



Launch Service Requisition

Understanding Launch Demand



NewSpace India Limited [NSIL]

(A CPSE under Department of Space, Government of India)

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Introduction

NewSpace India Limited (NSIL) is a CPSE under the Department of Space (DoS) and the commercial arm of India Space Research Organisation (ISRO) is responsible for carrying out end-to-end commercial space business on a demand driven approach and has the mandate to enhance the participation of Indian Industries in space related activities. As on date, NSIL has successfully launched of 124 International and 3 Indian customer satellites on-board PSLV, LVM3 and SSLV since inception.

Being the commercial arm of Indian Space Research Organisation (ISRO), NSIL in addition to carrying out End-to-End commercial space business is also enabling participation of Indian industries in space related activities. As part of “Unlocking India’s potential in Space Sector”, Government of India announced Space Sector Reforms during June 2020.

As part of its mandate, NSIL is building Launch Vehicles with the help of the Indian industry and is taking up launches of PSLV, SSLV and LVM3 on demand basis.

2. Purpose

Since all the upcoming launches are Demand driven, NSIL is creating this requisition form to understand the demand for the coming 5 years (*i.e.*, till 2030).

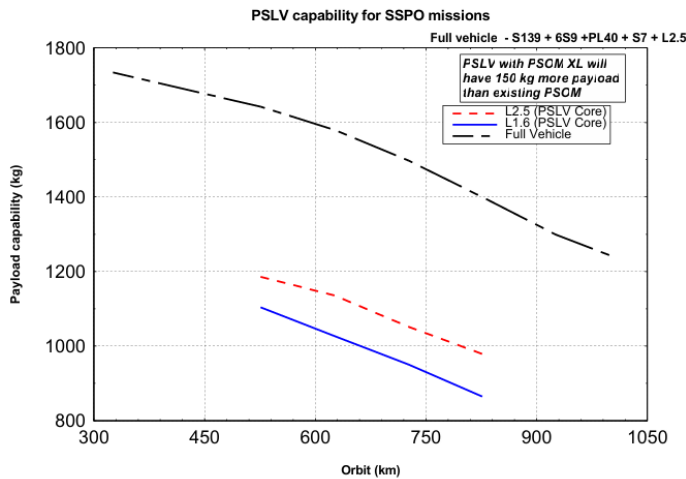
3. Services provided by NSIL

3.1 Launch Services

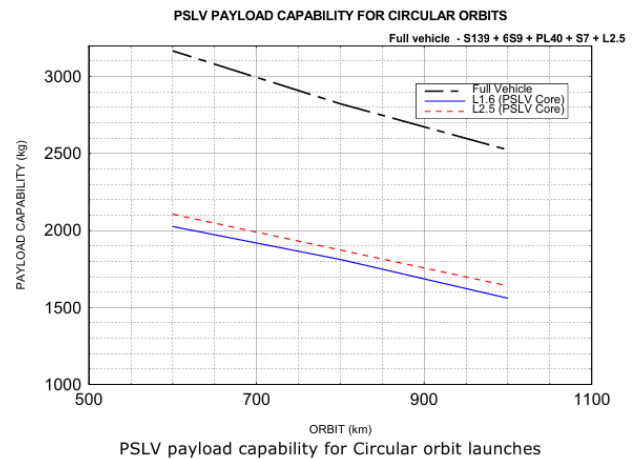
NSIL has different class of launch vehicles to cater satellites of different category. It offers either dedicated launch or rideshare launch. Till date NSIL has launched 124 International and 3 Indian customer satellites on-board PSLV, LVM3 and SSLV.

3.1.1 PSLV (Polar Satellite Launch Vehicle)

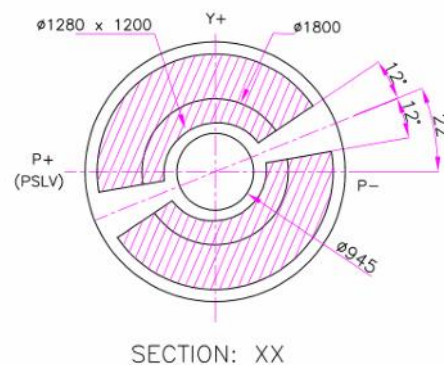
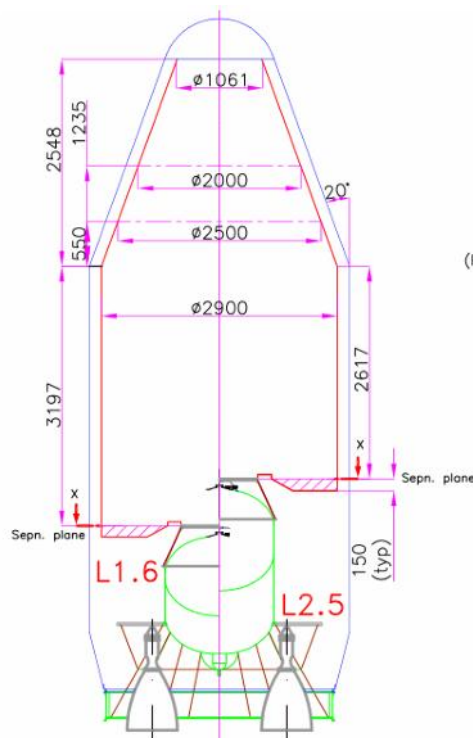
- is the workhorse vehicle of ISRO with 60 successful flights.
- is a versatile launcher with capabilities to launch in various inclinations from near equatorial to sub-GTO.
- demonstrated launch of multiple satellites in a single mission using various adapters. (Ex:104 satellites in PSLV-C37)
- 3.2m payload fairing
- payload capability of 1700+ kg to 500km orbit



