DEPARTMENT OF MECHANICAL ENGINEERING

2022-23

VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI- 590018



HIRASUGAR INSTITUTE OF TECHNOLOGY, NIDASOSHI-591236

Accredited at 'A' Grade by NAAC and Recognized Under Section 2(f) of UGC Act, 1956



DEPARTMENT OF MECHANICAL ENGINEERING

CERTIFICATE

Certified that the project work entitled "ECO-FRIENDLY ADVANCED DRYER" carried out by MR.SOURABHA SHINDE SOLAR COMMUNITY **MR.RAMESH USN:2HN20ME400**, USN:2HN20ME406 ,MR.ADITYA PATIL MANJARAGI USN: 2HN20ME403 & MR.VIRUPAXAYYA MATHAD USN: 2HN20ME408 are bonafide student of HIRASUGAR INSTITUTE OF TECHNOLOGY, NIDASOSHI in partial fulfillment for the award of Bachelor Of Mechanical Engineering of the Visvesvaraya Technological University, Belagavi during the year 2022-2023. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the Report. The project report has been approved as it satisfies the academic requirements in respect of project work prescribed for the said degree.

of hatte

01 Dr. S.C.Kamate

PRINCIPAL

Dr. S.N.Topannavar Pre GUIDE

Dr. S.N. Topannavar H.O.D

External Viva

Name of the Examiners

Ackdi

Signature with date

VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI- 590018



SJP.N. Trust's HIRASUGAR INSTITUTE OF TECHNOLOGY, NIDASOSHI-591236 Accredited at "A" Grade by NAAC



DEPARTMENT OF MECHANICAL ENGINEERING

CERTIFICATE

Certified that the Project work entitled "Influence of Injection Pressure and Aluminium Oxide Nano Particle Added Fish Oil Methyl Ester on Compression Ignition Engine" carried out by Miss.Archana Ramappa Gulli USN: 2HN19ME003, Mr. Mahadev R Gulli USN: 2HN19ME007, Miss.Aayesha Sayyad **USN: 2HN18ME001**, a bonafide students of HIRASUGAR INSTITUTE OF TECHNOLOGY, NIDASOSHI in partial fulfillment for the award of Bachelor of Engineering in Electrical and Electronics Engineering of the Visvesvaraya Technological University, Belagavi during the year 2022-23. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the report deposited in the departmentallibrary.

The Project report has been approved as it satisfies the academic requirements in respect of Project Work Phase-II prescribed for the said Degree.

Dr. K. M. Akkoli

Prof. G. M. Zulapi Guide

Name of the examiners 1. pr.K. M. ARboli 2. N.B. Bholi

Topannavar

Dr. S.C.Kamate

HOD Signature with date

Principal

DEPARTMENT OF MECHANICAL ENGINEERING

2022-23

VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI- 590018



HIRASUGAR INSTITUTE OF TECHNOLOGY, NIDASOSHI-591236

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DEPARTMENT OF MECHANICAL ENGINEERING

<u>Certificate</u>

Certified that the project work entitled "Effect of Algae Biodiesel Blends with Nano-fluid Additives on CRDI Engine" carried out by Mr.Kiran S Dhange USN:2HN19ME005, Mr.Abhishek Patil USN:2HN19ME001, Mr.Vinod Soorannavar USN:2HN18ME046 and Mr.Shashidhar Gurav USN:2HN19ME010 are bonafide student of HIRASUGAR INSTITUTE OF TECHNOLOGY, NIDASOSHI in partial fulfillment for the award of Bachelor of Mechanical Engineering of the Visvesvaraya Technological University, Belagavi during the year 2022-2023. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the Report. The project report has been approved as it satisfies the academic requirements in respect of project work prescribed for the said degree.

Dr. S. N. Topannavar

Dr. S. C. Kamate Dr. M. M

H.O.D

Dr. S. C. Kamate

PRINCIPAL

GUIDES

External Viva

Name of the Examiners

Afort'

Signature with date



S.J.P.N TRUST'S

HIRASUGAR INSTITUTE OF TECHNOLOGY, NIDASOSHI – 591236

Accredited at 'A' Grade by NAAC and Recognized Under Section 2(f) of UGC Act, 1956



DEPARTMENT OF MECHANICAL ENGINEERING Certificate

This is to certify that the project report entitled "EXPERIMENTAL INVESTIGATION ON SHOT PEENING PROCESS" and report being submitted by Mr. Satigouda B Patil, Mr.Prathamesh Nilaji, Mr.Suraj Maradi, Mr.Shivanand Dodagoudar, a bonafide student of HIRASUGAR INSTITUTE OF TECHNOLOGY, NIDASOSHI in partial fulfilment for the award of Degree of Bachelor of Mechanical Engineering prescribed by Visvesvaraya Technological University, Belagavi during the academic year 2022-2023 is found satisfactory. It is certified that all corrections/suggestions indicated for internal assessment have been incorporated in the report. The project report has been approved as it satisfies the academic requirements in respect of project work prescribed for the said degree.

