

Gaganyaan Safety Protocols v2 - Page 1

## **Section 1: Technical Details & Analysis**

Mission: Gaganyaan Human Spaceflight Program v2.0

Key Safety Systems: Crew Escape System (CES), Pad Abort System, Human-Rated LVM3.

Thermal Protection: Outer heat shield for re-entry.

Parachute System: 10-parachute multi-stage system.

Crew Training: Simulators, survival, and aero-medical training.

Gaganyaan Safety Protocols v2 - Page 2

## Section 2: Technical Details & Analysis

Mission: Gaganyaan Human Spaceflight Program v2.0

Key Safety Systems: Crew Escape System (CES), Pad Abort System, Human-Rated LVM3.

Thermal Protection: Outer heat shield for re-entry.

Parachute System: 10-parachute multi-stage system.

Crew Training: Simulators, survival, and aero-medical training.

Gaganyaan Safety Protocols v2 - Page 3

### **Section 3: Technical Details & Analysis**

Mission: Gaganyaan Human Spaceflight Program v2.0

Key Safety Systems: Crew Escape System (CES), Pad Abort System, Human-Rated LVM3.

Thermal Protection: Outer heat shield for re-entry.

Parachute System: 10-parachute multi-stage system.

Crew Training: Simulators, survival, and aero-medical training.

Gaganyaan Safety Protocols v2 - Page 4

## **Section 4: Technical Details & Analysis**

Mission: Gaganyaan Human Spaceflight Program v2.0

Key Safety Systems: Crew Escape System (CES), Pad Abort System, Human-Rated LVM3.

Thermal Protection: Outer heat shield for re-entry.

Parachute System: 10-parachute multi-stage system.

Crew Training: Simulators, survival, and aero-medical training.

Gaganyaan Safety Protocols v2 - Page 5

## **Section 5: Technical Details & Analysis**

Mission: Gaganyaan Human Spaceflight Program v2.0

Key Safety Systems: Crew Escape System (CES), Pad Abort System, Human-Rated LVM3.

Thermal Protection: Outer heat shield for re-entry.

Parachute System: 10-parachute multi-stage system.

Crew Training: Simulators, survival, and aero-medical training.

Gaganyaan Safety Protocols v2 - Page 6

## **Section 6: Technical Details & Analysis**

Mission: Gaganyaan Human Spaceflight Program v2.0

Key Safety Systems: Crew Escape System (CES), Pad Abort System, Human-Rated LVM3.

Thermal Protection: Outer heat shield for re-entry.

Parachute System: 10-parachute multi-stage system.

Crew Training: Simulators, survival, and aero-medical training.

Gaganyaan Safety Protocols v2 - Page 7

## **Section 7: Technical Details & Analysis**

Mission: Gaganyaan Human Spaceflight Program v2.0

Key Safety Systems: Crew Escape System (CES), Pad Abort System, Human-Rated LVM3.

Thermal Protection: Outer heat shield for re-entry.

Parachute System: 10-parachute multi-stage system.

Crew Training: Simulators, survival, and aero-medical training.

Gaganyaan Safety Protocols v2 - Page 8

## **Section 8: Technical Details & Analysis**

Mission: Gaganyaan Human Spaceflight Program v2.0

Key Safety Systems: Crew Escape System (CES), Pad Abort System, Human-Rated LVM3.

Thermal Protection: Outer heat shield for re-entry.

Parachute System: 10-parachute multi-stage system.

Crew Training: Simulators, survival, and aero-medical training.

Gaganyaan Safety Protocols v2 - Page 9

## **Section 9: Technical Details & Analysis**

Mission: Gaganyaan Human Spaceflight Program v2.0

Key Safety Systems: Crew Escape System (CES), Pad Abort System, Human-Rated LVM3.

Thermal Protection: Outer heat shield for re-entry.

Parachute System: 10-parachute multi-stage system.

Crew Training: Simulators, survival, and aero-medical training.

**Gaganyaan Safety Protocols v2 - Page 10**

## **Section 10: Technical Details & Analysis**

Mission: Gaganyaan Human Spaceflight Program v2.0

Key Safety Systems: Crew Escape System (CES), Pad Abort System, Human-Rated LVM3.

Thermal Protection: Outer heat shield for re-entry.

Parachute System: 10-parachute multi-stage system.

Crew Training: Simulators, survival, and aero-medical training.