PSLV payload capability for SSO launches



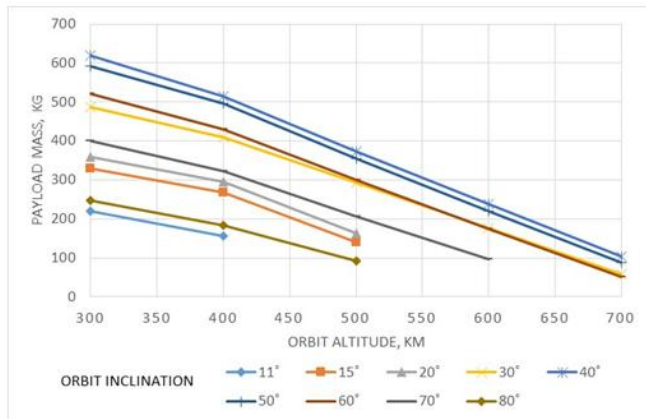
PSLV payload capability for Circular orbit launches



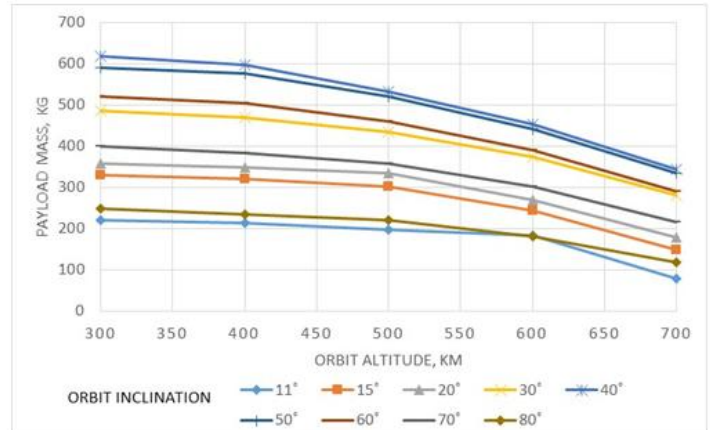
PSLV Satellite Accommodation in PLF

3.1.2 SSLV (Small Satellite Launch Vehicle)

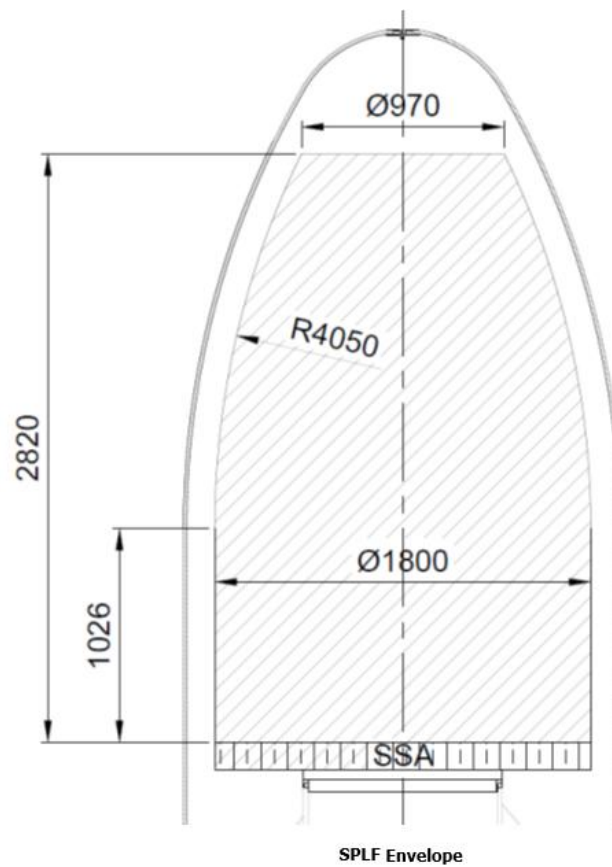
- is a Launch On-Demand vehicle
- can launch from 11 deg to 90 deg inclination. Best performance is for mid-inclination (30-50 deg) launches from current launch pad at SDSC-SHAR. SSO launches from upcoming launch-pad in 2027
- Completed the development program with 2 successful flights.
- 2m payload fairing
- payload capability of up to 500kg to 500km.



