

Pratyam

CASE STUDY

PREPARED FOR :

ONGC GREEN HEIGHTS



SMART AV INTEGRATION AT ONGC GREEN HEIGHTS

Integrated LED Videowall & Portable PA System Deployment

Project Overview

Client: ONGC Green Heights

Project Date: 15th December 2023

Location: 8th Floor Conference Room, ONGC Green Heights

ONGC Green Heights undertook a technology upgrade for its 8th-floor conference room, procuring a high-end Active LED Videowall and a portable Public Address (PA) system. The project aimed to enhance presentation quality, collaboration, and audio clarity during meetings and events. This case study details the equipment delivered, the rationale behind brand selection, and how the solution meets the client's operational needs.

The Challenge

The existing conference room lacked a unified, high-visibility display and a flexible audio solution. The client needed:

- A seamless, large-format display for crisp visuals and data presentation.
- A portable audio system that could be moved between meeting spaces.
- Reliable, globally recognised brands with proven performance.
- Clear documentation of delivered equipment including serial numbers for asset tracking.

SOLUTION OVERVIEW

Two primary systems were deployed:

A. Active LED Videowall & Control System

Core Display:

- 21 units of Samsung IWA012 LED cabinets – forming a high-resolution, bezel-free videowall.

Processing & Control:

- Samsung SBB-SNOWAAE/XL display controller for centralised management.
- BLACKBOX ST-VWP200 video processor for seamless switching and scaling.

Auxiliary Components:

- 3 x 10-meter Commscope optic fibre cables for reliable signal transmission.
- Apple iPad (model iPad, SK404T9RQHR) loaded with custom layout control software.

B. Portable PA System (5 Complete Sets)

Each set includes:

- **JBL EON ONE MK2** all-in-one portable PA speaker (with mixer, Bluetooth, battery).
- **2 x AKG D5** wired microphones – professional vocal dynamics.
- **2 x AKG WMS40** wireless microphone systems – freedom of movement.
- **Custom trolley bag** for easy transport.
- **Custom speaker stand** for optimal sound projection.

Note: Although the line items show “Qty 5” for mics, each PA set ships with **two** wired and **two** wireless microphones, resulting in **10 units each** – a configuration clearly reflected in the serial number lists.

Equipment Delivered

All major components were delivered with individual serial numbers, ensuring full traceability for warranty and maintenance.

- **Samsung IWA012** – Active LED Wall Cabinet for high-resolution, bezel-free videowall display
- **Samsung SBB-SNOWAAE/XL** – Display Controller for centralized management of the LED wall
- **BLACKBOX ST-VWP200** – Video Processor for seamless switching and signal scaling
- **Commscope** – Optic Fiber Cable (10m) for high-speed, reliable signal transmission
- **Apple iPad** – Tablet for intuitive touch-based layout and control interface
- **JBL EON ONE MK2** – All-in-one portable PA system with mixer, Bluetooth, and battery
- **AKG D5** – Professional dynamic wired microphone for clear vocal reproduction
- **AKG WMS40** – Wireless microphone system for freedom of movement during presentations
- **Custom** – Trolley bag for easy transport and storage of PA system components
- **Custom** – Speaker stand for optimal sound projection and placement flexibility

Total line items: 14 distinct equipment types.

Total individual units delivered: 66+ (including cables and accessories).

Key Implementation Highlights

- **Brand Consistency:** Samsung for display, JBL & AKG for audio – globally trusted brands ensure reliability and service support.
- **Portability:** The JBL EON ONE MK2 systems, complete with trolley bags and stands, allow the PA equipment to be used in multiple meeting rooms or outdoor areas.
- **Future-Ready Control:** The iPad-based interface offers intuitive touch control for the LED wall, eliminating the need for a dedicated technician.
- **Redundancy & Scalability:** The 21 LED cabinets can be configured in various aspect ratios; additional cabinets can be added later.

Result & Impact

- **Enhanced Presentations:** The Samsung LED wall delivers true-to-life colours and wide viewing angles – ideal for graphs, videos, and video conferencing.
- **Operational Flexibility:** Five independent PA systems enable simultaneous sessions or can be combined for larger events.
- **Cost Efficiency:** The use of an iPad as the control interface avoids expensive dedicated control panels.
- **Professional Audio:** AKG microphones provide clear, feedback-resistant vocal reproduction.

Conclusion

The ONGC Green Heights project exemplifies a well-planned AV infrastructure upgrade. By selecting premium brands and documenting every serialised component, the client received a turnkey solution that is both powerful and manageable. The mix of fixed installation (LED wall) and portable audio equipment addresses current meeting room needs while offering scalability for future expansions.





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