



PSLV-C46/ RISAT-2B MISSION

Launch Kit

INDIAN SPACE RESEARCH ORGANISATION

इसरो ISRO
SDSC SHAR SRIHARIKOTA

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PSLV-C46/RISAT-2B MISSION

MISSION DESCRIPTION

India's Polar Satellite Launch Vehicle (PSLV), in its 48th mission (PSLV-C46), will launch RISAT-2B, a Radar imaging earth observation satellite, from Satish Dhawan Space Centre (SDSC) SHAR, Sriharikota.

PSLV-C46 Mission Specifications

Payload	RISAT-2B
Orbit height	557 km
Inclination (deg)	37
Launch Pad	First Launch Pad (FLP)
Launch Azimuth (deg)	140

MILESTONES



72nd
Launch Vehicle
Mission
from SDSC
SHAR



48th
Flight of
PSLV



36th
Launch from
First Launch
Pad

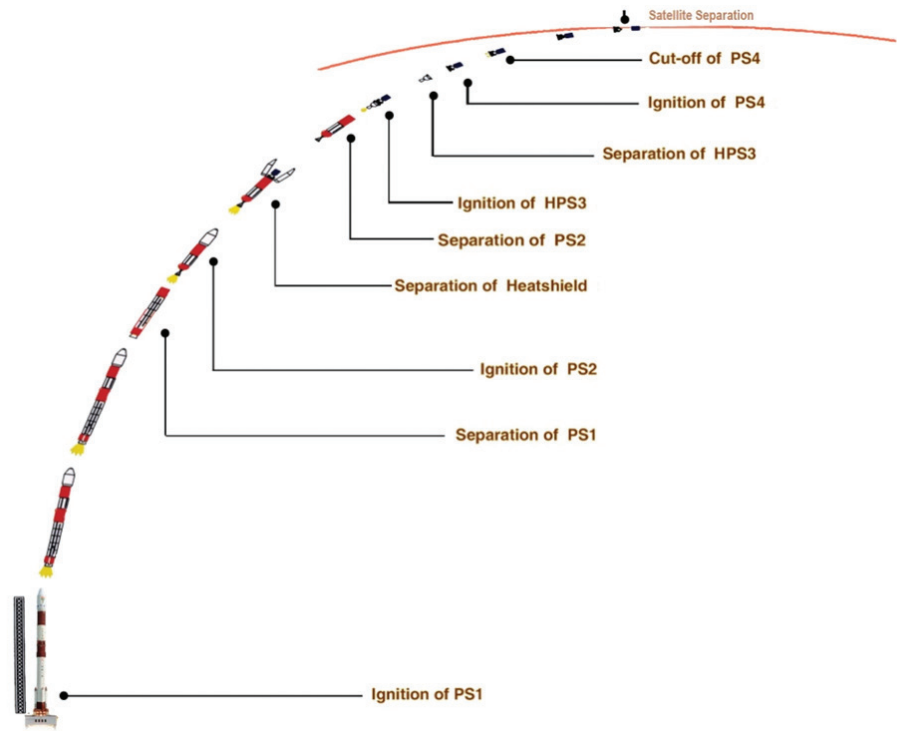


14th
Flight of
PSLV
Core-Alone



3rd
Launch of
2019

PSLV-C46 FLIGHT SEQUENCE



Flight Events	Time after-liftoff	Altitude (km)	Velocity (m/s)
PS1 Ignition	0	0.026	451.89
PS1 Separation	1 min 50.60 s	51.853	1594.79
PS2 Ignition	1 min 50.80 s	52.049	1593.77
Payload Fairing Separation	2 min 57.60 s	113.489	2252.26
PS2 Separation	4 min 22.44 s	188.740	4324.80
PS3 Ignition	4 min 23.64 s	189.819	4322.49
PS3 Separation	9 min 23.72 s	438.533	6943.22
PS4 Ignition	9 min 34.12 s	445.897	6934.12
PS4 Cut-off	14 min 42.42 s	558.597	7577.05
RISAT-2B Separation	15 min 29.42 s	558.902	7580.81

