

THIAGARAJAR COLLEGE OF ENGINEERING

(An Autonomous Institution Affiliated to Anna University)

MADURAI – 625 015.



CERTIFICATE

Certified that this is a bonafide record of the 14MG340 Project Phase I done by Mr. K.A.ARIRAJAN (Register Number 16MF001) of Third Semester M.E. (Manufacturing Engineering) during the year 2017 - 2018.

K. C. 16/11/17
Dr .K.CHOCKALINGAM
Associate Professor
Department of Mechanical Engg.
(Guide)

[Signature]
Associate Professor and Head,
Department of Mechanical Engg.

Station: Madurai

Date: 17.11.17

Submitted for VIVA-VOCE examination held at Thiagarajar College of Engineering, Madurai – 625 015, on 17.11.17.

K. C. 17/11/17
INTERNAL EXAMINER

[Signature]
EXTERNAL EXAMINER

K. C. 17/11/17
f H.D.M.E.

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K. Chockalingam
15/11/17

Dr.K.CHOCKALINGAM

Associate Professor

Department of Mechanical Engg.

(Guide)

S. Muralidharan

Dr.S.MURALIDHARAN

Professor and Head,

Department of Mechanical Engg.

V. Gayathri

Dr. V. GAYATHRI

Associate Professor

Department of Physics.

(Co-Guide)

Station: Madurai

Date: 15.11.17

Submitted for VIVA-VOCE examination held at Thiagarajar College of Engineering,
Madurai – 625 015, on 17.11.17.

INTERNAL EXAMINER

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H.D.M.E.

THIAGARAJAR COLLEGE OF ENGINEERING

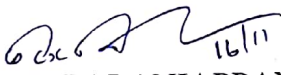
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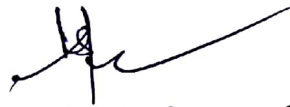
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Dr. PL.K. PALANIAPPAN
Associate Professor
Department of Mechanical Engg.
(Guide)
Station: Madurai


Associate Professor and Head,
Department of Mechanical Engg.

Date: 16.11.17

Submitted for VIVA-VOCE examination held at Thiagarajar College of Engineering, Madurai – 625 015, on 17.11.2017.


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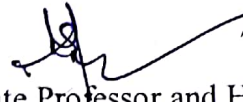

16/11/17

Dr S.SARAVANA PERUMAAL

Assistant Professor

Department of Mechanical Engg.

(Guide)



Associate Professor and Head,

Department of Mechanical Engg.


16/11/17

Dr. A.L. SUBRAMANIAN

Assistant Professor

Department of Physics

(Co-guide)

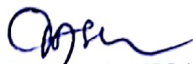
Station: Madurai

Date: 17/11/17

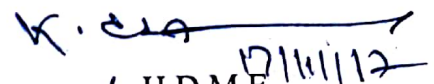
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Mr. T. PRAKASH

Assistant Professor

Department of Mechanical Engg.

(Guide)



Dr. S. MURALIDHARAN

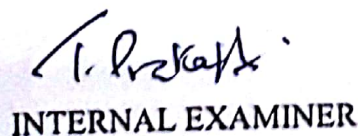
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Station: Madurai

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N. Jawahar

Dr. N. JAWAHAR

Dean – Research and Development
Professor of Mechanical Engineering
(Guide)

S. Muralidharan

Dr. S. MURALIDHARAN

Associate Professor and Head,
Department of Mechanical Engg.

Station: Madurai

Date: 14/11/2017

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Certified that this is a bonafide record of the 14MG340 Project I done by **Mr. R.NARESH** (Register Number **16MF008**) of Third Semester M.E. (Manufacturing Engineering) during the year 2017 - 2018.

Dr. S. SARAVANA PERUMAAL
Assistant Professor,
Department of Mechanical Engg.
(Guide)

Professor and Head,
Department of Mechanical Engg.

