

CERTIFICATE

This is to certify that the thesis entitled “***MODELLING URBAN SPRAWL DYNAMICS FOR VADODARA URBAN REGION INTEGRATING CELLULAR AUTOMATA & GIS***” is an original research work submitted by ***Janak P. Joshi***, to the Department of Geography, Faculty of Science, The Maharaja Sayajirao University of Baroda in fulfillment of the requirements for the award of the degree of Doctor of Philosophy in Geography.

The thesis or any part thereof has not been submitted elsewhere for any other degree, diploma or certificate course.

Prof. Bindu Bhatt
Research Guide

Head of the Department