

**BILL OF QUANTITIES:**  
**Exterior Restoration and Interior**  
**Upgradation of**  
**Bombay Natural History Society**

# GRAND SUMMARY

<b>SUMMARY SHEET</b>		
<b>Name of Work: TENDER FOR BOMBAY NATURAL HISTORY SOCIETY FORT, MUMBAI</b>		
<b>SR.NO.</b>	<b>DESCRIPTION</b>	<b>AMOUNT</b>
I	DISPLAY UNITS AND COMPACTORS	- ₹
II	PROJECTION MAPPING	- ₹
III	HOLOGRAPHIC PROJECTION	- ₹
IV	Fire Detection System and Public Address System	- ₹
V	LIGHT FIXTURES	- ₹
	<b>TOTAL</b>	- ₹

**DISPLAY UNITS:  
QUOTATION FROM DISPLAY HOUSE**

**QUOTES FOR DISPLAY UNITS & COMPACTORS**

**Name of Work: BOMBAY NATURAL HISTORY SOCIETY FORT, MUMBAI**

<b>OPTION 1 (Metal Zink Finish)</b>				
Option 1 (Metal Zink Finish) Display Unit M 1 - Size 11000 mm x 740 mm Depth x 2620 mm ht * Fabricated in Exterior Quality MDF * Entire Unit will be Metal Zink Paint Finish. * Tandom Channel will be used for Shelves	28.6			
Option 1 M 4 - Size 11280 mm x 740 mm Depth x 2620 mm ht * Fabricated in Exterior Quality MDF * Entire Unit will be Metal Zink Paint Finish. * Tandom Channel will be used for Shelves	29.55	sq.m		
TOTAL (Option 1)				- ₹
<b>OPTION 2 (PU Paint Finish)</b>				
Option 2 (PU Paint Finish) Display Unit M 1 - Size 11000 mm x 740 mm Depth x 2620 mm ht * Fabricated in Exterior Quality MDF * Entire Unit will be PU Paint Finish	28.6			
Option 2 (PU Paint Finish) M 4 - Size 11280 mm x 740 mm Depth x 2620 mm ht * Fabricated in Exterior Quality MDF * Entire Unit will be PU Paint Finish	29.55	sq.m		
TOTAL (Option 2)				- ₹

	<b>Option 3 (Outside PU Paint Finish &amp; Inside</b>				
	Option 3 (Outside PU Paint Finish & Inside Laminate Sheet) Display Unit M 1 - Size 11000 mm x 740 mm Depth x 2620 mm ht * Fabricated in Exterior Quality MDF	28.6			
	Option 3 (Outside PU Paint Finish & Inside Laminate Sheet) M 4 - Size 11280 mm x 740 mm Depth x 2620 mm ht * Fabricated in Exterior Quality MDF * Outside Visible Area will be PU Paint Finish	29.55	sq.m		
	TOTAL (Option 3)				
	<b>Option 4 (Finger Joint Board with PU Finish)</b>				
	Option 4 (Finger Joint Board with PU Finish) Display Unit M 1 - Size 11000 mm x 740 mm Depth x 2620 mm ht * Fabricated in Fingure Joint Board * Entire Unit will be PU Paint Finish	28.6			
	Option 4 (Finger Joint Board with PU Finish) M 4 - Size 11280 mm x 740 mm Depth x 2620 mm ht * Fabricated in Fingure Joint Board * Entire Unit will be PU Paint Finish * Tandom Channel will be used for Shelves	29.55	sq,m		
	TOTAL (Option 4)				
	<b>Providing and fixing compactors</b> of length 3 to 3.5m, 1.5m width, 1.8 to 2m high - Double Faced Mechanical unit of Kompres or equivalent make. Each Mobile Unit will have mechanical assisted drive arrangement. Each Component of the System will be treated with rust preventive treatment and will be powder coated for better finish. Item to be inclusive of transport, assembly on site.	7	no.		

