



### Jasbir Singh

Chairman, CEO and  
Whole time Director  
Amber Enterprises

#### How is Amber Enterprises innovating to meet India's growing demand for energy-efficient and smart cooling solutions?

At Amber, innovation has always remained at core. Over the years, we have steadily expanded our capabilities through backward integration and have stood tall in bringing new designs and developing components which together determines the energy efficiency and performance of modern air conditioners. As consumer preference shifts towards inverter and premium ACs, our focus has been to design high energy efficient Air conditioners by developing unique PCB boards along with its complex software algorithm. Further, Amber has a dedicated world class R&D facility with more than 350 engineers who are engaged in developing the new and cutting-edge technology for HVAC industry.

We have also strengthened our Commercial and Light Commercial AC portfolio with a wider range of ducted, cassette and tower AC

configurations, where efficiency, reliability and smart controls are critical. This approach allows us to stay aligned with evolving energy norms while supporting customers with scalable, India-made solutions.

#### What role does Amber play in strengthening India's HVAC and electronics supply chain under Make in India, and how are you preparing for exports?

Our role in Make in India is to create a robust domestic manufacturing ecosystem rather than rely on assembly-led growth. Amber is the most comprehensive and backward-integrated HVAC solution provider, covering 70% of the Room Air Conditioner bill of material and holding 27% of the RAC manufacturing market.

In electronics, we've built a full-stack ecosystem spanning bare PCBs, PCB assembly, and box-build solutions for sectors like consumer electronics, appliances, automobiles, and energy. Approval under the Electronics Components Manufacturing Scheme for advanced multilayer PCBs further strengthens our Atmanirbhar Bharat alignment.

With products meeting global standards, our consumer durables, electronics, and railway sub-systems already serve internationally exposed customers. Export readiness is a natural outcome of building globally competitive manufacturing capabilities in India.

#### What steps has Amber taken to reduce its carbon footprint and integrate green practices across operations?

All our facilities comply with ISO 14001 and ISO 45001 standards, ensuring systematic monitoring of energy, waste, and safety practices. We recycle 20.62% of total water consumption, achieve 99.85% waste diversion, and have harvested over 1 lakh kiloliters of rainwater to reduce freshwater dependence.

On energy transition, we have utilised 35,781.29 GJ from renewable sources, reinforcing our shift to cleaner power in manufacturing operations. Localisation and backward integration further cut logistics-related emissions while strengthening supply chain resilience and supporting sustainability goals.

On governance and social aspects, we maintain robust policies on human rights, employee safety, training, and ethical conduct, regularly reviewed and disclosed in ESG reporting. For us, ESG is integral to long-term competitiveness—building efficient factories, resilient supply chains, and responsible systems that meet global customer and regulatory expectations while driving innovation and sustainable growth. ■