

MAREEKH DYNAMICS

NEWSLETTER

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Author: Rida Fatima



**CRATERHAB
CHILE**

Chile-incorporated technology and innovation company formed through a collaboration between Mareekh Dynamics (Australia), Ferrada Blast (Chile), and Brazilian leadership.

Mission

To develop and implement pressurized habitability solutions that enhance human performance in extreme environments, applying planetary habitat technology to improve the safety and productivity of high-altitude mining.

Vision

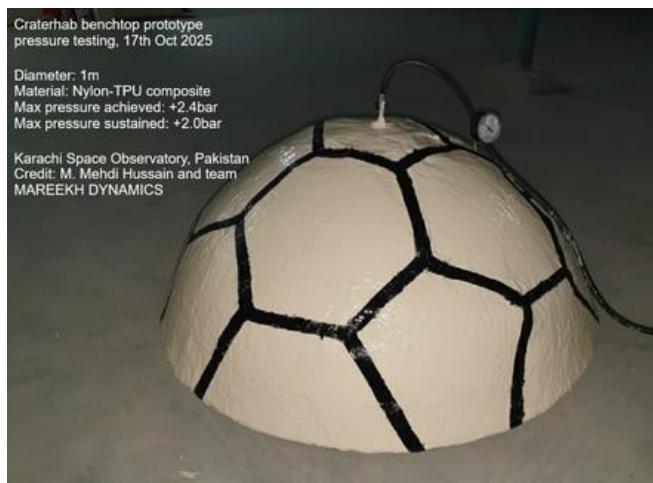
To become the benchmark company in Latin America for advanced habitability solutions in high-altitude mining and extreme environments.

Values

People & Safety First | Innovation with Impact | Value Creation | Trust & Ethics | Vision for the Future.



TYPES OF CRATERHAB PROTOTYPE



Proof of Concept Prototype (1 m) – TRL 3

This initial prototype was developed to demonstrate the pressurization capability of a fabric-based dome structure. The system successfully achieved over-pressurization up to +2.5 bar, validating the core material and structural concept.



Tech Demonstration Prototype (2 m) – TRL 4

This currently under construction 2-meter prototype is designed to demonstrate the technical viability of the patented Craterhab design under controlled conditions. It will operate at under-pressurization levels of approximately +0.15 bar and serve as a key intermediate step between concept validation and product development.



Minimal Viable Product (MVP) (5–10 m) – TRL 5-6

The MVP phase will demonstrate Craterhab as a deployable and functional product. This prototype will operate at a target pressurization of +0.2 bar for high-altitude terrestrial environments, and is intended to support real-world operational use cases.