



Vel Tech

Rangarajan Dr. Sagunthala
R&D Institute of Science and Technology
(Deemed to be University Estd. u/s 3 of UGC Act, 1956)



Sl. No. : **8225**

Reg. No. : **13REEE1012**

The Board of Management of
Vel Tech Rangarajan Dr. Sagunthala R&D Institute of
Science and Technology (Deemed to be University)
hereby makes known that

SWAPNA S

D/O NEELAVENI SHANMUGAM

has been admitted to the Degree of
Doctor of Philosophy

in

ELECTRICAL AND ELECTRONICS ENGINEERING

having been certified by duly appointed examiners to be
qualified to receive the same in the year **OCT- 2020**

in accordance with the provisions of
UGC Regulations 2009 (for the award of Ph.D. Degree)

Title of the Thesis:

**CHARACTERISTICS OF BRIDGELESS BOOST CONVERTER FED BLDCM AND
IMPROVEMENT OF PF USING UNDER DIFFERENT LOADS**

Given under the seal of this Deemed to be University

Dated : **23.10.2020**

Registrar



S. Salim
Vice Chancellor



[Signature]
Chancellor



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[Signature]

REPORT OF THE BOARD OF EXAMINERS FOR THE PH.D PUBLIC ORAL EXAMINATION OF Ms. S. SWAPNA (REG. NO. 13REEE1012), PART-TIME RESEARCH SCHOLAR, DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING, VEL TECH RANGARAJAN DR. SAGUNTHALA R&D INSTITUTE OF SCIENCE AND TECHNOLOGY, AVADI, CHENNAI- 600062.

The Public Viva-Voce examination of Ms. S. Swapna (Reg. No. 13REEE1012), on her Ph.D thesis entitled "Characteristics of Bridgeless Boost Converter Fed BLDCM and Improvement of PF under Different Loads" submitted for the award of Ph.D degree in the Department of Electrical and Electronics Engineering of Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology has been conducted as per the following schedule:

Date : 19-10-2020, Monday at 12.00 p.m.
Mode : Online Video Conference – Zoom app
Meeting Link : Zoom Meeting link
<https://us04web.zoom.us/j/71781187283?pwd=UXBhRWVhRWN3SmQvMzJUN2U0a1hoaGlnUT09>

Indian Examiner : Dr. S. Senthilkumar, Professor, Department of EEE,
National Institute of Technology, Trichy

Subject Expert : Dr. K. Ragavan, Associate Professor, Department of EEE,
Indian Institute of Technology - Gandhinagar, Gujarat

Supervisor and Convener : Dr. P. Chandrasekar
Professor,
Department of Electrical and Electronics Engineering, Vel Tech

Based on the candidate's exposition of her thesis and her answers to the questions raised by the examiners and other participants, the Board of Examiners have resolved to recommend that the performance of the candidate in her Ph.D. Oral Examination is **Good** and declare to have passed her Ph.D. Oral Examination and further recommend the award of Ph.D degree in of Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology to the candidate.

<i>[Signature]</i> 19-10-2020	<i>[Signature]</i>	<i>[Signature]</i>
Subject Expert (Dr. K. Ragavan)	Indian Examiner (Dr. S. Senthilkumar)	Supervisor & Convener (Dr. P. Chandrasekar)

Dr. P. Chandrasekar
Head of the Department
Electrical and Electronics Engineering
Vel Tech
Rangarajan Dr. Sagunthala
R&D Institute of Science and Technology
Avadi, Chennai - 600062



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PROCEEDINGS OF THE Ph.D. ORAL EXAMINATION OF Ms. S. SWAPNA (REG. NO. 13REEE1012) HELD AT 12 P.M. ON 19-10-2020 THROUGH ONLINE MODE AT VEL TECH RANGARAJAN Dr. SAGUNTHALA R&D INSTITUTE OF SCIENCE AND TECHNOLOGY, AVADI, CHENNAI-600 062.

The Ph.D. Oral Examination of Ms. S. Swapna (Reg. No. 13REEE1012) on the thesis "Characteristics of Bridgeless Boost Converter Fed BLDCM and Improvement of PF under Different Loads" has been conducted on 19-10-2020 at 12.00 P.M., through online mode using Zoom link.

Members Present

1. Dr.S.Senthilkumar
2. Dr.K.Ragavan
3. Dr. P.Chandrasekar

Indian Examiner

Subject Expert

Supervisor & Convener

The research scholar Ms.S.Swapna (Reg. No. 13REEE1012) has presented the salient features of her research work. The members of the Board and audiences have posed the questions related to the subject. The questions raised by the Foreign and Indian Examiners have also been put to the scholar. The scholar has answered all the questions from the Board Members and the audiences. The scholar's performance in the Ph.D. Oral Examination is **Good**.

Based on the scholar's research work, oral presentation, clarifications and answers to the questions from the Examiners and audiences, the Board unanimously recommends to accept the Ph.D. Thesis for the award of Degree of Doctor of Philosophy in the School of Electrical and Communication, Vel Tech Rangarajan Dr.Sagunthala R&D Institute of Science and Technology to Ms.S.Swapna (Reg. No. 13REEE1012).

1		Indian Examiner (Dr.S.Senthilkumar)
2	 19-10-2020	Subject Expert (Dr.K.Ragavan)
3	 P. Chandrasekar Head of the Department School of Electrical and Electronics Engineering	Supervisor & Convener (Dr. P.Chandrasekar)

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