



तेजपुर विश्वविद्यालय  
(केंद्रीय विश्वविद्यालय)

नयाम, तेजपुर - 784 028, असम, भारत

TEZPUR UNIVERSITY

( A Central University)

Napaam, Tezpur - 784 028, Assam, India

### CERTIFICATE

This is to certify that the project entitled “Modification of Bitumen by Waste Polymer and Nano Fly Ash” performed by Shasanka Sekhar Borkotoky, in the Department of Chemical Sciences, Tezpur University, Assam, in partial fulfilment of the requirements for the degree of ‘Master of Technology’ is a record of original bonafide work carried out by him in the 3<sup>rd</sup> semester. The project meets all the requirements for the submission of the report. Further it is also certify that the project has not been submitted for any purposes elsewhere.

Place : Tezpur

Date : 12/12/12

*Niranjana Karak*  
12/12/12

( Prof. Niranjana Karak)

Head, Department of Chemical Sciences  
Tezpur University



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### CERTIFICATE

This is to certify that the project report entitled “Modification of Bitumen by Waste Polymer and Nano Fly Ash” being submitted by Shasanka Sekhar Borkotoky to the department of Chemical Sciences, Tezpur University, Assam, in partial fulfilment of the requirements for the award of degree of the master of technology, is a record of original bonafied work carried out by him in the 3<sup>rd</sup> semester. He has worked under my supervision and has fulfilled the requirements for the submission of report.

I wish his success in life.

Place : Tezpur

Date : 12/12/12

( Prof. Niranjana Karak)

Head, Department of Chemical Sciences

Tezpur University

# Acknowledgement

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Dated: 12/12/12

Place: Tezpur

*Shasanka Sekhar Borkotoky*  
Shasanka Sekhar Borkotoky