



Asahi India Glass Ltd.

CLARITI

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LET'S TALK GLASS

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In the CMO's Words



Dear Readers,

As we bring you another edition of AIS Clariti, this issue explores an idea that continues to shape modern architecture: **Where Performance Meets Experience.**

Across educational, research, residential and commercial environments, glass is evolving beyond transparency and aesthetics. As an integral part of the building envelope, it can contribute to daylight, thermal and acoustic comfort, energy efficiency and the overall experience of the people within these spaces.

Our **Cover Story** takes us to **CSIR-Advanced Materials & Processes Research Institute (CSIR-AMPRI), Bhopal**, and the **Western Academic Block at IIT Roorkee**, both designed by **Ar. Sangeet Sharma** of SD Sharma & Associates. While their functions are different, both projects demonstrate how high-performance glazing can support environments designed for

learning, research, collaboration and focused work. In the **Case Study**, we look at a **Premier Residence at Golf Course Road, Gurugram**, where **AIS Glasxperts** brings together aluminium systems and high-performance glazing to create a fenestration solution that balances expansive views, refined aesthetics, smooth operation and indoor comfort.

The **Spotlight** on Excellence section showcases **Minaas Towers, HITEC City**, where high-performance glass **AIS Ecosense Exceed Clear Brook Plus** forms part of a façade strategy designed to balance solar control, daylight and indoor comfort.

In the **Inside Info** section, the **The AIS Podcast: Glass Blueprint returns for Season 2** with **Ar. Vivek Bhole** in a conversation with Mr. Shailesh Ranjan, AIS, on material innovation and its growing role in architectural decision-making. The discussion explores how materials can influence design, performance, sustainability and long-term value.

In **AIS Fresh**, we introduce **AIS Royal Elite**, a premium aluminium sliding system designed for large-format openings and contemporary luxury homes, bringing together strength, slim sightlines, smooth operation and refined aesthetics.

Across this edition, one thought connects every story: good architecture is not only about how a building looks, but how intelligently it performs and how thoughtfully it serves the people within it.

I hope this edition of AIS Clariti offers perspectives that inspire new ways of thinking about glass, materials and the built environment. As always, we value your feedback and look forward to continuing our journey of collaboration and innovation.

A stylized handwritten signature of Vikram Khanna in black ink.

Vikram Khanna

President - AIS Consumer Glass

CMO

Asahi India Glass Ltd. (AIS)

Designing for Focused Learning Comfort and Connection:

High-Performance Glass for Educational and Research Environments



Educational and research environments are shaped by the people who use them. Students, researchers, faculty and professionals spend long hours learning, working, collaborating and exchanging ideas within these spaces. The architecture, therefore, must do more than accommodate these activities it must support them.

Two recent educational projects, **CSIR-Advanced Materials & Processes Research Institute (CSIR-AMPRI), Bhopal, and the Western Academic Block at IIT Roorkee**, presented different design requirements but a shared objective: creating comfortable, well-lit environments that respond to the needs of their occupants.

In both projects, the building envelope and the choice of glass became an important part of the architectural response. In collaboration with AIS, glazing solutions were explored not simply for transparency and visual openness, but for their contribution to optimum daylight, thermal comfort, acoustics and energy efficiency.

CSIR-AMPRI, Bhopal Designing for a Research Environment

The **new laboratory-cum-main building at CSIR-AMPRI** brings together research, administration and collaborative spaces within a contemporary institutional setting. The design challenge was to create an environment capable of supporting the demands of scientific work while responding to the site's climatic conditions.

One of the key considerations was the effective use of natural daylight. With the building extensively occupied during the day, the design sought to maximise daylight penetration while managing solar heat exposure and glare. For this requirement, **AIS Ecosense Exceed Clear Brook Plus**, a solar control Low-E glass, in a DGU configuration was selected.

The product allows optimum natural light into the interiors while providing solar control and contributing to the building's thermal and acoustic performance. This helped create a considered balance between optimum daylight, occupant comfort and energy efficiency.



Rather than relying simply on larger glazed areas to increase daylight, the glazing strategy focused on making more effective use of the available natural light while maintaining control over solar exposure.

The building has received a **5-Star GRIHA rating**, recognising its approach to environmental performance and resource-conscious design.

Good institutional architecture is not only about bringing light into a space, but about creating the right quality of light, comfort and performance for the people using it.