Station: Madurai

Date: 17-11-17

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Certified that this is a bonafide record of the 14MG340 Project Phase I done by Mr. **R. RAJESHSHYAM** (Register Number 16MF009) of Third Semester M.E. (Manufacturing Engineering) during the year 2017 - 2018.

K. Cho
15/11/17

Dr. K. CHOCKALINGAM

(Associate professor)

Department of Mechanical Engg.

(Guide)

S. Muralidharan

Dr. S. MURALIDHARAN

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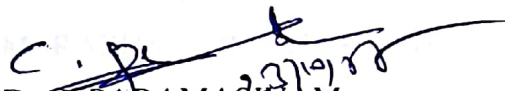
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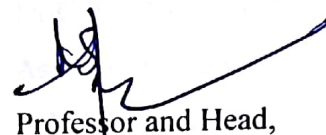
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Dr. C. PARAMASIVAM
Assistant Professor
Department of Mechanical Engg.
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Professor and Head,
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Station: Madurai

Date: 15/11/17

Submitted for VIVA-VOCE examination held at Thiagarajar College of Engineering,
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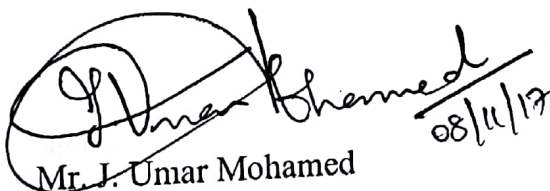
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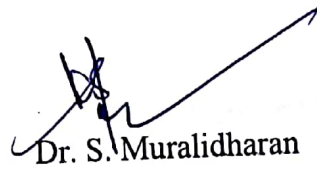


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Mr. J. Umar Mohamed

Assistant Professor
Department of Mechanical Engg.
(Guide)

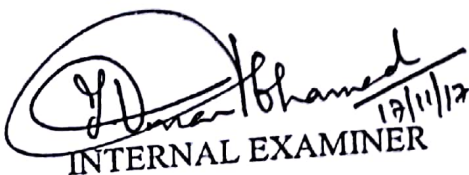

Dr. S. Muralidharan

Professor and Head,
Department of Mechanical Engg.

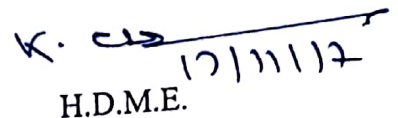
Station: Madurai

Date: 08/11/2017

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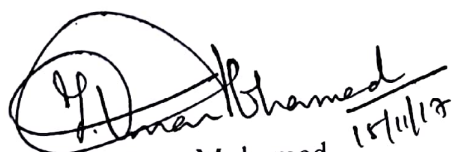
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15/11/17

Mr. J. Umar Mohamed

Assistant Professor

Department of Mechanical Engineering.

(Guide)



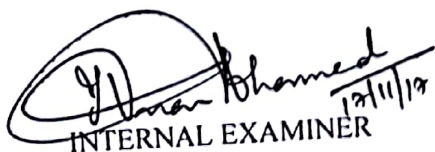
Professor and Head,

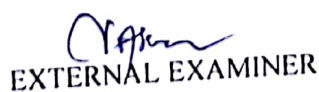
Department of Mechanical Engineering

Station:- Madurai

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Mr. M. Balamurali

Assistant Professor

Department of Mechanical Engg.

(Guide)

Dr. S. Muralidharan

Professor and Head

Department of Mechanical Engg.

