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Milestone for Isro's cryo engine

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BENGALURU: The Indian Space Research Organisation (Isro) said it has successfully conducted a hot test of its semi-cryogenic engine power head at 88% of its target thrust, marking a key milestone in the development of a new propulsion system.

The test, carried out on June 24 at the Isro Propulsion Complex in Tamil Nadu, demonstrated stable operation of the engine's power head at a thrust level of 175 tons, the Indian space agency said in a state-

ment.

The successful trial followed earlier tests at 47% and 60% thrust, Isro said, adding the latest achievement will provide "sufficient confidence" to proceed with a full-thrust demonstration at 200 tons.

The semi-cryogenic propulsion stage is being developed to replace the L110 core stage on India's LVM3 launch vehicle. Powered by the 2,000-kilonewton SE2000 engine, the upgrade is expected to boost payload capacity and improve operational efficiency and would use liquid oxygen and kerosene-based fuel.



Isro demonstrated successful hot test of the Semi-Cryogenic Engine Power Head Test Article in Tamil Nadu. 1580