



J. S. UNIVERSITY, SHIKOHBAD, FIROZABAD, U.P.

A

DISSERTATION REPORT

ON

FOUR DIRECTION MOVEABLE VEHICLE WITH DIRECTIONAL HEADLIGHT

Submitted in partial fulfillment of the requirement for the award of Degree of

MASTER OF TECHNOLOGY

IN

MECHANICAL ENGINEERING

Under the Supervision of

Mr. Jitendra Kumar
ASSISTANT PROFESSOR



SUBMITTED BY-

SATYENDRA KUMAR PASWAN
Roll No.- 211030112001

(Session: 2022-2023)



J. S. UNIVERSITY, SHIKOHBAD, FIROZABAD, U.P.



CERTIFICATE

This is to certify that thesis entitled, “ FOUR DIRECTION MOVEABLE VEHICLE WITH DIRECTIONAL HEADLIGHT” submitted by **MR. SATYENDRA KUMAR PASWAN** in the partial fulfillment of the requirement for the award of Master of Technology in Mechanical Engineering during the session of 2022-2023 in the department of Mechanical Engineering Shikohabad (Uttar-Pradesh).

It is authenticate work carried out by him under my supervision and guidance. To the best of my knowledge, the matter embodied in this thesis has not submitted to any other University/ Institute for award of any Degree or Diploma.

Mr. Jitendra Kumar
Assistant Professor
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J. S. UNIVERSITY, SHIKOHBAD, FIROZABAD, U.P.

A

DISSERTATION REPORT

ON

Fabrication of Small Scale Sugarcane harvesting Machine

Submitted in partial fulfillment of the requirement for the award of Degree of

MASTER OF TECHNOLOGY

IN

MECHANICAL ENGINEERING

Under the Supervision of

Mr. Sanjeev Kumar Verma
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(Session: 2022-2023)



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CERTIFICATE

This is to certify that thesis entitled, “ Fabrication of Small Scale Sugarcane harvesting Machine” submitted by **MR. RAJ KUMAR** in the partial fulfillment of the requirement for the award of Master of Technology in Mechanical Engineering during the session of 2022-2023 in the department of Mechanical Engineering Shikohabad (Uttar-Pradesh).

It is authenticate work carried out by him under my supervision and guidance. To the best of my knowledge, the matter embodied in this thesis has not submitted to any other University/ Institute for award of any Degree or Diploma.

Mr. Sanjeev Kumar Verma
Assistant Professor
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J S UNIVERSITY SHIKOHABAD



J. S. UNIVERSITY, SHIKOHBAD, FIROZABAD, U.P.

A

DISSERTATION REPORT

ON

Design and Development of Cryocooler based liquid Nitrogen plant

Submitted in partial fulfillment of the requirement for the award of Degree of

MASTER OF TECHNOLOGY

IN

MECHANICAL ENGINEERING

Under the Supervision of

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It is authenticate work carried out by him under my supervision and guidance. To the best of my knowledge, the matter embodied in this thesis has not submitted to any other University/ Institute for award of any Degree or Diploma.

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J. S. UNIVERSITY, SHIKOHBAD, FIROZABAD, U.P.

A

DISSERTATION REPORT

ON

Investigation of Fly ash Polymer Composite

Submitted in partial fulfillment of the requirement for the award of Degree of

MASTER OF TECHNOLOGY

IN

MECHANICAL ENGINEERING

Under the Supervision of

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This is to certify that thesis entitled, “ Investigation of Fly ash Polymer Composite” submitted by **MR. ABHISHEK PANDEY** in the partial fulfillment of the requirement for the award of Master of Technology in Mechanical Engineering during the session of 2022-2023 in the department of Mechanical Engineering Shikohabad (Uttar-Pradesh).

It is authenticate work carried out by him under my supervision and guidance. To the best of my knowledge, the matter embodied in this thesis has not submitted to any other University/ Institute for award of any Degree or Diploma.

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J. S. UNIVERSITY, SHIKOHBAD, FIROZABAD, U.P.

A

DISSERTATION REPORT

ON

COMPOSITES FOR MACHINE TOOL BEDS

Submitted in partial fulfillment of the requirement for the award of Degree of

MASTER OF TECHNOLOGY

IN

MECHANICAL ENGINEERING

Under the Supervision of

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It is authenticate work carried out by him under my supervision and guidance. To the best of my knowledge, the matter embodied in this thesis has not submitted to any other University/ Institute for award of any Degree or Diploma.

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J. S. UNIVERSITY, SHIKOHBAD, FIROZABAD, U.P.

A

DISSERTATION REPORT

ON

**SINGLE SLOPE SOLAR STILL FOR INDUSTRIAL WASTE WATER
TREATMENT**

Submitted in partial fulfillment of the requirement for the award of Degree of

MASTER OF TECHNOLOGY

IN

MECHANICAL ENGINEERING

Under the Supervision of

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This is to certify that thesis entitled, “ SINGLE SLOPE SOLAR STILL FOR INDUSTRIAL WASTE WATER TREATMENT” submitted by **MR. MD MOZZAMMIL HASSAIN** in the partial fulfillment of the requirement for the award of Master of Technology in Mechanical Engineering during the session of 2022-2023 in the department of Mechanical Engineering Shikohabad (Uttar-Pradesh).

