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Certificate

This is to certify that the work included in the thesis entitled “*Study of Reaction Cross-sections for Advanced Reactors and Astrophysical Applications*” is an original piece of work done by **Ms. Vibhutiben Rasikbhai Vashi**, under my guidance and supervision for the degree of Doctor of Philosophy, in Department of Physics, Faculty of Science, The Maharaja Sayajirao University of Baroda, Vadodara, Gujarat India and the candidate has put an attendance of more than two years with me in completion of the work.

To the best of my knowledge and belief the thesis

1. Embodies the work of the candidate herself,
2. has duly been completed.
3. Fulfill all the requirements of ordinances related to the Ph. D. degree of the University,
and
4. is up to the standard both for content point of view and language for being referred to the examiner.

Place: Vadodara

Date:

Dr. R. J. Makwana

Thesis Supervisor