Declaration

I hereby declare that this thesis is the result of my own research work which has been carried out under the guidance of Dr. Mojibur R. Khan, Associate professor, Biodiversity and Ecosystem Research group, Life Science Division, Institute of Advanced Study in Science and Technology (IASST) (An Autonomous Institute of Department of Science and Technology, Govt. of India) and Dr. Mohan C. Kalita, Professor, Department of Biotechnology, Gauhati University. I further declare that this thesis as a whole or any part thereof has not been submitted to any university (or institute) for the award of any degree or diploma.

This thesis contains less than 90,000 (ninety thousand) words excluding bibliography and captions.

Yogesh Babasaheb Chaudhari

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