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054 LPA celebrates 25 Years



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THE ART OF THE CORPORATE OFFICE

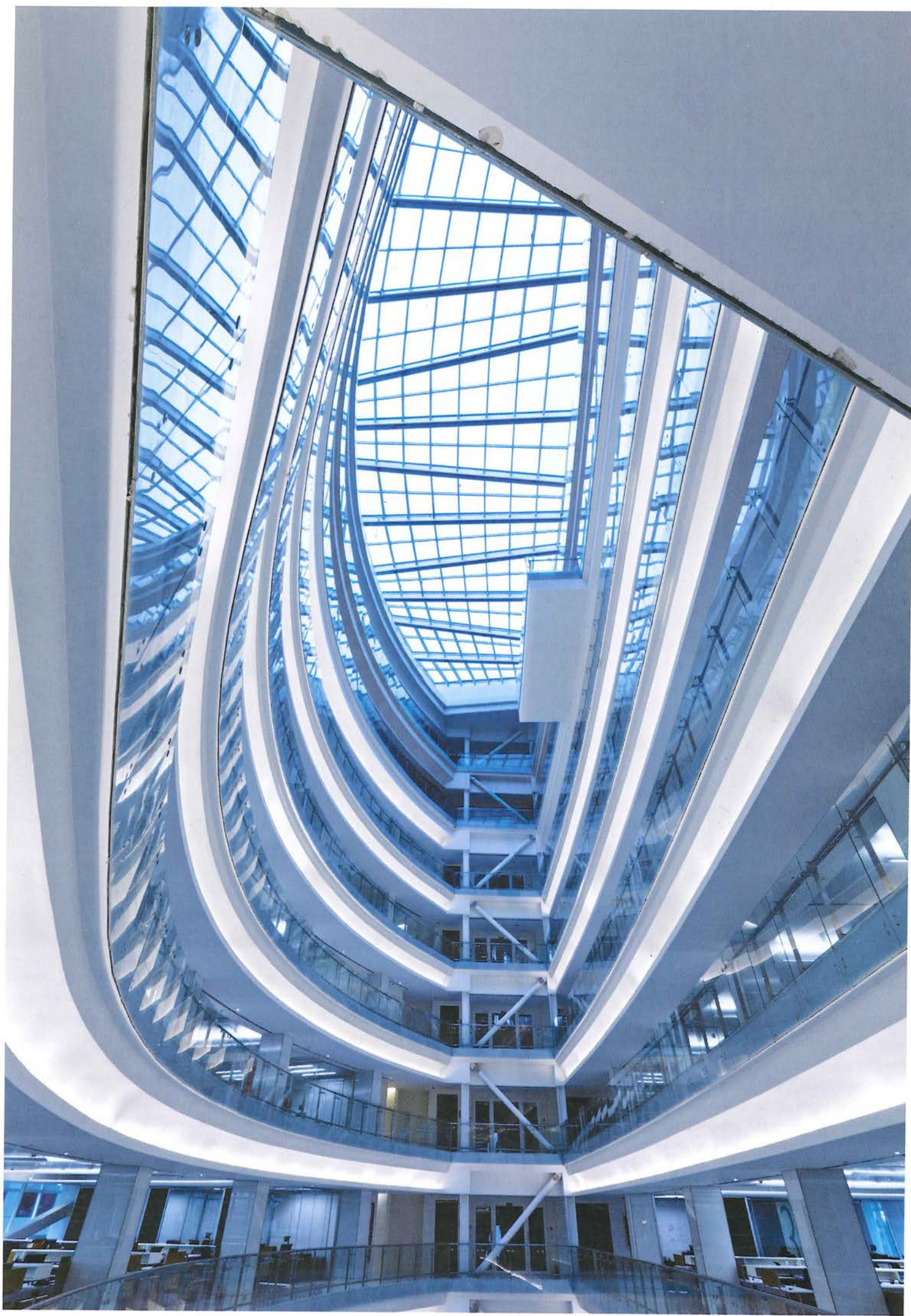
*Working in close conjunction with the client and architectural design teams, **Lighting Ergonomics** strikes a perfect balance between function, aesthetics, efficiency and technology in lighting a corporate office that houses invaluable art.*

