



Ref No.: JMC/Accts/MPH-T/2022-23

December 12, 2022

## **The Audio, Video, Stage Lighting, Electrical and Stage Furnishing Works**

### **REQUEST FOR PROPOSAL (RFP)/NOTICE INVITING TENDERS**

Jesus & Mary College (University of Delhi) is a Christian Minority Institution located in Chanakyapuri, New Delhi which imparts higher education to women.

**Sealed Proposals/Tenders are invited for Design, Supply, Installation, Testing and Commissioning of the Audio, Video, Stage Lighting, Electrical and Stage Furnishing Works in the MPH "Thevenet Hall" of Jesus & Mary College, New Delhi, including Maintenance of the Systems for Ten years from the date of successful commissioning.**

Prescribed tender form containing Terms & Conditions must be obtained from the Accounts Section of the college on the cost Rs. 2,000/- (Rupees Two Thousand Only). Tender documents which are not purchased from the College will be directly rejected.

Sale of tender document will be upto 3:00 p.m. on 2<sup>nd</sup> January 2023. The sealed tender will be accepted in the office of the undersigned till 9<sup>th</sup> January 2023 (Monday) upto 3:00 p.m.

**Pre-Bid Meeting** – The Pre-Bid Meeting will be held at 3:00 p.m. on 20<sup>th</sup> December 2022 (Tuesday) in the Conference Room of the College. The authorized representatives of the bidders are requested to report 15 minutes prior to the scheduled time of the meeting. Request for changes to the Bid Document will not be entertained after the Pre-Bid Meeting.

The **Technical Bid** will be opened at 11:00 a.m. on 11<sup>th</sup> January 2023 (Wednesday) in the Conference Room of the college in the presence of the authorized representative of the bidder.

The dates and time of opening the **Financial Bid** will be notified on the college's website to the shortlisted candidates.

**PRINCIPAL**

Principal  
Jesus and Mary College  
Chanakyapuri,  
New Delhi-110021

## **Technical Specification**

S.No	Description	Qty	Unit
<b>A</b>	<b>PART - A: ACOUSTICAL WORKS</b>		
<b>1.1</b>	<p><b>ACOUSTICAL DESIGN CEILING:</b>  Providing and fixing at all heights false ceiling with pre fabricated perforated acoustical ceiling panels 600 x 600mm and 1200mm wide acoustical floral pattern panels with led cove light provision at a distance of 2400mm as per approved design and colour. The panel comprises of Perforated acoustic ceiling panel 595 x 595mm with acoustic fleece backing as per approved shade and pattern, duly placed in 24 mm T grid frame work. The Acoustic Panels shall be placed in 24mm T grid ceiling framework as per design with gypsum border or on vertical heights as and wherever required on all sides as per design and drawing layout. The work includes working at all heights as per site and nothing extra shall be paid for light fitting or AC grill fittings.</p>	500	sqm
<b>2</b>	<b>Acoustic Wall Treatment:</b>		
<b>2.1</b>	<p><b>Fabric stretched Acoustic wall panelling system:</b>  Providing and laying Fabric Stretched Acoustic wall panelling system on GI and ply batton Frame work as per design with fabric stretch grippers with glass wool/ rockwool of 48kg/cum; 50mm thick ; average NRC (Noise Reduction co-efficient) of 0.80, Edge finish of square/ half round type with shape and size as per approved design. Approved fabric to be installed on 12mm cove, mid and edge grippers in desired shape and size as per detailed drawing. The rate quoted should include for supplying &amp; fixing the grippers, base frame of GI and ply battons as per detailed drawings, supplying and fixing the Rock wool, and fixing of the approved fabric as per design layout.</p>	150	sqm
	<b>LFA Treatment in Auditorium and Halls (upto 4 feet height):</b>		
<b>2.2</b>	<p><b>Wall Treatment side/rear walls Lower Levels:</b> Providing and fixing acoustic non woven fabric finish panels in line with ceiling layout in approved pattern and finish with provision for cove lights to be fixed on walls. The panels shall be finished with approved pattern , shade and design with rais patterns of 1200mm and back panels in 2400mm width or as per site finishings. Panel is to be fixed on GI framework as recommended by the manufacturer with screw fixed horizontal / vertical to wall at every 600mm c/c with centre on GI framework. The cavity of framework should be inserted with 50mm thick Rock wool of 48 density or fibre glass resin bonded insulation of density 24kg/cum.</p>	90	sqm
<b>3.1</b>	Raised flooring in under balcony area with MS frame work and ply boards/ cement board. To make steps of 4-6" height as per detailed drawing and layout	90	sqm
<b>3.2</b>	Auditorium chairs: Push Back/ tip-off Auditorium chairs 525-575 width as per approved model and design.	100	nos.

