

## Case Study — Auditorium AV & Acoustics Upgrade at BCM Arya Model Sen. Sec. School, Ludhiana



### Client

BCM Arya Model Sen. Sec. School, Ludhiana — a premier institution known for academic excellence, holistic development, and large-scale cultural and extracurricular events.

### Objective

Transform the school auditorium into a state-of-the-art performance and presentation venue capable of hosting high-impact events, cultural programs, seminars, and academic functions with professional-grade audio, video, acoustics, and stage lighting.

### Scope of Work

Complete end-to-end modernization of the auditorium's sound, video, acoustics, podium, and lighting infrastructure.

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## **Solution Delivered**

Accurate Info Solutions deployed a fully integrated, professional-grade auditorium solution featuring:

### **1. Electro-Voice Professional Sound System**

- High-quality speakers delivering rich, uniform sound across the auditorium
- Clear speech reinforcement and powerful musical performance output
- Optimized placement for balanced coverage in all seating zones

### **2. Sennheiser Microphone Systems**

- Premium wireless and wired microphones ensuring superior vocal clarity
- Ideal for speeches, choir performances, drama, and anchor presentations

### **3. Yamaha Mixing Console**

- Central control for all audio inputs and outputs
- Smooth mixing capability for live events, shows, and school functions
- DSP features for fine audio tuning

### **4. UNI Smart Digital Podium**

- Touch-enabled control panel for presentations
- Integrated PC, audio controls, and connectivity
- Enables teachers and presenters to manage full AV flow seamlessly

### **5. Aero Active LED Video Wall**

- Bright, bezel-less 4K-quality visual backdrop
- Suitable for event graphics, presentations, videos, and annual functions
- High refresh rate for smooth playback and vibrant visuals

### **6. Antone Acoustics — Wall & Ceiling Treatment**

- Professional acoustic panels installed to reduce echo and improve audio clarity
- Balanced reverberation ideal for music, drama, and speeches
- Enhanced sound experience for the audience and performers

### **7. Canara Professional Stage Lighting**

- High-quality stage lights for performances, cultural events, and assemblies
- Flexible lighting control for mood setting and show effects
- Energy-efficient design with long operational life



## **Implementation Highlights**

- Acoustical study performed to plan speaker placement and treatment layout
  - Integration of sound, lighting, and video systems into a unified control workflow
  - LED wall calibration for uniform colour, brightness, and viewing comfort
  - Clean, concealed cabling to maintain a premium aesthetic
  - Stage and auditorium tuning for optimal audio-visual performance
  - Training provided to school technical staff for smooth system operation
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## **Outcome**

- Dramatically improved sound clarity and coverage for all events
- High-impact visuals enhancing school functions, performances, and presentations
- Professional stage lighting transforming cultural programmes and shows
- Better speech intelligibility due to acoustic treatment
- A modern, multi-purpose auditorium aligned with global school standards
- Increased flexibility for hosting competitions, parent events, seminars, and celebrations

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## **Why BCM Arya Model Sen. Sec. School Chose Accurate Info Solutions**

- Strong expertise in large-scale auditorium AV projects
- Ability to deliver a complete sound–video–acoustics–lighting ecosystem
- Proven track record with leading educational institutions
- Reliable execution, premium equipment selection, and dependable after-sales support