



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. : 8208

Reg. No. : 15REME1011

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

RAJA K

S/O K RATHANA

has been admitted to the Degree of
Doctor of Philosophy
in

MECHANICAL ENGINEERING

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

in accordance with the provisions of

UGC Regulations 2009 (for the award of Ph.D. Degree)

Title of the Thesis:

**STUDY ON PERFORMANCE AND EMISSION CHARACTERISTICS OF FOUR STROKE
SPARK IGNITION ENGINE THROUGH INTAKE MANIFOLD MODIFICATION**

Given under the seal of this Deemed to be University

Dated : 23.10.2020

Registrar



S. Sahiva
Vice Chancellor



Chancellor



Vel Tech

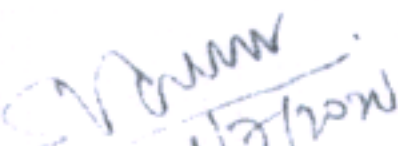
Rangarajan Dr. Sagunthala
R&D Institute of Science and Technology
(Deemed to be University) Established by UGC Act, 1956

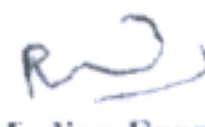
**REPORT OF THE BOARD OF EXAMINERS FOR THE PH.D PUBLIC ORAL
EXAMINATION OF K. RAJA (REG. NO. 15REME1011), PART-TIME RESEARCH SCHOLAR,
DEPARTMENT OF MECHANICAL ENGINEERING,
VELTECH RANGARAJAN DR. SAGUNTHALA R&D INSTITUTE OF
SCIENCE AND TECHNOLOGY, AVADI, CHENNAI- 600062.**

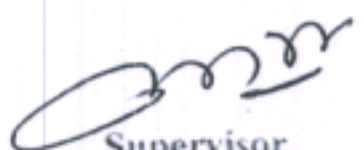
The Public Viva-Voce examination of K. Raja (Reg. No. 15REME1011), on his Ph.D thesis entitled "*Study on Performance and Emission Characteristics of Four Stroke Spark Ignition Engine through Intake Manifold Modification*" submitted for the award of Ph.D degree in the Department of Mechanical Engineering of Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology has been conducted as per the following schedule:

Date	:	22/06/2020, Monday at 03.00p.m.
Mode	:	Online Video Conference -- Zoom
Meeting Link	:	Meeting ID:- 817 6006 6105, Password:- 3dm6YR https://us02web.zoom.us/j/81760066105?pwd=akFMbmJDTzdBcTBuQ9VMWRLeUcxZ09
Indian Examiner	:	Dr. P. Venkataramaiah Professor, Department of Mechanical Engineering, S V University College of Engineering, Tirupati - 517644, (AP), India, Phone: +91 8523891853 Email: pvraramaiah@gmail.com
Subject Expert	:	Dr. Sriram Venkatesh Professor of Mechanical Engineering, University College of Engineering, Osmania University, Hyderabad- 500 007. Mobile: 94404 08333, Email: venkatmech@yahoo.com sriramvenkatmech@gmail.com
Supervisor and Convener	:	Dr. M. Amala Justus Selvam Professor, Department of Automobile Engg., Vel Tech

Based on the candidate's exposition of his thesis and his 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 his Ph.D. Oral Examination is **GOOD** and declare to have **PASSED** his Ph.D. Oral Examination and further recommend the award of Ph.D degree in **MECHANICAL ENGINEERING** of Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology to the candidate.


Subject Expert


Indian Examiner
(P. V. RAMAIAH)


Supervisor
(Dr. M. AMALA JUSTUS SELVAM)





Vel Tech
Rangarajan Dr. Sagunthala
R&D Institute of Science and Technology
Bannur, Chennai - 600 062

**PROCEEDINGS OF THE Ph.D. ORAL EXAMINATION OF Mr. K. RAJA
HELD AT 3.00 P.M. ON 22-6-2020 THROUGH ONLINE MODE AT
VELTECH RANGARAJAN Dr. SAGUNTHALA R&D INSTITUTE OF
SCIENCE AND TECHNOLOGY, AVADI, CHENNAI-600 062.**

The Ph.D. Oral Examination of Mr. K. RAJA (Reg.No.15REME1011) on the thesis has been conducted on title "Study on Performance and Emission Characteristics of Four Stroke Spark Ignition Engine through Intake Manifold Modification" on 22-6-2020 at 3.00 P.M. through online mode using Zoom tool.

Members Present

- | | |
|----------------------------|-----------------------|
| 1. Dr. P. Venkataramaiah | Indian Examiner |
| 2. Dr. Sriram Venkatesh | Subject Expert |
| 3. Dr. Amala Justus Selvam | Supervisor & Convener |

The research scholar Mr. K. RAJA has presented the salient features of his 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 **Mechanical Engineering** in the School of Mechanical & Construction, Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology to Mr. K. RAJA.

Dr. P. Venkataramaiah Dr. Sriram Venkatesh Dr. Amala Justus Selvam,
Indian Examiner Subject Expert Supervisor & Convener

S. V. Ram
17/7/2020

R
(Dr. P. RAMAIAH)

Amala
(Dr. M. AMALA
JUSTUS SELVAM)