Prof.D.N.Inamdar 💋

Dr. S.N.Topannavar

Prof.G.M.Zulapi

Ametra

Dr. S.C.Kamato

PRINCIPAL

GUIDE

EXTERNAL VIVA

Name of the Examinar

1. Dr. K.M. Arkoli 2. N. B. Bhoi

Signatur



S.J.P.N TRUST'S

HIRASUGAR INSTITUTE OF TECHNOLOGY, NIDASOSHI – 591236

2022-23

Accredited at 'A' Grade by NAAC and Recognized Under Section 2(f) of UGC Act, 1956



DEPARTMENT OF MECHANICAL ENGINEERING 2022-23

Certificate

This is to certify that the project report entitled **"MULTICROP HARVESTING MACHINE"** and report being submitted by Mr. Vinayak Badiger, Mr. Rajkumar Khot, Mr. Akshay Magadum, Mr. Sandeep Sooji, a bonafide student of HIRASUGAR INSTITUTE OF TECHNOLOGY, NIDASOSHI in partial fulfilment for the award of Degree of Bachelor of Mechanical Engineering prescribed by Visvesvaraya Technological University, Belagavi during the academic year 2022-2023 is found satisfactory. It is certified that all corrections/suggestions indicated for internal assessment have been incorporated in the report. The project report has been approved as it satisfies the academic requirements in respect of project work prescribed for the said degree.

Prof.S.A. Goudadi

Topannavar

Dr. S.C.Kamate

GUIDE

H.O.D

PRINCIPAL



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HIRASUGAR INSTITUTE OF TECHNOLOGY, NIDASOSHI – 591236

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DEPARTMENT OF MECHANICAL ENGINEERING Certificate

This is to certify that the project report entitled "FIBRE EXTRACTION FROM BANANA STEM" and report being submitted by Mr. Dhananjayakuamr Magadum, Mr.Pavankuamr Shirahatti, Mr.Ramesh Adin, Mr.Mahadev Patrot, a bonafide student of HIRASUGAR INSTITUTE OF TECHNOLOGY, NIDASOSHI in partial fulfilment for the award of Degree of Bachelor of Mechanical Engineering prescribed by Visvesvaraya Technological University, Belagavi during the academic year 2022-2023 is found satisfactory. It is certified that all corrections/suggestions indicated for internal assessment have been incorporated in the report. The project report has been approved as it satisfies the academic requirements in respect of project work prescribed for the said degree.

Jane Prof.M.S.Futane

GUIDE

Dr. S.N. Topannavar

H.O.D

01 Dr. S.C.Kamate

PRINCIPAL

EXTERNAL VIVA

Name of the Examinar

1. Dr. K. M. ARROU 2. N.B. Bhoi

Signature



S.J.P.N TRUST'S HIRASUGAR INSTITUTE OF TECHNOLOGY, NIDASOSHI – 591236 2022-2023

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DEPARTMENT OF MECHANICAL ENGINEERING

Certificate

This is to certify that the project report entitled "SOLAR OPERATED BORE-WELL MOTOR LIFTER" and report being submitted by Mr. Akash Bagewadi, Mr.Rahul Mudalagi, Mr.Rakesh Gudasi, Mr.Sujeeth Huddar, a bonafide student of HIRASUGAR INSTITUTE OF TECHNOLOGY, NIDASOSHI in partial fulfilment for the award of Degree of Bachelor of Mechanical Engineering prescribed by Visvesvaraya Technological University, Belagavi during the academic year 2022-2023 is found satisfactory. It is certified that all corrections/suggestions indicated for internal assessment have been incorporated in the report. The project report has been approved as it satisfies the academic requirements in respect of project work prescribed for the said degree.

Prof.M.A.Hipparagi

Dr. S.N.Topannavar

Dr. S.C.Kamate

PRINCIPAL

GUIDE

H.O.D

EXTERNAL VIVA

Name of the Examinar

1. pr. K. M. Ackoli 2. N B. Bhoii

Signature