

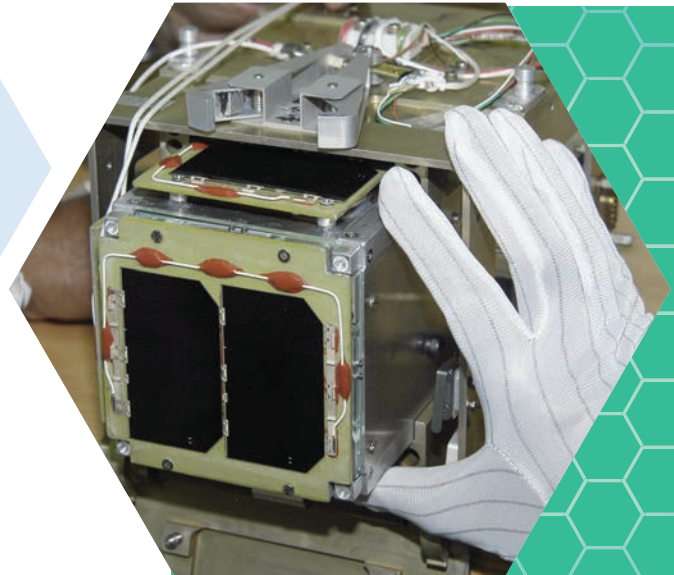
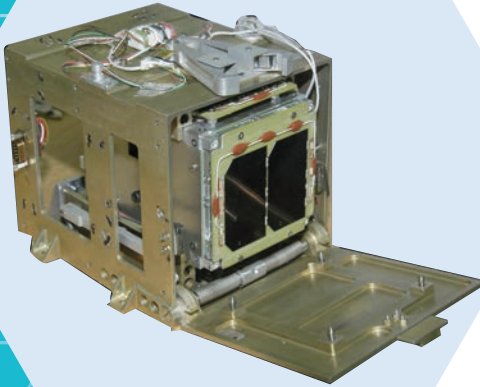
## Payload Separation Mechanisms

For details contact:  
Antrix Corporation Limited  
Bangalore-560094, India.  
[mail@antrix.gov.in](mailto:mail@antrix.gov.in); [rajiv@antrix.gov.in](mailto:rajiv@antrix.gov.in)



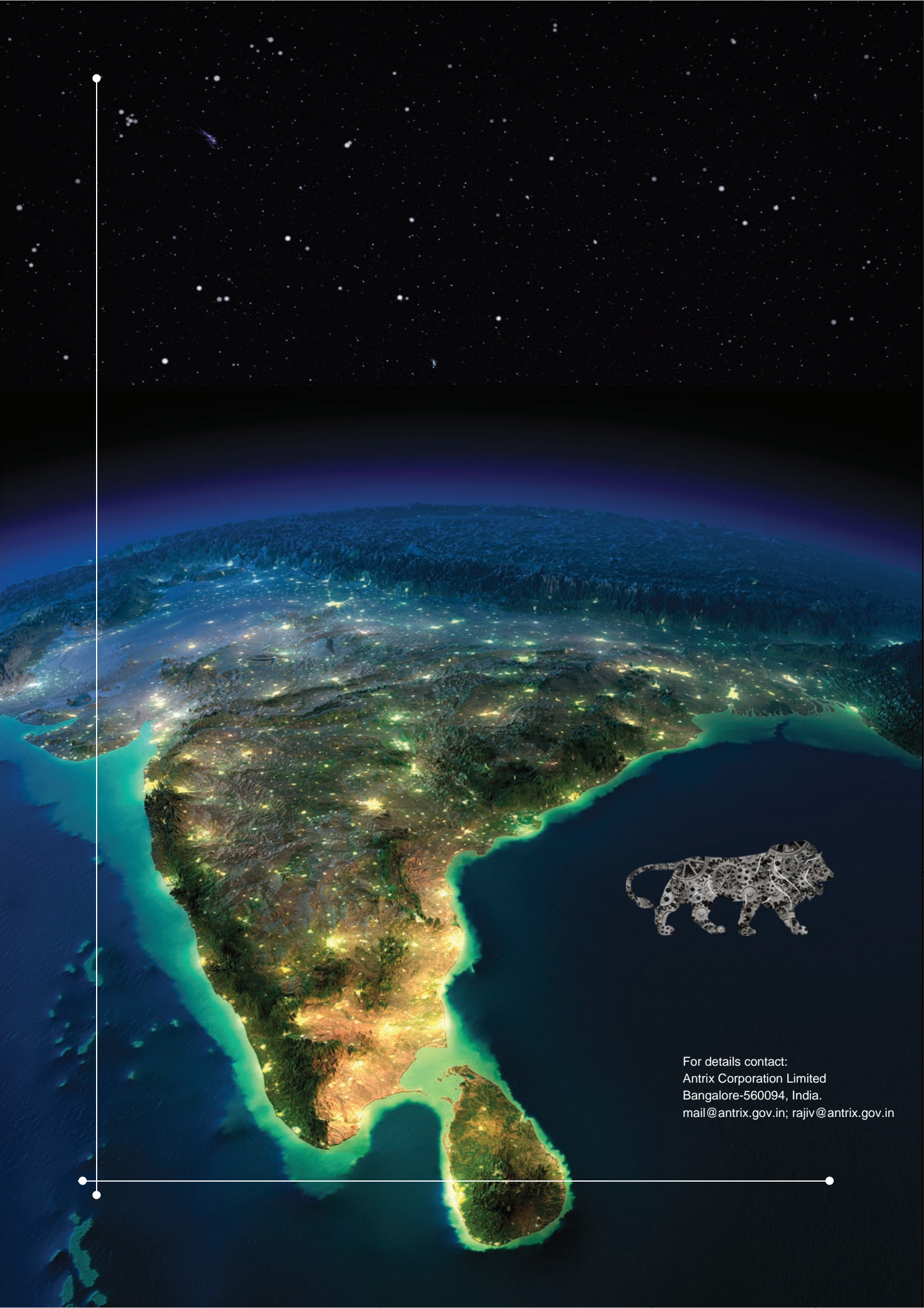
## INLS 1U

- Non-pyro dispenser for 1kg class Nano satellites.
- Satellite is kept inside a rectangular structure and locked by a swinging door.
- Redundant heating element for wire fusing mechanism to initiate the separation and helical spring to jettison the satellite.
- Micro Switches to monitor the door opening and reed switch to confirm satellite ejection.



- No mass attached with satellite after separation
- Satellite size: 100 mm x 100 mm x 113.5 mm
- Relative velocity : 1 m/s
- Satellite guided inside the system to reduce the tip off rates
- Operating temperature & Vacuum : 0°C to +60°C, < 10<sup>-5</sup> torr
- Power Supply: Current: 4 <sup>±0.2</sup> Amp  
Voltage: 2.4V  
Separation time: 5 sec

**Flight Heritage : Successfully deployed in PSLV C15 and in PSLV C34**



For details contact:  
Antrix Corporation Limited  
Bangalore-560094, India.  
[mail@antrix.gov.in](mailto:mail@antrix.gov.in); [rajiv@antrix.gov.in](mailto:rajiv@antrix.gov.in)