	<b>STAGE LIGHTING FOR THE AUDITORIUM</b>	Unit	Qty.
	<b>FOH Lighting BAR</b>		
1	Supply, installation, testing and commissioning of LED PAR Light with 54 x 3W high quality LED's, 100-120V and 200-240V AC, 50/60Hz (200W@220V), RGBW colour mixing; linearly adjustable colour temperature, 0-100% linearly adjustable dimmer, Strobe 0~20 F.P.S, DMX mode, display setting status, operation mode can be transmitted by synchronous control.	Each	12
2	Supply, installation, testing and commissioning of Led Sharpy lights with gobos as per detail specs	Each	4
	<b>1st Lighting BAR</b>		
4	Supply, installation, testing and commissioning of LED PAR Light with 54 x 3W high quality LED's, 100-120V and 200-240V AC, 50/60Hz (200W@220V), RGBW colour mixing; linearly adjustable colour temperature, 0-100% linearly adjustable dimmer, Strobe 0~20 F.P.S, DMX mode, display setting status, operation mode can be transmitted by synchronous control.	Each	4
	<b>2nd Lighting BAR</b>		
7	Supply, installation, testing and commissioning of LED PAR Light with 54 x 3W high quality LED's, 100-120V and 200-240V AC, 50/60Hz (200W@220V), RGBW colour mixing; linearly adjustable colour temperature, 0-100% linearly adjustable dimmer, Strobe 0~20 F.P.S, DMX mode, display setting status, operation mode can be transmitted by synchronous control.	Each	4
	<b>Cyclorama Lighting BAR</b>		
8	Supply, installation, testing and commissioning of LED PAR Light with 54 x 1W high quality LED's, 100-120V and 200-240V AC, 50/60Hz (200W@220V), RGBW colour mixing; linearly adjustable colour temperature, 0-100% linearly adjustable dimmer, Strobe 0~20 F.P.S, DMX mode, display setting status, operation mode can be transmitted by synchronous control.	Each	10
	<b>Side Light Ladder</b>		
10	Supply, installation, testing and commissioning of LED PAR Light with 54 x 3W high quality LED's, 100-120V and 200-240V AC, 50/60Hz (200W@220V), RGBW colour mixing; linearly adjustable colour temperature, 0-100% linearly adjustable dimmer, Strobe 0~20 F.P.S, DMX mode, display setting status, operation mode can be transmitted by synchronous control.	Each	18
11	Supply, installation, testing and commissioning of 6 Channel DMX Splitter for ensure maximum safety and DMX Signal distribution . The DMX splitter provided on DMX input and Six Buffered output. The conections are thru 3 pin or 5 pin XLR Connectors.	Each	2

12	Providing/ fixing Mini pearl 1024 DMX stage light Control Panel;, 512/1990 standard, 192 DMX Channel *Control 16 Intellegent Lights With Upto 12 Channel Each; consisting of sub masters, separate pages manual controls with 2 sub masters, 1 master fader , blinker switches, effects control, DMX output and soft patch to 512 DMX channels, LCD menus , HTP control, Provision for Controlling intelligent lights etc.	Each	1
13	Supply, installation, testing and commissioning Inter connection wiring for Dimmer to Control Room with required connectors.	Job	1
14	Supply, installation, testing and commissioning Light Point Wiring from Patch Panel to be provided near stage to various stage light fixtures with 1.5 Sq.mm 3 Core PVC Insulated and PVC Sheathed Cable including Cable Tray of suitable size for laying these wires on the tray including 20 amps connectors at top.	Each	30
15	Supply, installation, testing and commissioning DMX Point Wiring	Each	40

<u>S.n.</u>	<u>Description</u>	<u>Qty</u>	<u>Unit</u>
-	<b><u>STAGE LIGHTING &amp; STAGE FURNISHINGS</u></b>		
6	<b>PERSONIUM:</b> P/F persoinium frame on stage front with 50 X 25mm MS tube at 1200 x600 mm c/c . Acoustic panelling on the paid separately as per acoustic item details.	80.00	sqm

S.no	Description	Qty	Unit
<b>Sound System</b>			
1	<p>SITC of Main Auditorium loudspeaker Two-Way Line Array Column with Asymmetrical Vertical Coverage</p> <p>Specifications: System:</p> <p>Components: Four 130 mm (5 in) LF drivers; Sixteen 25 mm (1 in) HF drivers</p> <p>Frequency Range (-10 dB): 60 Hz – 20 kHz</p> <p>Coverage: Vertical (selectable via switch)</p> <p>Narrow Mode: 25° (2 kHz - 16 kHz) (±10°)</p> <p>Broad Mode: 45° (750 Hz - 16 kHz) (±10°)</p> <p>Horizontal 150° (500 Hz – 8 kHz, ±20°)</p> <p>Sensitivity (2.83V@ 1m) : Narrow: (speech mode) 98 dB (1 kHz - 8 kHz) (music mode) 93 dB (300 Hz - 18 kHz)</p> <p>Broad: (speech mode) 96 dB (1 kHz - 8 kHz) (music mode) 92 dB (300 Hz - 18 kHz)</p> <p>Nominal Impedance: 8 ohms</p> <p>Power Capacity and Max SPL</p> <p>: 500 W (2000 W peak), 2 hrs; 350 W (1400 W peak), 100 hrs;</p> <p>: Narrow: (speech mode) 125 dB cont ave (131 peak) (music mode) 120 dB cont ave (126 peak)</p> <p>Broad: (speech mode) 123 dB cont ave (129 peak) (music mode) 119 dB cont ave (125 peak)</p> <p>Transducers: Low Frequency Drivers: 4 pcs, 130 mm (5 in) drivers, dual magnet neodymium, 38 mm (1.5 in) voice coil, damped blended textile surround, coated diaphragm for moisture, UV, and salt resistance, shielded.</p> <p>High Frequency Drivers: 16 pcs, 25 mm (1 in) drivers, dual magnet neodymium, encased magnet and coated diaphragm for moisture, UV and salt resistance, shielded.</p> <p>Enclosure: Fiberglass reinforced ABS cabinet, painted aluminum grille.</p>	3	Nos.
2	<p>SUBWOOFER: SITC of Main Auditorium subwoofer as per following Specifications</p> <p>SYSTEM TYPE: Powered subwoofer</p> <p>WOOFER SIZE: 15"</p> <p>MAX SPL: 128 dB</p> <p>FREQUENCY RESPONSE (-3 dB): 45 Hz – 103 Hz</p> <p>FREQUENCY RESPONSE (-10 dB): 35 Hz – 147 Hz</p> <p>POWER RATING: 1,300 watts peak</p> <p>600 watts burst</p> <p>400 watts continuous</p> <p>INPUT IMPEDANCE: 100k ohm, balanced</p> <p>CROSSOVER FREQUENCIES: Selectable 80, 100, 120 Hz</p> <p>POLARITY: Normal, inverted (switch on back panel)</p> <p>INPUTS: 2 XLR Combo</p> <p>OUTPUTS: 2 XLR (pass through)</p>	3	Nos.

