

IMPLEMENTATION OF STAPES  
CONFERENCE SYSTEM  
MICROPHONES WITH CAMERA  
CONTROL ENHANCED THE  
AUDIOVISUAL EXPERIENCE AND  
OPERATIONAL EFFICIENCY AT  
HIMALAYAN HOSPITAL, DEHRADUN

# CASE STUDY





# Case Study: Implementation of Intelligent Array Microphones at Himalayan Hospital, Dehradun

## Introduction:

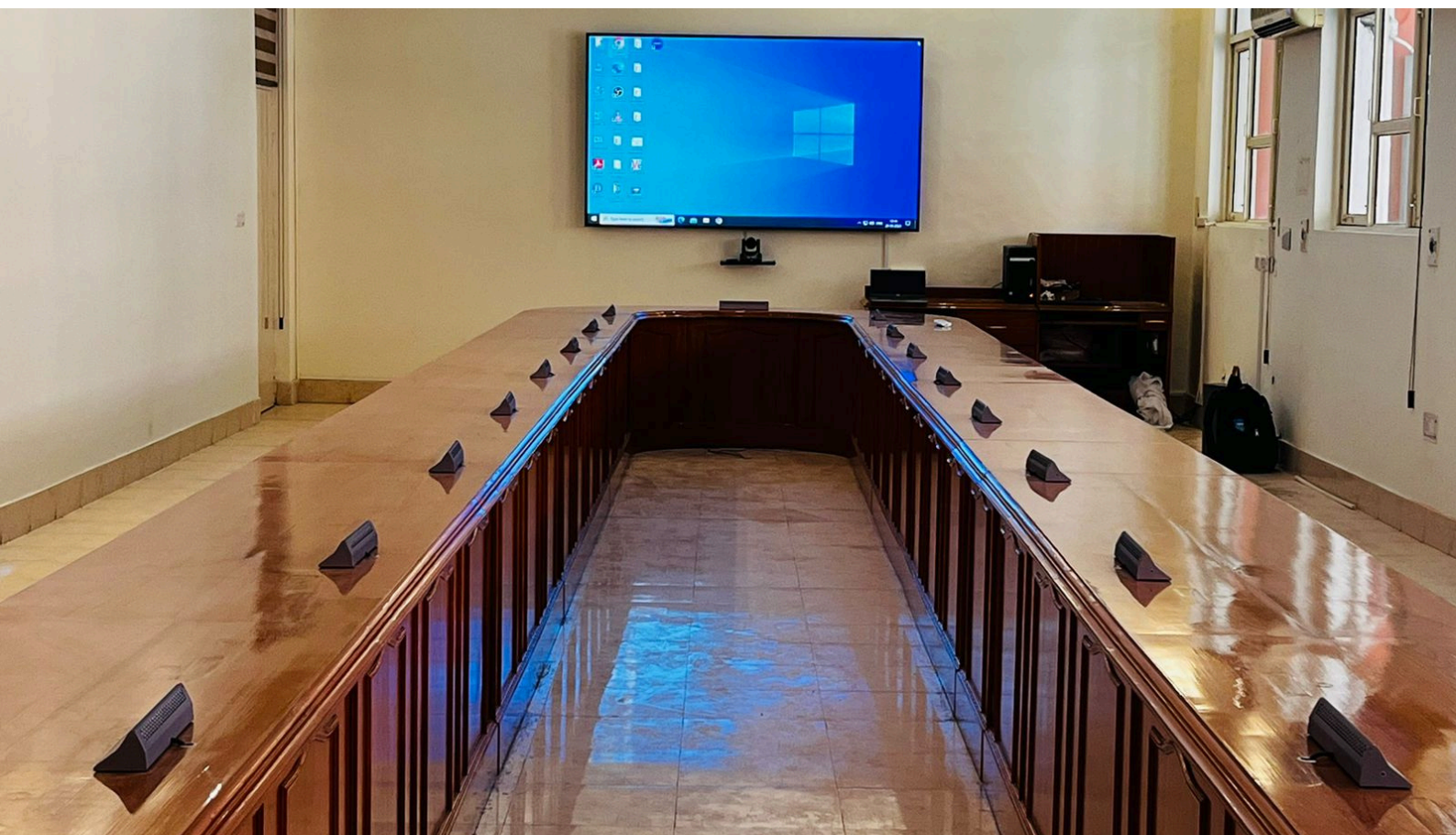
Himalayan Hospital, established in 1994, is a premier healthcare institution in Uttarakhand. This 1200-bed multi-specialty facility is the largest super-specialty PG teaching hospital in the region and is part of the Himalayan Institute of Medical Sciences. Located near Jolly Grant Airport amidst the serene foothills of the Himalayas, the hospital integrates allopathic practices with alternative medicine and yoga, serving around 1800 outpatients and managing 200 admissions daily.

