

To study the nutrient management practices
on growth, yield and productivity of wheat
(*Triticum aestivum* L.).

THESIS

Submitted to the
J.S. UNIVERSITY, SHIKOHABAD, U.P. INDIA
IN PARTIAL FULFILLMENT OF THE REQUIREMENTS
FOR THE DEGREE OF

**Master of Science(Agriculture)
(Agronomy)**

BY

Abhishek Verma
Roll. No. 212040104003

Under the Supervision of
Dr. Umesh Kumar Mishra



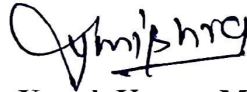
Department of Agronomy, School of Agriculture,
J.S. University, Shikohabad, (U.P.) India

2023

CERTIFICATE - I

This is to certify that the thesis entitled “**To study the nutrient management practices on growth, yield and productivity of wheat (*Triticum aestivum* L.)**”. submitted in partial fulfillment of the requirements for the degree of “**Master of Science (Agriculture)**” with major in “**Agronomy**” of the School of Agriculture, Post Graduate Studies, J.S. University Shikohabad, U.P. is a record of *bonafide* research work carried out by **Mr. Abhishek Verma, Roll No.: 212040104003** under my supervision and that no part of the thesis has been submitted for any other degree.

The assistance and help received during the course of this investigation have been acknowledged.



Dr. Umesh Kumar Mishra
Chairman

(Advisory Committee)
Department of Agronomy
J.S. University Shikohabad, U.P.

Sept, 2023

**FACTORS AFFECTING DRYLAND GRAIN SORGHUM MATURITY AND
PRODUCTION IN U P**

THESIS



Submitted to the

J. S. UNIVERSITY SHIKOHABAD, FIROZABAD U. P. (INDIA)

In partial fulfilment of the requirements for the award of degree of

MASTER OF SCIENCE

IN

(AGRONOMY)

BY

Mr. KARTIKEY

(Roll No. 212040104032)

Under the Supervision of

Mr. UMESH BABU MISHRA

**DEPARTMENT OF AGRONOMY, SCHOOL OF AGRICULTURE J. S. UNIVERSITY
SHIKOHABAD, FIROZABAD U.P. (INDIA)**

2023

J. S. UNIVERSITY SHIKOHABAD (FIROZABAD), U.P.

CERTIFICATE - I

This is to certify that the thesis entitled “ **FACTORS AFFECTING DRYLAND GRAIN SORGHUM MATURITY AND PRODUCTION U P** ” submitted in partial fulfilment of the requirements for the degree of **Master of Science in Agriculture** with major in **Agronomy and minor in Soil Science** of **J. S. University Shikohabad (Firozabad) U. P.** is carried out by **Mr. Kartikey**, under my supervision and no part of the thesis has been submitted for any other degree or diploma. The assistance and help received during the course of this investigation and source of literature have been duly acknowledged.

(Dr. R. A. Kushwaha)
Head
Department of Agriculture
J. S. UNIVERSITY, SHIKOHABAD (FIROZABAD) U. P.

**Studies on bio-efficacy of pre and post emergence herbicides
against diverse weed flora of wheat (*Triticum aestivum.L.*) under
north west semi-arid zone of U.P.**

THESIS

Submitted to the



**J.S. UNIVERSITY, SHIKOHABAD, (FIROZABAD), U.P. INDIA
IN PARTIAL FULFILLMENT OF THE REQUIREMENTS
FOR THE DEGREE OF**

**Master of Science (Agriculture)
(Agronomy)**

BY

Ashu Prajapati

Roll. No. 212040104013

Under the Supervision of

Mr. Umesh Babu Mishra

**Department of Agronomy, School of Agriculture, J.S. University,
Shikohabad, Firozabad, (U.P.) India**

2023

CERTIFICATE - I

This is to certify that the thesis entitled “ **Studies on bio-efficacy of pre and post emergence herbicides against diverse weed flora of wheat (*Triticum aestivum L.*) under north west semi-arid zone of U.P.**” submitted in partial fulfillment of the requirements for the degree of “**Master of Science (Agriculture)**” with major in “**Agronomy**” of the School of Agriculture, Post Graduate Studies, J.S. University Shikohabad, U.P. is a record of *bonafide* research work carried out by **Mr. Ashu Prajapati** , Roll No.: 212040104012 under my supervision and that no part of the thesis has been submitted for any other degree.