3	<p>Floor Monitor: SITC of two way stage monitor as per following Specifications:</p> <p>System Type 12IN Powered Loudspeaker</p> <p>Woofers Model 712G; Woofers Size 12"</p> <p>Woofers Magnet Ferrite, Woofers Voice Coil 2";</p> <p>Tweeter Model 2414H Compression Driver; Tweeter Size 1"; Tweeter Magnet Neodymium</p> <p>Transducer Impedance LF 4ohm rated, HF 8ohm rated</p> <p>Max SPL 127dB @1m/4Pi</p> <p>Freq Range -10 50Hz - 20kHz; Freq Range -3 60Hz - 20kHz</p> <p>Hor Dispersion 100°; Vert Dispersion 60°</p> <p>Power Rating 1300W peak / 650 RMS</p> <p>AC power input 100V-120V or 220V-240V</p> <p>Cooling Passive</p> <p>LED indicators 1 Power LED, 1 Limit LED, 1 Front LED, 2 Signal/SSM LEDs</p> <p>Input Impedance 50k/100k un-balanced/balanced</p> <p>Input Gain -∞to +36db</p> <p>Crossover Frequency 2 kHz</p> <p>I/O 2 XLR Combo Jacks / BT</p> <p>1 XLR M Thru</p> <p>Cabinet PP+10% Talc</p>	4	Nos.
4	<p>SITC of Balcony and Delay speakers for under balcony as per following Specifications</p> <p>SYSTEM TYPE: Powered 12" two-way</p> <p>CABINET: Polypropylene with full steel grille</p> <p>MAX SPL: 127 dB peak</p> <p>FREQUENCY RESPONSE (±3 dB): 53 Hz – 20 kHz</p> <p>POWER RATING: 1300 watts peak</p> <p>INPUT IMPEDANCE: 10k ohm balanced</p> <p>COVERAGE PATTERN: 90° (horizontal) x 60° (vertical) nominal</p> <p>BLUETOOTH: Audio streaming, Bluetooth version 5.0</p> <p>DSP: 4 presets, feedback suppression, ducking</p> <p>I/O: 2 XLR/TRS combo mic/line inputs, 1 XLR pass-thru output</p>	4	Nos.
5	Headphones for control room operator	1	nos.
6	<p>Amplifier: Specifications</p> <p>AC Line Voltage and Frequency Configurations Available (+/- 10%) 100VAC 50/60 Hz, 110VAC 60 Hz, 220 and 230~240VAC 50 Hz</p> <p>Voltage Gain 42</p> <p>Sensitivity 1.4V (for full rated power at 4 ohms)</p> <p>Signal to Noise Ratio (ref. rated power, 8 ohms, 1 kHz) &gt; 103 dB</p> <p>THD &lt;0.5%</p> <p>Damping Factor (8 ohms, 10 Hz to 400 Hz) &gt;200</p> <p>Intermodulation Distortion (from full rated output to -30 dB) &lt;0.3%</p> <p>Frequency Response (at 1W, 20 Hz - 20 kHz) -1 dB</p> <p>Crosstalk &gt;85 dB (below rated 8 ohms power, at 1 kHz); &gt;55 dB (below rated 8 ohms power, at 20 kHz)</p> <p>Input Impedance (nominal) 20 kilohms balanced, 10 kilohms unbalanced</p> <p>Load Impedance 2~8 ohms per channel in Stereo; 4~8 ohms in Bridge</p> <p>Dimensions 19" x 3.5" x 10.4" (48.3cm x 8.9cm x 26.4cm)</p> <p>Weight 10.4 lbs (4.72 kg)</p> <p>Shipping Weight 13.2 lbs (6 kg)</p> <p>IEC Power Connector 15A</p>	2	Nos.
7	SITC of Smart mettalic Podium with gooseneck mike , reading lamp, tw wireless mikes, inbuilt speaker and master connector.	1	Nos.

8	<b>Wireless handheld microphone:</b> Cardioid dynamic capsule system with frequency response of 80Hz-16kHz; Max SPL of 149 dB SPL; Excellent feedback rejection; illuminated mute button; 10 hours of operation; 12 Presets; Total harmonic distortion(THD-N) is < 1%; Signal to noise ratio is > 103 dB; Switching bandwidth of 24MHz; Synchronization via RF remote channel.	2	Nos.
9	<b>Wireless headphone/ lapel microphone:</b> Cardioid dynamic capsule system with frequency response of 80Hz-16kHz; Max SPL of 149 dB SPL; Excellent feedback rejection; illuminated mute button; 10 hours of operation; 12 Presets; Total harmonic distortion(THD-N) is < 1%; Signal to noise ratio is > 103 dB; Switching bandwidth of 24MHz; Synchronization via RF remote channel.	1	Nos.
10	<b>Wired handheld microphone:</b> Microphone with frequency response of 40Hz-16kHz; Cardioid pick-up pattern; Exceptional feedback rejection; Isolation from incidental noise.	2	Nos.
11	<b>Wired Instrumental microphone:</b> Supply , installation , testing and commissioning of wired Instrumental microphone as per the tender specifications.	2	Nos.
12	Mike Stands (2 big + 2 small)	4	Nos.
13	<b>Mixing Console:</b> DIGITAL Mixing Console with following features: 24 mono mic inputs 4 line inputs 66 inputs to mix 1 ViSi Connect™ option card slot for 64 x 64 input/output expansion Freely assignable faders and patching Pre/Post selection per input and per bus AES in and out Global mode encoders Soundcraft FaderGlow™ GEQ on every bus 20 sub-group / aux busses 4 FX busses 8 Matrix busses LR and C Mix busses 4 Stereo Lexicon Effects engines Delay on inputs and outputs 4 Mute Groups Freely assignable insert loops Harman HiQnet integration Colour touch screen interface.	1	Nos.
14	<b>Connectors : XLR male female, stereo</b> Connectors, one set as required.	1	Nos.
15	<b>Microphone Cable:</b> 2 core PVC insulated Cu conduction sheilded microphone cable cable.	500	Mtr.
16	Sitc of 8 core Microphone snake cable	120	Mtr.
17	<b>Speaker Cable:</b> 2 core 2.5 sq mm PVC insulated Cu conduction loudspeaker cable.	1000	Mtr.
18	SITC of Flat Wiring PVC box tray for data cables.	500	Mtr.
19	SITC of Cat 6 cable - 1 roll	305	Mtr.
20	Installation, testing, commissioning	1	Job

