## Mangalyaan: India's maiden mission to Mars Mangalyaan, also known as Mars Orbiter Mission (MOM), is India's first interplanetary expedition, designed to study the red planet and serve as a technology demonstrator for future missions MISSION TIMELINE **Orbital period:** Mars 3.2 days 1 Following launch, spacecraft circles Earth for four weeks. firing its engines six times to gradually boost its orbit Earth 3 Enters Mars orbit for 160-day mission Medium-gain antenna 2 Seventh engine burn puts craft on trajectory for Mars. Voyage takes 300 days MANGALYAAN SPACECRAFT Solar panels Fuel C25 tank High-gain antenna **PSLV-XL** (Polar Satellite Launch Vehicle-XL) N Height: 44.5m D Mission cost: ī 4.5bn rupees Science CHINA Α (\$70m) instruments New Delhi Lyman Alpha Photometer (LAP) INDIA ► Thermal Infrared Imaging Mumbai Spectrometer (TIS) Bay of Mars Colour Camera (MCC) Bengal Methane Sensor for Mars (MSM) Sriharikota / Martian Exospheric Neutral Launch site Composition Analyzer (MENCA) Source: Indian Space Research Organisation (ISRO) © GRAPHIC NEWS