



## Lighting the next generation of rail mobility

India's railway network is undergoing unprecedented transformation. As the world's fourth-largest rail network, Indian Railways spans over 69,000 route kilometres and carried nearly 6.9 billion passengers in 2022-23. Driven by rapid urbanisation, rising mobility demands, and ambitious infrastructure development plans, rail transportation is emerging as a key driver of economic growth and sustainable urban development. India is projected to account for nearly 40% of global rail activity by 2050, supported by investments exceeding ₹50 lakh Cr in rail infrastructure by 2030 and a capital expenditure allocation of ₹7.47 lakh Cr in 2023-24. Visible progress includes the introduction of Vande Bharat and Amrit Bharat trains, development of new freight and passenger corridors, the completion of the Chenab Railway Bridge—the world's highest railway bridge—and extension of rail connectivity to Kashmir. At the same time, metro networks continue to expand rapidly across cities, enabling efficient and sustainable urban mobility.

### The growing importance of intelligent lighting in transit infrastructure

In modern transit environments, lighting is crucial for safety, comfort, energy efficiency, and architectural appeal. Today's systems go beyond illumination, using LED technology, smart controls, advanced optics, lightweight materials, and human-centric design to enhance passenger experience while reducing energy and maintenance costs.



Sri lankan Demu- Image Courtesy: K-Lite



VISTA DOME, LRACC & GM - Image Courtesy: K-Lite

Modern railway and metro lighting must ensure visual comfort, safety, reliability, smart integration, and attractive interiors, driving industry innovation.

### K-Lite: A trusted partner in railway and metro lighting

For over four decades, Chennai-based K-Lite Industries has contributed to India's railway and metro modernisation through advanced lighting solutions. As an approved vendor to the Integral Coach Factory (ICF), RDSO-approved systems, and Kapurthala and Modern

Coach Factory, K-Lite has played a pioneering role in transitioning railway coaches from conventional lighting to energy-efficient LED luminaires. K-Lite takes pride in its long-standing and enduring relationship with ICF and feels privileged to be associated with it. K-Lite Industries claims to have been a pioneer in upgrading the overall coach lighting of Indian Railways and in improving the passenger experience through modern, reliable, and energy-efficient lighting. Its greatest achievement was designing and introducing RDSO-compliant