

Balco deploys AI humanoid agent for real-time training, operations and safety

Our Bureau

Mangaluru

Bharat Aluminium Company Ltd (Balco), a unit of Vedanta Aluminium, has deployed Alaisa (aluminium artificial intelligence support agent), a humanoid, AI-powered assistant designed to enhance shop-floor capability, operational efficiency and industrial safety in aluminium manufacturing.

Currently operational at Balco's smelter complex in Chhattisgarh, Alaisa functions as an on-ground training, knowledge and decision-support interface for shop-floor teams.

The system integrates conversational AI with plant-specific operational intelligence to deliver contextual, real-time guidance on standard operating procedures,



Alaisa, the humanoid AI-powered assistant

standard maintenance practices, and critical safety protocols, directly at the point of operation.

Quoting Rajiv Kumar, CEO of Vedanta Aluminium, a media statement said: "The deployment of Alaisa reflects our commitment to building intelligent, future-ready systems that enhance human

capability. By combining AI-led insights with shop-floor expertise, we are strengthening safety, improving process reliability, and enabling a more skilled and confident workforce."

INITIAL PHASE

In its initial phase, Alaisa has trained over 100 employees. It supports structured learning modules, real-time query resolution and built-in, assessment-driven evaluations that enable supervisors to monitor comprehension levels and skill progression.

By embedding continuous, data-driven learning into the shop-floor environment, the system is helping standardise processes, strengthen safety compliance, and enhance workforce readiness in high-intensity industrial settings, the statement said.