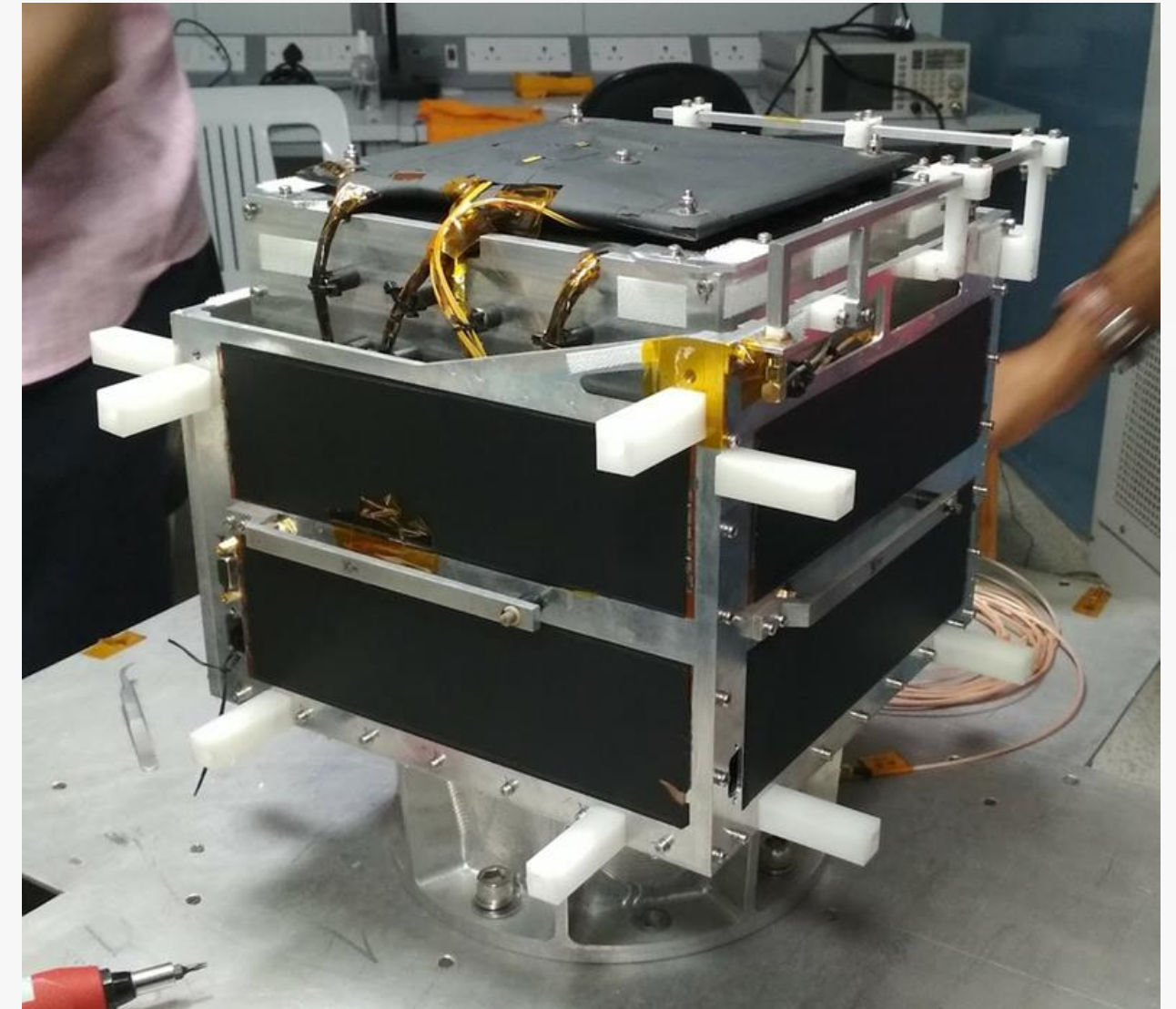


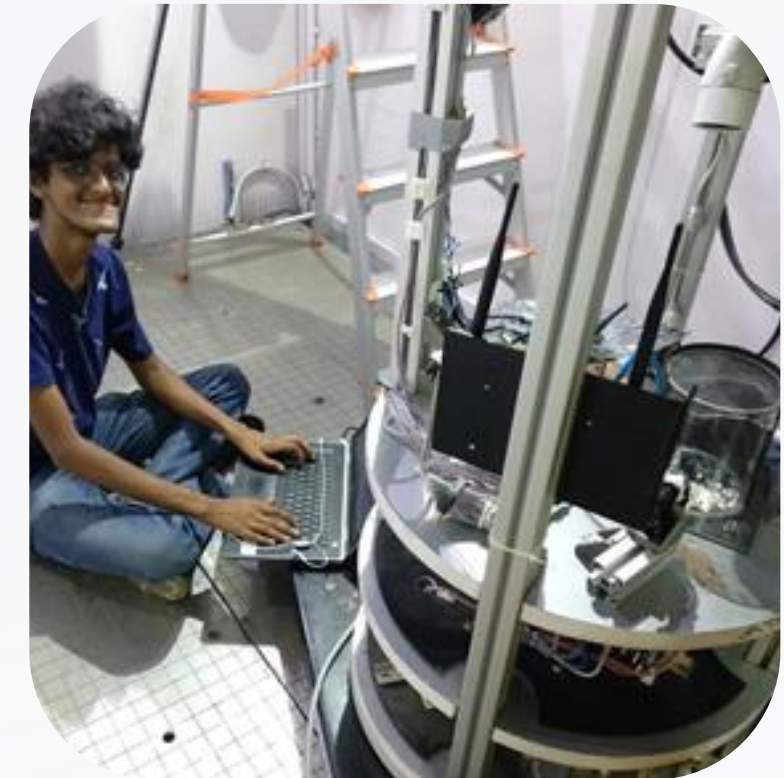
REQUEST FOR FUNDING TO SET UP A SATELLITE MONITORING GROUND STATION AT IITM



CONTEXT & REQUEST

- Inviting the Class of 1971 to contribute, establishing a lasting legacy in advancing scientific exploration at IIT Madras.
- IIT Madras is building the IITMSAT satellite for scientific research, with funding from various sources.
- Essential Ground station required on IITM Campus for satellite monitoring, data acquisition, and analysis.
- Seeking **INR 30 Lakhs (USD 36k)** to purchase and install necessary hardware components.
- The facility supports IITMSAT in the short term, evolving into a lasting resource for future student and research projects.

**Location identified: Terrace, Electrical Sciences Block;
Data processing will take place at existing IITM computing facilities.



OBJECTIVES & BENEFITS



OBJECTIVE: SET UP A GROUND STATION AT IIT MADRAS TO MONITOR SATELLITES IN LEO.

- Establish an enduring facility with longevity for sustained use.
