SRI GURU GOBIND SINGH COLLEGE OF COMMERCE, PITAMPURA

Corrigendum

Date: May 21, 2024

Subject: Revisions to E-Tender for Auditorium Refurbishment

This corrigendum amends the previously issued E-Tender for the refurbishment of the auditorium at Sri Guru Gobind Singh College of Commerce, Pitampura, New Delhi.

Please note the following changes:

Sl. No.	ITEM AS MODIFIED
	NOTE: Selected bidder must conduct a live demonstration of their proposed A/V equipment at the college auditorium. The demonstration will be used for selection and approval by college authorities. Bidder covers all costs associated with demonstration logistics and setup. Unsatisfactory performance may require demonstration of alternative, approved brands. Only college-approved A/V equipment, based on successful demonstration, will be installed. The Bidder shall ensure COMPATIBILITY of the PROPOSED AV systems with the existing AV systems installed in the Auditorium

Sl. No.	ITEM AS MODIFIED
1.01	SITC OF DLP Laser Projector **WUXGA** Resolution: 1920x1200 or better Brightness: Minimum 10,000 lumens ANSI Aspect Ratio: 16:10 Contrast Ratio: 6,000:1 or better. Light Source: Laser, 20,000 hours lifespan Video Inputs: a) DisplayPort 1.2 (2D) x 1 (must accept frame rates up to 60 Hz) b) HDMI 1.4b (3D) x 2 (must support Side-by-Side, Frame Packing, and Top-Bottom 3D formats) c) HDMI 2.0 (2D) x 2 d) 3G-SDI In (2D) x 1 e) 3G-SDI Out x 1 f) HDBaseT (2D) x 1 (see LAN) Other Features: i. 24/7 operation for continuous high brightness and image quality ii. Communication ports: a) 3D Sync Out x 1 b) 3D Sync In x 1 c) LAN x 2 d) RS232 x 1 e) Wired Remote x 1 f) 12V Trigger x 2 g) 3D Sync IR Out x 1 Approved Brands: **Digital Projection**/ Christie/ Barco
1.02	SITC of Long Throw Zoom Lens for the above DLP laser projector: • Throw ratio: To achieve a projected image size from 80-85 feet. Approved Makes: **Digital Projection**/ Christie/ Barco
1.03	No Change
1.04	No Change
1.05	No Change

Sl. No.	ITEM AS MODIFIED
1.06	SITC of Flyable Main FOH Speakers: Type: 2-way full range, flyable loudspeaker Frequency Response: • Serviceable: 26 Hz - 150 Hz (-10 dB) • Nominal: 31 Hz - 150 Hz (-3 dB) Power Handling: • Continuous: 1600 W • Peak: 6400 W Coverage Pattern: • Omni-directional with selectable cardioid presets Maximum SPL: 138 dB Sensitivity: 92 dB or higher Impedance: Nominal 8 ohms Crossover Frequency: 100 Hz LF Driver: • Type: Ultra-low distortion • Diameter: 15 inches • Voice Coil: Minimum 4 inches in/out diameter Cabinet: • Material: Marine birch plywood • Grill: Powder coated, acoustically transparent foam Mounting: • Flyable with integrated rigging points or compatible flying hardware (specify) • Mounting brackets or necessary hardware for desired mounting method included Approved Brands: JBL / CELTO Acoustique / Turbosound / Martin Audio / Yamaha/ **Bose**

