LUMIVISTA TECHNOLOGIES
C/15, Jaybhawani Market, Sector-4,
Near Union Bank of India, Airoli,
Navi Mumbai 400708

CASE STUDY

Khandala Bungalow Outdoor Project

Weather-Ready P2.5 Outdoor Active LED Display for a Hill-Station Residence



P2.5 Outdoor	3200 × 1920 mm	High brightness	1280 × 768 px
Pixel pitch	Display size (10.5 × 6.3 ft)	Daylight-ready output	Resolution

Project Overview

Khandala is a hill station set high in the Sahyadri range, known for its scenic views, hot summer days, heavy monsoon rain and strong winds. For a private bungalow here, Lumivista Technologies designed and installed a large outdoor Active LED screen on the stone wall of the poolside terrace, creating an open-air viewing space for live sports and movies.

The Challenge

An outdoor display in this setting has to perform reliably through some of the harshest conditions a screen can face:

- **Summer heat:** direct sun and high ambient temperatures put electronics under thermal stress, so heat has to be managed and dissipated continuously.
- **Heavy monsoon rainfall:** prolonged, heavy rain demands strong protection against water ingress, along with proper drainage.
- **Strong winds:** gusts that at times reach around 120 km/h place significant load on the wall-mounted structure and its anchoring.
- **Daylight viewing:** the screen had to stay bright and clear in open daylight, not only after dark.
- **Design and sound:** the installation had to blend with the bungalow’s stone architecture and work with outdoor speakers for an immersive experience.

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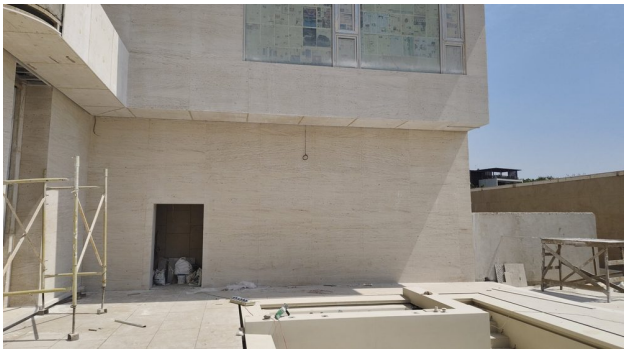
The Solution

Lumivista supplied a **P2.5 outdoor high-brightness Active LED display** measuring **3200 mm × 1920 mm**. The fine pixel pitch delivers sharp picture detail for close and mid-range seating, while the high-brightness output keeps visuals vivid in daylight. The display was mounted on a **custom, slim-profile wall-mount structure** engineered for the site's weather: it is built to resist rain, provides ventilation for airflow and heat dissipation, and is anchored securely against high winds. A black finish gives the screen a clean, premium look against the stone wall.

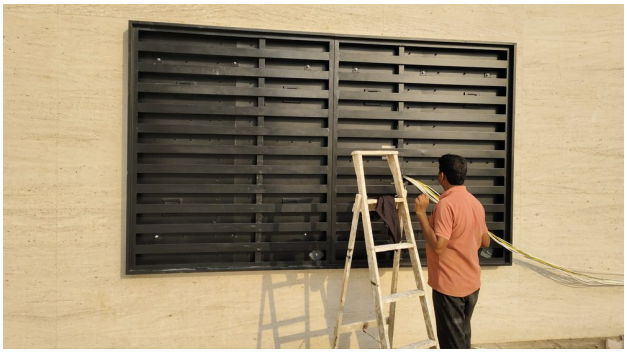
The display is **integrated with outdoor speakers**, so live matches and movies come with clear, room-filling sound.

Installation

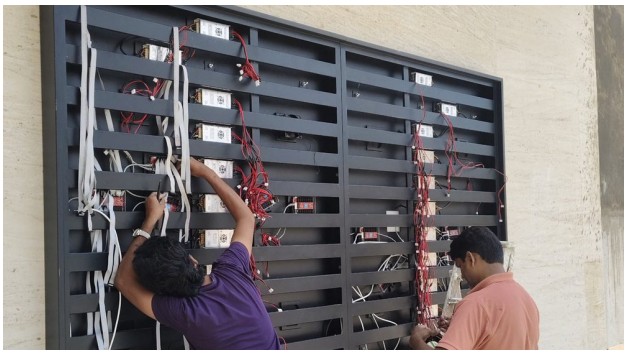
After surveying the stone-clad wall, the team fabricated and fixed the slim steel frame, routed power and data cabling, mounted the power supplies and control cards, and fitted the LED modules. The display was then tested and commissioned on site.



1. Terrace wall before installation



2. Slim black wall-mount frame fixed and cabling routed



3. Power and data connections made on the frame



4. Power supplies and control cards in place



The Outcome

The bungalow now has a cinema-scale outdoor screen that sits naturally within its stone architecture. Family and guests can watch live matches and movies in the open air with large, bright visuals and clear audio, and the weather-ready design is built to keep performing through Khandala's summers and monsoons.

Lumivista Technologies | Custom outdoor and indoor Active LED displays.

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