- Facilitate the successful launch and ongoing monitoring of IITMSAT, scheduled for Q2 of 2024 (refer to the [Appendix](#) for further details).
- Foster the skill development of students in the realms of satellite monitoring and data processing.
- Attain recognition as a national asset, fostering collaboration between IITM researchers and esteemed institutions like ISRO and others.

**LEO - Low Earth Orbit

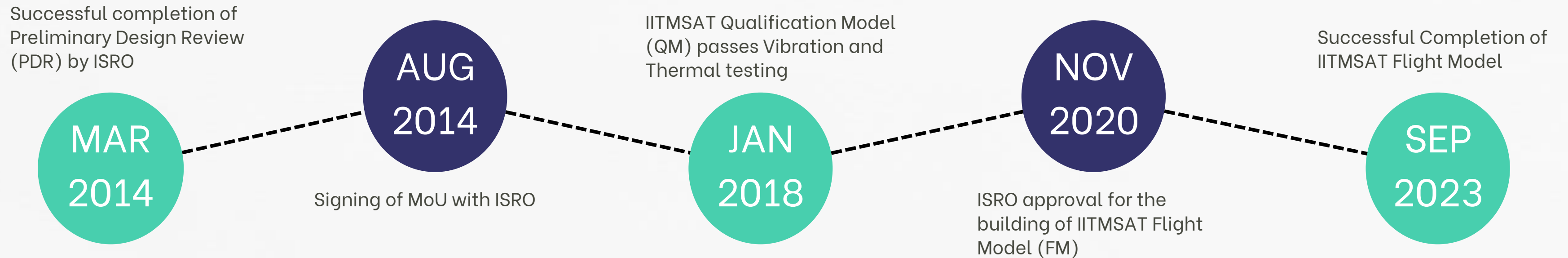
PROPOSED BUDGET

ITEMS	COST (INR)	ITEMS	COST
Antenna + Accessories	867000	Computers + Biometric System	140000
Transreciever (SDR) + Accessories	290000	Consumables + Contingency	491000
Earth Room Station + Tower	144000	Operator Salary (for 1 Year)	600000
Cables + Power Supply	141000	Miscellaneous (Civil works, Furniture, etc.)	300000
		Total	2973000

- ❖ The space for ground station is provided by IITM (cost not included in this proposal)
- ❖ Cost of IITMSAT covered by funding from Various resources
- ❖ Need support for operator salary for the first year

TIMELINE

Key milestones achieved



Key milestones ahead



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