WESTERN ACADEMIC BLOCK, IIT ROORKEE

The academic building brings together teaching spaces, industry workshops and expansive conference areas, creating a dynamic environment that balances openness with the need for controlled indoor comfort.

Here, natural daylight was an important consideration across academic and circulation spaces. The design sought to create brighter teaching and workshop environments while reducing dependence on artificial lighting during daylight hours.

This approach also extended to entrance and staircase areas, where daylight contributes to a more open and connected experience.

At the same time, the presence of classrooms, workshops and conference spaces made acoustic performance an important consideration. In an academic environment, managing external noise and maintaining quieter interiors can directly support teaching, discussion and focused learning. To address these requirements, high-performance **DGU glazing** with **AIS Ecosense Edge Natura Select** was proposed to provide thermal and acoustic insulation while retaining the benefits of large glazed areas.

The result is an environment that maintains a sense of openness and natural light while supporting the comfort required for teaching, interaction and focused work.



TWO PROJECTS. ONE DESIGN APPROACH.

CSIR-AMPRI and IIT Roorkee serve very different purposes. Yet both projects reinforce the importance of treating glass as an active component of architectural design.

At CSIR-AMPRI, the glazing strategy was shaped by the need to balance daylight, solar control, thermal comfort, acoustics and energy efficiency.

At IIT Roorkee, the emphasis was on creating academic environments where daylight and acoustic comfort could support teaching, learning and interaction.

The requirements were different because the buildings themselves were different.

What remained common was the approach: **glass was considered as an integral part of the building's overall architectural and environmental strategy.**

Collaborating with AIS across these projects enabled the exploration of high-performance glazing solutions tailored to distinct institutional requirements while retaining the qualities of openness and natural light central to both designs. Ultimately, performance and experience need not be separate objectives. A well-considered building envelope can respond to its environment while quietly supporting the people, activities and experiences within it.

It is not simply about what we see through glass, but how glass contributes to the experience and performance of the spaces behind it.

By Ar. Sangeet Sharma,
Partner Architect,
SD Sharma and Associates,
Chandigarh



Where Design Meets Performance

An integrated solution shaped around the vision and requirements of a luxury residence



Located along **Golf Course Road in Gurugram**, a luxury apartment for an HNI customer was envisioned as a refined living environment where expansive views, premium aesthetics and indoor comfort come together seamlessly. The fenestration solution needed to complement the sophisticated interiors while delivering smooth and effortless operation, glare reduction, thermal and acoustic insulation, and protection from external dust and pollution. With large glazed openings forming an important part of the residence, the challenge was to balance openness and visual appeal with the performance required for a comfortable indoor environment.

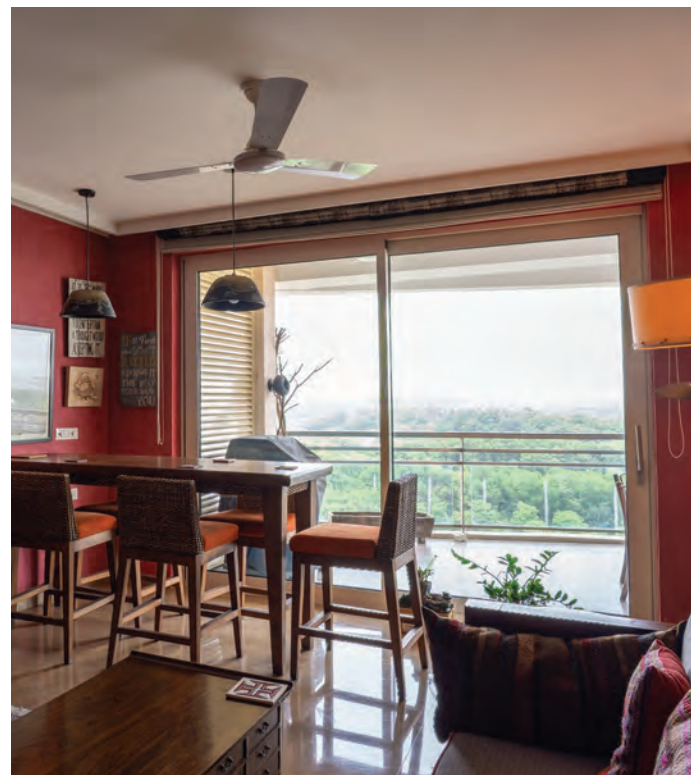
UNDERSTANDING THE VISION

AIS Glasxperts approached the project as an integrated fenestration solution, first understanding the aesthetic intent, spatial requirements and performance expectations of the residence. Through its consultancy services, **AIS GX** recommended an appropriate aluminium system

and glazing configuration based on the requirements of the space to arrive at a solution that balanced aesthetics, functionality and performance. This consultative approach ensured that the fenestration was not treated as a standalone component, but as an integral part of the overall architectural and interior vision.

