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**CERTIFICATE OF THE SUPERVISOR**

This is to certify that the thesis entitled "*Photocatalytic activity and chemical sensing behaviour of fresh water diatoms*", being submitted to Tezpur University in requirement of partial fulfillment for the award of the degree of Doctor of Philosophy in Physics is a record of research work carried out by Miss Lakhi Chetia under my supervision and guidance.

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

Supervisor

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Date:  
Place: Tezpur



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**CERTIFICATE OF THE EXTERNAL EXAMINER AND ODEC**

This is to certify that the thesis entitled "*Photocatalytic activity and chemical sensing behaviour of fresh water diatoms*", being submitted by **Miss Lakhi Chetia** to Tezpur University in the **Department of Physics** under the **School of Sciences** in requirement of partial fulfillment for the award of the degree of Doctor of Philosophy in **Physics** has been examined by us on \_\_\_\_\_ and found to be satisfactory.

The committee recommends for the award of the degree of Doctor of Philosophy.

**Supervisor**

( **Dr. Gazi A. Ahmed** )

**External Examiner**

( \_\_\_\_\_ )

**Date:** \_\_\_\_\_

**Date:** \_\_\_\_\_