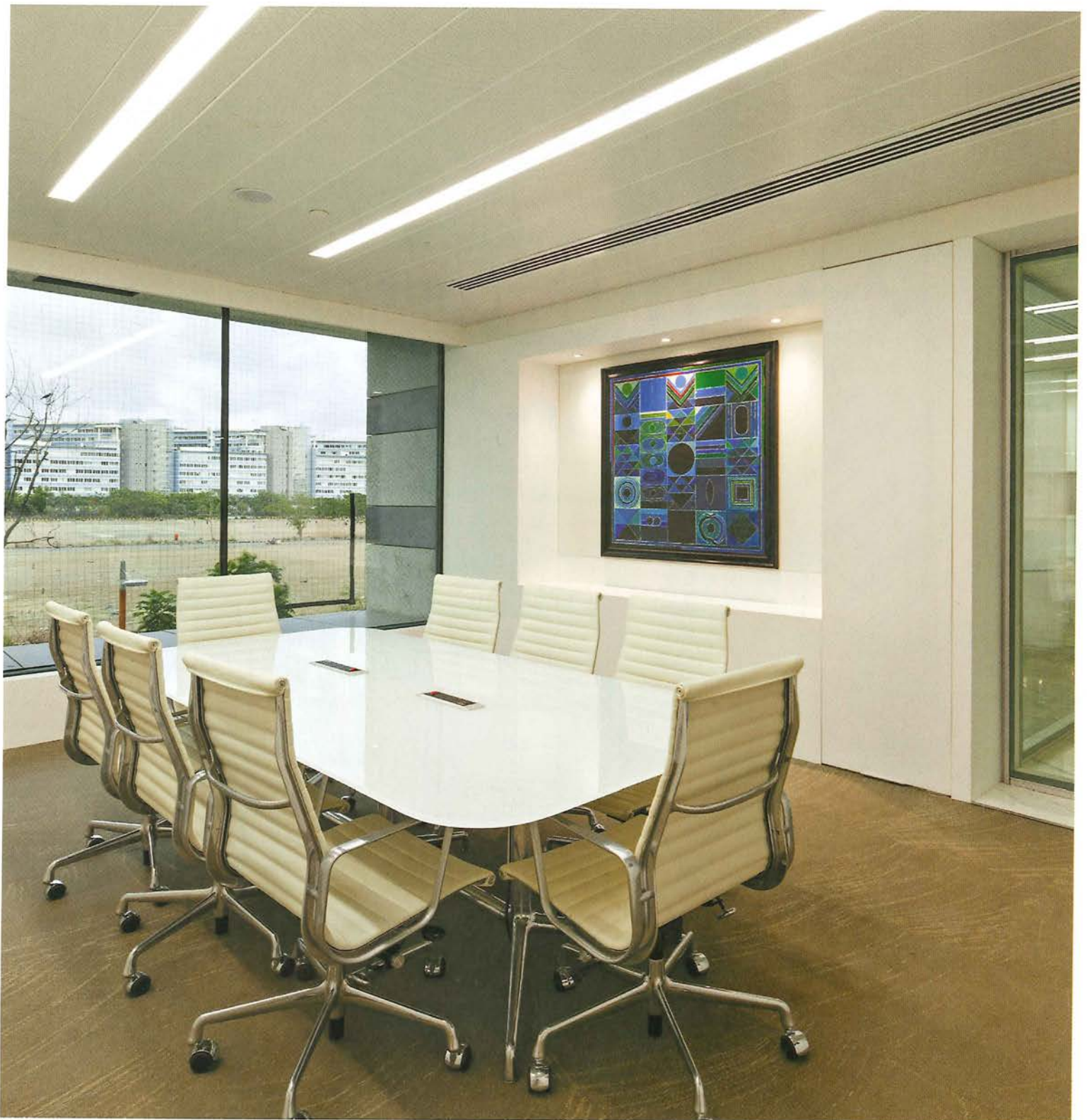


The JSW headquarters in Mumbai's affluent business district of Bandra-Kurla Complex is housed in an iconic structure designed by Stantec. Covering over 550,000 sq.ft., the LEED Platinum certified building incorporates not only the most advanced sustainable building technologies, but also the latest concepts in corporate office design and configuration. With an enormous atrium inside and the entire exterior glazed with a high performance double skin, Stantec ensured to incorporate extremely efficient system operations, yet harnessing natural light in the interior. The client desired for their headquarters

to project tranquillity and refinement, while breaking away from their extant closed-office culture to an open office environment. This gave way to a deliberate intent to fashion lucid spaces, using light and transparency to create a prolific and open, yet composed office design. Since Sangita Jindal, the client and one of the biggest patrons of art in India, was personally involved in the project, the architects decided to treat the space as a museum - infusing avant-garde art installations throughout the design; keeping the interiors minimal and predominantly rendered white.

