

## ISRO TESTS VIKAS ENGINE



### Issue

A long duration hot test on liquid propellant Vikas engine was conducted by Indian Space and Research Organisation (ISRO).

### Background

The Vikas engine is central to future space plans of India. The engine will be used in launching the first manned space mission of India, Gaganyaan.

### Details

- The GSLV MkIII vehicle will be used to ferry Gaganyaan. The test was conducted for the core L110 liquid stage of Vikas engine.
- It was taken up in ISRO Propulsion Complex (IPRC) of Tamil Nadu. The engine managed to stay fired for about 240 seconds of the test.
- The working of the engine was in line with conceptual parameters. It managed to reach the qualification mark required for Gaganyaan mission.

### Vikas engine

- The Liquid Propulsion Systems Centre of ISRO has developed Vikas engine for spacecrafts. The design was borrowed from Viking engine.
- The engine is used in both PSLV and GSLV rockets that are needed for carrying out space mission of the agency.
- Nitrogen tetroxide is the oxidizer used in the engine whereas Unsymmetrical dimethylhydrazine (UDMH) is the fuel that is used.

### Gaganyaan mission

Gaganyaan is India's first indigenous manned space mission. It involves sending three humans to low-earth orbit on an Indian vehicle and later landing them back on Earth.

NOTES

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