**PROJECTION MAPPING:  
QUOTATION BY BARCO**

PROJECTION MAPPING							
S.No.		Unit	Qty	Unit Price	Total Price	GST	Amount
1	DLP Laser Projector with min 11000 Lumens Brightness, 90% or more brightness uniformity, 500000:1 contrast or more with high brightness lens, WUXGA or more resolution, 20000 Hrs or more illumination, Input resolution 4K/4KUHD or more, Inbuilt Warping & Blending. HDMI 2.0, DP 1.2, HDBaseT inputs. RS 232/Ethernet control. Supplied With 0.65-0.75:1 short throw Lens.	Nos	5		₹ -	28%	₹ -
2	Ceiling Speakers Frequency Response 60Hz-20kHz Power Rating 150W Continuous Pink Noise or More Sensitivity 112 dB SPL Coverage Angle 1200 Conical Nominal Impedance 70V/100V/8 ohms	Sqm	6		₹ -	18%	₹ -
3	Multi Channel Amplifier Channels: 2 Channels Per Amplifier Power: 300 W per channel @ 8ohm Dual Frequency Response: +0dB, -1dB Sensitivity: .775V rms or 1.4 Vms Damping Factor: >200 THD: <0.5%	Nos	1		₹ -	18%	₹ -
4	Supply of Display media server with 6x video outputs from single GPU as required. It should be capable of capturing content. Original windows 11 embedded with latest intel i9 CPU with Rugged cooling system, with 32GB RAM, 2 nos 512 nVME SSD drives raid 0 drives for media playback, 1 nos. 480 GB nVME SSD for operating. It should also have genlock and framelock capability. Should also have Art-net Ethernet in/out. to complete the job with all aspects.	Nos	1		₹ -	18%	₹ -
5	Supply of Display media server with onboard GPU having minimum 1x video output as required. It should be capable of capturing content. Original windows 11 embedded with latest intel i5 CPU with Rugged cooling system, with 16GB RAM, 1 nos 512 nVME SSD drives raid 0 drives for media playback, 1 nos. 480 GB nVME SSD for operating. It should also have genlock and framelock capability. Should also have Art-net Ethernet in/out. to complete the job with all aspects.	Nos	1		₹ -	18%	₹ -
6	Supply of 3D Projection mapping software, Playback control System to manage, schedule & control the media servers. It should have direct control on inputs and media timelines. It should have an option of being controlled by an external unit integrated with the software to complete the job with all respects.	Nos	2		₹ -	18%	₹ -
7	Accessories including Projector mount, HDMI extenders, AV cables, network switch, equipment rack etc. including any other accessory required for complete installation of holographic projection	Lot	1		₹ -	18%	₹ -
8	Installation, Testing and Commissioning	Job	1		₹ -	18%	₹ -

₹ -



**HOLOGRAPHIC PROJECTION:  
QUOTATION BY BARCO**


S.No.	HOLOGRAPHIC PROJECTION	Unit	Qty	Unit Price	Total Price
1	DLP Laser Projector with min 13500 Lumens Brightness, 90% or more brightness uniformity, 500000:1 contrast or more with high brightness lens, WUXGA or more resolution, 20000 Hrs or more illumination, Input resolution 4K/4KUHD or more, Inbuilt Warping & Blending. HDMI 2.0, DP 1.2, HDbaseT inputs. RS 232/Ethernet control. Supplied With 0.75-0.95:1 short throw Lens.	Nos	1		₹ -
2	3D Holographic Mesh Screen: SITC of high quality holographic projection, screen should be having see through feature (Transparent), should be easy to install and remove, possible to fold in smaller size for storage, should be reusable, lightweight and also stretchable, screen size should be 4mx6m	Sqm	24		₹ -
3	Audio System including 4x FOH speakers minimum 100W RMS power, 2x Power Amplifiers, 1x subwoofer for low frequency performance.	Nos	1		₹ -
4	Supply of Display media server with 4K outputs as required. It should be capable of capturing content. Original windows 11 embedded with latest intel i9 CPU with Rugged cooling system, with 32GB RAM, 2 nos 512 nVME SSD drives raid 0 drives for media playback , 1 nos. 480 GB nVME SSD for operating. It should also have genlock and framelock capability. Should also have Art-net Ethernet in/out. to complete the job with all aspects., 1x Quadro RTX A4000	Nos	1		₹ -
5	Accessories including Projector mount, HDMI extenders, AV cables, network switch, equipment rack etc. including any other accessory required for complete installation of holographic projection	Lot	1		₹ -
6	Installation, Testing and Commissioning	Job	1		₹ -