The interiors designed by Edifice, also followed similar principles of clean and uncluttered spaces, with an abundance of natural light. Their fundamental philosophy was driven by the idea that if you have a door, you do not get a window. Positioning functional spaces in accordance with the influx of light, the open office is bathed in daylight from the external glazing and atrium, and cabins with doors have been kept away or perpendicular to the windows. Pune based Lighting Ergonomics (Le) were included as part of the design process from the initial stages, acting as a catalysing agent in fulfilling the project's demanding



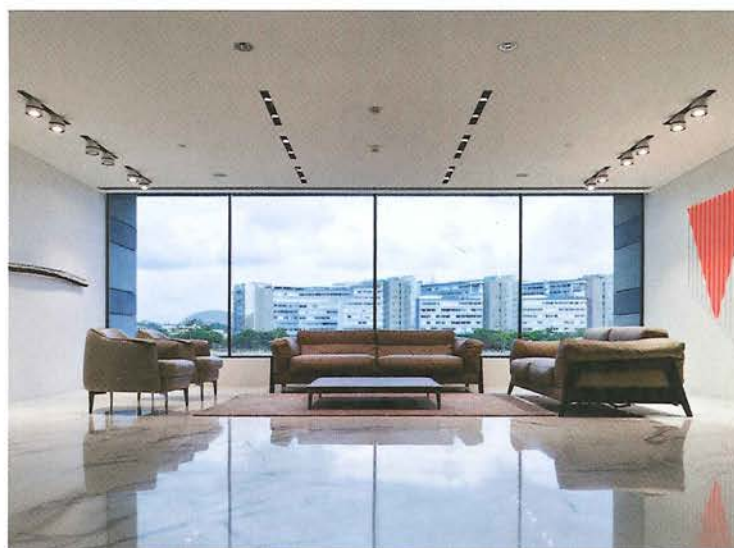
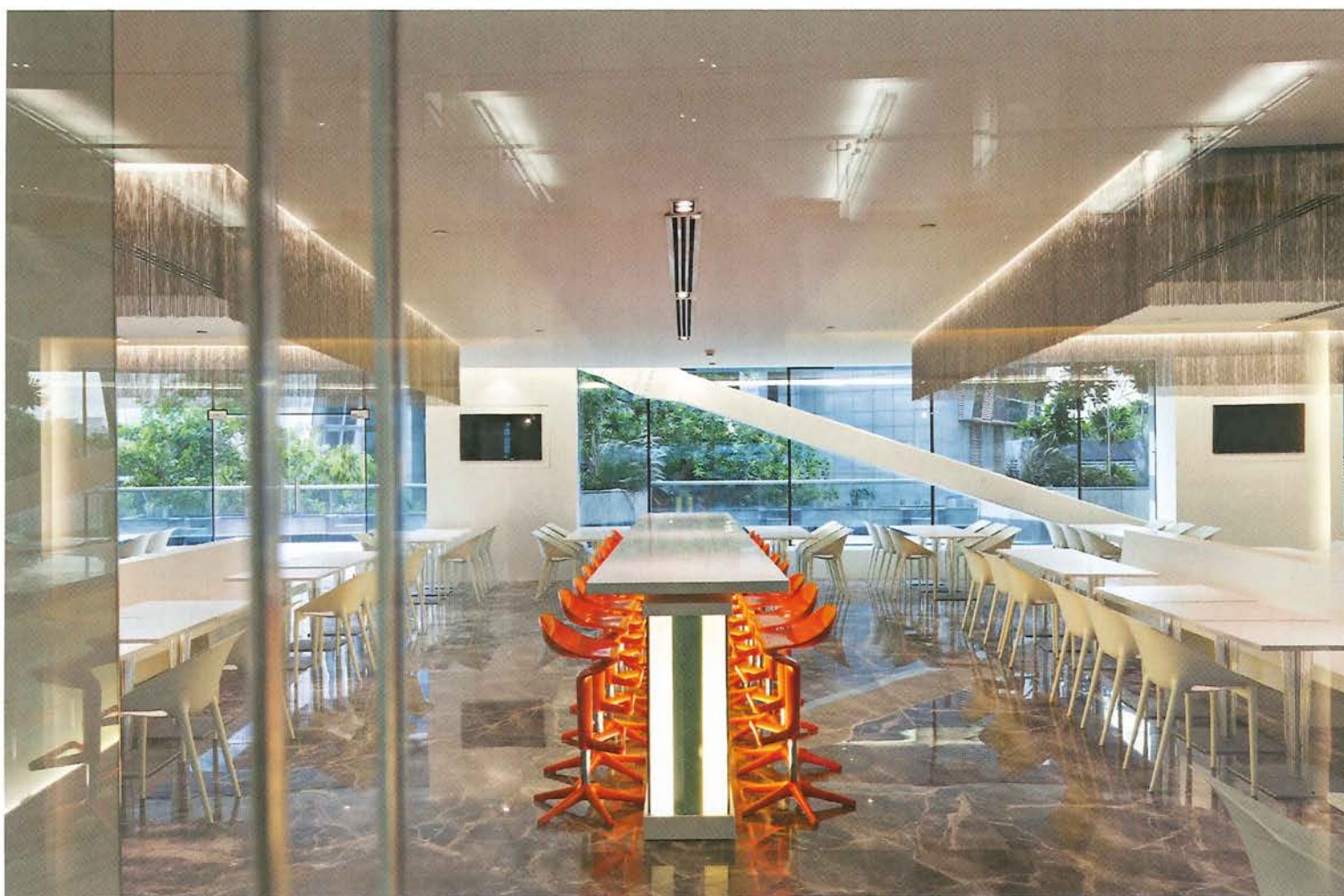


