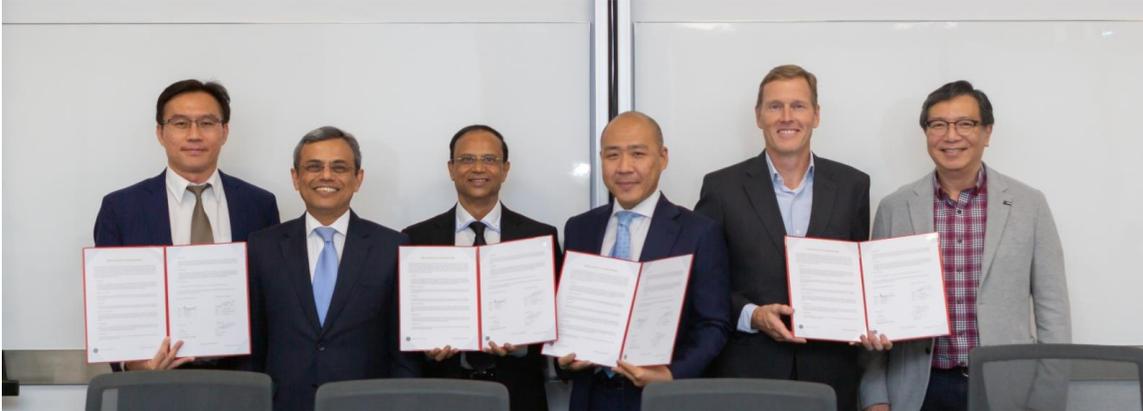


## **BRALCO SIGNS MEMORANDUM OF UNDERSTANDING WITH GE ADDITIVE TO ACCELERATE PRODUCT DEVELOPMENT AND MANUFACTURING PROCESS OF 3D PRINTED SOFT AND HARD MAGNETS IN THE ASIA PACIFIC REGION**



From Left to Right: Dr Ho Chaw Sing, Managing Director of NAMIC, H.E. Mr. Jawed Ashraf, High Commissioner of India, Mr. Amit Nanavati, Founder of Bralco, Mr. Czek Haan, General Manager of GE Additive, Mr. Wouter Van Werch, GGO of GE and Mr Francis Chan, Trade Commissioner of Canada.

*July 4, 2019 Singapore*

Research, product development and commercialization company Bralco Advanced Materials Pte. Ltd., a Singapore based technology company in the metal additive manufacturing (often referred to as 3D Printing) field, has signed a Memorandum of Understanding (MOU) with GE Additive for the development of 3D printed magnetic components – often used in leading edge applications in the aerospace, medical, automotive, energy sectors, in industrial automation and the robotics industry.

The MOU aims to progress 3D printing of magnetic components in the Asia Pacific region.

Bralco's strength in magnetic materials combined with GE Additive's expertise in powder manufacturing and additive machine technology will enable Bralco to accelerate the development of soft and hard magnets and components that have complex shapes, differentiated magnetic fields, high mechanical strength, be capable of operating at elevated temperatures, high frequencies and high torque conditions - making them ideally suited for demanding applications, such as the traction motors of electric vehicles.

The MoU contemplates Bralco being given access to GE Additive's AddWorks engineering consultancy team and its materials division, AP&C. This would enable Bralco to shorten the product development and commercialization cycle. The MoU also contemplates the potential in the future for the appointment of Bralco as a service provider in the Asia Pacific region to print parts and components, using GE Additive machines and powders and based on Bralco's magnetic materials compositions.

Says Mr. Amit Nanavati, Founder & CEO, Bralco Advanced Materials Pte. Ltd.,

*“Bralco is honored to be working with GE Additive in this very exciting space of digital industry 4.0. This collaboration is a major milestone for us, coming at a time when the demand for soft and hard magnets is growing rapidly due to their use in every aspect of modern life be it health care, mobility, personal communication devices, renewable energy or robotics.”*

*“Moreover, the adoption of additive manufacturing technology will save millions of dollars in material cost due to the additive nature of this technology compared to the traditional manufacturing processes.”*

*“We are very excited to set up our first R&D Lab and Product Innovation Centre in Singapore, fully equipped with GE Additive machine and a state-of-the-art powder and built parts testing and characterization lab.”*

*“We hope these steps will add to the growing importance of Singapore as a global center for the additive manufacturing industry and as one of the most attractive locations to set up a high tech R&D facility – an achievement largely due to the vision of the Singapore government in early adoption of Industry 4.0 and Additive Manufacturing and the untiring efforts of its nodal agencies National Additive Manufacturing Innovation Cluster (NAMIC), Enterprise Singapore (ESG) and Enterprise Development Board (EDB).”*

*“We, at Bralco, are very excited to be right at the front of this leap into the digital future. We look forward to exploring groundbreaking discoveries through our work with GE Additive in this next chapter of our journey.”*

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