## Project Overview:

In a bid to enhance communication capabilities within its sprawling campus, Himalayan Hospital recently installed an advanced Digital Conference System featuring Intelligent Array Microphones. The system includes 20 delegate units and 1 chairman unit, facilitating seamless and efficient communication during meetings, conferences, and training sessions.

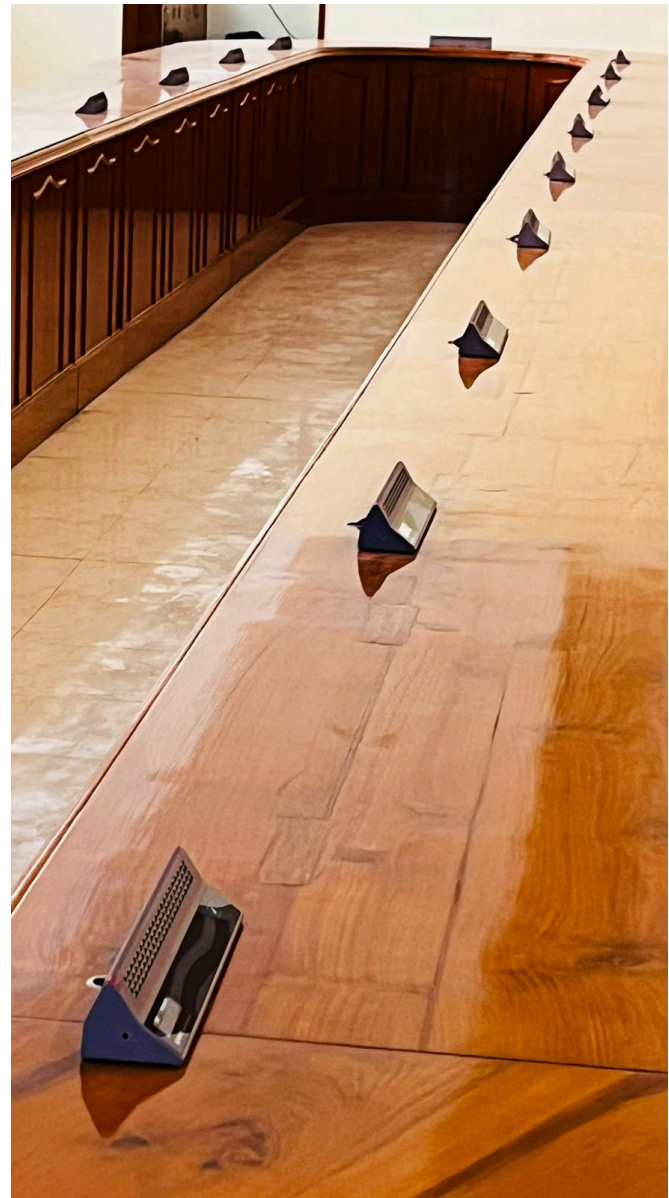
## Objectives:

- 1. Enhance Communication:** Improve the clarity and efficiency of communication during meetings and training sessions.
- 2. Integration with Existing Infrastructure:** Ensure the new system integrates smoothly with the hospital's existing AV infrastructure.
- 3. Support for Large Conferences:** Provide robust support for large-scale meetings involving multiple participants.
- 4. Durability and Reliability:** Implement a system that offers durability and reliability in a high-usage environment.



## Challenges faced in the project:

The implementation of STAPES Intelligent Array Microphones at Himalayan Hospital, Dehradun successfully navigated multiple challenges to transform their conference room into a hub of seamless communication. Despite the room's elongated dimensions and untreated acoustic environment, exacerbated by reflective flooring and disruptive airport communication interference, the STAPES system overcame these obstacles with advanced noise isolation technology and superior audio clarity. Designed for hot swappability and user convenience, the sleek, modern microphones not only enhanced aesthetics but also accommodated the Chairman's frequent seat changes effortlessly. Integrated with STAPES DSP 8X8 for optimal audio processing and compatibility with leading video conferencing platforms, the solution ensured minimal cable clutter and maximized functionality, proving instrumental in fostering productive and engaging meetings amidst demanding conditions. This installation exemplifies the pivotal role of tailored AV solutions in mitigating technical and environmental challenges to enhance operational efficiency in healthcare facilities.



