LUNAR – I rover

Concept of operation

Concept of the LUNAR – I rover is very easy to understand.

LUNAR – I rover is a lighter un-manned moon research vehicle.

The rover will be designed to do mainly specific task only.

Rover will have a navigation system to follow for the targeted area.

Rover will have a 6-wheel suspension system and a robotic arm connected to rover’s left side.

Ground control can manually control robot movements on suspension system and robotic arm.

Robotic arm will be used for the closeup search about the surface area and collect samples of the water/ice.

Rover will have an advanced camera system to cover 360-angle viewpoint from it. This will guide to understand more facts and landscape.

After the moonship landed on the surface near targeted area of exploration, rover will be deployed.

Then the rover will stop to selected amount of period to re-charge the batteries.

Then it will start the journey to the PSR.

After entering the PSR, rover will automatically detect the brightness of the area using sensors and light will turn-on. (to save energy.)

LPR mapping system will also be start at the same time.

After the rover deployed to moon surface from the moon ship, it will send a signal to ground control centre.

Rover is designed to do the research of maximum of 3-6 months on the surface.

After collecting the samples and enough exploration, rover will come back to moonship and will dock inside.