total

# ESTIMATE FOR ELECTRICAL WORKS

Fios Offer - BKC Residence

14/08/23

Ref. Code	LUMINAIRE	PRODUCT CODE	LAMP SPECIFICATION	TOTAL	Image	Fixture Unit Price (INR)	Total Fixture Price (INR)
<b>Gr. Floor- Entrance Area</b>							
DL1	Easy Kap Fixed Ø 80 Plus Optic Flood	05.7446.B1	Power (W): 13W CCT (K): 3000K CRI: 90 Net lumen (lm): 1460 Beam angle (°): 50	10		9403	<b>94034</b>
			Non Dimmable Driver	10		800	<b>8000</b>
<b>Gr. Floor- Reception Decorative</b>							
DR1	Noctambule Suspension 4 Low Cylinders & Cone	F0272000	Power (W): 63W CCT (K): 2700K CRI: 90 Net lumen (lm): 1831	2		56534	<b>113067</b>
	Noctambule Suspension 3 Low Cylinders & Cone	F0271000	Power (W): 54W CCT (K): 2700K CRI: 90 Net lumen (lm): 1545	1		47481	<b>47481</b>
<b>Gr. Floor- Staircase</b>							
DL2	Easy Kap Fixed Ø 80 Optic Flood	03.4297.B1	Power (W): 9.2W CCT (K): 3000K CRI: 90 Net lumen (lm): 974 Beam angle (°): 50	4		8732	<b>34927</b>
			Non Dimmable Driver	4		800	<b>3200</b>
<b>Gr. Floor- Souvenir Shop</b>							
DR2	Tatou S2	F7766048	Power (W): 78W CCT (K): 3500K CRI: 90 Net lumen (lm): 2001 Finish: Almond	3		54621	<b>163863</b>
<b>Gr. Floor- Storage Area for Mammals</b>							
LP1	ALTO ASTROLINE L15C LINEAR		Power (W): 40W CCT (K): 3000K CRI: 90 Net lumen (lm): 2730 Beam angle (°): Diffused Length: 1200mm	6		4550	<b>27300</b>
<b>Gr. Floor- Taxidermy Display</b>							
DL1	Easy Kap Fixed Ø 80 Optic Flood	03.4297.B1	Power (W): 9.2W CCT (K): 3000K CRI: 90 Net lumen (lm): 974 Beam angle (°): 50	5		8732	<b>43659</b>
			Non Dimmable Driver	5		800	<b>4000</b>
TR1	UT Spot with Track Suspended or Surface	<b>Note: Costing is inclusive of fixtures and track</b>	Track inclusive of spots Track Length: 2000mm 6 nos of spots every 1 meter.	12		100000	<b>1200000</b>
<b>Gr. Floor- Alcohol Preserved Specimen Section For Reptiles</b>							
LP1	ALTO ASTROLINE L15C LINEAR		Power (W): 40W CCT (K): 3000K CRI: 90 Net lumen (lm): 2730 Beam angle (°): Diffused Length: 1200mm	7		4550	<b>31850</b>
<b>Gr. Floor- Lecture Hall</b>							

LP2	Led Strip with profile		Power (W): 24W CCT (K): 3000K CRI: 90 Net lumen (lm): 2000 Beam angle (°): Diffused Length: 1000mm Non- Dimmable Driver	100		1430	143000
DL3	Easy Kap Adjustable Ø 105 Optic Flood	05.7017.B1	Power (W): 23W CCT (K): 3000K CRI: 90 Net lumen (lm): 2870 Beam angle (°): 50	44		15747	692869
			Non Dimmable Driver	44		1200	52800
<b>Mezzanine Floor</b>							
DL1	Easy Kap Fixed Ø 80 Optic Flood	03.4297.B1	Power (W): 9.2W CCT (K): 3000K CRI: 90 Net lumen (lm): 974 Beam angle (°): 50	14		8732	122245
			Non Dimmable Driver	14		800	11200
TR1	UT Spot with Track Suspended or Surface	<b>Note: Costing is inclusive of fixtures and track</b>	Track inclusive of spots Track Length: 2000mm 6 nos of spots every 1 meter.	23		100000	2300000
LP1	ALTO ASTROLINE L15C LINEAR		Power (W): 40W CCT (K): 3000K CRI: 90 Net lumen (lm): 2730 Beam angle (°): Diffused Length: 1200mm	3		4550	13650
DR3	DSA Local Decorative	Wingspan Customised Pendant	Power (W): 12W CCT (K): 3000K CRI: 80 Net lumen (lm): 1200 Finishes Available: White/Black/ Grey Length=500mm or 600mm or 700mm	5		18800	94000
						<b>TOTAL</b>	<b>5201144</b>
						<b>GST 18%</b>	<b>936206</b>
						<b>G TOTAL</b>	<b>6137350</b>

**Terms & Conditions:**

1	<b>Kindly note that at the time of payment Euro rate on that day will be considered.</b>
2	Cartage till site, Local taxes (if applicable) will be charged extra on the cost above.
3	The cost above is including Freight & GST (as applicable).
4	<b>Delivery Time: Approx 10-12 weeks.</b> It starts after advance payment receipt and order confirmation.
5	Order is treated confirmed after receipt of the advance money. No changes in the order will be accepted afterwards.
6	<b>Payment Terms:</b> Advance 100% as order confirmation.

