

**TEZPUR UNIVERSITY** (A Central University Established by an Act of Parliament) **Napaam, Tezpur-784028, Sonitpur, Assam, India** 

Dr. Niranjan Karak Professor Department of Chemical Sciences Phone:+91-3712-267004 (O) Fax: +91-3712-267005 (O) Email: nkarak@tezu.ernet.in

## CERTIFICATE

This is to certify that the thesis entitled "Environmentally Benign Hyperbranched Polyurethane Nanocomposites and Their Applications" submitted to Tezpur University, in the Department of Chemical Sciences, under the School of Sciences, in partial fulfilment for the award of the degree of Doctor of Philosophy in Science is a record of research work carried out by **Mr. Satyabrat Gogoi** under my supervision and guidance.

All help received by him from various sources have been duly acknowledged.

No part of this thesis has been reproduced elsewhere for award of any other degree.

Place: Tezpur University, Tezpur Date:

(**Dr. Niranjan Karak**) Professor Department of Chemical Sciences School of Sciences Tezpur University



## CERTIFICATE

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

Principal Supervisor Date: External Examiner Date: