

Declaration

I, Nilima Gogoi, hereby declare that the work incorporated in this thesis entitled “Study of SPP based two-mode interference coupler and its application in all-optical logic gates and tunable power splitter” submitted by me for the award of degree of Doctor of Philosophy (Ph.D.) to the Tezpur University has been carried out by me under the guidance of Prof. Partha pratim Sahu, Tezpur University, Assam. Neither the thesis nor any part of it has been submitted for the award of any degree elsewhere and that it has not been submitted in any previous application for a higher degree. I further declare that

- Wherever contributions of others are involved, every effort is made to indicate this clearly, with due reference to the literature and acknowledgement of discussions, this is always clearly attributed.
- Where I have quoted from the work of others, the source is always given. With the exceptions of such quotations, this thesis is entirely my own work.

Place: Tezpur University

Signed:

Date:

