-charge.</p> <p>Description Black Matte Velvet-like Stage Drapes</p> <p>Dimensions 8m x 4m</p> <p>Dimensions 1m x 4m</p> <p>Dimensions 1m x 8m</p>			Per No.	
34	As per wording of Item	<p>Supply and installation of Strechers with specifications mentioned below and as per direction of Engineer-in-charge.</p> <p>Description Hold-Fasts for Drapes and Projection Screens</p> <p>Dimensions N/A</p>			Per No.	
35	As per wording of Item	<p>Supply and installation of Holo Surface with specifications mentioned below and as per direction of Engineer-in-charge.</p> <p>Description Propreitory Semi-Transparent Projection Surface</p> <p>Dimensions 8m x 4m</p> <p>Description Rear Projection Film</p> <p>4' x 6'</p> <p>Dimensions</p>			Per No.	

36	As per wording of Item	<p>Supply and installation of Mouse + keyboard with specifications mentioned below and as per direction of Engineer-in-charge.</p> <p>Wired Dell Wired (USB) Mouse + Keyboard Combo</p> <p>Wireless Dell Wireless (USB) Mouse + Keyboard Combo</p>			Per No.	
37	As per wording of Item	<p>Supply and installation of Server Rack with specifications mentioned below and as per direction of Engineer-in-charge.</p> <p>Brand and Model WQ India</p> <p>Size 12 U</p>			Per No.	
38	As per wording of Item	<p>Supply and installation of Webcam with specifications mentioned below and as per direction of Engineer-in-charge.</p> <p>Resolution 4K UHD @ 30 fps 1080p @ 30/60fps 720p @ 30/60/90fps</p> <p>FOV 90° (with 60° and 78° Settings)</p> <p>Features AutoFocus RightLight™ 3 with HDR IR Sensor for Windows Hello</p> <p>Features dual omni-directional mics with noise cancellation</p> <p>Dimensions 27 mm x 102 mm x 27 mm</p>			Per No.	
39	As per wording of Item	<p>Supply and installation of accessories with specifications mentioned below and as per direction of Engineer-in-charge.</p> <p>Mini HDMI to HDMI</p> <p>Mini DP to HDMI</p> <p>USB 3.0 Extension Cable (5 Metre)</p> <p>DLink CAT6 Cable (1000 ft)</p> <p>MX HDMI 2.0 Cable (5 Meter)</p> <p>MX HDMI 2.0 Cable (10 Meter)</p> <p>MX HDMI 2.0 Cable (15 Meter)</p> <p>AUX Extension cable (5 Meter)</p> <p>AUX Extension cable (10 Meter)</p>			Per No.	
40	As per wording of Item	<p>Supply and installation of Touch interface panels with specifications mentioned below and as per direction of Engineer-in-charge.</p> <p>Description Touch Screen Interface with Control Hardware</p> <p>Screen Size 7"</p>			Per No.	
41	As per wording of Item	<p>Supply and installation of Inout panels with specifications mentioned below and as per direction of Engineer-in-charge.</p> <p>I/O Specs 6 In</p>			Per No.	
42	As per wording of Item	<p>Supply and installation of Audio patch panels with specifications mentioned below and as per direction of Engineer-in-charge.</p> <p>I/O Specs 3 In x 3 Out</p>			Per No.	
43	As per wording of Item	<p>Supply and installation of show countdown with specifications mentioned below and as per direction of Engineer-in-charge.</p> <p>I/O Specs HDMI</p>			Per No.	
44	As per wording of Item	<p>Develop, Supply and installation of Exhibition space design (40000 sq. ft.) show specifications mentioned below and as per direction of Engineer-in-charge.</p> <p>Lead the theming, design and fit out for the circulation and flexible spaces, develop concept designs through to detailed production or manufacturing drawings, and oversee fabrication.</p>			Per No.	

		This would comprise of two main aspects: First – undertaking the theming and design of the flexible spaces and circulation areas (the spaces in between) to aid and enhance visitors' journeys through the exhibition space, and secondly by providing a design overview to help the designs of the exhibitions, installations, graphics and digital content to fit together to create an experience that is even more than the sum of its parts.				
45	As per wording of Item	Develop, Supply and installation of Exhibition Research Design and Identity specifications mentioned below and as per direction of Engineer-in-charge. Final design of the graphic identity of the building, building on existing brand guidelines. This includes design, research, production and installation of way-finding, signage, information displays and visitor information in print.			Per No.	
46	As per wording of Item	Develop, Supply and installation of Creative Digital design specifications mentioned below and as per direction of Engineer-in-charge. The creative use of digital technology and audio visual elements across the museum, including interactive displays, video content, soundscapes, and projections. The Creative Digital Designer\agency will play a pivotal strategic and creative role, by advising on the creative, practical and affordable use of digital technology across the museum, and by developing key elements to enhance the visitor experience.			Per No.	
47	As per wording of Item	Develop, Supply and installation of CGI Digital Double specifications mentioned below and as per direction of Engineer-in-charge. Pre - Production Character Research & study Character look development (2d) Character sculpting (3d) Character Modeling Multiple realistic expressions through blendshapes Shading Rigging 360 Hdri capture on set Lighting with passes Shoot prep Mocap test for facial tracking Mocap rig with camera Shoot with multiple cameras with track points Match Move - Extracting camera data for 3d Mocap facial tracking – extracting facial movement to put on facial rig Mocap head tracking – Extracting head motion to transfer on CG rig Facial rig set up Transfer facial track data to CG facial rig Cleaning mocap data for smooth animation Rotomation Chroma keying – live shot actor Rotoscopy, compositing – live action character body and CG Head Paint – actor head removal 360 hdri capture for lighting Lighting CG head, rendering with passes from 3d Color correction – to seamlessly blend real life footage & 3d Head adding surreal motion graphics elements for hologram			Per No.	