Mission parameters from SHAR through direct ascent

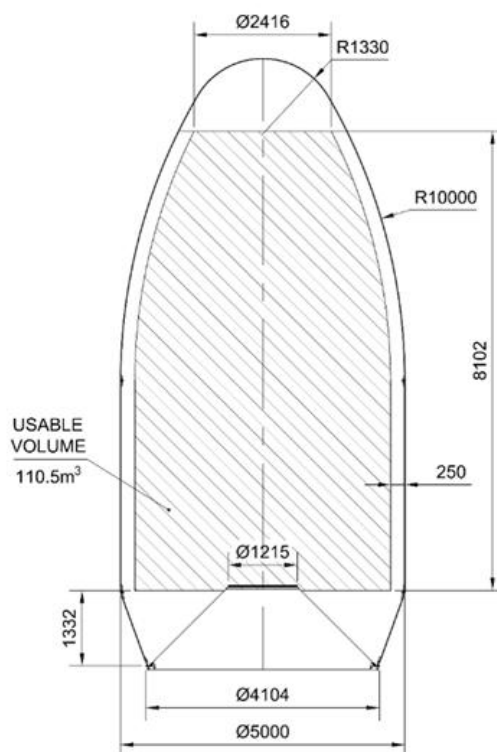
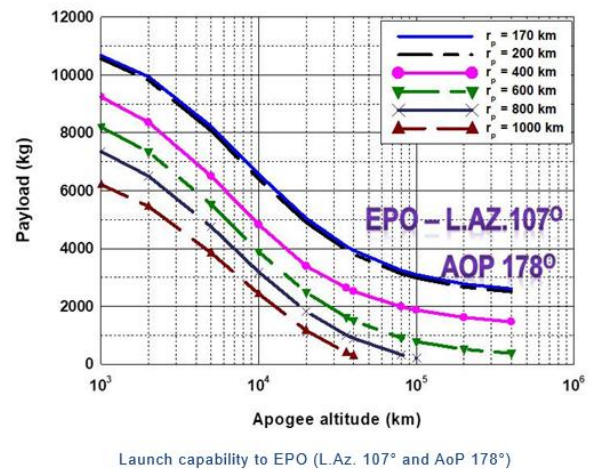
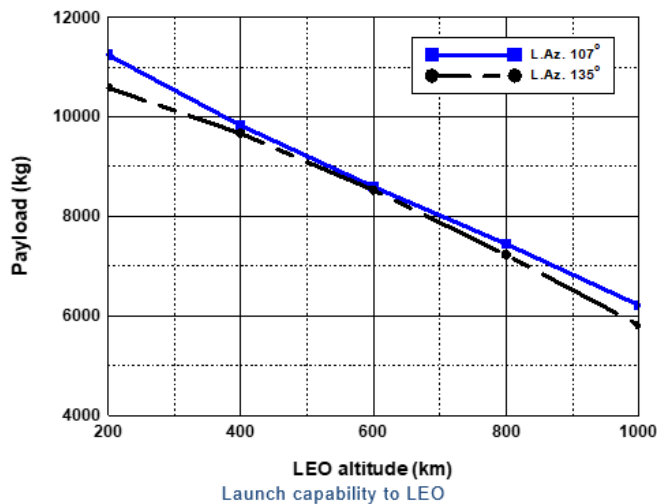


Mission parameters from SHAR through EPO route

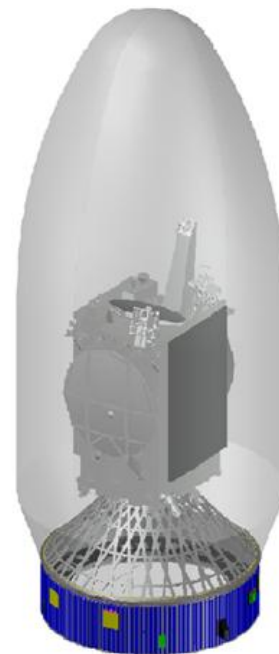


3.1.3 LVM3 (Launch Vehicle Mark-III)

- is heavy lift launcher of ISRO
- demonstrated launch of satellite constellations to LEO
- capable for C3 positive orbits and TLI
- 5m payload fairing
- payload capability of about 5000kg to GTO



