

Declaration by the Candidate

I hereby declare that the work embodied in the present thesis entitled “ Studies of neutron induced fission and nuclear reaction for AHWR and ADS applications ” has been carried out by me under the supervision of Dr. Surjit Mukherjee. This work has been carried out in Physics Department, Faculty of Science, The Maharaja Sayajirao University of Baroda, India, approved by Council of Post – Graduate Studies and Research and in active collaboration with Bhabha Atomic Research Centre (BARC), Mumbai, India and Tata Institute of Fundamenatal Research (TIFR), Mumbai, India.

I have put in more than two years of attendance with the supervisor at the university. I further declare that to the best of my knowledge neither the thesis nor any part there of has been submitted for any degree whatsoever.

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