48	As per wording of Item	<p>Develop, Supply and installation of Live Scale Hologram specifications mentioned below and as per direction of Engineer-in-charge.</p> <p>The agency will have to create script for the hologram act, design the content with minimum 5 minutes of engagement. The content should address 80-100 individuals at any given time. The typical experience room will be of approx 2500 sq ft and the agency will be responsible for the entire end to end execution of the experience which would also include the room designing, set fabrication, installation and hardware planning. The agency will also have to design the software which will involve the operation of the entire installation</p>			Per No.		
49	As per wording of Item	<p>Develop, Supply and installation of Augmented Reality –Interactive Installation specifications mentioned below and as per direction of Engineer-in-charge.</p> <p>The agency will have to conceptualise an interactive installation using large scale augmented reality based on the museum concept. The application should necessarily involve multiple participants and also have integrated touch interactive modules</p>			Per No.		
50	As per wording of Item	<p>Develop, Supply and installation of Photorealistic Human Character Animation with specifications mentioned below and as per direction of Engineer-in-charge.</p> <p>The agency will be creating a photo-realistic human character. The final output will be part of story design of multiple installations (and will not be limited with one storyline). The story should be around 15 minutes</p>			900 Sec.		
51	As per wording of Item	<p>Develop, Supply and installation of Projection mapping (2 minutes) 4K resolution with specifications mentioned below and as per direction of Engineer-in-charge.</p> <p>The agency will develop the script and the final content of the desired projection AV. The agency will also have to design the software for application and will be handling the entire installation on an end to end basis.</p>			Per No.		
52	As per wording of Item	<p>Develop, Supply and installation of Digital painting 2K resolution with specifications mentioned below and as per direction of Engineer-in-charge.</p> <p>The application will involve the content creation and software development along with the installation of the same</p>			Per No.		
53	As per wording of Item	<p>Develop, Supply and installation of Audio visual content creation (for 15 minutes) with specifications mentioned below and as per direction of Engineer-in-charge.</p> <p>Total content spread over 15 minutes which would include conceptualising, sourcing, compiling, editing as per guidelines set up for multiple installations</p>			Per No.		
54	As per wording of Item	<p>Develop, Supply and installation of Touch Interactive Kiosks with specifications mentioned below and as per direction of Engineer-in-charge.</p> <p>The application will include end to end design, programming, content integration and testing with multiple touch interface, it should be UI Ux Design.</p>			Per No.		
55	As per	Develop, Supply and installation of Sound Interactive			Per		

	wording of Item	Kiosks with specifications mentioned below and as per direction of Engineer-in-charge. The application will include end to end design, programming, content integration and testing			No.		
56	As per wording of Item	Develop, Supply and installation of Acoustic Planning / Consultancy (20000 sq. ft.) with specifications mentioned below and as per direction of Engineer-in-charge. The agency will provide an end to end consultancy which would include space understanding, accoustic material planning, sound proofing, sound planning based on multiple installations and hardware placement.			Per No.		
57	As per wording of Item	Develop, Supply and installation of Green Screen Shoot Production for 15 minutes content with specifications mentioned below and as per direction of Engineer-in-charge. The agency will have to manage, casting, costumes, make up, studio booking, light equipment hiring, requisite multi-camera rentals (minimum 3), catering, logistics, data management and the final graded edit			Per No.		
58	As per wording of Item	Develop, Supply and installation of Museum Technology design & planning with specifications mentioned below and as per direction of Engineer-in-charge. This will operate spread across multiple locations within the venue spread over 40,000 sq.ft., application handling which would also include the system monitoring, start and shut down and reporting mechanism			Per No.		
59	As per wording of Item	Develop, Supply and installation of Show management system with specifications mentioned below and as per direction of Engineer-in-charge. The application would support installations which would manage the show and display the status in the show status screen. The system will also need to be agile for handling/changing the timings based on the on-ground scenario			Per No.		
60	As per wording of Item	Develop, Supply and installation of Lighting consultancy with specifications mentioned below and as per direction of Engineer-in-charge. The lighting consultancy agency will provide an end to end consultancy which would include space understanding, lighting condition planning on multiple installations and keeping in mind the exhibited installations for optimum visual appeal			Per No.		

We hereby Quote the rate.

Agency

Executive Engineer (W)

M.S.I. Board, Mumbai