The solution comprised **AIS Glasxperts**, in collaboration with **AluK**, providing **Aluminium Lift & Slide Systems** paired with **AIS Ecosense Enhance Eco Tempered Glass** in a high-performance insulating glass configuration.

The configuration comprised 06 mm **AIS Ecosense Enhance Eco Tempered** + 16 mm Argon-filled Air Gap + 05 mm **AIS Clear Heat Strengthened** + 1.52 mm Clear PVB + 05 mm **AIS Clear Heat Strengthened**.





The **Lift & Slide system** enabled large openings and expansive views while ensuring smooth and effortless operation. The selected glazing configuration was designed to support glare reduction, thermal and acoustic insulation, and enhanced protection from external environmental conditions, bringing multiple performance requirements together within a single fenestration solution.

PRECISION IN EXECUTION

AIS GX's role extended from consultancy and solution development to coordination and execution. The team worked across the aluminium system and glazing to ensure that the recommended solution translated effectively into the finished fenestration. Attention to system-glass compatibility, finish quality, detailing and installation helped maintain both

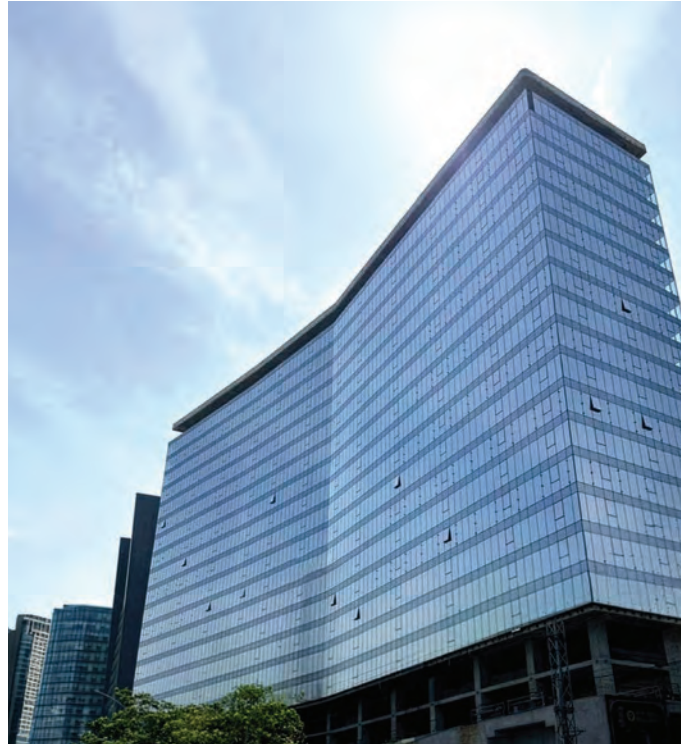
the design intent and the expected operational performance throughout the project.

THE OUTCOME

The completed fenestration solution brought together premium aesthetics, expansive views, smooth operation and enhanced indoor comfort. By combining technical consultancy with system and glass selection, coordination and execution, **AIS Glasxperts** delivered a cohesive fenestration solution tailored to the residence.

This project demonstrated how expert fenestration consultancy can add value beyond individual products - bringing together the right system, glass and execution to make fenestration an integral part of the architecture and the luxury living experience, rather than simply a functional element within it.

Spotlight on Excellence!



Minaas Towers, HITEC City, Hyderabad

High-Performance Glazing for a Contemporary Landmark

Designed by **Ar. Niroop Kumar Reddy**, Founder and Principal architect at **NA Architects**, Hyderabad, with **Aspect** as the Façade Consultant and **LandBase Constructions** as the Project Management Consultant, **Minaas Towers** is a contemporary commercial landmark in **HITEC City**, Hyderabad.

At the heart of its façade is **AIS Ecosense Exceed Clear Brook Plus**, a solar-control Low-E glass

selected as part of a façade strategy focused on balancing solar control, optimum daylight and indoor comfort.

