

EARTH OBSERVATION SYMPOSIUM (B1)
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NEMO-AM: A HIGH PERFORMANCE NANOSATELLITE FOR AUTONOMOUS AEROSOL
MONITORING

Abstract

The Nanosatellite for Earth Monitoring and Observation Aerosol Monitor (NEMO-AM) is a high performance multispectral Earth observation nanosatellite currently under development at the University of Toronto Institute for Aerospace Studies Space Flight Laboratory (SFL) for the Indian Space Research Organization (ISRO). Its primary goal is to detect aerosols over geographic regions across the Earth. A number of interdependent subsystems must work in unison to execute this overall mission objective. The structure is built using advanced lightweight materials which allow a payload allocation of 35