



Central Leather Research Institute
Chemical Engineering
Cell for Industrial Safety & Risk Analysis
(Council of Scientific & Industrial Research)
Adyar, Chennai 600 020, India




DR M SURIANARAYANAN

April 23, 2012

CERTIFICATE

This is to certify that all corrections were incorporated as suggested by the examiners in the thesis entitled "BIOCALORIMETRIC INVESTIGATION OF ACID BLUE 113 DYE DEGRADATION BY *STAPHYLOCOCCUS LENTUS* IN GLUCOSE AND CHOLINE LACTATE BASED MEDIA" of Shri Sudharshan S (2814729119/PhD/AR8).


Dr M Surianarayanan
Supervisor

Ph.D.	FT
Reg. No.	2814729119/PhD/AR8

PROCEEDINGS OF THE Ph.D VIVA-VOCE EXAMINATION OF Mr. S. SUDHARSHAN
HELD AT 11.00 A.M. ON 23.04.2012 IN THE BM DASS HALL, CLRI, ADYAR, CHENNAI-
600 020.

The Ph.D. Viva-Voce Examination of Mr. S.SUDHARSHAN (2814729119/PhD/AR8) on his Ph.D. Thesis Entitled, "BIOCALORIMETRIC INVESTIGATION OF ACID BLUE 113 DYE DEGRADATION BY STAPHYLOCOCCUS LENTUS IN GLUCOSE AND CHOLINE LACTATE-BASED MEDIA" was conducted on 23.04.2012 at 11.00 AM in the BM Dass Hall, CLRI, Adyar, Chennai- 600 020. The following Members of the Oral Examination Board were present:

1. Dr. KV RAGHAVAN, INAE, Distinguished professor, IICT, Hyderabad, Indian Examiner
2. Dr. S RAJAMANI, Chairman, IUE Commission, Chennai 600 028, Expert Member
3. Dr. M SURIANARAYANAN, Department of Chemical Engineering, CLRI, Adyar, Chennai. Supervisor & Convener

The research scholar, Mr. S. SUDHARSHAN presented the salient features of his Ph.D. work. This was followed by questions from the board members. The questions rose by the Foreign and Indian Examiners were also put to the scholar. The scholar answered the questions to the full satisfaction of the board members.

The corrections suggested by the Indian/Foreign examiner have been carried out and incorporated in the Thesis before the Oral examination.

Based on the scholar's research work, his presentation and also the clarifications and answers by the scholar to the questions, the board recommends that Mr. S. SUDHARSHAN be awarded Ph.D. degree in the Faculty of Science and Humanities.

1. Dr. KV RAGHAVAN,
INAE Distinguished Professor, IICT, Hyderabad
Indian Examiner
2. Dr. S RAJAMANI
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18, First Street, South Beach Avenue, Chennai 600 028
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3. Dr. M SURIANARAYANAN
CISRA, Department of Chemical Engineering,
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Supervisor & Convener

ANNA UNIVERSITY
CHENNAI 600 025

BONAFIDE CERTIFICATE

Certified that this Thesis titled “**BIOCALORIMETRIC INVESTIGATION OF ACID BLUE 113 DYE DEGRADATION BY STAPHYLOCOCCUS LENTUS IN GLUCOSE AND CHOLINE LACTATE BASED MEDIA**” is the bonafide work of **Mr. SUDHARSHAN S.** who carried out the research under my supervision. Certified further that to the best of my knowledge the work reported herein does not form part of any other thesis or dissertation on the basis of which a degree or award was conferred on an earlier occasion of this or any other scholar.

Date:

Dr. M SURIANARAYANAN
SUPERVISOR

Place:

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