

## **Declaration by the candidate**

I hereby declare that the work carried for the present thesis entitled “*Study of neutron and photon induced nuclear reactions*”, is done by me under the supervision of Prof. S. Mukherjee. This work has been carried out in Physics Department, Faculty of Science, The Maharaja Sayajirao University of Baroda, Vadodara in active collaboration with Bhabha Atomic Research Center (BARC) and Tata Institute for Fundamental Research (TIFR), Mumbai, Defense Laboratory Jodhpur, Institute for Plasma Research (IPR), Gandhinagar, Institute of Modern Physics, Lanzhou, China.

I have taken more than twenty two months in completion of the work with full attendance 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:

Rajnikant J. Makwana  
Physics Department  
Faculty of Science  
The Maharaja Sayajirao University of Baroda,  
Vadodara, India – 390 002