



## THE MAHARAJA SAYAJIRAO UNIVERSITY OF BARODA

### CERTIFICATE

*This is to certify that the thesis entitled A COMPARATIVE STUDY OF FACTORS AFFECTING DYNAMIC AND EARTHQUAKE RESPONSE OF RCC FRAMED STRUCTURES submitted by Shri Bimal Arvindbhai Shah represents his original work which was carried out by him at Applied Mechanics Department, Faculty of Technology and Engineering, The M. S. University of Baroda, Vadodara under my guidance and supervision for the award of the Degree of Doctor of Philosophy in Civil Engineering.*

*The matter presented in this thesis has not been submitted anywhere else for the award of any other degree.*

Vadodara  
February 2011

**Dr. S. C. Patodi**  
Research Guide

**Former Professor of Structural Engg.**

**Dr. I. I. Pandya**  
Head

**Applied Mechanics Department**

**Prof. K. Baba Pai** 7/2/11  
Dean

**Faculty of Technology and Engineering**  
**The M. S. University of Baroda**  
**Vadodara - 390001**