Gaganyaan Safety Protocols v2 - Page 11

## Section 11: Technical Details & Analysis

Mission: Gaganyaan Human Spaceflight Program v2.0

Key Safety Systems: Crew Escape System (CES), Pad Abort System, Human-Rated LVM3.

Thermal Protection: Outer heat shield for re-entry.

Parachute System: 10-parachute multi-stage system.

Crew Training: Simulators, survival, and aero-medical training.

**Gaganyaan Safety Protocols v2 - Page 12**

## **Section 12: Technical Details & Analysis**

Mission: Gaganyaan Human Spaceflight Program v2.0

Key Safety Systems: Crew Escape System (CES), Pad Abort System, Human-Rated LVM3.

Thermal Protection: Outer heat shield for re-entry.

Parachute System: 10-parachute multi-stage system.

Crew Training: Simulators, survival, and aero-medical training.

**Gaganyaan Safety Protocols v2 - Page 13**

## **Section 13: Technical Details & Analysis**

Mission: Gaganyaan Human Spaceflight Program v2.0

Key Safety Systems: Crew Escape System (CES), Pad Abort System, Human-Rated LVM3.

Thermal Protection: Outer heat shield for re-entry.

Parachute System: 10-parachute multi-stage system.

Crew Training: Simulators, survival, and aero-medical training.

Gaganyaan Safety Protocols v2 - Page 14

## **Section 14: Technical Details & Analysis**

Mission: Gaganyaan Human Spaceflight Program v2.0

Key Safety Systems: Crew Escape System (CES), Pad Abort System, Human-Rated LVM3.

Thermal Protection: Outer heat shield for re-entry.

Parachute System: 10-parachute multi-stage system.

Crew Training: Simulators, survival, and aero-medical training.

Gaganyaan Safety Protocols v2 - Page 15

## Section 15: Technical Details & Analysis

Mission: Gaganyaan Human Spaceflight Program v2.0

Key Safety Systems: Crew Escape System (CES), Pad Abort System, Human-Rated LVM3.

Thermal Protection: Outer heat shield for re-entry.

Parachute System: 10-parachute multi-stage system.

Crew Training: Simulators, survival, and aero-medical training.

Gaganyaan Safety Protocols v2 - Page 16

## **Section 16: Technical Details & Analysis**

Mission: Gaganyaan Human Spaceflight Program v2.0

Key Safety Systems: Crew Escape System (CES), Pad Abort System, Human-Rated LVM3.

Thermal Protection: Outer heat shield for re-entry.

Parachute System: 10-parachute multi-stage system.

Crew Training: Simulators, survival, and aero-medical training.

**Gaganyaan Safety Protocols v2 - Page 17**

## Section 17: Technical Details & Analysis

Mission: Gaganyaan Human Spaceflight Program v2.0

Key Safety Systems: Crew Escape System (CES), Pad Abort System, Human-Rated LVM3.

Thermal Protection: Outer heat shield for re-entry.

Parachute System: 10-parachute multi-stage system.

Crew Training: Simulators, survival, and aero-medical training.

Gaganyaan Safety Protocols v2 - Page 18

## **Section 18: Technical Details & Analysis**

Mission: Gaganyaan Human Spaceflight Program v2.0

Key Safety Systems: Crew Escape System (CES), Pad Abort System, Human-Rated LVM3.

Thermal Protection: Outer heat shield for re-entry.

Parachute System: 10-parachute multi-stage system.

Crew Training: Simulators, survival, and aero-medical training.

Gaganyaan Safety Protocols v2 - Page 19

## **Section 19: Technical Details & Analysis**

Mission: Gaganyaan Human Spaceflight Program v2.0

Key Safety Systems: Crew Escape System (CES), Pad Abort System, Human-Rated LVM3.

Thermal Protection: Outer heat shield for re-entry.

Parachute System: 10-parachute multi-stage system.

Crew Training: Simulators, survival, and aero-medical training.

Gaganyaan Safety Protocols v2 - Page 20

## Section 20: Technical Details & Analysis

Mission: Gaganyaan Human Spaceflight Program v2.0

Key Safety Systems: Crew Escape System (CES), Pad Abort System, Human-Rated LVM3.

Thermal Protection: Outer heat shield for re-entry.

Parachute System: 10-parachute multi-stage system.

Crew Training: Simulators, survival, and aero-medical training.