

Scientific Objective and Infrastructure of Space Exploration (1)
Scientific Objective and Infrastructure of Space Exploration (2)

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A NOVEL CONCEPT FOR INCREASING THE AMOUNT OF OXYGEN ON MARS WITH HELP OF
ULTRAVOILET LIGHT

Abstract

The quest for extra-terrestrial life has never been end and the Mars is of the most attractive planet for the search of life. Several mission shows that Martian atmosphere mostly consist of Carbon dioxide still we could not find out is the Mars habitable for the human being or not? This paper presents the new way to explore the Mars and try to make the Martian condition habitable for human being. It is just a roadmap to explore the Mars and decreasing the amount of carbon dioxide and increasing the amount of oxygen with the help of conceptual Rover. The designing of the Rover such that there would be a compartment for ultraviolet light and the compartment for storing carbon dioxide form the Mars. Rover would take the gas from the Martian atmosphere and store it in the compartment after storing ultraviolet light would be fallen on the stored gases and a reaction takes place due to this reaction carbon dioxide split into CO and Oxygen then these split gases would allow to escape from the compartment to the Martian atmosphere. This process would be done at regular interval of time so that the amount of oxygen would be increases. If the mission gets success in increasing the amount of oxygen, future colonies could be established on the red planet called Mars.