



Tezpur University

CERTIFICATE

This is to certify that the thesis entitled “*Performance analysis of Solid oxide fuel cell (SOFC) integrated combined power cycles and parameter estimation using inverse method*” submitted to the School of Engineering, Tezpur University in part fulfillment for the award of the degree of Doctor of Philosophy in Mechanical Engineering is a record of research work carried out by Mr. Pranjal Sarmah under my supervision and guidance.

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

Date:

Place:

Supervisor

Prof. Tapan Kr. Gogoi