It is authenticate work carried out by him under my supervision and guidance. To the best of my knowledge, the matter embodied in this thesis has not submitted to any other University/ Institute for award of any Degree or Diploma.

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J. S. UNIVERSITY, SHIKOHBAD, FIROZABAD, U.P.

A

DISSERTATION REPORT

ON

**PROCESSING & CHARACTERIZATION OF NICKEL - ALUMINIDE COATING
ON METAL SUBSTRATES**

Submitted in partial fulfillment of the requirement for the award of Degree of

MASTER OF TECHNOLOGY

IN

MECHANICAL ENGINEERING

Under the Supervision of

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This is to certify that thesis entitled, “ PROCESSING & CHARACTERIZATION OF NICKEL – ALUMINIDE COATING ON METAL SUBSTRATES” submitted by **MR. RAVI PRAKASH VERMA** in the partial fulfillment of the requirement for the award of Master of Technology in Mechanical Engineering during the session of 2022-2023 in the department of Mechanical Engineering Shikohabad (Uttar-Pradesh).

It is authenticate work carried out by him under my supervision and guidance. To the best of my knowledge, the matter embodied in this thesis has not submitted to any other University/ Institute for award of any Degree or Diploma.

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J. S. UNIVERSITY, SHIKOHBAD, FIROZABAD, U.P.

A

DISSERTATION REPORT

ON

**MULTI-CRITERIA DECISION MAKING APPROACH FOR VENDOR
SELECTION**

Submitted in partial fulfillment of the requirement for the award of Degree of

MASTER OF TECHNOLOGY

IN

MECHANICAL ENGINEERING

Under the Supervision of

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This is to certify that thesis entitled, “ MULTI-CRITERIA DECISION MAKING APPROACH FOR VENDOR SELECTION” submitted by **MR. MADHAV PAL** in the partial fulfillment of the requirement for the award of Master of Technology in Mechanical Engineering during the session of 2022-2023 in the department of Mechanical Engineering Shikohabad (Uttar-Pradesh).

It is authenticate work carried out by him under my supervision and guidance. To the best of my knowledge, the matter embodied in this thesis has not submitted to any other University/ Institute for award of any Degree or Diploma.

Mr. Sanjeev Kumar Verma
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J. S. UNIVERSITY, SHIKOHBAD, FIROZABAD, U.P.

A

DISSERTATION REPORT

ON

REDUCTION OF NO_x IN DIESEL ENGINE USING DIESEL WATER EMULSION

Submitted in partial fulfillment of the requirement for the award of Degree of

MASTER OF TECHNOLOGY

IN

MECHANICAL ENGINEERING

Under the Supervision of

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CERTIFICATE

This is to certify that thesis entitled, “REDUCTION OF NO_x IN DIESEL ENGINE USING DIESEL WATER EMULSION” submitted by **MR. KUMAR PRIYAM** in the partial fulfillment of the requirement for the award of Master of Technology in Mechanical Engineering during the session of 2022-2023 in the department of Mechanical Engineering Shikohabad (Uttar-Pradesh).

It is authenticate work carried out by him under my supervision and guidance. To the best of my knowledge, the matter embodied in this thesis has not submitted to any other University/ Institute for award of any Degree or Diploma.

Mr. RamManohar Singh Yadav
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J. S. UNIVERSITY, SHIKOHBAD, FIROZABAD, U.P.

A

DISSERTATION REPORT

ON

Submitted in partial fulfillment of the requirement for the award of Degree of

MASTER OF TECHNOLOGY

IN

MECHANICAL ENGINEERING

Under the Supervision of

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J. S. UNIVERSITY, SHIKOHBAD, FIROZABAD, U.P.



CERTIFICATE

This is to certify that thesis entitled, “ ” submitted by **MR.** in the partial fulfillment of the requirement for the award of Master of Technology in Mechanical Engineering during the session of 2022-2023 in the department of Mechanical Engineering Shikohabad (Uttar-Pradesh).

It is authenticate work carried out by him under my supervision and guidance. To the best of my knowledge, the matter embodied in this thesis has not submitted to any other University/ Institute for award of any Degree or Diploma.

Assistant Professor
Department of Mechanical Engineering
J S UNIVERSITY SHIKOHABAD

A
DISSERTATION REPORT
ON
UTILIZATION OF PIEZOELECTRIC MATERIALS FOR ENERGY
HARVESTING

Submitted in partial fulfillment of the requirement for the award of Degree of

MASTER OF TECHNOLOGY

IN

MECHANICAL ENGINEERING

UNDER SUPERVISION

OF

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CERTIFICATE

This is to certified that Shipra Jha has carried out the research work presented in this Thesis entitled **“UTILIZATION OF PIEZOELECTRIC MATERIALS FOR ENERGY HARVESTING”** for the award of Master of Technology in Mechanical Engineering from J.S. University, Shikhoabad under my supervision. The Thesis embodies result of original work and studies carried out by Student himself and the contents of the Thesis do not form the basis for the award of any other degree to the candidate or to anybody else.

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