Sl. No.	ITEM AS MODIFIED
1.07	SITC of High-Quality Subwoofer: Specifications: Type: Dual 18-inch passive subwoofer Frequency Response: • Serviceable: 37 Hz - 200 Hz (-10 dB) or better • Nominal: 32 Hz - 190 Hz or better Power Handling: • Continuous: **2400W to 2600W** • Peak: **9600W to 10400W** Maximum SPL: **140dB to 143dB** Sensitivity: **99dB to 103 db or higher** Impedance: Nominal 4 ohms Drivers: • Type: Ultra-low excursion ADR (or equivalent) • Voice Coil: 4-inch diameter minimum, ferrite magnet or better Cabinet: • Material: Marine birch plywood (or equivalent) • Grill: Perforated stainless steel backed with acoustically transparent foam over stainless steel mesh • Integrated handles Approved Brands: JBL / CELTO Acoustique / Turbosound / Martin Audio / Yamaha/ **Bose**
1.08	Supply, Installation, Testing & Commissioning of Dual Channel Power Amplifier: Specifications: • Type: Dual channel power amplifier, Class H/D • Power Output: 2 x 2500 W @ 4 ohms (continuous output) • Total Harmonic Distortion (THD): < 0.02% at 1 kHz, full power • Damping Factor: > 400 • Input Sensitivity Selection: Built-in, with options for various input levels • High Pass Filter: Adjustable cutoff frequency • Operating Modes: Stereo, Bridge, Parallel selectable • Signal to Noise Ratio (SNR): ≥ -105 dB (1 kHz, 8 ohms) Approved Brands: Crown / CELTO Acoustique / Martin Audio / Powersoft / **Bose**

Sl. No.	ITEM AS MODIFIED
1.09	Supply, Installation, Testing & Commissioning of 2x6 DSP (Digital Sound Processor) Loudspeaker Management System: Specifications: • Type: Dual-channel digital sound processor (DSP) with loudspeaker management system (LMS) functionality • Number of Inputs: 2 • Number of Outputs: 6 • Adjustable Delay: o Per input and output, with individual displays o Delay range: Up to 1 second (or specify desired range) • Impedance: 120 ohms balanced • Sample Rate: 48 kHz • Total Harmonic Distortion (THD): 0.002% or better at 1 kHz • Additional Features: (automatic feedback suppression, equalization, routing capabilities) Approved Makes: CELTO Acoustique / d&b audiotechnik (D&B) / Martin Audio/ **BSS Audio**
1.10	Supply, Installation, and Commissioning of 32-Channel Mixing Console: Specifications: • Number of Channels: 32 • Features: o Effects processor o Mid-sweep 3-band mono channel EQ o 4-band stereo channel EQ o 14 buses for flexible signal routing: (Main stereo bus / Four group buses / Six auxiliary buses / Send buses for the two internal effect processors) • Additional features: (high-quality microphone preamps, digital recording capabilities, talkback system) Approved Makes: Yamaha MG 32FX / Allen & Heath Zed 32fx / Soundcraft GB4-32 CH

Sl. No.	ITEM AS MODIFIED
1.11	Supply of Dynamic Vocal Microphone for Speech Applications: Specifications: • Type: Dynamic vocal microphone • Suitable for: Speech applications • Features: o Cardioid polar pattern for focused sound pickup o High feedback rejection o Smooth frequency response tailored for speech. o Durable construction • Approved Makes: AKG D Series / Audio-Technica MB Series / Shure SM Series/ **VAL AUDIO PRO4500 Series**
1.12	Supply of Dynamic Instrument Microphone: • Features: o High sound pressure level (SPL) handling capability o Durability and rugged construction • Approved Makes: o AKG D Series (e.g., D112, D40, D4112) o Audio-Technica MB Series (e.g. MB2k, MB6k) o Shure SM Series (e.g., SM57, SM7B, SM58-LCE) **VAL AUDIO PRO4500 Series**
1.13	Supply of Headworn Wireless Microphone System: Specifications: • Type: Headworn condenser microphone system • Features: o Cordless operation o Headworn microphone with all necessary accessories (e.g., windscreens, pop filters) o Receiver and transmitter o UHF frequency band o Minimum RF output level: 10 mV Approved Makes: • AKG WMS 400 Series (e.g., WMS 400 SKM 100) • Audio-Technica ATW-xx Series (e.g., ATW-1100) • Shure BLX Series (e.g., BLX-14/PGA31) **VAL AUDIO PRO4500 Series**