By managing solar heat gain while allowing optimum daylight into the building, the glazing contributes to the façade's overall environmental and visual performance.



ecosense
The green standard in glass

The AIS Podcast: Glass Blueprint

Season 2, Episode - 1



CAN MATERIAL INNOVATION TRANSFORM ARCHITECTURE?

The first episode of Season 2 of **The AIS Podcast: Glass Blueprint** features **Ar. Vivek Bhole, Chairman & Managing Director, Vivek Bhole Architects Pvt. Ltd.**, in a conversation with **Mr. Shailesh Ranjan, Business Head - Institutional Sales & Technical Head - Architectural Glass, Asahi India Glass Ltd. (AIS)**, on the evolving relationship between architecture, materials and innovation.

The discussion looks at why material selection is increasingly becoming a strategic design decision - and how the right material, used in the right context, can influence design, performance, sustainability and long-term value.

WHEN MATERIAL CHOICE SHAPES DESIGN

Material selection is no longer driven only by aesthetics or specification. As buildings become increasingly performance-oriented, material choices can influence environmental performance, occupant comfort, durability and architectural expression. Ar. Vivek Bhole discusses the importance of understanding not only what a material can do, but **where and how it can create the greatest value within a design.**

Material decisions, therefore, need to be considered as part of the larger architectural strategy rather than as isolated specifications.

RETHINKING VALUE ENGINEERING

The conversation also examines the relationship between **value engineering and design intent.**

Value engineering can help optimise a project, but cost reduction should be considered alongside the qualities that contribute to long-term value. This places the architect at the centre of a complex balance between design, performance, cost and longevity.

DESIGNING FOR A MORE RESPONSIVE FUTURE

As buildings face increasing demands around climate responsiveness, resource efficiency and changing user needs, material innovation can open up new possibilities for sustainable design. The opportunity is not simply to adopt newer materials, but to use materials more intelligently - understanding their capabilities and integrating them into solutions that respond to both people and the environment.

BEYOND THE MATERIAL

Ultimately, the conversation explores how better material and design decisions can create greater value in architecture. From balancing value engineering with design intent to exploring the role of innovation in sustainable buildings, the episode offers a perspective on how architects can move beyond conventional material applications and think more holistically about the built environment.

WATCH THE FULL EPISODE ON YOUTUBE AND SPOTIFY:



Youtube link - https://www.youtube.com/watch?v=z_e8vGsbZX-E&list=PLh-K2sr6Vk-L9WjaT323UPrTpz34J4i_WG



Spotify link - https://open.spotify.com/episode/04WTYBUcc6jnXNra8fh-fEA?si=3mcb7uToSNO-PnD190dpmw&utm_source=copy-link



AIS Royal Elite

Built Around the Demands of Luxury Living

AIS Windows introduces AIS Royal Elite, a premium sliding system designed for large-format openings and contemporary luxury homes. Combining heavy-duty strength with ultra-slim sightlines, Royal Elite brings together **scale, refined aesthetics and smooth, silent operation.**

Designed to accommodate larger glass panels, the system enables generous openings while maintaining a clean and elegant appearance. Its slim sightlines allow the fenestration to integrate seamlessly with premium architectural interiors, while its robust construction is designed to support the demands of large-format applications.

Key Features



Built for Large Openings

Heavy - duty strength designed for expansive sliding formats for large openings upto 3.9 mts



Ultra-Slim Sightlines

Minimal framing with ultra-slim 20 mm profiles for a clean, premium aesthetic and uninterrupted views.



Smooth & Silent Sliding

Designed for effortless everyday operation and enhanced user comfort.



Supports Thicker Glass

Enables larger glass configurations upto 38 mm glass thickness for enhanced safety and acoustic performance.



Soft-Close & Low-Threshold Options

Added convenience and accessibility for a more seamless everyday experience.

Designed for the architecture of luxury large-format glazing is becoming an increasingly important element of premium residential architecture. As openings become larger and sightlines slimmer, fenestration needs to balance scale, strength, operation and visual refinement. AIS Royal Elite is designed around this evolving requirement allowing architects and homeowners to create expansive openings without compromising the clean, understated character expected of high-end spaces.

AIS Royal Elite brings together performance and aesthetics in a premium sliding solution created for the evolving demands of luxury living.

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Have a comment or suggestion? Let us know! Write to us at seemore@aisglass.com