



TEZPUR UNIVERSITY

(Established by an act of Parliament)

DEPARTMENT OF PHYSICS

Tezpur-784028, Assam, India

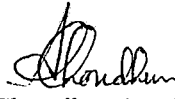
A. Choudhury, M.Sc., Ph.D
Professor & Coordinator

Ph: +91-3712- 267007,267008 Ext. (5552)
E-mail: amarjc@rediffmail.com

CERTIFICATE BY THE SUPERVISOR

This is to certify that **Mr. Himangshu Paul** has worked out the M. Sc. Project entitled "**Study of photorefractive properties of Semiconductor quantum dots by calculating their extinction coefficients utilizing the Beer Lambert's law**" under my supervision. He has fulfilled the requirements of the M. Sc. Minor Project at Tezpur University. I wish him success in life

Date: 12-12-08


(A. Choudhury) 12.12.08
Professor, Dept. of Physics
Tezpur University
Napaam, Tezpur

DECLARATION BY THE CANDIDATE

I hereby declare that I have carried out my M. Sc. Minor Project entitled “**Study of photorefractive properties of Semiconductor quantum dots by calculating their extinction coefficients utilizing the Beer Lambert’s law**” under the guidance of **Prof. Amarjyoti Choudhury** in the Department of Physics, Tezpur University for the partial fulfillment of the degree in **Master of Science in Nanoscience and Technology**. The thesis embodied accounts for my own findings and has not been submitted previously anywhere for any degree whatsoever by either me or anyone else.

Date: 12-12-08

Himangshu Paul
(Himangshu Paul)
Roll No: PHN07007
3rd Semester
Dept. of Physics
Tezpur University

ACKNOWLEDGEMENTS

The task of transcoding a six month endeavour into a report remains incomplete without forwarding a note of gratitude to all those who have directly or indirectly helped me to reap the best out of this project work.

Unbound thanks flow to Prof. A. Choudhury, Professor, Department of Physics, for trusting and accepting me as a M.Sc. project student under his guidance. Sharing a personal bond and a special rapport with him, his enthusiasm and passion for science complemented with an integral yet a simplistic view on research will be an inspiration forever. His guidance to set focused objectives and their realization by channeling man and material resources with time management skills would be his gift to me.

My heartfelt thanks are due to each faculty and staff member of the Department of Molecular Biology and Biotechnology, Tezpur University, Assam for their never-ceasing words of encouragement and imbining within me a sense of self-confidence. I would like to thank whole-heartedly the research scholars of Nanoscience lab viz. Manasi devi, Upamanya Das and Nabanita Dutta for their timely help and co-operation. I would also like to thank another research scholar of CMP lab Smriti Mala Sarmah for her encouraging advices and help in XRD analysis. I also like to thank Dr. D. Mohanta for his guide and help in several matters.

Words sound too poor while I offer my regards to the faculty and staff members of the Department of Chemical sciences and the Department of Molecular Biology and Biotechnology for helping me out in the crucial aspects of data collection and analysis.

Thanks to all my dear classmates, the budding physicists and nanotechnologists ever busy, yet always with a bright smiling face.

And, lastly, *thanks to all those whom I have actually forgotten to enlist on this page.*

Himangshu Paul