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		Re	A REV	Do	scription	Eng	Data	Annr	Date	Doc. I.D. Job No.		arship-014 XXXXX	Page 1 of 1	REV. A		
		que	KEV		REVISION HISTOR		Date	Appi	Date	30D NO.		*****	By: GJR	6/11/2021		
REV.	×	Request for Quotation	Title: Starship Module - MSC Science Lab Design Variables need to be defined:													
				Equipment List:												
DATE	×			1. Water	2. Oxygen 3. 0	Carbon Die	oxide		4.	Propella	nt	5. Solar				
ΤF			N	Mars Advanced Science Laboratory. It is possible to envisage more elaborate versions of NASA's planned Mars Science												
ВҮ	×		L n p	aboratory equipped w ear-surface layer. The ower at a level of hun	ith, for example, more of ese capabilities, plus ex dreds of watts or greate	or example, more capable analytic instruments and the ability to drill beneath Mars's thin, hostile apabilities, plus extended range and endurance, are signifi- cantly enhanced by the availability of sof watts or greater from RPSs. A somewhat similar concept, the Astrobiology Field Laboratory, le launch to Mars sometime in the next decade.2										
Ą			has been studied for possible launch to Mars sometime in the next decade.2													
APPR	×															
			NASA - MARS 2020 MISSION - PERSEVERANCE Rover (example: Equipment Package)													
O	×		INASA - INIANS ZUZU INISSIUM - MERSEVERANCE ROVEI (EXAMIDIE: EQUIPMENT MACKAGE)													
FIRM	×		MastCam-Z The MastCam-Z is the name of the mast-mounted camera system that is equipped with a zoom function on the Perseverance rover. MastCam-Z has cameras that can zoom in, focus, and take 3D pictures and video at high speed to allow detailed examination of distant objects.													
			ME	<u>EDIA</u>	The Mars Environmental Dynamics Analyzer is known as MEDA. It makes weather measurements including wind speed and direction, temperature, and humidity, and measures the amount and size of dust particles in the Martian atmosphere.											
			MOXIE - (Oxygen Generation Module) The Mars Oxygen In-Situ Resource Utilization Experiment is better known as MOXIE. NASA is preparing for human exploration of Mars, and MOXIE will demonstrate a way that future explorers might produce oxygen from the Martian atmosphere for propellant and for breathing.													
			PIXL The Planetary Instrument for X-ray Lithochemistry is called PIXL. PIXL has a tool called an X-ray spectrometer. It identifies chemical elements at a tiny scale. PIXL also has a camera that takes super close-up pictures of rock and soil textures. It can see features as small as a grain of salt! Together, this information helps scientists look for signs of past microbial life on Mars.													
			RIMFAX The Radar Imager for Mars' Subsurface Experiment, known as RIMFAX, uses radar waves to probe the ground under the rover.													
		SHERLOC The Scanning Habitable Environments with Raman & Luminescence fo Chemicals has a nickname: SHERLOC. Mounted on the rover's robotic uses spectrometers, a laser, and a camera to search for organics and no been altered by watery environments and may be signs of past microbia.								arm, SHERLO0 ninerals that hav						
			SuperCam The SuperCam on the Perseverance rover examines rocks and soils with a camera, laser and spectrometers to seek organic compounds that could be related to past life on Mars. It can identify the chemical and mineral makeup of targets as small as a pencil point from a distance of more than 20 feet (7 meters).													
			NOTE													
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