

Mars Missions

Recently ~~to~~ UAE, launched its Mars mission 'Hope' and became the 1st Gulf country to do so.

Last few years witnessed a series of Mars missions, what special about it is that, non-traditional apart from USA, ESA and Russia are also taking part in the exploration of Mars, major missions of recent years are :-

(i) Perseverance mission of NASA - It is the most ambitious mission of contemporary times. It will consist of a lander and a rover and will have lifetime of one Marsian year.

Objective of the mission is to find habitable conditions on Mars, and microbial life of ancient past. It will also collect rock sample to study them back on earth.

It will take off in 2021.

(ii) Hope mission of UAE :- Recently launched and on-route, Hope mission is 1st interplanetary mission of UAE. It will orbit the Mars for one

marital year to study the season of decay of mass atmosphere in space.

It also consist a high resolution camera and a spectrometer to perform such task.

(iii) Chinese 1st mission on mars - Tianwen - 1. The mission is expected to reach mars by march 2021. It consist of a lander and rover to study topography and geography of mars and composition of surface material, climate change and environment.

(iv) MANGALYAN-2 - In an interview October 2019 ISRO chief K. Sivan gave some clue about the possibility of attaching lander and rover to the 2nd interplanetary mission of India after mangalyan 1 in 2013 which is functioning even today.

Thus, these ongoing mission are going to explore the mars and find the possibility hidden for the future of humanity.