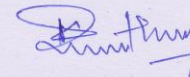


**CENTRE FOR RESEARCH**  
ANNA UNIVERSITY, CHENNAI-600 025



**CERTIFICATE**

This is to certify that all corrections and suggestions pointed out by the Indian /Foreign Examiner(s) are incorporated in the Thesis titled " EVALUATION OF MECHANICAL PROPERTIES OF BAMBOO/SISAL FIBERS – REINFORCED UNSATURATED POLYESTER HYBRID COMPOSITES " submitted by Mr. Prasanna Venkatesh.R

 25/10/18

Signature of the Supervisor  
**Dr. K. RAMANATHAN, M.E., Ph.D**  
Assistant Professor (Sr. Gr)  
Department of Mechanical Engineering  
Alagappa Chettiar College of Engg & Tech.  
(An Institution of Govt. of Tamilnadu)  
Karaikudi-630 004

Place : **KARAIKUDI**

Date : **25/10/2018**



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**Proceedings of the Ph.D. Viva-Voce Examination of Mr. Prasanna Venkatesh.R held at 10:45 AM on 25.10.2018 in Virtual class Room, Department of Mechanical Engineering (W/s), A.C. Govt. College of Engg. & Technology, Karaikudi.**

The Ph.D. Viva-Voce Examination of Mr. Prasanna Venkatesh.R (Reg. No. 2011120005) on his/her Ph.D. Thesis Entitled " EVALUATION OF MECHANICAL PROPERTIES OF BAMBOO/SISAL FIBERS – REINFORCED UNSATURATED POLYESTER HYBRID COMPOSITES " was conducted on **25.10.2018** at 10:45 AM in the Virtual class Room, Department of Mechanical Engineering (W/s), A.C. Govt. College of Engg. & Technology, Karaikudi..

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

- |   |                 |
|---|-----------------|
| 1. Dr. B. Shahul Hamid Khan, Assistant Professor, Indian Institute of Information Technology ,Design and Manufacturing Kancheepuram, Melakkottaiyur Chennai - 600 127 | Indian Examiner |
| 2. Dr. M. Duraiselvam, Professor, Department of Production Engineering, National Institute of Technology , Tiruchirappalli - 620 015                                  | Subject Expert  |
| 3. Dr. Ramanathan.K, Assistant Professor (Sr. Gr), Department of Mechanical Engineering, Alagappa Chettiar College of Engineering and Technology,                     | Supervisor      |

The research scholar, Mr. Prasanna Venkatesh.R 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 scholars research work, his/her presentation and also the clarifications and answers by the scholar to the questions, the board recommends that Mr. Prasanna Venkatesh.R be awarded Ph.D. degree in the **Faculty of Mechanical Engineering**.

Indian Examiner

*B. SHAHUL KHAN* 25/10/18  
(DR. B. SHAHUL HAMID KHAN)

*M. Duraiselvam* 25/10/18  
DR. M. DURASELVAM  
Subject Expert

*K. Ramanathan* 25/10/18  
Supervisor  
Dr. K. RAMANATHAN, M.E., Ph.D.  
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**ANNA UNIVERSITY**  
**CHENNAI 600 0025**

**CERTIFICATE**

The research work embodied in the present Thesis entitled **“EVALUATION OF MECHANICAL PROPERTIES OF BAMBOO/SISAL FIBERS – REINFORCED UNSATURATED POLYESTER HYBRID COMPOSITES”** has been carried out in the Department of Mechanical Engineering, Alagappa Chettiar Government College of Engineering and Technology, Karaikudi. 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 an award or assessment.

**PRASANNA VENKATESH R**  
RESEARCH SCHOLAR

**Dr. K. RAMANATHAN**  
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