Private E-Sevai Center
CSC Center
STAR RAINBOW SERVICES
VADAPALANI
8144337349

HELLO MADRAS
hellomadrasdaily@gmail.com
HELLO MIRROR MADRAS
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Leep Flow Energies (LFE) Bets Big on India's BESS Market with ₹100-Crore Vanadium Flow Battery Plant in Tamil Nadu

CHENNAI – 28 Nov, 2026 Leep Flow Energies (LFE), a Hosur-based clean energy company, has signed a Memorandum of Understanding (MoU) with Guidance Tamil Nadu to establish a ₹100 crore vanadium flow battery manufacturing facility at SIPCOT Gummidipoondi in Tiruvallur district. The MoU was signed in the presence of Tamil Nadu Chief Minister C. Joseph Vijay. K S Ramanujan, Founder & Managing Director of LFE an Alumni of IIT Madras 1980 batch and Deepak Jacob Managing Director and CEO of Guidance Tamil Nadu, exchanged the agreement. The investment will be made over three years and is expected to generate around 150 jobs.

The proposed facility will manufacture vanadium electrolyte, the liquid medium that stores energy in a flow battery, along with complete Battery Energy Storage Systems (BESS). India currently depends on imports for its vanadium electrolyte requirements. LFE has developed its proprietary electrolyte formulation in collaboration with scientists at IIT-Madras under a programme supported by the Department of Science and Technology (DST), Government of India. The new facility will bring electrolyte production and battery system manufacturing under one roof, creating an indigenous supply chain for long-duration energy storage.

LFE has already demonstrated its technology through a



solar-powered vanadium flow battery system at its Hosur facility, which has been operational for more than a year. The company plans to supply 100 MWh of storage projects in its first year and scale up to an annual manufacturing capacity of 1 GWh by the third year. Its target markets include renewable energy developers, industries, real estate projects, warehouses and rural microgrids, where reliable electricity supply and extended storage duration are increasingly relevant.