S. No.	Item Description	Qty	Unit
1	<b>Projector : P/F LCD Laser</b> projector with 8000 ANSI Lumens , Resolution 1920 x 1200 WUXGA; Contrast ratio : 4800:1 (dynamic contrast enabled) ; full on/off ; Inputs : 1x HDMI ; 1x DVI-D ; 1x DisplayPort 1x HD15 ; 1x composite video ; complete with all standard accessories. Make : Panasonic/ Epson/ Sony/ Christie	1	Nos.
2	SHORT Throw lens compatible with the projector	1	Nos.
3	<b>Ceiling Mount Kit</b> : Fixed Projector mounting Kit for above Projector Complete with all standard accessories .	1	Nos.
4	<b>Matrix switcher</b> with 4 HDMI Input ; 2 VGA Input ; 2 Stereo Audio Input with 1 Mic Input ; 1 HDMI Output , 1 HD-BaseT Output & 1 Stereo Audio Output ; Video Latency: Less than 2 frames ; RS-232 , Ethernet .	1	Nos.
5	SITC of HDMI Transmitter over Cat 6( HDBT) upto 100 meter with Inputs 1 HDMI, 1VGA with Audio ,1 Cat6 HDBTOutput, 2K and 4K support, HDTV Compatible, HDCP Compliant with RS-232 etc complete as required.	1	Nos.
6	SITC of HDMI Receiver over Cat 6 ( HDBaseT) upto 70 meter with Inputs 1 Cat6 (HDBaseT), 1 HDMI Output, 2K and 4K support, HDTV Compatible, HDCP Compliant with IR and RS-232 etc complete as required.	1	Nos.
8	SITC of HDMI wall plate for connectivity on podium and stage.	2	Nos.
9	Supply and Laying of 1.8Metres HDMI patch cord in existing conduit.	3	Nos.
10	cat 6 cable	305	meter
11	HDMI to HDMI cable- 20meter	2	Nos.
12	IOC cables - 50 m	2	Nos.
13	IPad Pro	1	Nos.

#### GENERAL LIGHTING & ELECTRICAL WORKS

1	LED strip lighting for cove lighting ( 30 meter length each)	600	meter
2	8 way TPN with MCB's for light circuit control	1	nos.
3	Light Point wiring with 1.5mm wire for general lights as per circuit with Switch for each circuit only.	10	points
4	5/ 15 amp point wiring with socket and switch and switch box	10	nos.
5	20 kva ONLINE IGBT based ups with batttery and stand for 15 min back up complete in all respects	1	nos.
6	Electrical works of hall, control room and stage equipments, AV equipment, UPS etc; managing old and new wiring and panels	1	job



## **The Audio, Video, Stage Lighting, Electrical and Stage Furnishing Works**

### **REQUEST FOR PROPOSAL (RFP)/NOTICE INVITING TENDERS**

**Name of the Work: Design, Supply, Installation, Testing and Commissioning of the Audio, Video, Stage Lighting, Electrical and Stage Furnishing Works in the MPH “Thevenet Hall” of Jesus & Mary College, New Delhi.**

#### **1. Introduction.**

1.1 Jesus and Mary College was founded in July 1968 as a constituent college of the University of Delhi. The College offers an integrated and all-round education-intellectual, cultural, social, emotional, physical, aesthetic, moral and spiritual. Today, Jesus and Mary College caters to more than 3000 students – 9 Honours programs and B.A. Restructured program with 17 subject combinations and Post-graduation programs in English and Hindi.

1.2 Jesus and Mary College is in the process of expanding its capacity and wishes to meet the growing needs. As a step in this direction the college wishes to set up The Audio, Video, Stage Lighting, Electrical and Stage Furnishing Works in the MPH.

#### **2. Details of Work**

2.1 Design, Supply, Installation, Testing and Commissioning of the Audio, Video, Stage Lighting, Electrical and Stage Furnishing Works in the MPH of Jesus & Mary College, New Delhi.

#### **3. Time limit for carrying out the Work and for Operation and Maintenance.**

3.1 The time limit for carrying out the work: 1 month from the date of signing the Works Contract.

#### **4. Estimated cost of the Project**

4.1 The estimated cost of the Project is **Rs. 90,00,000 (Rupees Ninety Lakh only).**

#### **5. Terms and Conditions:**

5.1 Detailed terms and conditions for award of the contract are given in **Annexure-I.**

#### **6. Eligibility of firms for participation in the bid**

6.1 The bidder must have successfully completed two similar works, each during the last 3 years ending 31.03.22.

6.2 In support of the eligibility, the tenderer has to furnish documentary proof along with the technical bid.

## **7. Procedure for submitting Tenders:**

7.1 Tenders will be received in TWO BIDS system- Technical Bid and Financial Bid. Tenderers may fill up the Technical Bid in **Annexure-II** and Financial Bid in **Annexure-III**

7.2 The Technical Bid shall be accompanied with certified photocopies of the following documents/ Certificates/ Affidavit and Undertaking in original as well as the Earnest Money Deposit in the prescribed manner:

(i) All the documents mentioned in the form of Technical Bid at Annexure-III.

(ii) Copy of registration with the provident fund commissioner or an affidavit on non-judicial stamp of value of Rs. 10/- stating that the bidder has not employed more than 20 persons in case of non- registration with provident fund office.

(iii) Affidavit regarding Outsourcing in the form at Annexure-IV on non-judicial stamp of the value of Rs. 10/-.

(iv) Affidavit regarding GST in the form at Annexure-V on non- judicial stamp of the value of Rs. 10/-.

(v) Undertaking in the form at Annexure-VI.

(vi) The bid document duly stamped and all schedules in Annexure-I filled in.

