

# Declaration by the Candidate

I hereby declare that the work carried for the present thesis entitled “Study of Reaction Cross-section for Advanced Reactors and Astrophysical Applications”, is performed by me under the supervision of Dr. Rajnikant Makwana. This work has been carried out in the Department of Physics, Faculty of Science, The Maharaja Sayajirao University of Baroda, Vadodara, approved by Council of Post-Graduate Studies and Research, and in active collaboration with Tata Institute for Fundamental Research (TIFR), Mumbai, India.

I have taken more than two years of attendance with the supervisor at the University. I further declare that the work is original and the thesis or any part of the present work has been never submitted elsewhere for any degree whatsoever.

Date:

Vibhuti R. Vashi  
Department of Physics  
Faculty of Science  
The Maharaja Sayajirao University of Baroda,  
Vadodara, India-390 002