## Technical Implementation:

- **Model:** STAPES Intelligent Conference System with Full Digital Array Type Tabletop Microphone
- **DSP:** STAPES 8X8 Dante Digital Signal Processor for VC and local conference
- **Digital Array Microphone Units:** 20 delegate units and 1 chairman unit
- **Video Tracking:** Automatic camera tracking feature integrated
- **Sync with Video Conferencing:** Compatible with TEAMS, Zoom calls



## Features and Benefits:

- Enhanced Audio Quality:** The system's 17 built-in 9.7mm gold-plated capacitive pickup head mic capsules ensure superior audio quality, capturing every nuance of speech with remarkable clarity. The high sensitivity sound pickup design providing clear communication even in large rooms.
- Seamless Integration:** The system was integrated seamlessly into the existing AV infrastructure of Himalayan Hospital, leveraging its compatibility and ease of connection modes.
- Large Conference Support:** With support for up to 30 conference units in one chain and a central unit capable of connecting 180 microphone units, the system is well-equipped to handle large-scale conferences and training sessions. The automatic camera tracking ensures that speakers are always in focus, enhancing the visual experience for all participants.
- Durability and Reliability:** The aluminum alloy panel and robust construction of the microphone units provide durability, while the waterproof and dust-proof touch screen features ensure reliability in the hospital's demanding environment. The system's ability to isolate signal interference from mobile phones, radio waves, Bluetooth, and WiFi further enhances its reliability.

## Outcome:

The installation of the Intelligent Array Microphones at Himalayan Hospital has significantly improved the quality and efficiency of communication during meetings and training sessions. The hospital's administration has reported increased clarity and engagement during conferences, contributing to better decision-making and collaboration among staff. The system's durability and seamless integration with existing infrastructure have been particularly appreciated, ensuring smooth and uninterrupted operations.

## Conclusion:

The successful implementation of the Intelligent Conference System at Himalayan Hospital underscores its potential as a vital tool for enhancing communication in large healthcare institutions. With its advanced features and robust design, the system has proven to be a valuable asset, facilitating effective communication and collaboration in a high-demand environment. This case study highlights the importance of investing in reliable and high-quality AV solutions to support the dynamic needs of modern healthcare facilities.



## Integrator's Experience:

Sameer Malhotra, Managing Director of Audio Systems, Dehradun, shared his experience:

*"The university management decided to create a VC room for Vice Chancellors, teachers, and for local meetings, interviews, and student communications with other campuses. All STAPES conference microphones delegate and chairman units are in sync with the camera. As soon as someone speaks, the camera moves to that person and broadcasts on Teams or Zoom platforms. The challenge was to ensure proper 'look at me' feature for each microphone communication in the conference room. So, we decided to use the STAPES Digital conference system with a camera, which can easily capture two delegates' voices from a distance. The audio and video quality, along with the camera movement, is quick and comfortable, and we handed over the project on time. The STAPES team is so professional that they installed everything in half a day with camera control ability. We have confidence in STAPES Microphones as they are designed in Luxembourg and assembled in India with a professional finish and excellent services. We have also commissioned seven projects in Uttarakhand with STAPES conference products, all of which are working exceptionally well in terms of support, timely delivery, installation, and training. Kudos to the STAPES team."*

### About Manufacturer: Stapes & Bauble Private Limited

Founded by **Anshuman Dubey, Stapes & Bauble Private Limited**, an **ISO 9001: 2015 certified company**, is committed to excellence, delivering unmatched audio solutions and service nationwide. Specializing in manufacturing Audio Conference Systems, Ceiling, Boundary, Gooseneck, and Wireless Microphones, Digital Signal Processors, PTZ VC cameras, and Speakerphones, they ensure efficient distribution through their assembly unit located in the National Capital Region, via NH 48. With fully equipped Service Centers in Gurgaon, Dehradun, Pune, Bhopal and Ahmedabad, they provide timely support and maintenance through distributors across the country.

Anshuman Dubey, expressing gratitude, stated:

*"We are deeply grateful for the outstanding work and dedication shown by Sameer Malhotra from Audio Systems, Dehradun in the successful installation of our new conference system. Your team's professionalism, expertise, and commitment to excellence have transformed our communication capabilities and exceeded our expectations. Thank you for delivering a solution that enhances our collaboration and productivity. We look forward to continuing our partnership and achieving more milestones together."*

This collaboration highlights the importance of reliable partnerships and high-quality products in transforming communication infrastructure in healthcare settings.