

## ROSETTA AND PHILAE

*Aravinth R*

*Technical Trainee at Wings of Aero*

### Abstract:

The Rosetta is a comet orbiting spacecraft that includes a lander It's called Philae. The space probe was built by the ESA and launched on March 2, 2004.

This satellite was used to study 67P/Churyumov-Gerasimenko.

This article explains the features and mission of the Rosetta and Philae.

### Rosetta:



Courtesy: ESA

This space probe was launched by Ariane 5 rocket at Guiana space center in Kourou. It was the first

spacecraft to orbit the comet. This spacecraft has a lot of instruments to analyze the 67P comet.

Alice:(an ultraviolet imaging spectrograph)

OSIRIS (Optical, Spectroscopic, and Infrared Remote Imaging System).

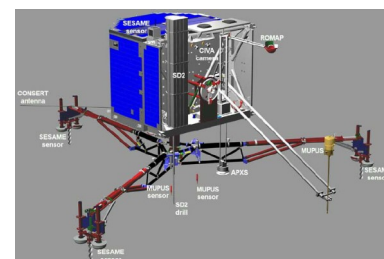
VIRTIS (Visible and Infrared Thermal Imaging Spectrometer).

MIRO (Microwave Instrument for the Rosetta Orbiter).

CONSERT (Comet Nucleus Sounding Experiment by Radiowave Transmission).

RSI (Radio Science Investigation).

### Philae:



Courtesy: ESA

Philae is a robotic lander it was built by ESA. This lander was landed on the surface of 67P Comet. It transmits details about the composition of the comet.

**Conclusion:**

A comet is an astronomical object. Today we learned their secrets through this mission.

T.E.M.S Journal