

Green Titanium™ – An investment towards sustainable manufacturing of Titanium Alloys

Lucknow, Uttar Pradesh, 22 May 2024: PTC Industries Limited (herein referred to as “PTC”), a manufacturer of high-quality high-precision metal components for various critical and super-critical applications, is pleased to share its approach towards environmentally sustainable practices in production of Titanium alloys. This technology and investment are in alignment with global civil and commercial aviation in industry’s Carbon neutral and net zero targets.

The titanium industry is at a crossroads, facing geopolitical and supply chain pressures alongside a high demand for aircraft, prompting a pause and a shift towards sustainability. As titanium's importance in sectors like aerospace and healthcare grows, the industry is pressured to adopt more sustainable practices. This includes rethinking energy-heavy extraction methods and prioritizing titanium scrap recycling to foster a circular economy. PTC Industries’ CTO, Mr. Jim Collins, presented a research paper at the Titanium Europe 2024 conference, spearheading sustainable titanium manufacturing initiatives in India.

Aerolloy's Green Titanium™ technology significantly reduces CO2 emissions by being able to remelt and reuse titanium scrap and waste, compared to existing and conventional process. The use of EBCHR and PAM melting capabilities will allow the company to manufacture aviation-grade Titanium alloy ingots by remelting and utilising Titanium scrap instead of having to only use fresh Titanium Sponge. Additionally, with various related technologies developed by PTC (Aerolloy) and coupled with utilising renewable energy, Green Titanium™ is estimated to yield a net reduction of approximately 30 tonnes of CO2 per tonne of titanium alloy ingot produced via conventional methods. The fully integrated and “Closed Loop” Strategic Materials Technology Campus being constructed by PTC (Aerolloy) at UPDIC’s Lucknow node, which will house all manufacturing processes from raw material to finished component, will further reduce carbon emissions by eliminating intra-process logistics. ***At full capacity, Green Titanium™, could reduce up to 150,000 tonnes of CO2 emissions annually.*** Mr. Collins paper was very well received and appreciated at the Titanium Europe 2024 conference.

Commenting on this development Mr. Sachin Agarwal, Chairman and Managing Director, PTC Industries said: “Our commitment to sustainability in titanium manufacturing is unwavering. With Aerolloy's Green Titanium™ technology, we are poised to significantly reduce carbon emissions and set new industry standards for eco-friendly practices.”



About PTC Industries:

PTC Industries Limited is a leading Indian manufacturer of precision metal components for critical applications for over 60 years. Through its wholly owned subsidiary Aerolloy Technologies Limited, the company is manufacturing and supplying Titanium and Superalloy castings for Aerospace and Defence applications within India as well as for exports. The company is substantially expanding its Aerospace castings capability by making a multi-million-dollar investment in a new state-of-the-art manufacturing facility at the newly acquired 50 acres land in the Lucknow node of the Uttar Pradesh Defence Industrial Corridor. This facility will be a fully vertically integrated with a Titanium and Superalloy Mill, producing aerospace grade ingots, billets, bars, plates and sheets in these critical and strategic materials.

For more information, please contact:

PTC Industries Limited

Smita Agarwal, Director & CFO

www.ptcil.com

Ernst & Young LLP

Vikash Verma / Abhishek Bhatt

vikash.verma1@in.ey.com / abhishek.bhatt3@in.ey.com

DISCLAIMER:

Certain statements in this document that are not historical facts are forward-looking statements. Such forward-looking statements are subject to certain risks and uncertainties like government actions, local, political, or economic developments, industry risks, and many other factors that could cause actual results to differ materially from those contemplated by the relevant forward-looking statements. PTC Industries will not be responsible for any action taken based on such statements and undertakes no obligation to publicly update these forward-looking statements to reflect subsequent events or circumstances.

