

## Certificate

This is to certify that Mr. Jignesh Dholakia has worked under my guidance to prepare the thesis entitled "Mathematical Techniques For Gujarati Document Image Analysis and Character Recognition" which is being submitted herewith towards the requirement for the degree of Doctor of Philosophy in Applied Mathematics.

Dr. V. D. Pathak

Retired Professor

Department of Applied Mathematics

Faculty of Technology & Engineering

The M. S. University of Baroda

Vadorara - 390 001

Head,

Dept. of Applied Mathematics Fac. of Technology & Engineering The M. S. University of Baroda

Vadodara-390 001.

Dean,

Fac. of Technology & Engineering The M. S. University of Baroda

Vadodara-390 001.