7.3 The Technical Bid in Annexure-II (along with all the prescribed documents and the Earnest Money Deposit), duly signed should be put in one cover and sealed (Cover A). This cover should be superscripted as: **“Technical Bid for Installation of the Audio, Video, Stage Lighting, Electrical and Stage Furnishing Works in the MPH for Jesus & Mary College”**. The Financial Bid in Annexure-III (along with all the required documents) should be put in another separate cover and sealed (Cover-B). This cover should be superscripted as: **“Financial Bid for Installation of the Audio, Video, Stage Lighting, Electrical and Stage Furnishing Works in the MPH for Jesus & Mary College”**. Both the above covers are to be put in a separate envelope and shall be superscripted **“Quotation for Installation of the Audio, Video, Stage Lighting, Electrical and Stage Furnishing Works in the MPH for Jesus & Mary College”**. **The tenders received without EMD or deviating from this procedure will be summarily rejected.** The EMD will be returned to the bidders after award of the contract to the successful bidder.

7.4 Interested firms may please send their quotations in the Performa annexed (Annexure II

and III) to this letter, in sealed covers, **to the Principal, Jesus & Mary College, Chanakyapuri, New Delhi-110021**, so as to reach latest by **15.00 hours on 2<sup>nd</sup> January, 2023** positively. Quotations received after this date and time shall not be accepted.

## **8. Procedure for selection of the bidder for award of the work**

8.1 The Technical Bids of the bidders received within the prescribed date and time and with the prescribed EMD shall be opened on **11<sup>th</sup> January, 2023 at 15.30 hours**. Representatives of the bidders/tenderers may be present when the technical bids are opened. The Technical Bids will thereafter be evaluated by a Technical Evaluation Committee (TEC) and the technically qualified firms will be shortlisted for opening of the Financial Bid. The bidders will be informed of the decision of the TEC. The decision of the TEC to accept or reject any technical bid shall be final and no grievance shall be entertained in this regard.

8.2 **The Financial Bids of the shortlisted agencies only will be opened at the appointed time**, in which, the representatives of the shortlisted agencies may participate. **The bidder, out of the shortlisted firms, who quotes the lowest amount for Part-I and Part-II of the Financial Bid taken together, shall be selected for award of the contract.**

8.3 The successful tenderer will have to enter into an Agreement with Jesus & Mary College, in the manner and form given in Annexure-VII.

## **9. Important Dates**

<b>Sl. No.</b>	<b>Particulars</b>	<b>Date and time</b>
<b>1</b>	<b>Start date and time for sale of tender document:</b>	<b>12.12.2022 (Monday) from 10.00 hours</b>
<b>2</b>	<b>End date and time for sale of tender document:</b>	<b>02.01.2023 (Monday) at 15.00 hours</b>
<b>3</b>	<b>Start Date and time for receipt of bids:</b>	<b>13.12.2022 (Tuesday) from 10.00 hours</b>
<b>4</b>	<b>End date and time for receipt of bids:</b>	<b>09.01.2023 (Monday) at 15.00 hours</b>
<b>5</b>	<b>Inspection of MPH:</b>	<b>13.12.2022 – 06.01.2023 (Monday – Friday; 10:00 – 13:00 &amp; 14:00 – 16:00 hr) Excluding Saturday, Sunday and Gazetted Holiday</b>
<b>6</b>	<b>Date and time for pre-bid meeting:</b>	<b>20.12.2022 (Tuesday) at 15:00 hours</b>
<b>7</b>	<b>Date and time for opening of technical bids</b>	<b>11.01.2023 (Wednesday) at 11:00 hours</b>
<b>8</b>	<b>Date and time for opening of financial bids</b>	<b>The shortlisted firms will be informed.</b>

## **10. Rates and charges**

<b>Sl. No.</b>	<b>Details</b>	<b>Amount/Rate</b>	<b>Mode of Payment</b>
<b>1.</b>	<b>Cost of Tender Document</b>	<b>Rs. 2,000/-</b>	<b>Paid in CASH/Demand Draft at the Accounts Office of Jesusand Mary College.</b>
<b>2.</b>	<b>Earnest Money Deposit with the Technical Bid</b>	<b>Rs. 1,80,000/-</b>	<b>Demand Draft in favor of “Principal, Jesus and Mary College”</b>
<b>3.</b>	<b>Performance Guarantee</b>	<b>5% of the tendered value</b>	<b>This guarantee shall be in the form of government securities or fixed deposit receipts or guarantee bonds of any scheduled bank in the specified format.</b>

## **11. Grounds for Forfeiture of Earnest Money Deposit (EMD)**

11.1 The following will be valid and sufficient grounds for forfeiture of the Earnest Money Deposit in favour of Jesus & Mary College and no representation in this regard will be entertained:

- (i) If any bidder withdraws his bid before the expiry of the validity period or before selection of the successful bidder, whichever is earlier, or makes any modification in the terms and conditions of the tender which are not acceptable to Jesus & Mary College.
- (ii) If the successful bidder fails to furnish the prescribed Performance Guarantee within the prescribed period.
- (iii) If the successful bidder fails to commence the work specified in the tender documents within 7 days from the date of signing the Work Contract or such other extended time as may be permitted by the Principal, Jesus & Mary College for bona fide reasons.
- (iv) If it is found at any stage of the processing of the bids/finalization of the contract that the bidder has/had furnished false information/document(s) or withheld some vital information/document(s) or the services as per the contract have not been provided to the utmost satisfaction of Jesus & Mary College.
- (v) If it is found at any stage of the processing of the bids /finalization of the contract that the bidder was blacklisted by any Government department or organization.

