



## NEXT GENERATION LAUNCH VEHICLE : SCIENCE & TECHNOLOGY

**NEWS:** New Re-usable Low-cost launch vehicle for Bharat

### WHAT'S IN THE NEWS ?

ISRO to develop launch vehicle with high payload, cost effective, reusable, and commercially viable

### Next Generation Launch Vehicle (NGLV):

- **Payload Capacity:** Can carry 30 tonnes to Low Earth Orbit (LEO), triple the current capacity.
- **Cost Efficiency:** 1.5 times more cost-effective than LVM3.
- **Reusability:** Features a reusable first stage, lowering mission costs.
- **Modular Propulsion:** Uses modular green propulsion for better efficiency and sustainability.
- **Development Timeline:** 96 months (8 years) with three developmental flights (D1, D2, D3).
- **Budget:** Rs. 8,240 crore for development, testing, and infrastructure.
- **Mission Support:** Designed for national and commercial missions, including human spaceflight and lunar exploration.
- **Industry Involvement:** Promotes participation from Indian industry for smooth project transition.

**Cabinet Decisions**  
18<sup>th</sup> September 2024

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### The Future of Space Travel

#### Next Generation Launch Vehicle (NGLV)

New Re-usable Low-cost launch vehicle for Bharat

3X the present payload capability at 1.5X cost & also have reusability

Total fund approved is ₹8240 Crore

Enable national & commercial missions like Human spaceflight missions to Bharatiya Antariksh Station



Source : <https://pib.gov.in/PressReleaseDetail.aspx?PRID=2055979>