PTC Industries Receives Purchase Order from GTRE for Single Crystal 'Ready-to-Fit' Turbine Blades

Lucknow, India – October 23, 2025: PTC Industries Limited ("PTC"), a leading Indian manufacturer of high-performance materials and precision-engineered components for critical aerospace and defence applications, has received a Purchase Order from the **Gas Turbine Research Establishment (GTRE)**, Defence Research and Development Organisation (DRDO) for Post-Cast Operations to manufacture **Single Crystal 'Ready-to-Fit' Turbine Blades**. The announcement was made in the presence of **Honourable Raksha Mantri Shri Rajnath Singh Ji and Honourable Chief Minister of Uttar Pradesh Shri Yogi Adityanath Ji**at the Lokarpan Ceremony of the Titanium & Superalloys Materials Plant at PTC's Strategic Materials Technology Complex (SMTC) in Lucknow.

This order marks a historic milestone — **the first time any Indian company has been entrusted with Post-Cast Operations** including machining, grinding, brazing, vacuum heat treatment, thermal barrier coating, and powder vapour deposition, of Single Crystal 'Ready-to-Fit' Turbine Blades, **a capability possessed by only a handful of organisations worldwide.**

The Purchase Order strengthens the strategic collaboration between GTRE and PTC, underscoring the Government of India's vision for indigenisation and self-reliance under the *Aatmanirbhar Bharat* initiative. It also reflects GTRE's confidence in PTC's advanced casting, heat-treatment, and machining expertise for mission-critical aerospace components that must perform in extreme temperature and stress environments.

Speaking on the occasion, Mr. Sachin Agarwal, Chairman and Managing Director of PTC Industries, said:

"*This order from GTRE represents a moment of national significance and industrial pride. Single Crystal turbine blades are among the most technically complex and strategically valuable components in modern jet engines. By developing this capability in India, PTC is helping lay the foundation for the country's aero-engine manufacturing ecosystem and strengthening our collective journey toward true technological sovereignty*."

The execution of this order will draw upon the combined strengths of PTC's advanced manufacturing infrastructure in India and the end-to-end process capabilities available through its UK-based subsidiary, **Trac Precision Solutions**, ensuring seamless delivery of the Ready-to-fit Single Crystal Turbine Blades and Vanes.

Over the years, PTC Industries has emerged as a trusted partner to India's defence and aerospace establishments, supplying mission-critical components to organisations such as Hindustan Aeronautics Limited (HAL), DRDO, and BrahMos. PTC also exports Titanium and Superalloy castings to leading global OEMs including Safran, Dassault Aviation, BAE Systems, and Israel Aerospace Industries (IAI), making it a strategic link between India's industrial capabilities and global aerospace supply chains.

The award of this Single Crystal Blade order reaffirms India's progress toward achieving full indigenous capability in advanced materials and propulsion — a critical step in realising the nation's dream of designing, developing, and delivering its own aero-engines.

About PTC Industries Limited:

PTC Industries Limited is a leading Indian manufacturer of precision metal components for critical and high-performance applications, with a legacy of over six decades. Through its wholly owned subsidiary, **Aerolloy Technologies Limited**, the company manufactures and supplies titanium and superalloy castings for aerospace applications, serving both domestic and global markets.

PTC is significantly expanding its capabilities through a multi-million-dollar investment in its **Strategic Materials Technology Complex (SMTC).** This advanced facility will feature capabilities for producing aerospace-grade titanium and superalloy materials, along with state-of-the-art foundries and machining facilities for near-net-shape precision components

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