${\cal A}_{\it ffectionately}$ Dedicated

 \mathcal{T}_{o}

My Mother

TEZPUR UNIVERSITY

(A Central University Established by an Act of Parliament) Department of Molecular Biology and Biotechnology NAPAAM, TEZPUR - 78409 ASSAM, INDIA

B. K. Konwar, Ph.D. (London). DIC **Professor and Head** bkkon@tezu.ernet.in

Tel:+91-3712-267007/8/9Ext.5402 (O)

+91-3712-267172(O) +91-3712-267316(R)

Fax: +91-3712-267005/6

Certificate of the Head of the Department

This to to certify that Mr. Anand Pratap Singh, a student of the Department of Department of Molecular Biology and Biotechnology, Tezpur University, Assam has successfully completed the project work entitled "Antimicrobial and biochemical properties of crude extracts of the medicinal plants- Leucas aspara & Salvia saxicola" as a part of partial fulfillment of his Master of science in Molecular Biology and Biotechnology under the supervision of Mr. M. Mandal, Lecturer, Department of Molecular Biology and Biotechnology, Tezpur University.

Place: Tezpur

Date: 22/06/17

Dept, of Molecular Biology & Biorechnology TEXPLUTE LOSVIRSI Y NAPAAM. TEL UR-784028

TEZPUR UNIVERSITY



(A Central University Established by an Act of Parliament) Department of Molecular Biology and Biotechnology NAPAAM, TEZPUR – 78409 ASSAM, INDIA

M. Mandal, M. Phil Lecturer Tel:+91-3712-267007/8/9Ext.5409 (O)

Fax: +91-3712-267005/6 **E-mail**: mandal@tezu.ernet.in

CERTIFICATE

This to to certify that the project report entitled "Antimicrobial and biochemical properties of crude extracts of the medicinal plants- Leucas aspara & Salvia saxicola" has been carried out by Mr. Anand Pratap Singh, Roll No. BT-05-10, Department of Department of Molecular Biology and Biotechnology, Tezpur University, Assam, under my supervision and guidance, w.e.f. 01-11-2006 to June' 07 in partial fulfillment of his Master of science in Molecular Biology and Biotechnology under the supervision of Mr. M. Mandal, Lecturer, Department of Molecular Biology and Biotechnology, Tezpur University, Tezpur, Assam. This is the record of original investigation carried out by him under my supervision. No part of the report has been submitted for any degree/ diploma/ academic award elsewhere.

Place: Tezpur

Date: 22.06.07

(M. Mandal).

ACKNOWLEDGEMENT

It is a great opportunity for me to express my profound sense of gratitude to my project supervisor Mr. Manabendra Mandal, Lecturer, Department of Molecular Biology and Biotechnology, Tezpur University, Napaam, India, for his valuable guidance, perceptive criticism and constant encouragement throughout my project, without which this project work could not have been possible.

I would also like to acknowledge my sincere thankfulness to Prof. B.K. Konwar, Head, Department of Molecular Biology and Biotechnology, Tezpur University, Napaam, India, for his valuable guidance in initiating this study. His keen interest, constructive criticism, suggestions, constant encouragement throughout the course of the study has greatly contributed to the successful completion of this study.

I deeply express my heartfelt thanks to Dr. A. K. Mukherjee, Dr. A. K. Buragohain, Dr. (Mrs.) S. Boruah, Dr. S.K. Ray, Dr. A. Ramteke and Dr. Tapas Medhi for their kind suggestion and help.

I also thank Dr. (Mrs.) Ashalata Devi, Lecturer, Department of Environmental Science, Tezpur University for providing invaluable information regarding the plants that were used under the study.

I would also like to extend my gratitude to Mr Jyoti Prasad Saikia for giving guidelines about the practical approach of my work.

I would also like to show my gratefulness to Sudhir Bhaiya, Ranjan Da, and Luna Baa for always giving me the proper advice on appropriate time. Along with them, I would also like to thank my friends Madhu Smita and Mayuri and all other local people who provided knowledge about the local use and other probable uses of the plants under study.

Lastly, I thank my parents for their blessings and my friends Yogendra, Rizwan, Roshan, Abdul, Ramcharan and Sapan for their encouragement and moral support without which my project would not have been possible.

Anand Pratap Singh 4th Semester Deptt. of MBBT Tezpur University