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Certificate

This is to certify that the thesis entitled “**Study of SPP based two-mode interference coupler and its application in all-optical logic gates and tunable power splitter**” submitted to the School of **Engineering**, Tezpur University in partial fulfillment for the award of the degree of Doctor of Philosophy in **Electronics and Communication Engineering** is a record of research work carried out by **Ms. Nilima Gogoi** under my supervision and guidance.

All helps 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.

(Partha Pratim Sahu)
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Certificate of the External Examiner and ODEC

This is to certify that the thesis entitled “**Study of SPP based two-mode interference coupler and its application in all-optical logic gates and tunable power splitter**” submitted by Ms. Nilima Gogoi, Department of Electronics and Communication Engineering, School of Engineering to Tezpur University in partial fulfillment for the award of the degree of Doctor of Philosophy in **Electronics and Communication Engineering** has been examined by us on and found to be satisfactory.

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

Supervisor

(Prof. Partha Pratim Sahu)

External Examiner

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Date.....

Date.....