**Principal,  
Jesus & Mary College**

## **Annexure-I**

**NAME OF WORK: Design, Supply, Installation, Testing and Commissioning of the Audio, Video, Stage Lighting, Electrical and Stage Furnishing Works having in the MPH of Jesus & Mary College, New Delhi.**

### **1. GENERAL CONDITIONS AND SPECIFICATIONS FOR ELECTRICAL WORK.**

- 1.1 Bad workmanship will not be accepted and all the defects shall be rectified by the contractor at his own cost. In the event that the defects are not rectified by the contractor to the entire satisfaction of Jesus and Mary College, the same shall be carried out by Jesus and Mary College at the risk and cost of the contractor which will be recovered from the full and final payment /performance security deposit.
- 1.2 All the debris of the works should be removed immediately after the accruing of debris and the site should be kept clean by the contractor. Similarly, any rejected material should be immediately removed from the site by the contractor.
- 1.3 The contractor shall make his own arrangement at his own cost for electrical general tools and machinery required for the work.
- 1.4 The entire installation shall be at the risk and responsibility of the contractor until these are tested and handed over in written to the Principal, Jesus & Mary College in good working condition.
- 1.5 All items of interrelated works considered necessary to make the installation complete and operational are deemed to be included by the contractor in the schedule of quantities at no extra cost.
- 1.6 The connection, inter connection, earthing and inter-earthing shall be done by the contractor wherever required and nothing extra shall be paid on this account.
- 1.7 Watch and ward of the materials shall be the responsibility of the Contractor till the complete project is handed over to Principal, Jesus and Mary College in the manner described. Jesus and Mary College will not be responsible for their loss/damage in any manner.
- 1.8 The Contractor shall bear all the expenses for the testing of the electrical material from the designated lab, as per requirement.
- 1.9 The Contractor shall abide by the specifications given in the Tender. Where the specifications are not given, CPWD specifications as amended from time to time shall be followed. Items where CPWD specifications are not covered the decision of Jesus and Mary College shall be final and binding.
- 1.10 PVC insulated copper conductor wire used on the work shall be F.R Grade for which nothing extra shall be paid.

- 1.11 Material to be used in the work shall be as per approved specifications and standards. The material to be used in the work has to be approved from designated In-charge of Jesus and Mary College. Jesus and Mary College shall reserve the right to instruct the contractor to remove the material which, in its opinion, is not as per specifications.
- 1.12 The MCBs and the MCB Distribution Board shall be of the same make.
- 1.13 The earthing shall be carried out in the presence of the representative of Jesus and Mary College.
- 1.14 The defect liabilities period shall be 2 years including Comprehensive Operation and Maintenance after the date of actual completion. Performance Security Guarantee shall be released only after 60 days from the date of completion of all contractual obligations of the supplier including warranty obligations.
- 1.15 TDS: Income Tax shall be deducted at source as per relevant provisions of Income Tax Act.
- 1.16 The contractor shall be responsible for payment to/ deposit with the concerned authorities. Quoted rate should be inclusive of all taxes and duties.
- 1.17 Termination: This contract may be terminated forthwith by either party by giving written notice of 10 days to the other, if:
- a. Other party is in material breach of its obligations under this Agreement and/or, in the case of such breaches capable of being remedied, fails to remedy that breach forthwith and within a reasonable time, after receiving notice of such breach; or
  - b. In case of breach of any of the terms and conditions of the contract by the contractor, except under Force Majeure, no payment shall be made to the contractor by Jesus & Mary College and additionally, the security deposit in the form of Performance Security Deposit shall be forfeited and encashed by Jesus & Mary College. The contractor shall be liable to remove all his material and his workmen/personnel within five days of termination of the contract and hand over peaceful possession of the premises to Jesus & Mary College.
  - c. In case of breach of any of the terms and conditions of the contract by Jesus & Mary College, the contractor shall be liable to receive the cost of the project on pro-rata basis on actuals supported by vouchers/invoices.

## **2. SPECIAL TERMS AND CONDITIONS**

The following clauses shall be read in conjunction with General Conditions of Contract as well as Technical Specifications to the extent applicable. In case of

any discrepancies between the stipulations in these documents, the **General Conditions of Contract shall stand superseded to that extent.**

### **3. TERMS OF PAYMENT**

The payment for Design, Supply, Installation, Testing and Commissioning of the Audio, Video, Stage Lighting, Electrical and Stage Furnishing Works contract shall be made as per the following schedule:

- a. First installment: 20% of contract amount on signing of the Agreement and submission of Performance Guarantee Deposit.
- b. Second installment: 30% of contract amount on installation.
- c. Third and final installment: Balance 50% of contract amount on successful commissioning of the equipment/machinery, after the prescribed testing.

### **4. TERMS & CONDITIONS OF ANNUAL MAINTENANCE CONTRACT**

Payment for the Comprehensive Maintenance (from 3<sup>rd</sup> to 10<sup>th</sup> year i.e. 8 years after the warranty period of 2 years) shall be released on annual basis on certification by the concerned authorized officer of Jesus & Mary College to the effect that the system has been functioning satisfactorily during the preceding one year. The period of Comprehensive Maintenance will start after expiry of 2 years of warranty, during which the contractor will be required to visit the MPH in the 1<sup>st</sup> week of January, April, July and October every year and inspect the complete system. He has to provide a detailed report in writing to the Principal, Jesus and Mary College on every such visit. The Annual Maintenance Contract (AMC) will include: -

- 4.1 Inspect and service of the complete Equipment/Machinery/System.
- 4.2 No visit/labour charges will be paid in addition to the AMC charge.
- 4.3 After the warranty period of 2 years, if any item/equipment/machinery/system is found to be defective/damaged/not in order, then the College will bear the cost of purchasing the new part.

### **5. RATES:**

The rates quoted by the bidders, shall be firm and inclusive of all taxes as applicable (including GST, labor cess, etc.), duties and levies and all charges for packing forwarding, octroi, insurance, freight and delivery, installation, temporary constructional storage, testing, commissioning, comprehensive maintenance for 10 years, etc. including risks, overhead charges general liabilities / obligations and clearance from local authorities.

### **6. COMPLETENESS OF BIDS:**

All sundry equipment, fittings, unit assemblies, accessories, hardware items, for electrical connections and all other items which are useful and necessary for efficient assembly and installation of equipment of the work shall be deemed to have been included in the bids irrespective of the fact whether such items are specifically mentioned in the bid documents

or not.

## **7. STORAGE AND CUSTODY OF MATERIALS:**

Space for storage of sundry materials and erection equipment shall be made available at the site by Jesus & Mary College. Erection of temporary store house, watch and ward of the stores and their safe custody shall be the responsibility of the contractor till the final taking over of the installation by Jesus & Mary College.

