Requirement					
Number	Requirement Name	Category	Description	Source(s)	Categories:
			NASA is most interested in system architectures that can deliver at least 10,000 kg	the second second second second	
1	Minimum Ice Delivery	A	(approx. 2,641.7 gallons) of water over the mission duration (1 Earth Year)	https://breaktheicechallenge.com/mission-scenario/	A. Competition
			The system must deliver within the following temperatures: range from 50K to 200K,	the second second second second	
4	Surface Temperatures (Delivery)	L	summer average being 130K and winter 80K	https://breaktheicechallenge.com/mission-scenario/	B. Subsystem (name)
			The system must excavate within the following temperatures: range from 40K to	the second second second second	
-	Surface Temperatures (Excavation)	L .	100K, summer average being 75K and winter 55K	https://breaktneicechailenge.com/mission-scenario/	C. Environmental
4	Permanent Darkness	С	The system must be able to excavate water in total darkness	https://breaktheicechallenge.com/mission-scenario/	D. Regolith/Ice
			The system must be operate while expose to dust particles under 20microns in size at		
-	Dust Resistance	С	all times.	https://breaktheicechallenge.com/mission-scenario/	
			The system must operate within lunar gravity (0.166g) and vacuum (2.28E-12 torr)		
6	Gravity and Vacuum	с	conditions	https://breaktheicechallenge.com/mission-scenario/	
_			Lunar Landers must fit in a rocket fairing with following specifications: Main section:		
7	Main Section Dimensions	A	length at 10.45 meters, diameter at 6.35 meters, and a volume of 331 cubic meters.	https://breaktheicechallenge.com/mission-scenario/	
			Lunar Landers must fit in a rocket fairing with following specifications: Nose section:		
			length of 7.15 meters, diameter narrows from a maximum of 6.35 meters, and a		
8	Nose Section Dimensions	A	volume of 127 cubic meters	https://breaktheicechallenge.com/mission-scenario/	
			Operations must address: Movement of hardware from the starting location to the		
			Delivery Site to the Excavation Site, Excavation of icy regolith, movement of icy		
			regolith including how the material will be protected, delivery of water to the		
			Delivery Site, and information on rods, berms, or other elements that must be		
9	Concept of Operations	A	constructed to support their architecture	https://breaktheicechallenge.com/mission-scenario/	
10	Water locations	С	no water from 0-20 cm, 4% 20-100 cm, 10% 100-350 cm	https://breaktheicechallenge.com/mission-scenario/	
			We need the rover to carry x amount of weight. This will dictate the size of cold trap		
			that can be fastened to the top of the rover. (When picking out/creating cold traps,		
11	Rover Carry Load	B (rover)	don't forget to factor in weight of entrapped ice-water)	There isn't a source	
	Maximum Power Draw	A	4kW up to 4km	https://breaktheicechallenge.com/mission-scenario/	