Station: Madurai

Date: 17/11/17

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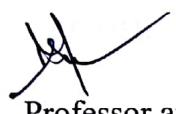
CERTIFICATE

Certified that this is a bonafide record of the 14MG340 Project Phase I done by **Mr. A.S. VIJAY PRABU** Register Number (16MF014) of Third Semester M.E. (Manufacturing Engineering) during the year 2017 - 2018


Assistant Professor

Department of Mechanical Engg.,

(Guide)

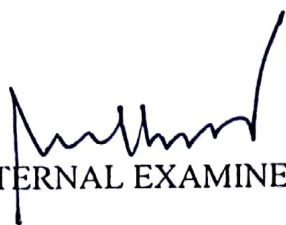

Professor and Head,

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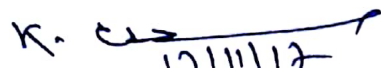
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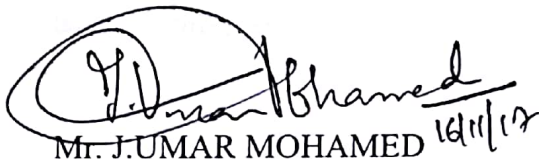
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Mr. J.UMAR MOHAMED 16/11/17

Assistant professor

Department of Mechanical Engg.

Station: Madurai

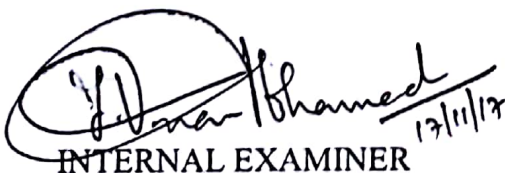


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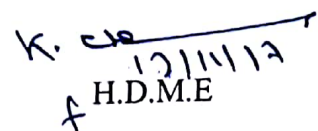
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Certified that this is a bonafide record of the 14MG340 Project Phase I done by *N. Vimal Kumar* (Register Number **16MF016**) of Third Semester M.E. (Manufacturing Engineering) during the year 2017 - 2018.

Mr. C. SELVA KUMAR
Assistant Professor,
Department of Mechanical Engg.

Dr. S. MURALIDHARAN
Professor and Head,
Department of Mechanical Engg.

Station: Madurai

Date: 14.11.2017

Submitted for VIVA-VOCE examination held at Thiagarajar College of Engineering, Madurai – 625 015, on 17.11.17.

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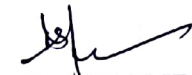


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Mr. J.UMAR MOHAMED

Assistant professor
Department of Mechanical Engg.
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Station: Madurai


Dr. S.MURALIDHARAN
Professor and Head,
Department of Mechanical Engg.

Date: 16/11/2017

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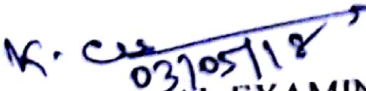

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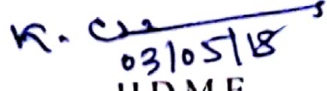
Date: 02/05/18

Station: Madurai

Submitted for VIVA-VOCE examination held at Thiagarajar College of Engineering, Madurai – 625 015, on 03/05/18.


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Dr.K.CHOCKALINGAM

Associate Professor

Department of Mechanical Engg.

(Guide)



Dr.S.MURALIDHARAN

Associate Professor and Head,

Department of Mechanical Engg.



Dr. V. GAYATHRI

Associate Professor

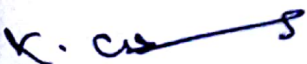
Department of Physics.

(Co-Guide)

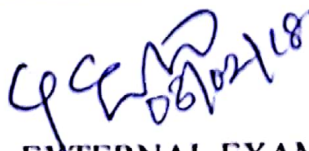
Station: Madurai

Date: 02.05.2018

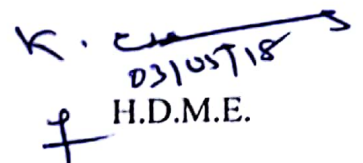
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Mr.M.Karthic

Assistant Professor

Department of Mechanical Engg.

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Dr.S.Muralidaran

Associate Professor and Head

Department of Mechanical Engg.

