

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING TEZPUR UNIVERSITY

NAPAAM, TEZPUR-784028 ASSAM : INDIA

CERTIFICATE

This is to certify that the work presented in this report entitled "*Reliable Spectrum* Aware Routing Protocol Design for Cognitive Radio Network" submitted in partial fulfillment of the requirement for the award of the degree of M. Tech (IT), is a bona fide work carried out by IMRAN ALI under my supervision. The work has not been submitted to any other institute for the award of any other degree.

Date: 27/5/2011

Place: Tezpur

Nityananda Sarma Associate Professor Dept. of Computer Sc. & Engineering Tezpur University

Asso.Professor Department of Computer Science & Engg. Tezpur University



DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING TEZPUR UNIVERSITY

NAPAAM, TEZPUR-784028 ASSAM : INDIA

CERTIFICATE

This dissertation entitled "*Reliable Spectrum Aware Routing Protocol Design for Cognitive Radio Network*" submitted by IMRAN ALI in partial fulfillment of the requirements for the degree of **Master of Technology** in **Information Technology** has been examined.

Internal Examiner Date: Place: Tezpur

External Examiner Date: Place: Tezpur EXTERNAL EXAMINER



ASSAM : INDIA

DECLARATION

I hereby declare that the dissertation work entitled "Reliable Spectrum Aware Routing Protocol Design for Cognitive Radio Network" submitted to the Department of Computer Science & Engineering, Tezpur University, is prepared by me and was not submitted to any other institution for award of any other degree.

John Ali

(IMRAN ALI) Roll No. CSI09018 Dept. of Computer Sc. & Engineering Tezpur University

Date: 26.05. 2011 Place: Tezpur

ACKNOWLEDGMENT

I take this opportunity to express a deep sense of gratitude towards my guide, Dr. Nityananda Sarma, Associate Professor, Department of Computer Science & Engineering, for providing excellent guidance, encouragement and inspiration throughout the project work. Without his invaluable guidance, this work would never have been a successful one.

I would like to thank my family at home for their love and support which always have been a source of my inner strength. Last but not the least; I would also like to thank the staff members of the Department of Computer Science and Engineering of this university for their co-operation and also my friends whose co-ordination and help made this report, a worthy one.

Date: 26.05.2011 Place: Tezpur

nhan Al. **IMRAN ALI Tezpur University**