



# 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. : **10767**

Reg. No. : **17REME1020**

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

**MESFIN SISAY MENGESHA**

**S/O ALEM KETEMA**

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 **APR-2021**

in accordance with the provisions of

UGC Regulations 2016 (for the award of Ph.D. Degree)

Title of the Thesis:

**EXPERIMENTAL INVESTIGATIONS ON SURFACE ROUGHNESS AND FATIGUE  
STRENGTH CHARACTERISTICS OF INHIBITION SINTERED POLYAMIDE 12 PARTS**

Given under the seal of this Deemed to be University

Dated : **06-NOV-2021**



Registrar

S. Salim  
Vice Chancellor

Chancellor



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**REPORT OF THE BOARD OF EXAMINERS FOR THE PH. D. PUBLIC ORAL  
EXAMINATION OF MESFIN SISAY MENGESHA (REG. NO. 17REME1020), FULL -TIME  
RESEARCH SCHOLAR, DEPARTMENT OF MECHANICAL ENGINEERING,  
VEL TECH RANGARAJAN DR. SAGUNTHALA R&D INSTITUTE OF  
SCIENCE AND TECHNOLOGY, AVADI, CHENNAI- 600062.**

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The Public Viva-Voce examination of MESFIN SISAY MENGESHA (Reg. No. 17REME1020), on his Ph.D thesis entitled "*Experimental Investigations on Surface Roughness and Fatigue Strength Characteristics of Inhibition Sintered Polyamide 12 Parts*" 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** : April 23, 2021, Friday at 2.00 PM.  
**Mode** : Online Video Conference - Zoom  
**Meeting Link** : Meeting ID:- 789 5710 6370, Password:- u06spE  
<https://us04web.zoom.us/j/78957106370?pwd=cW9jcWVzV2wvSXRRQzFWQUI3UTBmZz09>

**Indian Examiner** : Dr U Chandrasekhar,  
Program Director – AddWize Wipro 3D,  
Bengaluru – 560058, Karnataka  
Email:u.chandrasekhar@wipro.com; Mobile: 9449010234

**Subject Expert** : Prof. K P Karunakaran  
Professor, Department of Mechanical Engineering  
IIT Bombay, Powai, Mumbai  
Email: Karuna@iitb.ac.in; Mobile: +919869541570

**Supervisor and Convener** : Dr. E. Balasubramanian (Professor, Mechanical 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

Supervisor



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**PROCEEDINGS OF THE Ph.D. ORAL EXAMINATION OF Mr. MESFIN SISAY MENGESHA HELD AT 2:00 P.M. ON April 23, 2021 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 Mr./Ms. Mesfin Sisay Mengesha (Reg. No. 17REME1020) on the thesis title Experimental Investigations on Surface Roughness and Fatigue Strength characteristics of Inhibition Sintered Polyamide 12 Parts has been conducted on April 23, 2021 at 2:00 A.M./P.M, through online mode using Zoom tool.

**Members Present**

- |                           |                       |
|---------------------------|-----------------------|
| 1. Dr. U. Chandrasekhar   | Indian Examiner       |
| 2. Prof. K.P. Karunakaran | Subject Expert        |
| 3. Dr. E. Balasubramanian | Supervisor & Convener |

The research scholar Mr./Ms. Mesfin Sisay Mengesha has presented the salient features of his/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 Mechanical Engineering in the School of Mechanical and Construction, Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology to Mr./Ms. Mesfin Sisay Mengesha

1

Indian Examiner

2

Subject Expert

3

Supervisor & Convener