The assistance and help received during the course of this investigation have been acknowledged.



Mr. Umesh Babau Mishra
Chairman
(Advisory Committee)
Department of Agronomy
J.S. University Shikohabad, U.P.

July, 2023

Dr. Gaurav Yadav
(Director)
J.S. University Shikohabad, U.P.

**"Effect of crop establishment methods and nitrogen levels on
productivity of rice (*Oryza sativa* L.)"**

THESIS

Submitted to the

J.S. UNIVERSITY, SHIKOHABAD, U.P. INDIA

IN PARTIAL FULFILLMENT OF THE REQUIREMENTS

FOR THE DEGREE OF

Master of Science(Agriculture)

(Agronomy)

BY

Dheeraj Pal

Roll. No. 212040213006

Under the Supervision of

Dr.R.K. Pachauri



**Department of Agronomy, School of Agriculture, J.S. University,
Shikohabad, (U.P.) India**

2023

CERTIFICATE-II

We, the undersigned, member of Advisory Committee of by **Mr. Dheeraj Pal** , Roll No.: 212040213006 a candidate for the degree of **Master of Science (Agriculture)** with major in **Agronomy** agree that the thesis entitled "Effect of crop establishment methods and nitrogen levels on productivity of rice (*Oryza sativa* L.)" may be submitted in partial fulfillment of the requirements for the degree.

Dr. R.A. Khushwaha

HOD

Department of Agronomy
J.S. University Shikohabad, U.P

Dr. R.K. Pachauri

(Major Advisor)

Department of Agronomy
J.S. University Shikohabad, U.P



Mr. Umesh Babu Mishra

(Co-Advisor)

Department of Agronomy
J.S. University Shikohabad, U.P.

Dr. Gaurav Yadav

(Director)

J.S. University Shikohabad, U.P.

“Evolution of weed management practices under organic production system of wheat”

THESIS



**SUBMITTED IN
PARTIAL FULFILLMENT OF THE REQUIREMENTS
FOR THE DEGREE
OF
MASTER OF SCIENCE (AGRICULTURE)
IN
AGRONOMY**

2023-24

Submitted by:

Ankit

Roll No.212040113002

Under the guidance of:

Mr. Swadesh Yadav

Assistant Professor

**DEPARTMENT OF AGRONOMY
COLLEGE OF AGRICULTURE
J.S UNIVERSITY SHIKOHABAD FIROZABAD
(U.P.) INDIA**

Mr. Swadesh Yadav
Deptt. of agronomy

J. S. University Shikohabad,
Firozabad
Deptt. of Agronomy

Certificate

This is to certify that Ankit, Id.N0. 212040113002 college of Agriculture j.s.university shikohabad Firozabad, a candidate for the degree of **Master of Science** in Agriculture with major in Agronomy, has been working under my guidance and supervision during the year 2022-2023 session and that the present thesis entitled “**Evolution of weed management practices under organic production system of wheat (*Triticum aestivum* L.)**” which he is submitting in partial fulfillment for the award of degree of master of science in agriculture, is his genuine work.

