

## **Certificate**

I hereby declare that the work presented in this thesis is original and has not formed the basis for the award of any degree or diploma by any university or institution.

Shreyas R. Managave (Author)
Planetary and Geosciences Division
Physical Research Laboratory
Navrangpura, Ahmedabad, 380009
India

Certified by:

Prof. R. Ramesh (Guide)

Planetary and Geosciences Division Physical Research Laboratory Navrangpura, Ahmedabad-380 009 India

Prof. L. S. Chamyal (Co-guide)

Department of Geology

The Maharaja Sayajirao University of Baroda

Vadodara -390 002

India