



TEZPUR UNIVERSITY
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CERTIFICATE OF THE PRINCIPAL SUPERVISOR

This is to certify that the work presented in the thesis entitled “**Hardware based Field Type E-Nose for Tea Flavour Estimation and Direct Interface Circuit for Multisensory Environment**”, has been carried out by **Mr. Lachit Dutta** under my supervision and guidance. He has fulfilled the requirements of the rules and regulations related to the nature and prescribed period of research at Tezpur University. The thesis embodies accounts of his own findings and these have not been submitted previously anywhere for the award of any degree either by him or by anyone else.

All help received from various sources have been duly acknowledged.

Date:
Place: Tezpur, Assam

(Manabendra Bhuyan)



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Certificate of the External Examiner and ODEC

This is to certify that the thesis entitled “**Hardware based Field Type E-Nose for Tea Flavour Estimation and Direct Interface Circuit for Multisensory Environment**” submitted by **Mr. Lachit Dutta**, Department of Electronics & Communication Engineering, School of Engineering, Tezpur University in partial fulfillment for the award of the degree of Doctor of Philosophy in Electronics & Communication Engineering has been examined by us on _____ and found to be satisfactory.

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

Supervisor
(Manabendra Bhuyan)

External Examiner
()

Date: _____

Date: _____