Date:

Place: Shikohabad

Chairman
Advisory Committee
Mr. Swadesh yadav

**EFFECT OF PHOSPHORUS AND ZINC ON YIELD, QUALITY AND
UPTAKE OF NUTRIENT BY BARLEY (*Hordeum Vulgare* L.)**

(THESIS)

Submitted to the

J. S. UNIVERSITY SHIKOHABAD, (U.P.) INDIA

In partial fulfillment of the requirements for the award of degree of

MASTER OF SCIENCE

IN

(AGRONOMY)

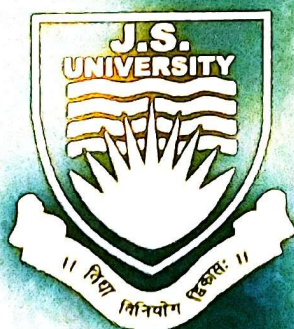
BY

Mr. VIKAS YADAV

Roll Number: 212040113023

Under the supervision of

Dr. R. K. PACHAURI



Department of Agronomy, J.S. University, Shikohabad, U.P. India


2023

J. S. UNIVERSITY SHIKOHABAD (FIROZABAD), U. P.

CERTIFICATE - I

This is to certify that the thesis entitled “**EFFECT OF PHOSPHORUS AND ZINC ON YIELD, QUALITY AND UPTAKE OF NUTRIENT BY BARLEY (*Hordeum Vulgare L.*)**”. submitted by **Mr. VIKAS YADAV (Roll No. 212040113023)** s/o Shri Rakesh Yadav to the J. S. University, Shikohabad, in partial fulfilment of the requirements for the degree of Master of Agriculture/Horticulture in the discipline of Agronomy has been approved by the Advisory Committee after an oral examination of the student in collaboration with an External Examiner.

Dr. R. A. Kushwaha
(HOD)
Department of Agronomy
J. S. University Shikohabad, U. P.


Dr. R. K. PACHAURI
(Major advisor)
Department of Agronomy
J. S. University Shikohabad, U. P.

Dr. Gaurav Yadav
(Director General)
J. S. University Shikohabad, U. P.

Nitrogen and Sulphur impacts on potato
(*Solanum tuberosum* L.) growth and
yield specifications

THESIS

PRESENTED TO THE J.S. UNIVERSITY SHIKOHABAD IN
PARTIAL FULFILLMENT OF THE REQUIREMENTS
FOR THE DEGREE OF

MASTER OF SCIENCE
IN
AGRONOMY

By

Mr. Ankit Kumar

(Registration No. 212040104010)

Under the supervision of
Dr. R. K. Pachauri



Department of Agronomy
School of Agriculture
J. S. UNIVERSITY SHIKOHABAD
(SHIKOHABAD) U. P. 286135

2023

J. S. UNIVERSITY SHIKOHABAD, (FIROZABAD) U. P.

CERTIFICATE - I

This is to certify that the thesis entitled “**Nitrogen and Sulphur impacts on potato (*Solanum tuberosum* L.) growth and yield specifications**” submitted in partial fulfillment of the requirements for the degree of Master of Science in Agriculture with major in Agronomy and minor in Soil Science of J. S. University Shikohabad (Firozabad) U. P. is carried out by **Mr. Ankit Kumar**, under my supervision and no part of the thesis has been submitted for any other degree or diploma.

The assistance and help received during the course of this investigation and source of literature have been duly acknowledged.



(Dr. R. A. Kushwaha)
(Head)

Department of Agriculture
J. S. UNIVERSITY, SHIKOHABAD
FIROZABAD, U.P.

**Performance of barley (*Hordeum vulgare* L.) Varieties under
different tillage practices.**

THESIS

Submitted to the

J.S. UNIVERSITY, SHIKOHABAD, U.P. INDIA

IN PARTIAL FULFILLMENT OF THE REQUIREMENTS

FOR THE DEGREE OF

**Master of Science(Agriculture)
(Agronomy)**

BY

Sunil Yadav

Roll. No.212040104056

Under the Supervision of

Mr. Swadesh Kumar



**Department of Agronomy, School of Agriculture, J.S. University
Shikohabad, (U.P.) India**

2023

CERTIFICATE - I

This is to certify that the thesis entitled "**Performance of barley (*Hordeum vulgare L.*) Varieties under different tillage practices**". submitted in partial fulfillment of the requirements for the degree of "**Master of Science (Agriculture)**" with major in "**Agronomy**" of the School of Agriculture, Post Graduate Studies, J.S. University Shikohabad, U.P. is a record of *bonafide* research work carried out by **Mr. Sunil Yadav**, **Roll No.: 212040104056** under my supervision and that no part of the thesis has been submitted for any other degree.

