

Certificate

This is certified that the work contained in the thesis entitled **AVAILABLE TRANSFER CAPABILITY (ATC) MANAGEMENT IN RESTRUCTURED ELECTRICAL POWER NETWORK** submitted by *Mr. Umesh Laljibhai Makwana* in fulfillment for the degree of **Doctor of Philosophy** in Electrical Engineering, Faculty of Technology and Engineering, The Maharaja Sayajirao University of Baroda, Vadodara is a bonafide record of investigations carried out by him in the Department of Electrical Engineering, Faculty of Technology and Engineering under my guidance and supervision. In my opinion the standards fulfilling the requirements of the Ph.D. degree as prescribe in the regulations of the university has been attained.

Guide

Dr. S. K. Joshi
Department of Electrical Engineering
Faculty of Technology and Engineering,

Head

Department of Electrical Engineering
Faculty of Technology and Engineering

Dean

Department of Electrical Engineering
Faculty of Technology and Engineering
The Maharaja Sayajirao University of Baroda
Vadodara



DEPARTMENT OF ELECTRICAL ENGINEERING
FACULTY OF TECHNOLOGY AND ENGINEERING
THE MAHARAJA SAYAJIRAO UNIVERSITY OF BARODA

FEBRUARY 2017