Station: Madurai

Date: 03.05.2018

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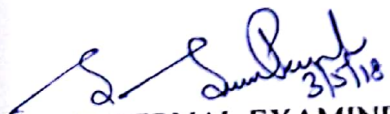

Dr S. SARAVANA PERUMAAL
(Assistant Professor)
Department of Mechanical Engg.
(Guide)



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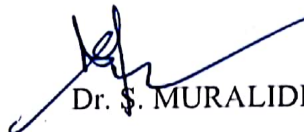


Mr. T. PRAKASH

Assistant Professor

Department of Mechanical Engg.

(Guide)



Dr. S. MURALIDHARAN

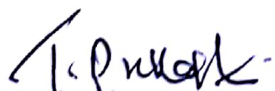
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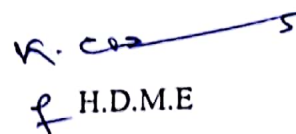
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V. KARTHIK (Register Number 16MF007) of Fourth Semester M.E.
(Manufacturing Engineering) during the year 2017 - 2018.

N. Nowela 2/5/18

Dr. N. JAWAHAR

Dean – Research and Development
Professor of Mechanical Engineering
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Dr. S. MURALIDHARAN

Associate Professor and Head,
Department of Mechanical Engg.

Station: Madurai

Date: 02.05.2018

Submitted for VIVA-VOCE examination held at Thiagarajar College of
Engineering, Madurai – 625 015, on 03.05.2018.

N. Nowela 3/5/18
INTERNAL EXAMINER

PC 03/05/18
EXTERNAL EXAMINER

K. C. S. 8
H.D.M.E.

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MADURAI – 625 015.



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Dr.K.CHOCKALINGAM

(Associate professor)

Department of Mechanical Engg.

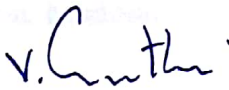
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Dr.S.MURALIDHARAN

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Department of Mechanical Engg.



Dr.V.GAYATHRI

(Associate professor)

Department of physics.

(Co-Guide)

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Date: 02.05.2018

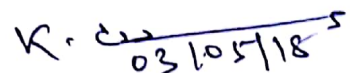
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C. P.
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Submitted for VIVA-VOCE examination held at Thiagarajar College of Engineering, Madurai – 625 015, on 03/05/18.

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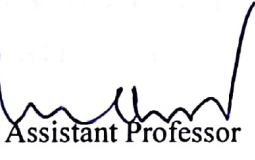
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Assistant Professor

Department of Mechanical Engg.,
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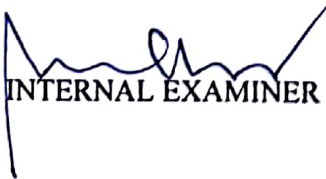


Professor and Head,
Department of Mechanical Engg.,

Station: Madurai

Date: 03.05.18

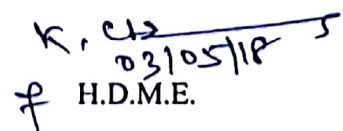
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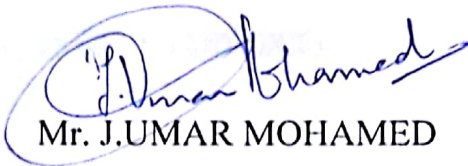
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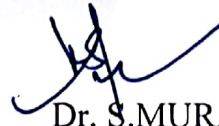


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Mr. J.UMAR MOHAMED


Assistant professor
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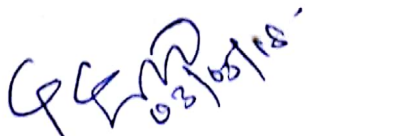


Dr. S.MURALIDHARAN
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Date: 02/05/2018

Submitted for VIVA-VOCE examination held at Thiagarajar College of Engineering, Madurai – 625 015, on 03/05/2018.


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Submitted for VIVA-VOCE examination held at Thiagarajar College of Engineering, Madurai – 625 015, on 03.05.2018.

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