Tezpur University

Certificate

This is to certify that Madhurima Buragohain bearing Enrolment No.CSI13021 has prepared the dissertation entitled *PKHSN: A Pairing Based Key Management Scheme for Heterogeneous Sensor Networks.*

The dissertation is the result of her effort and endeavors. The dissertation is found worthy of acceptance for the award of Master of Technology in Information Technology. She has worked under the supervision and guidance of Dr. Nityananda Sarma.

Signature of HOD

(Dr. Shyamanta M. Hazarika)

Designation: Professor

Department: CSE

Tezpur University

Head
Department of Computer Science & Engg.
Tezpur University

Tezpur University

Certificate

This is to certify that the dissertation entitled *"PKHSN: A Pairing Based Key Management Scheme for Heterogeneous Sensor Networks"* submitted to the Department of Computer Science and Engineering, Tezpur University, in partial fulfillment for the award of the degree of Master of Technology in Information Technology, is a record of bona fide work carried out by Madhurima Buragohain, Roll No CSI13021 under my supervision and guidance.

All help received by her from various resources have been dully acknowledged.

No part of this dissertation has been submitted elsewhere for award of any other degree.

Pace: Tezpur

Date:

(Dr. Nityananda Sarma)

Professor

Supervisor

Tezpur University

Certificate

This dissertation entitled *PKHSN: A Pairing Based Key Management Scheme for Heterogeneous Sensor Networks* submitted by Madhurima Buragohain, Enrolment No. CSI13021 for partial fulfillment of the requirements for the degree of Master of Technology in Information Technology at Tezpur University has been examined by us and found to be satisfactory.

Internal Examiner
Date:

External Examiner
Date:

Declaration

I, Madhurima Buragohain, hereby declare that the dissertation entitled *PKHSN: A Pairing Based Key Management Scheme for Heterogeneous Sensor Networks* submitted to the Department of Computer Science and Engineering under the School of Engineering, Tezpur University, in partial fulfillment of the requirements for the award of the degree of Master of Technology is based on bonafide work carried out by me. The results embodied in this thesis have not been submitted in part or in full, to any other university or institute for award of any degree or diploma.

(Madhurima Buragohain)

Acknowledgement

First of all I would like to thank my project guide Dr. Nityananda Sarma, Professor of Computer Science & Engineering, Tezpur University for his guidance and valuable suggestion during the course project. My sincere thanks to all faculty members of the department for their support during this project.

Last but not the least I am also thankful to my class mates and juniors for their kind cooperation. I would like to acknowledge everyone who contributed directly or indirectly for the fulfillment of this project work.

Madhurima Buragohain