



TEZPUR UNIVERSITY

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CERTIFICATE OF THE PRINCIPAL SUPERVISOR

This is to certify that the thesis entitled "*An investigation of Structural and Optical Properties of various Oxide-oxide and Sulfide-sulfide Core-Shell Nanocomposites to gauge potential applications in Photocatalysis and Photovoltaics*" submitted to the School of Sciences, Tezpur University in partial fulfillment for the award of the degree of Doctor of Philosophy in *Physics* is a record of research work carried out by *Ms. Priyanka Basyach* under my supervision and guidance.

All help received by her from various sources have been duly acknowledged. No part of this thesis has been submitted elsewhere for award of any other degree.

Date:

Place: Tezpur

Dr. A. Choudhury

Professor

School of Sciences

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CERTIFICATE OF THE EXTERNAL EXAMINER AND ODEC

This is to certify that the thesis entitled "*An investigation of Structural and Optical Properties of various Oxide-oxide and Sulfide-sulfide Core-Shell Nanocomposites to gauge potential applications in Photocatalysis and Photovoltaics*" submitted by **Priyanka Basyach** to Tezpur University in the **Department of Physics** under the school of **Sciences** in partial fulfillment of the requirement for the award of the degree of Doctor of Philosophy in **Physics** has been examined by us on _____ and found to be satisfactory.

Signature of:

Principal Supervisor
Examiner

External

Date: _____