PSLV-C46/RISAT-2B MISSION

PSLV-C46

RISAT-2B

Mass: 615kg

Third Stage (HPS3)

Height: 3.6 m
Diameter: 2 m
Propellant: HTPB
Propellant Mass: 7.65 t

First Stage (PS1)

Height: 20 m
Diameter: 2.8 m
Propellant: HTPB
Propellant Mass: 139 t

Payload Fairing

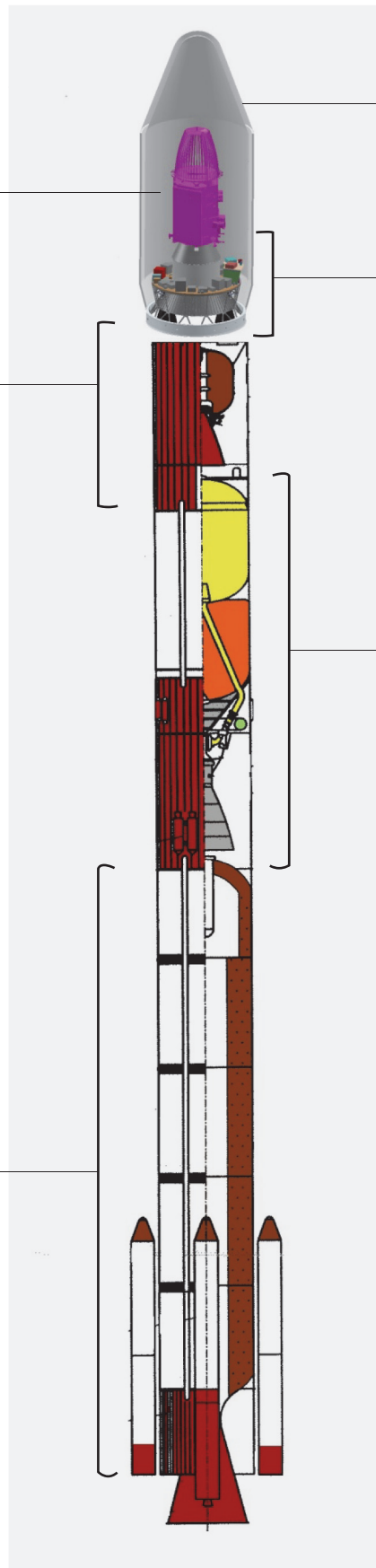
Fourth Stage (PS4)

Height: 3.0m
Diameter: 1.34m
Propellant: MMH & MON 3
Propellant Mass: 1.6t

Second Stage (PS2)

Height: 12.8m
Diameter: 2.8 m
Propellant: UH25 & N2O4
Propellant Mass: 41t

Height: 44.4 m



RISAT-2B

RISAT-2B is a radar imaging earth observation satellite developed by ISRO.

SALIENT FEATURES OF RISAT-2B

Lift-off weight	615 kg
Altitude	557 km
Payload	X-Band Radar
Inclination	37 deg
Mission Life	5 years

Applications

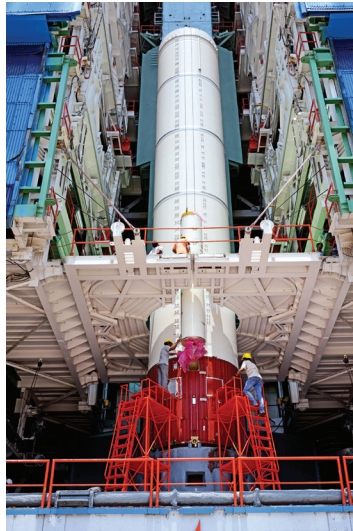
- **Agriculture**
- **Forestry**
- **Disaster Management Support**

PSLV-C46/RISAT-2B MISSION

GLIMPSES



Hoisting of the nozzle end segment of PSLV-C46 first stage over the launch pedestal



PSLV-C46 integration under progress at Mobile Service Tower



Placement of interstage over PSLV-C46 first stage during vehicle integration



Hoisting of PSLV-C46 Liquid second stage



PSLV-C46 Third and Fourth stages at Stage preparation Facility



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