Sl. No.	ITEM AS MODIFIED
1.14	Supply, Installation, Testing, and Commissioning (SITC) of 54 x 3W RGBW LED Par Lights Specifications: • LED Source: High-quality LEDs from **Citizen, Philips, Osram, Cree**, Seoul, Nichia, or other reputable manufacturers (LM80 data will be provided). • Lamp Source: 54 pieces of 3W RGBW LEDs. • Beam Angle: 25°. • Dimming Control: DMX 512 with 8 channels. • Color Mixing: Unlimited color options through DMX control (0% to 100% linear dimming). • Presets: Built-in presets for various colors. • Strobe Mode: 20 times per second. • Data Connection: DMX through 5-pin XLR connectors. • Sound Sensing: Sensitivity range from 65dB to 130dB. • Power Connections: In and out. • Color Precision: High precision color rendering. • Housing: Powder-coated black finish with IP20 protection. • Body Construction: Rigid pressure die-cast aluminum. • Control Options: RDM (Remote Device Management) with specified RDM ID. • Certifications: o LM79 certificates from NABL-accredited laboratory. o BIS compliant to IS 10322 (Part 5/Sec1):2012. o CE certification compliant to EN60598-1:2015 and EN61437-2-13:2014. • Brand Impact: Genuine product with brand embossing on the light body. • Approved Makes: Leksa Lighting, **Canara Lighting, Modern Stage Services, Modern Stage Service (Projects)**

Sl. No.	ITEM AS MODIFIED
1.15	Supply, Installation, Testing, and Commissioning (SITC) of 54x3W LED PAR WW Lights. Specifications: • LED Source: High-quality LEDs from **Citizen, Philips, Osram, Cree,** Seoul, Nichia, or other reputable manufacturers (LM80 data will be provided). • Lamp Source: 54 pieces of 3200K 3W LEDs. • Beam Angle: 15°. • Color Rendering: CRI (Color Rendering Index): Above 95./ TLCI (Television Lighting Consistency Index): Above 95. • Flicker-Free Operation: Suitable for high FPS (frames per second) applications. • Smooth Fade-In and Fade-Out: Ensures seamless transitions. • Color Precision: High precision steady color output. • Heat Management: No heat emission. • Dimming Control: DMX 512 with 2 channels (0% to 100%). • Housing: Powder-coated black finish with IP20 protection. • Body Construction: Rigid pressure die-cast aluminum. • Display: LED easy-view display. • Data Connection: DMX through 3/5-pin XLR connectors. • Sound Sensing: Sensitivity range from 65dB to 130dB. • Power Connections: In and out. • Total Power Consumption: 180W. • Sound Active Mode Control: Responds to sound cues. • RDM (Remote Device Management) Options: Latest technology with specified RDM ID. • Certifications: (LM79 certificates from NABL-accredited laboratory / BIS compliant to IS 10322 (Part 5/Sec1):2012. / CE certification compliant to EN60598-1:2015 and EN61437-2-13:2014.) • Brand Impact: Genuine product with brand embossing on the light body. • Approved Makes: Leksa Lighting, **Canara Lighting, Modern Stage Services, Modern Stage Service (Projects)**

Sl. No.	ITEM AS MODIFIED
1.16	Supply, Installation, Testing, and Commissioning (SITC) of 200W LED Profile Spotlights (19 Degree Beam Angle) Specifications: • LED Source: High-quality COB LEDs with a color temperature of 3200K from Citizen, Philips, Osram, Cree, or other reputable manufacturers (LM80 data will be provided). • Color Rendering: CRI (Color Rendering Index): Above 95. / TLCI (Television Lighting Consistency Index): Above 95. • Strobe Option: Adjustable from 1 to 25 times per second. • Dimming Curves: Four kinds of dimming curves. • Housing: Black finish. • Optics: Manual Focus: Equipped with four beam shaping cutters. Efficient Lamp Reflector: Well-designed for optimal light distribution. • Heat Dissipation: Efficient Copper Tube-Based Heat Sink: Ensures effective heat dissipation. • Body Design: Sleek and Unique: Lightweight body. Fixture Yoke: Manual adjustment. • Dimming Control: DMX 512 with 1 or 3 channel modes (0% to 100%). • Illumination: Suitable for illuminating the key presenter or talent on stage. Lux at 3 meters above 9080. • Protection: IP20. • RDM (Remote Device Management) Options: Latest technology with specified RDM ID. • Certifications: LM79 certificates from NABL-accredited laboratory. , BIS compliant to IS 10322 (Part 5/Sec1):2012., CE certification compliant to EN60598-1:2015 and EN61437-2-13:2014. • Brand Impact: Genuine product with brand embossing on the light body. • Approved Makes: Leksa Lighting,**Canara Lighting, Modern Stage Services, Modern Stage Service (Projects)**

