

Development of solid propellant technology in India

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Abstract. Space research in India started in 1962 when a two-stage rocket was launched from Thumba on 23 November 1962. On the same evening passing away of Dr. Vikram Sarabhai, the originator of the Indian space programme, P. V. Sathya Narayan became the second chairman of ISRO. His stewardship was a through to working facilities for the launching of several M & D rockets and growth of several other centres. Major breakthroughs in many segments were made since during this period. High energy composite solid propellants were developed, characterised and produced at the Vikram Sarabhai Space Centre and at the Belgaum Space Centre. Events had taken place in 1967, 1970 and 1971 that these propellants were also developed in situ as part of the indigenous programme. The Satellite Launch Vehicle (SLV-3) conceived at the early initiation, was fitted with four stage motor filled with solid propellant made in situ in our plants. These facilities, including critical process equipment, have come up as a result of ISRO's indigenous efforts. The Solid Rocket Motor (SRM) facilities have been equipped to produce large propellant grains to meet the needs of the Polar Satellite Launch Vehicle (PSLV).

Keywords. Solid propellant; energy-based propellant; rocket motor; propellant burner.

India took her first step into the space age in 1962, when the Government of India entrusted the study of the subject of space research and practical applications of space space to the Department of Atomic Energy (DAE). Not long, but within the Indian National Committee on Space Research (INCOSPAR) to organise the space programme. On 23 November 1962 a 11-stage PSLV-A rocket was successfully launched from Thumba and the Thumba Experimental Rocket Launching Station (TERLS) became operational, thereby heralding the dawn of the Indian Space Programme. The Indian Space Research Organisation (ISRO) came into being in 1969. In 1972 the Government of India set up the Space Commission and joined the Department of Space with full under its purview.

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