



Assam University, Silchar

(A Central University Established
by an Act of Parliament)

Silchar-788011, Assam, India

CERTIFICATE

Certified that the thesis entitled “**Synthesis, Characterization and Physicochemical Properties of Size and Shape-Selective Manganese Oxides and their Composites**” submitted by **Hasimur Rahaman** for award of the degree of Doctor of Philosophy in Chemistry is the outcome of bonafide research works carried out under my supervision at the Department of Chemistry, Assam University, Silchar-788011, India. The thesis embodies the record of original investigation on the part of the candidate. Further, the work presented in this thesis has not been previously submitted either in whole or in part, to any other institution for any other degree or qualification. It is further certified that the candidate has complied with all the formalities as per the requirements of Assam University, Silchar. I recommend that the thesis may be placed before the Examiners for consideration of award of the Ph. D. degree of this University.

Place: Silchar

Sujit Kumar Ghosh

Date: 05.09.2016

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