lighting goals. Prioritising the client's vision and addressing complex issues of visual comfort and employee satisfaction, Le ensured that their scheme was aligned with the JSW brand and philosophy - a place that would be dynamic, while at the same time sensitive to the function of a corporate office. They were able to integrate state of the art technologies to enhance lighting performance and boost human productivity. This was achieved by maintaining efficiency and employing high quality direct-indirect lighting in the open offices in only the areas that most needed it. Shadow-free, glare-free, soft and diffused light was rendered through the use of extremely compact profile fixtures with T5 lamps.

Careful consideration was given to the selection of colour temperature as per the localised function of the space. Common areas such as the atrium and cafeteria were bathed in 3000K warm light from the ERCO Quintessence range, while the more functional areas of offices and conference rooms were lit in cooler temperatures of 4000K, achieved with the Deltalight and XAL collection.

The largely white interiors flanked with vast reflective surfaces of glass demanded a strategic positioning of light fittings to avoid glare and undesirable sightings of the light source. Architectural details were designed in conjunction with the lighting scheme to conceal lamp sources, encourage soft

and indirect light, and reduce visual noise that would otherwise have amplified with multiple reflections in the adjacent glossy surfaces. The majority of the luminaires selected were compact, inconspicuous and highly-efficient, with long-life LED engines. This project was witness to a happy marriage between Building Management Systems (BMS) and Lighting Management Systems (LMS). For JSW, the role of BMS within the context of an integrated building system was extremely crucial. A standalone LMS that had its inbuilt lighting automation features such as daylight harvesting, vacancy sensing and time-scheduling was programmed to interact with BMS for high-level monitoring and control of the lighting.



This was especially crucial in accentuating the artwork without trespassing on the functionality of a space. It resulted in focused lighting in conjunction with ambient illumination, while seamlessly integrating the hardware within the architectural design fabric. A luminous backdrop was also crafted for sculptural art, that would act as a canvas for the artwork to be installed at pertinent locations across the office.

While most of the installations were housed in public spaces, and the office space was more functional, the former was given special care to cater to the sensitivity of the artwork. Recognizing this dichotomy of split functions, Le customised the

lighting solution for both. The challenge lay in the desire to change art pieces over time, which was addressed by providing adjustable, flexible and multiple light distribution options. The modern typology of the building architecture, with steel, glass and stone provided a neutral pallet and enabled the lighting scheme to work effortlessly. Working in close collaboration, the client JSW, architects at Stantec, designers at Edifice and lighting experts at Lighting Ergonomics were able to create a space that caters to both aesthetic and functional value.

www.lightingergonomics.com

PROJECT DETAILS

Official Name: JSW Headquarters, BKC, Mumbai
Client: JSW
Architect: Stantec
Interior Designer: Edifice Consultants Pvt.Ltd
Landscape Architect: Stantec
Lighting Designer: Lighting Ergonomics

LIGHTING SPECIFIED

ERCO: Cantax
 ERCO: Quintessence Down lighters
 Delta: Compass Box
 Delta: REO
 Delta: YOU- Turn Pro
 Philips: Color Kinetics Cove lights and Low profile downlights.
 XAL FRAME Profile
 Zumtobel: CLARIS2 Suspended fixture