Sl. No.	ITEM AS MODIFIED
1.17	Supply and Installation of 200W LED Fresnel Lights Specifications: • LED Source: High-quality COB LEDs with a color temperature of 3200K from Citizen, Philips, Osram, Cree, or other reputable manufacturers (LM80 data will be provided). • Fresnel Lens: Uniquely designed for optimal light distribution. • Color Rendering: CRI (Color Rendering Index): Above 96. / TLCI (Television Lighting Consistency Index): Above 96 / R9 Value: Above 96. • Single Source Illumination: Eliminates multiple shadows. • Total Power Consumption: 210W. • Dimming Control: Linear dimming from 0% to 100%. • Flicker-Free Operation: Suitable for high FPS applications. • Power Supply: AC90-260V, 50/60Hz. • Working Temperature: 0°C to +50°C. • Cooling System: Active Cooling: Equipped with a low-noise fan. • Control Options: DMX Control: Through 5-pin/3-pin XLR connectors. RDM (Remote Device Management): Latest technology with specified RDM ID. • Fixture Design: Yoke: Manual adjustment. Manual and DMX Control Options. • Housing: Black powder-coated fabricated housing. Normal yoke. • Certifications: LM79 certificates from NABL-accredited laboratory. BIS compliant to IS 10322 (Part 5/Sec1):2012. CE certification compliant to EN60598-1:2015 and EN61437-2-13:2014. • Brand Impact: Genuine product with brand embossing on the light body. • Approved Makes: Leksa Lighting, **Canara Lighting, Modern Stage Services, Modern Stage Service (Projects)**

Sl. No.	ITEM AS MODIFIED
1.18	Supply, Installation, Testing, and Commissioning (SITC) of 230W LED Moving Head Spotlights. Specifications: • Light Type: Moving Head Spot - 230W. • Beam Effect: High-brightness long-throw beam. Linear zoom range. Motorized beam adjustment from 0° to 2.54°. • Lamp Source: Yodn 230W 7R Arc Lamp. • Total Power Consumption: 450W. • DMX Control Channels: 16 and 22 channels. • Color Wheel: One color wheel with 13 dichroic filters plus an open position. Motorized frost and focus functions. • Gobo Features: One static gobo wheel with 13 fixed gobos. Two prism controls: (Eight-facet prism & Six-facet prism. One replaceable rotating gobo wheel. • Dimmer Control: 16-bit precision. • Movement Control: Pan Angle: 540°. Tilt Angle: 270°. • Electrical Specifications: o Voltage: AC 100-240V, 50/60Hz. • Approved Makes: Leksa Lighting, **Canara Lighting, Modern Stage Services, Modern Stage Service (Projects)**

Sl. No.	ITEM AS MODIFIED
1.19	Supply, Installation, Testing, and Commissioning (SITC) of 400W LED Blinder Lights (4-Eyes White & Warm White) Specifications: • Light Type: High-power warm white LED COB blinder. • Lamp Source: 4x100W Chip On Board (COB) LEDs with a color temperature of 3200K from Citizen, Philips, Osram, Cree, or other reputable manufacturers (LM80 data will be provided). • Dimming Control: DMX 512 with 4/8 channel modes. Smooth dimming from 0% to 100%. • Color Rendering: CRI (Color Rendering Index): Above 90. TLCI (Television Lighting Consistency Index): Above 90. • Strobe Option: Adjustable from 1 to 25 times per second. • Beam Angle: Variable at 30 degrees. • Total Power Consumption: 420W. • Refresh Rate: 11.7kHz. • Built-in Presets: Effects presets. • Safety Features: Fuse protection. Internal safety protections. • Cooling System: Active cooling with low-noise fan. DMX Connection: 5-pin XLR. • Reflector: High-quality, well-designed inbuilt reflector. • Flicker-Free Operation: Suitable for TV and film cameras. • Housing: Black finish housing. IP20 protection. • Illumination: Uniform light intensity levels for stage illumination. • Control Options: RDM (Remote Device Management) with specified RDM ID. • Certifications: LM79 certificates from NABL-accredited laboratory. BIS compliant to IS 10322 (Part 5/Sec1):2012. CE certification compliant to EN60598-1:2015 and EN61437-2-13:2014. • Approved Makes: Leksa Lighting, **Canara Lighting, Modern Stage Services, Modern Stage Service (Projects)**