**For Flos - India**

**Bosco Thomas**  
+91 9819285208  
West - India

# ESTIMATE FOR FIRE

Make List

<b>Sr. No</b>	<b>Description</b>	<b>Make</b>
1	Fire Alarm System	Ravel/Morlay
2	Cables	Polycab or equivalent
3	PA Systems	Ravel/Morlay

Fire Detection System and Public Address System					
Sr.No	Unit	Description	Quantity	Rate	Amount
1	Nos.	SITC Addressable fire alarm Panel which consists of display board which will have 160 Character Display with Touch key pad, Mother board which will have CORTEX 32 Bit Processor, Inbuilt RS-485 Networking Circuit for peer to peer networking, Inbuilt USB 2.0 Port for upload and download the Configuration tools, Two inbuilt programmable inputs, Two inbuilt NAC's, and Three Programmable Relays, and 4 Loop Card circuits. power Supply Board which will have SMPS fully protected board, which its operates on 120 to 220V AC $\pm$ 10% with 50/60 Hz, battery backup 24V DC with built-in charger. the panel have IP-50 rating Optional: for BMS integration MODBUS converter, Graphical Software, Software for TCP/IP Module, provision for Auto dialler Approval <b>UL Listed</b>	1		-
2	Nos.	SITC of Loop Card which will have 254 devices of both detectors and modules in a single line circuit, SLC supports both Class A and Class B wiring	1		-
3	Nos.	SITC of Addressable Multi Sensor - Heat Cum Smoke detector with base with Binary coded address setting. Dual LED's for 360° visibility. Sleek low-profile housing design. Regular 100mm base. IP Rating : IP - 42. <b>Approval: UL Listed,</b>	4		-
4	Nos.	SITC of Addressable Heat detector with base with Binary coded address setting. Dual LED's for 360° visibility. Sleek low-profile housing design. Regular 100mm base. IP Rating : IP - 42. <b>Approval: UL Listed</b>	1		-
5	Nos.	SITC of Addressable Smoke detector with base with Binary coded address setting. Dual LED's for 360° visibility. Sleek low-profile housing design. Regular 100mm base. IP Rating : IP - 42. <b>Approval: UL Listed</b>	99		-
6	Nos.	SITC of Fault isolator Base capable of monitoring shorted loop circuit and automatically restore communications when shorted conditions are corrected	7		-
7	Nos.	SITC of Conventional Manual Pull Station - Single Action - <b>Approval: UL Listed</b>	7		-
8	Nos.	SITC of Addressable Mini Monitor Module with Back Box for Manual Pull Station	7		-



9	Nos.	SITC of Conventional type Horn wall mounted type rated at 100 dBA @ 1m for Audible annunciation <b>Note: Need to Connect with Addressable Control Module</b>	8		-
10	Nos.	SITC of Addressable Control Module for monitoring the field devices. Binary Coding Setting - <b>Approval: UL Listed</b>	8		-
11	Mtr.	Supplying and fixing 2 core 1.5 Sq. mm armoured copper FRLS cable	1600		-
12	Mtr.	SITC Speaker cable with PVC conduit	990		-
13	Nos.	Supply of 6W Ceiling Mountable with tapping of 1.5, 3 & 6 Watts output with impedance of 100V	47		-
14	Nos.	Supply of 6W wall Mountable with tapping of 1.5, 3 & 6 Watts output with impedance of 100V	Rate only		
15	Nos.	Supply of Digital Signal Processing Based Voice Alarm Controller - 4 inputs, supports Paging unit thru RS485 - Digital Amplifier inbuilt of 250 watts - 8 zones inbuilt, each zones shall supports maximum of 250 watts - Zones are expandable in the multiplication of 8 maximum of upto 64 zones - support Remote Paging Unit, integrated with Fire Alarm system, Emergency Inputs, supports 12 nos of Built in Programmable Digital Voice Alert message - 160 characters LCD display - USB connectivity - PC based Router Configuration - 3 levels of password protection - Event log facility - Overriding facility for Emergency Condition, ALL CALL facility - Zone paging facility - inbuilt MIC - 19" Rack Mountable. Works on 230 VAC - Volume control features for all the zones - Supports maximum of 7 slaves with each of 8 zones	1		-
16	Nos.	Supply of Digital Amplifier of 250 watts output, Class D amplifier - Low Heat dissipation - integrated with Slave console - Power ON LED indications - 19" RACK Mountable -	2		-
22	Nos.	Signages AUTOGLOW	1		-
23	Nos.	ABC Fire Extinguisher Co2 4.5kg.	4		-
24	Nos.	ABC Fire Extinguisher 6kg	60		-
25	Nos.	Clean Agent Fire Extinguisher 6kg	6		-
		<b>Total</b>			-