



“TDB-DST signs agreement with M/s Gudlyf Mobility to support Indigenous 700 Bar Hydrogen Storage Systems”

“Advancing Aatmanirbhar Bharat in Hydrogen Technologies: TDB-DST Backs Gudlyf Mobility’s High-Pressure Composite Storage Innovation”

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The Technology Development Board (TDB), Department of Science and Technology (DST), Government of India, has signed an agreement with M/s Gudlyf Mobility Private Limited, Madurai, Tamil Nadu, to provide financial assistance for the development and commercialization of indigenous high-pressure hydrogen storage systems based on advanced composite technologies.

Gudlyf Mobility, is a deep-tech startup, engaged in the development of next-generation 700 bar working pressure Composite Overwrapped Pressure Vessels (COPVs). The company has developed proprietary intellectual property in Type IV and Type V composite cylinder technologies, addressing critical challenges in lightweight, high-pressure hydrogen storage—an essential component of the emerging hydrogen economy.

The project supported by TDB aims at establishing an advanced manufacturing facility in Madurai for high-performance composite pressure vessels. The technology will cater to diverse strategic and commercial applications including hydrogen storage for mobility and stationary systems, unmanned aerial vehicles (UAVs), CNG and CBG storage solutions, and defence and aerospace applications. The initiative is expected to significantly reduce import dependence in high-pressure storage systems and strengthen domestic manufacturing capabilities in advanced composites.

Speaking on the occasion, **Sh. Rajesh Kumar Pathak, Secretary, TDB**, stated, *“Hydrogen is central to India’s long-term clean energy and decarbonisation strategy. Supporting indigenous high-pressure storage technologies is critical to building a resilient hydrogen value chain within the country. TDB’s assistance to Gudlyf Mobility reflects our continued commitment to enabling commercialization of strategic deep-tech innovations that strengthen India’s energy security and advanced manufacturing ecosystem.”*

Founders, Gudlyf Mobility Private Limited, said, *“We are honoured to receive the support of the Technology Development Board. This partnership provides strong validation of our indigenous composite pressure vessel technology and our vision to build globally competitive hydrogen storage solutions from India. With TDB’s support, we aim to scale advanced manufacturing capabilities in Madurai and contribute meaningfully to India’s clean energy transition and strategic sectors such as defence and aerospace.”*



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