Sl. No.	ITEM AS MODIFIED
1.20	Supply, Installation, Testing, and Commissioning (SITC) of DMX Splitter Specifications: • Type: Opto-isolated RDM-enabled DMX splitter unit. • Outputs: 8 isolated outputs. Each output equipped with a slow-blow safety fuse. • Output Interface: 5-pin XLR connectors. • Dual Mode: Allows selection of 2 universe operation. • DMX Input: Accepts DMX input through a 5-pin XLR connector. • Control Protocol: Supports both RDM (Remote Device Management) and DMX 512. • Housing: Powder-coated compartment finish. • Mounting: Includes mounting brackets for grid mount. • Approved Makes: Leksa Lighting, **Canara Lighting, Modern Stage Services, Modern Stage Service (Projects)**
1.21	No Change

Sl. No.	ITEM AS MODIFIED
1.22	Supply, Installation, Testing, and Commissioning (SITC) of DMX Touch Screen-Based LED Lighting Controller. Specifications: • Controller Type: DMX lighting controller specifically designed for controlling LED fixtures. • Touch Screen: 7" multi-touch screen option. • DMX Outlets: 2 outlets with 5-pin XLR connectors. Each outlet supports 512 channels. • Optically Isolated Outputs: Ensures reliable signal transmission. • Control Features: o 4 smooth encoders for attribute control. o Backlit keys for visibility in low-light conditions. o 12 fader stacks. o 600+ playbacks. o 350+ group saving options. o 350+ presets. o User-defined shape effects. o Macro saving capabilities. o External MIDI timecode compatibility. o Internal clock for scheduling. o Shortcut user interfaces for efficient operation. o Master fader with blackout key. o Numerical keypad embedded within the controller for light command entry. • Connectivity: USB interface. • Scene Management: Scene saving options. Show saves and load features. • Custom Interface Library: o Custom-built user interface library for fixture files. • Approved Makes: Leksa Lighting, **Canara Lighting, Modern Stage Services, Modern Stage Service (Projects)**

Sl. No.	ITEM AS MODIFIED
1.23	Supply, Installation, Testing, and Commissioning (SITC) of Dual Safety Chains for Light Fixtures Specifications: • Construction: o Dual safety chain made up of galvanized iron (GI) wire rope. o Bundled and twisted together for added strength. • Load Bearing Capacity: o Above 200 Kgs. • Additional Features: o Protective sleeve on the rope. o Carabiner clip for secure attachment. • Approved Makes: Leksa Lighting, **Canara Lighting, Modern Stage Services, Modern Stage Service (Projects)**
1.24	No Change
1.25	Supply, Installation, Testing, and Commissioning (SITC) of Light Clamps Specifications: • Purpose: Customized for suspending light fixtures on fixed bars on stage. • Material: o Made up of aluminium die-casted MS threaded T-bolt. o Yellow passivation finish for corrosion resistance. o Complete with black powder coating in a matte black finish. • Safe Working Load: 150 KG. • Compatibility: Suitable for battens of size 30 OD to 60 OD. • Approved Makes: Leksa Lighting, **Canara Lighting, Modern Stage Services, Modern Stage Service (Projects)**
1.26	No Change
1.27	No Change
1.28	No Change
1.29	No Change
1.3	No Change
1.31	No Change

Sl. No.	ITEM AS MODIFIED
1.32	No Change
1.33	No Change
1.34	No Change
1.35	No Change
1.36	No Change
1.37	APPROVED MAKES: (ECOTONE, **NAVAIR** OR APPROVED EQUIVALENT)

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