



CASE STUDY

Upgrading Conference Room Facilities at 15 IDSR, Amritsar with 24 +1 Array Delegate & Chairman Units with Audio processor



Overview

Stapes & Bauble Private Limited was contracted to modernize the conference room at 15 IDSR, Amritsar. The project aimed to install an advanced audio and video conferencing system that would support seamless communication and enhance collaboration, accommodating both local meetings and high-quality video conferencing.

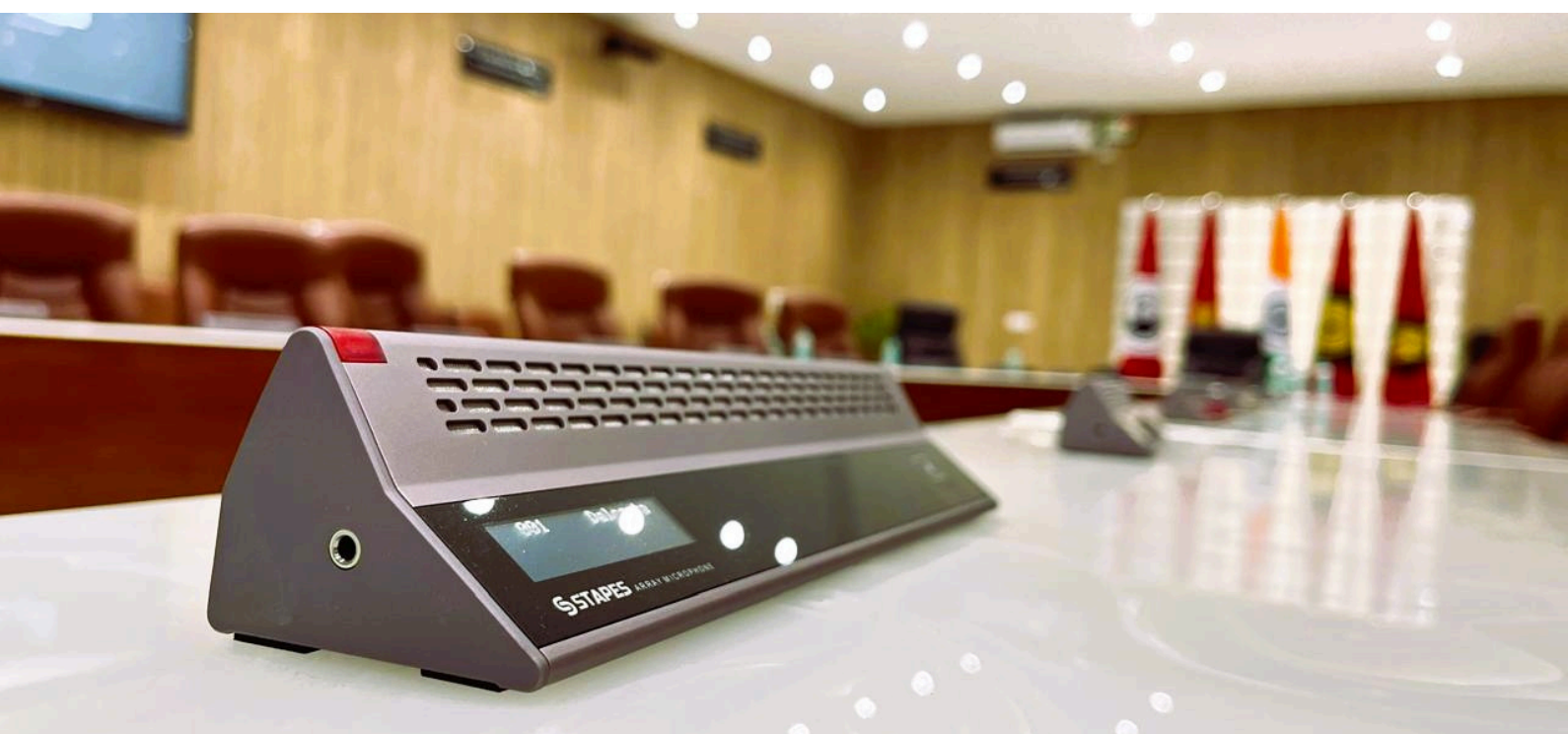
Client Requirements

Enhanced Audio Clarity: The room needed a robust audio solution to ensure clear communication for all participants. This included integrating multiple delegate and chairman microphone units and a sound system that could cover the entire space without echo or distortion.

Efficient Video Conferencing: The room required a reliable video setup to facilitate meetings with remote participants, integrating features like automated camera tracking for a dynamic and engaging video experience.

Ease of Use: The system had to be user-friendly, allowing staff to operate the technology with minimal technical knowledge and reduced setup time.

High Reliability and Integration: The new setup needed to integrate smoothly with existing infrastructure and maintain high performance even during critical meetings.



Challenges

Acoustic Limitations: The room's layout posed challenges with echo and uneven sound distribution, making it difficult to ensure clear audio for all attendees.

Space Management: The installation had to be efficient, utilizing the available space smartly while keeping the room organized and free of clutter.

Technical Integration: Connecting the new AV equipment to the existing IT framework required careful planning to avoid disruptions and maintain the security and efficiency of communications.

Solutions Implemented

Audio System Design:

Microphones: 24 delegate microphone units and one chairman unit were installed, providing crystal-clear audio input and easy control for the meeting chairperson.

Column Wall Speakers: Eight strategically placed column speakers ensured even sound distribution across the room, overcoming previous acoustic issues. This setup eliminated echo and provided a pleasant auditory experience.

8X8 Stapes DSP: A Digital Signal Processor (DSP) was implemented to manage all audio inputs and outputs, providing echo cancellation, audio leveling, and seamless integration with other AV components.

Advanced Video Conferencing Setup:

PTZ Camera: A high-resolution Pan-Tilt-Zoom camera was installed for automated tracking of speakers, enhancing the quality and engagement of video calls. The camera's versatility allowed for optimal framing and coverage of all meeting participants.

Video Wall: A large video wall was set up to display remote participants, presentations, or shared content vividly. This feature was critical for maintaining visual engagement during long or complex meetings.

Seamless Integration and Control:

The Stapes DSP was also configured to manage camera tracking and audio mixing automatically, making the system intuitive and minimizing the need for technical intervention. Training sessions were provided to ensure staff could operate the system confidently.



Results and Benefits

Improved Communication: The new system provided clear and reliable audio, transforming the quality of both local and remote interactions. Meetings are now more productive, with no interruptions or misunderstandings due to poor sound quality.

Enhanced User Experience: The intuitive setup and automated features made it easy for staff to start and manage meetings. The streamlined integration means that the room can be quickly prepared for any type of meeting, saving time and reducing technical difficulties.

High Engagement for Remote Participants: The PTZ camera and video wall significantly improved the experience for remote attendees, ensuring that all participants felt equally engaged and included.

This installation by Audio Systems, Dehradun & Stapes & Bauble Private Limited successfully addressed the challenges faced by 15 IDSR, delivering a comprehensive and efficient conferencing solution that has set a new standard for collaboration at the facility.

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