



**CENTRE FOR RESEARCH**  
ANNA UNIVERSITY, CHENNAI-600 025



### **CERTIFICATE**

This is to certify that all corrections and suggestions pointed out by the Indian /Foreign Examiner(s) are incorporated in the Thesis titled " GROWTH AND CHARACTERIZATION OF SEMIORGANIC NON LINEAR OPTICAL & FERRO ELECTRIC CRYSTALS FOR OPTICAL DEVICE APPLICATION " submitted by ~~Mr./Ms.~~ Geetha.P

Signature of the Supervisor

Place : CHENNAI

Date : 07/01/18



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Proceedings of the Ph.D. Viva-Voce Examination of Mr./Ms. Geetha.P held at 02:30 PM on 07.04.2018 in Dhanalakshmi College of Engineering, Tambaram, Chennai - 601 301.

The Ph.D. Viva-Voce Examination of Mr./Ms. Geetha.P (Reg. No. 1324799742) on his/her Ph.D. Thesis Entitled " GROWTH AND CHARACTERIZATION OF SEMIORGANIC NON LINEAR OPTICAL & FERRO ELECTRIC CRYSTALS FOR OPTICAL DEVICE APPLICATION " was conducted on 07.04.2018 at 02:30 PM in the Dhanalakshmi College of Engineering, Tambaram, Chennai - 601 301..

**The following Members of the Oral Examination Board were present:**

- |  |                       |
|--|-----------------------|
| 1. Dr. Binay Kumar, Crystal Lab, Department of Physics & Astrophysics, University of Delhi Delhi 110007, Phone: 9818168001           | Indian Examiner       |
| 2. Dr. C Sekar, Professor & Head, Department of Bioclectronics & Biosensors, Alagappa University Karaikudi 630003, Phone: 9442563637 | Subject Expert        |
| 3. Dr. Sathesh.K, Assistant Professor, Department of Physics, Dhanalakshmi College of Engineering, Chennai                           | Supervisor & Convenor |

The research scholar, Mr./Ms. Geetha.P presented the salient features of his/her Ph.D. work. This was followed by questions from the board members. The questions raised 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/her presentation and also the clarifications and answers by the scholar to the questions, the board recommends that Mr./Ms. Geetha.P be awarded Ph.D. degree in the **Faculty of Science and Humanities**.

  
Indian Examiner

  
Subject Expert

  
Supervisor & Convenor

**ANNA UNIVERSITY**  
**CHENNAI 600 025**

**CERTIFICATE**

The research work embodied in the present Thesis entitled **“GROWTH AND CHARACTERIZATION OF SEMIORGANIC NON LINEAR OPTICAL & FERRO ELECTRIC CRYSTALS FOR OPTICAL DEVICE APPLICATION”** has been carried out in the Department of Physics, Dhanalakshmi College of Engineering, Manimangalam, Tambaram, Chennai. The work reported herein is original and 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 or to any other scholar.

I understand the University’s policy on plagiarism and declare that the thesis and publications are my own work, except where specifically acknowledged and has not been copied from other sources or been previously submitted for award or assessment.

**GEETHA P**  
RESEARCH SCHOLAR

**Dr. K. SATHEESH**  
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