



## State-of-the-Art Conference Hall for ONGC Assam Nazira

**Client: Oil & Natural Gas Corporation of India (ONGC)**

Location: Assam, Nazira

### Introduction

ONGC aimed to develop a state-of-the-art Conference Hall incorporating advanced audio-visual technologies. The goal was to create a space that enhances collaboration, engagement, and meeting experiences while ensuring seamless system integration and ease of use.

### Project Challenges

ONGC required a high-tech AV conference hall that would cater to high-profile meetings with:

- **Best-in-class video output** for immersive presentations.
- **Seamless presentation and Full HD video conferencing** across ONGC offices.
- **Natural and uniform audio quality** throughout the hall.
- **Programmable microphones** with no echo or feedback issues.
- **Centralized control system** on a user-friendly touch panel.

### Solution Implemented

The AV-certified team at Pratyam conducted an in-depth evaluation of ONGC's requirements and delivered a cutting-edge solution:

#### Visual System

- **LG 98" 4K Display** as the primary display.
- **Two 75" 4K Displays** mounted on side walls for enhanced visibility.

- **49" 4K Display** positioned for the chairperson's use.
- **Polycom Full HD Video Conferencing System** with a **12X Zoom Camera** for superior video clarity.
- **Epson Ultra Short Throw Laser Projector** with a **120" motorized screen** for extended presentations and large-scale viewing.

#### Audio System

- **Bose MA12 Column Array Speakers** positioned on both sides of the main display, delivering **uniform sound distribution** across the hall with advanced array technology.
- **Audio Technica Tabletop Boundary Microphones** for push-to-talk functionality, ensuring excellent pickup quality and fine sound clarity.
- **QSC Core 110f DSP** for backend audio processing, eliminating **echo and feedback** while delivering **natural sound quality**.

#### Control & Automation

- **Lightware AV Over IP Encoders & Decoders** supporting **4K resolution, 3D, and HDCP compliance**, allowing seamless transmission of **video, audio, and control signals**.
- **Crestron Control System** implemented to provide **centralized control** of all AV components.
- **Apple iPad Integration** for an intuitive and user-friendly control interface, streamlining system management.


### Project Outcome

The advanced AV solution exceeded ONGC's expectations by ensuring:

- Unmatched audio-visual performance tailored to high-profile meetings.
- Seamless system control and automation with intuitive interface design.
- Aesthetically integrated AV components that complemented the boardroom's design.
- Future-ready technology with scalability for upcoming advancements.

Our certified AV engineers meticulously designed the system to balance technical precision with user-friendly functionality, ensuring an effortless and immersive conferencing experience.


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