

## CERTIFICATE

This is to certify that the thesis entitled, “**Studies on Rotating-Bending Fatigue Behavior of Surface-Engineered Low-alloy Steel Shaft Materials**” prepared and submitted by Mr. U. N. Puntambekar in fulfillment of the requirements of the degree of *DOCTOR OF PHILOSOPHY* in Metallurgical and Materials Engineering is a bonafide record of investigations carried out by him in Department of Metallurgical and Materials Engineering, Faculty of Technology and Engineering, The M. S. University of Baroda, Vadodara under our guidance and supervision. In our opinion this has attained the standard fulfilling the requirements of the Ph. D. degree as prescribed in the regulations of the University. The matter presented in this Ph. D. work has not been submitted for the award of any other degree or diploma elsewhere.

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