

Lander Payloads



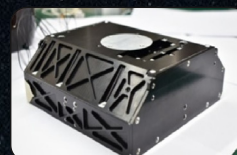
RAMBHA-LP **Langmuir Probe**

To measure the near surface plasma (ions and electrons) density and its changes with time.



ChaSTE **Chandra's Surface Thermo-physical Experiment**

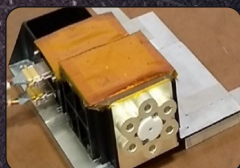
To carry out the measurements of thermal properties of lunar surface near polar region.



ILSA **Instrument for Lunar Seismic Activity**

To measure seismicity around the landing site and delineating the structure of the lunar crust and mantle.

Rover Payloads



APXS **Alpha Particle X-Ray Spectrometer**

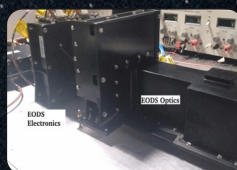
To derive the chemical composition and infer mineralogical composition to further enhance our understanding of lunar surface.



LIBS **Laser Induced Breakdown Spectroscopy Spectroscopy**

To determine the elemental composition (Mg, Al, Si, K, Ca, Ti, Fe) of lunar soil and rocks around the lunar landing site.

Propulsion Module Payload



SHAPE **Spectro-polarimetry of Habitable Planet Earth**

An experimental payload to study the spectro-polarimetric signatures of the habitable planet Earth in the near-infrared (NIR) wavelength range (1-1.7 μm).