## **8. CARE OF BUILDING:**

Care shall be taken by the contractor while handling and installing the various equipment and components of the work to avoid damage to the building. He shall be responsible for repairing all damage and restoring the same to their original finish at his cost. All unwanted and waste materials arising out of the installation of the system shall be removed by the contractor from the site of work.

## **9. COMPLETION PERIOD:**

9.1 The completion period of 3 (three) months indicated in the bid documents is for the entire work of planning, designing, supplying, installation, testing and commissioning of the entire System to the satisfaction of Jesus & Mary College.

9.2 Further, the contractor has to carry out Comprehensive Maintenance of all the System for a period of 10 (ten) years from the date of successful commissioning of the systems.

## **10. PERFORMANCE GUARANTEE:**

10.1 The bidder shall guarantee among other things, the following-

10.2 Quality, strength, Brand and performance of the materials used.

10.3 Safe mechanical and electrical stress on all parts used all specified conditions of operation.

10.4 Satisfactory functionality during the maintenance period.

10.5 The successful bidder shall submit an irrevocable performance guarantee of 5% of the bid amount, in addition to other deposits mentioned elsewhere in the contract, for his proper performance of the contract agreement within 15 days of issue of letter of intent. This guarantee shall be in the form of government securities or fixed deposit receipts or guarantee bonds of any scheduled bank in the specified format. The performance guarantee shall be valid up to the stipulated date of completion of the two-year warranty period of 60 days.

## **11. SUPPLY OF MATERIALS:**

11.1 The supplier should be responsible for packing, forwarding, and dispatching,



insurance and safe delivery of materials and installation and commissioning including proper civil works, storage and handling as required at specific sites at their quoted price.

11.2 Temporary storage of materials during transit or at site shall be the responsibility of the supplier at his risk and cost.

## **12. WARRANTY / GUARANTEE:**

12.1 The mechanical structures, electrical works and all other systems must be warranted against any manufacturing/ design/ installation defects for a minimum period of 2 years from the date of commissioning of the Systems. The equipment or components, or any part thereof, found defective during warranty period shall be forthwith repaired or replaced free of cost, to the satisfaction of Jesus & Mary College. In case it is felt by Jesus & Mary College that undue delay is being caused by the contractor in doing this, the same will be got done by Jesus & Mary College at the risk of and cost of the contractor. The decision of the Principal, Jesus & Mary College in this regard shall be final.

12.2 During the warranty period, defective / nonfunctioning systems and other spare parts of the systems shall be repaired/replaced free of cost by the successful bidder at his own cost for proper, sustained and reliable operation of the systems.

## **13. BEFORE AWARD OF WORK:**

Successful bidder shall get the price break-up approval from competent authority before award of work.

## **14. AFTER AWARD OF WORK:**

14.1 The successful bidder would be required to submit the following drawings within one week of award of work and signing of contract agreement (expenditure on Binding of agreement shall be borne by the contractor), for approval:

- a) All general arrangement drawings.
- b) Details of various assembled equipment as may be needed generally by other agencies for purpose of their work.
- c) Complete layout dimensions for every unit/ group of units with dimensions required for erection purposes.
- d) Any other drawing/ information not specifically mentioned above but deemed to be necessary for the job by the contractor.

14.2 The successful bidder should furnish well in advance three copies of detailed instructions and manuals of manufacturers or all items of equipment regarding installation, adjustments, operation and maintenance including preventive maintenance & trouble shooting together with all the relevant data sheets, spare parts catalogue and workshop procedure for repairs, assembly and adjustment etc. all in triplicate.

## **15. EXTENT OF WORK:**

15.1 The work shall comprise of entire labor including supervision and all materials necessary to make a complete installation and such tests and adjustments and commissioning as may be required by the department. The term complete installation shall not only mean major items of the machinery and equipment covered by specifications but all incidental sundry components necessary for complete execution and satisfactory performance of installation with all layout charts whether or not those have been mentioned in details in the tender documents in connection with this contract.

15.2 Minor building works necessary for installation of equipment, foundation, making of opening in walls or in floors and restoring to their original condition, finish and necessary grouting etc. as required.

15.3 The scope of work Design, Supply, Installation, Testing and Commissioning of the Audio, Video, Stage Lighting, Electrical and Stage Furnishing Works in the MPH, therefore, and any item required for completion of the project left inadvertently shall be executed with in the quoted rates.

## **16. VALIDITY:**

Bid shall be valid for acceptance for a period of 30 days from the date of opening of financial bid.

## **17. COMPLIANCE WITH REGULATIONS AND INDIAN STANDARDS:**

17.1 All works shall be carried out in accordance with relevant regulation, both statutory and those specified by the Indian Standards related to the works covered by these specifications. In particular, the equipment and installation will comply with the following: -

(i) Factories Act, 1948.

(ii) Indian Electricity Rules, 1956.

(iii) I.S. & BS Standards as applicable

(iv) Workmen's compensation Act, 1923

(v) Statutory norms prescribed by local bodies like CEA, NDMC, Delhi Government etc.

17.2 Nothing in this specification shall be construed to relieve the successful bidders of his responsibility for the design, manufacture and installation of the equipment with all accessories in accordance with currently applicable statutory regulations and safety codes.

17.3 Successful bidder shall arrange for compliance with statutory provisions of safety

regulations and departmental requirements of safety codes in respect of labor employed on the work by the bidder. Failure to provide such safety requirement would make the bidder liable for compensation for each default. Temporary barricades are to be provided with caution boards at each landing to prevent accident during execution of work.

**18. INDEMNITY:**

The successful bidder shall at all times indemnify Jesus & Mary College, consequent on this works contract. The successful bidder shall be liable, in accordance with the Indian Law and Regulation for any accident occurring due to any cause and Jesus & Mary College shall not be responsible for any accident or damage incurred or claims arising there from during the period of erection, construction and putting into operation the equipment and ancillary equipment under the supervision of the successful bidder in so far as the latter is responsible. The successful bidder shall also provide all insurance including third party insurance as may be necessary to cover the risk. No extra payment would be made to the successful bidder due to the above.