Payload usable volume

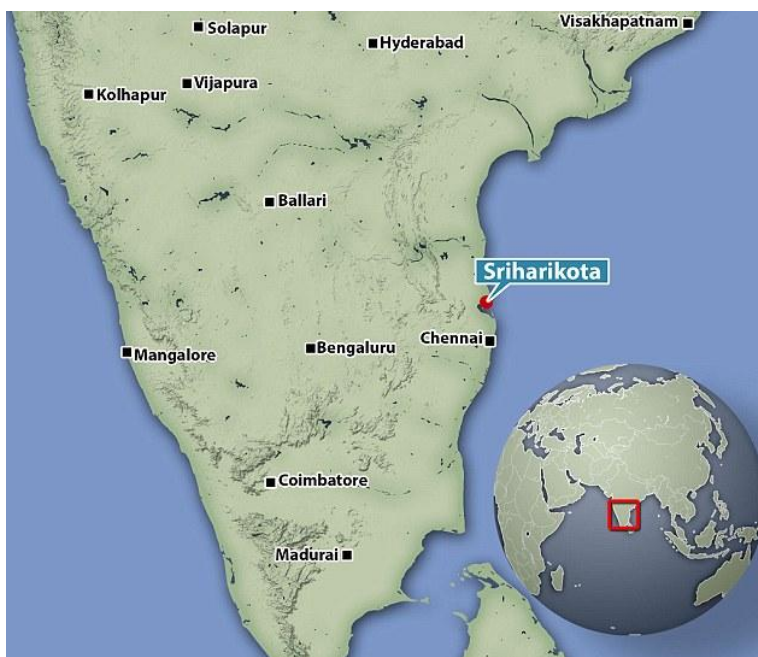


Spacecraft shown for schematic

3.1.4 Launch Base

All launches take place from ISRO launch base- Satish Dhawan Space Center in Sriharikota (SDSC, SHAR) located on the east coast of India. The final preparations of the vehicle and Spacecraft, integration, checkout and launching are carried out in this Centre. Necessary launch support facilities are provided by SHAR Range for the vehicle and Spacecraft. The geodetic longitude and latitude of SHAR range are: 13.7178°N 80.2000°E.

SHAR is well connected by rail and road to the nearest international airport at Chennai, which is approximately 100 Km south of SHAR. Spacecraft transportation shall be by road in a suitable container by customer and transportation trailer will be provided by NSIL.



Sriharikota Launch bases

3.1.4 Satellite Preparation facilities

100,000 class clean room facility with 20-22°C temperature and 50±5% RH

3.1.5 Customs and Logistics

NSIL supports international customers in Customs clearance procedure. Spacecraft is received at Chennai Airport/Port. NSIL supports the transportation of satellite from Chennai airport/port to SHAR in the appropriate trailer.

SHAR Range is located in the Sriharikota island which houses the Launch Complex, tracking facilities, mission control centre and living accommodation for the operating and supporting staff. A well-furnished guest house and hostel with all modern amenities like air-conditioning, telephone, running hot water cater to requirements of visitors including customers. Access to international telephone and telex/fax services shall be provided to customers.

The temperature at SHAR varies between 25° C to 40° C during the year with humidity ranging from 75% to 90%. The satellite cooling air system at the Launchpad maintains the spacecraft ambient temperature within the Payload Fairing at 20-25°C and 50±5% RH.

3.2 Separation system for Satellites

NSIL offers standard satellite dispenser/ separation system like

- 1U, 2U, 3U Cubesat dispensers
- IWL150 for 10kg class, IBL230/IBL298/IBL358 separation systems.
(IWL: ISRO's Wedge Lock; IBL: ISRO's Ball Lock)
- 937 PCD and 1194 PCD clamp band separation systems

Based on the customer requirement, special adapters shall be designed and realized by NSIL/ISRO to interface the spacecraft dispenser or adapter.

3.3 Fueling for Spacecraft

NSIL shall provide satellite fuel and fueling support including fuelling cart and standard gases like N₂, He etc., as per the customer requirement.

3.4 Satellite Tracking services

- End to End Ground Segment Solutions for Communication and Earth Observation Satellites
- Technical consultancy services for Startups, Satellite and Launch Vehicle operators
- Highly reliable TTC support for LEO
- MEO/GEO & Deep Space missions
- Launch and Early Orbit Phase (LEOP) mission operations for Launch Vehicles and Satellites
- Transfer Orbit Support Service (TOSS) for Geo synchronous satellite missions
- In Orbit Test (IOT) services

4. Submission of Requisition guidelines.

- The requisition form is open for all the domestic and international customers.

- Customers may request for Ride-share or Dedicated mission based on the requirements or number of satellites
- The details for the requisition may be filled in the form below:
 - [Request form](#)

Contact Information

For any inquiries/clarifications related to Launch Opportunity, please contact:

NewSpace India Limited (NSIL)

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