

PLUSS gets European patent for precise temperature-controlled box

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To transport vaccines and perishable commodities at a specific temperature range



PLUSS Advanced Technology (PLUSS), a material solutions company based in Gurugram, has announced that it has been granted patent by European Patent Office, Germany for its 'Celsure' box designed and manufactured using the proprietary Phase Change Material (PCM) technology, to transport vaccines and perishable commodities at a specific temperature range.

The patent was granted to the innovative method of arranging PCMs which leads to precise temperature control in varying ambient conditions and increases operational efficiencies for the end user. The patent has also been applied in the US, Singapore, Brazil and India. PLUSS expects these patents to be granted soon as well.

"The technology is already commercialised and is used by various multinational pharmaceutical and logistics companies in India. We are in conversations with COVID-19 vaccine distribution stakeholders to make our products available across the country. The latest MoU being with Spice Jet" said Samit Jain, MD, PLUSS.

Celsure is a simple box-in-box transport solution developed by the R&D team at PLUSS which uses indigenously developed Phase Change Material (PCM) that will maintain the right temperature from a few hours to a few days to ensure that vaccines retain their potency. PLUSS has designed nearly 40 different PCM solutions for different temperatures, ranging from -77°C to + 89°C.