**19. ERECTION TOOLS:**

No tools and tackles either for unloading or for shifting the equipment for erection purposes would be made available by Jesus & Mary College. The successful bidder shall make his own arrangement for all these facilities.

**20. COOPERATION WITH OTHER AGENCIES:**

The successful bidder shall co-ordinate and cooperate with other contractors and agencies, if any, engaged by Jesus & Mary College to the extent required for execution of the contract, and exchange freely all technical information so as to make the execution of this works contract smooth. No remuneration should be claimed from the department for such technical cooperation. If any unreasonable hindrance is caused to other agencies and any completed portion of the work has to be dismantled and re-done for want of cooperation and coordination by the successful bidder during the course of work, such expenditure incurred will be recovered from the successful bidder if the restoration work to the original condition or specification of the dismantled portion of the work was not undertaken by the successful bidder himself.

**21. MOBILIZATION:**

No mobilization advance shall be paid for this work.

**22. INSURANCE AND STORAGE:**

All consignments are to be duly insured up to the destination from warehouse to college at the cost of the supplier. The insurance covers shall be valid till the equipment is handed over, duly installed, tested, commissioned and completion of operation and maintenance period of 10 years.

**23. VERIFICATION OF CORRECTNESS OF EQUIPMENT AT DESTINATION:**

The contractor shall have to produce all the relevant records to certify that the genuine equipment from the manufacturer has been supplied and erected.

**24. INTERPRETING SPECIFICATIONS:**

In interpreting the specifications, the following order of decreasing importance shall be followed in case of contradictions:

- 24.1 Schedule of quantities
- 24.2 Technical Specifications
- 24.3 Drawing (if any)
- 24.4 General Specifications

**25. INSPECTION AND TESTING OF MATERIALS:**

25.1 The inspection of the goods shall be carried out to check whether the goods are in conformity with the technical specifications attached to the NIT (Notice Inviting Tender) and shall be in line with the inspection/test procedures laid down in the schedule of specifications and the contract conditions.

25.2 Manufacturer must have suitable facilities at their works for carrying out various performance tests on the equipment. In case of system integrators, they should tie up with principle suppliers in case of inspection at their works.

25.3 The Purchaser's, his duly authorized representative and/or outside inspection agency acting on behalf of the purchaser shall have the power at all reasonable times for access to the contractor's premises or works and shall have the power at all reasonable times to inspect and examine the materials and workmanship of the works during its manufacture or erection. If part of the works is being manufactured at the subcontractor's works or assembled in their premises or work, the contractor shall obtain for the purchaser and for his duly authorized representative, permission to inspect as if the works were manufactured or assembled in the contractor's own premises or works.

25.4 In case of the supplier supplying critical equipment which is being manufactured by a foreign sub-contractor or vendor, mandatory inspection at works of foreign subcontractor or vendor shall be carried out by the purchaser's engineers. The complete charges for such inspection & tests at the works of the sub-contractors including airfare, boarding & lodging for purchasers' engineers shall be borne by the supplier.

25.5 In case of indigenous equipment/goods, inspection shall be carried out at the works of the supplier by the purchaser's engineer and the costs for such inspection have to be borne by the supplier.

25.6 If the goods/services or any section fails to pass the tests, the supplier may require such tests to be repeated on the same terms and conditions. All costs to which the purchaser may be put to by the re-petition of the tests under this sub-clause shall be deducted from the contract price.

25.7 Nothing in the clause and all sub-clauses shall in any way relieve the supplier from any warranty or other obligations under this contract.

## **26. PRE – COMMISSIONING TEST**

26.1 On completion of erection of the equipment and before start up, each item of the equipment shall be thoroughly cleaned and then inspected jointly by the purchaser or his authorized representative and the contractor for correctness and completeness of installation and acceptability for start– up, leading to initial pre commissioning test at site.

26.2 On completion of inspection, checking, checking and after the pre commissioning tests are satisfactorily over, the complete equipment shall be ready for trial run.

## **27. TRIAL RUN:**

27.1 The machinery & system shall be on trial operation during which period all necessary adjustments shall be made while operating over the full load range enabling the system to be made ready for performance and guarantee tests.

27.2 The trial run shall have to be performed for a period of 2 continuous days with the necessary load and set up required for trial operation being arranged by the supplier.

27.3 A trial operation report comprising of observations and recording of various parameters to be measured in respect of the above trial operation shall be prepared by the contractor. This report, besides recording the details of various observations during trial run, shall also include the dates of start and finish of the trial operations and shall be signed by the representatives of both the parties. The report shall have sheet, recording all the details of interruptions occurred, adjustments made and any minor repairs done during this trial operation.

## **28. PERFORMANCE GUARANTEE TEST**

28.1 The final test as to the performance shall be conducted at site, by the purchaser. Such tests will be commenced within a period of 02 days after successful completion of trial run. Any extension of time beyond 02 days shall be mutually agreed upon.

28.2 These tests shall be binding on both the parties of the contract to determine compliance of the equipment with the performance guarantees.

28.3 Any special equipment, load, tool & tackles required for the successful completion of the performance guarantee test shall be provided by the contractor.

28.4 Guaranteed performance figures of the equipment shall be proved by the contractor during the performance guarantee tests.

## **29. FORCE MAJEURE**

To the extent that the performance by the contractor of any of the Services is delayed or prevented by causes beyond its reasonable control, including but not limited to, acts of God, acts of local, state or federal government or any instrumentality thereof, strikes, civil

commotion or the like, the contractor shall not be in default of his obligations hereunder.

### **30. SETTLEMENT OF DISPUTES**

All disputes relating to this work shall be resolved within India, first through mutual discussions, followed by arbitration, through an arbitrator to be appointed by the Principal, Jesus & Mary College. The jurisdiction of Indian courts and Indian law will be applicable.

**Principal  
Jesus & Mary College**

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