SPACE TRANSPORTATION SOLUTIONS AND INNOVATIONS (D2)
Launch services, Missions, Operations and Facilities (2)

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SATISH DHAWAN SPACE CENTRE - A SPACE PORT FOR MULTI MISSION LAUNCH CAPABILITIES

Abstract

Satish Dhawan Space Centre (SDSC) is the space port of Indian Space Research Organisation. The facilities are built and operated with success to launch Polar Satellite Launch vehicle (PSLV) and Geosynchronous launch vehicles (GSLV). The success of Chandrayaan-1 launched from this Space Port has set the trend for inter planetary missions from the launch complex. Satellite Recovery Experiment (SRE-1) is the beginning of plan, launch and recovery of re-entry vehicles. Thus the space port has established its name for capabilities to launch Sun Synchronous, geo synchronous, re-entry and interplanetary missions.

The space centre has got facilities for simultaneous preparation of satellites for national and international customers. The addition of new Mission Control Centre (MCC) and Launch Control Centre (LCC) along with new Real Time Systems enhances its capability for handling multiple missions simultaneously. The centre has established its proficiency in integration, liquid and cryo propellant servicing with stringent safety and quality norms. A well instrumented space metrology is also part of the Ground facilities. ISRO has also set up number of launch base tracking radars, telemetry and telecommand network within land and down the range to cover different mission trajectories during launch. The logistic facilities in the centre are one of its kind to satisfy all participants in the launch.

With two operating launch pads and the third one under planning will certainly improve further its reputation internationally and also meet the all ISRO future programs.