The assistance and help received during the course of this investigation have been acknowledged.

JULY, 2023

Dr. Swadesh Kumar
Chairman
(Advisory Committee)
Department of Agronomy
J.S. University Shikohabad, U.P.

**Performance of irrigated wheat
varieties under varying levels of nitrogen
(*Triticum aestivum*)**

THESIS

Submitted to the

J.S. UNIVERSITY SHIKOHABAD FIROZABAD U.P.INDIA



**In partial fulfillment of the requirement For the Degree of
MASTER OF SCIENCE**

In

Agriculture

(Agronomy)

BY

SANJAY SINGH

ROLL-212040104048

ENROLLM-J212040066

Under the supervision of
Mr. UMESH BABU MISHRA

Department of Agronomy

**J.S. Agriculture, University Shikohabad Firozabad ,
U.P.India**

2023

CERTIFICATE- I

This is to certify that the thesis entitled “**Performance of irrigated wheat varieties under varying levels of nitrogen**” submitted in partial fulfillment of the requirement for the degree of “**MASTER OF SCIENCE in Agriculture (Agronomy)**” of J.S.University, Shikohabad Firozabad is a record of the bonafide research work carried out by **Mr. Sanjay singh** under my guidance and supervision. The subject of the thesis has been approved by the Student's Advisory Committee and the Director of Instructions.

No part of the thesis has been submitted for any other degree or diploma (certificate awarded etc.) or has been published / published part has been fully acknowledged. All the assistance and help received during the course of the investigation has been acknowledged by him

THESIS APPROVED BY THE STUDENT'S ADVISORY COMMITTEE



(Mr. Uemsh Mishra)
Assistant Professor
Department of Agriculture
J.S.University Shikohabad Firozabad u.p.

(Dr. R. K. Pachauri)
Assistant Professor
Department of Agriculture
J.S.University Shikohabad Firozabad u.p.

(Dr. R.A.Kushwaha)
Dean
Department of Agriculture
J.S.University Shikohabad Firozabad u.p.

(Dr. Gaurav Yadav)
Director Journal
J.S.University Shikohabad Firozabad u.p.

**EFFECT OF PHOSPHORUS LEVEL ON GROWTH AND YIELD OF
DIFFERENT KABULI CHICKPEA VARIETIES.**

(THESIS)

Submitted to the

J. S. UNIVERSITY SHIKOHABAD, (U.P.) INDIA

In partial fulfillment of the requirements for the award of degree of

MASTER OF SCIENCE

IN

(AGRONOMY)

BY

Mr. VIKAS MAURYA

Roll Number: 212040113022

Under the supervision of

Mr. UMESH BABU MISHRA



Department of Agronomy, J.S. University, Shikohabad, U.P. India


2023

J. S. UNIVERSITY SHIKOHABAD (FIROZABAD), U. P.

CERTIFICATE - I

This is to certify that the thesis entitled **“EFFECT OF PHOSPHORUS LEVEL ON GROWTH AND YIELD OF DIFFERENT KABULI CHICKPEA VARIETIES”**. submitted by **Mr. VIKAS MAURYA (Roll No. 212040113022)** s/o Shri Ashok Kumar to the J. S. University, Shikohabad, in partial fulfilment of the requirements for the degree of Master of Agriculture/Horticulture in the discipline of Agronomy has been approved by the Advisory Committee after an oral examination of the student in collaboration with an External Examiner.

Dr. R. A. Kushwaha
(HOD)
Department of Agronomy
J. S. University Shikohabad, U.P.


Mr. Umesh Babu Mishra
(Major advisor)
Department of Agronomy
J. S. University Shikohabad, U.P.

Dr. Gaurav Yadav
(Director General)
J. S. University Shikohabad, U. P.

**Effect of Sowing date and nutrient management of forage yield
and quality of oat under semi-arid region of U.P.**

THESIS

Submitted to the

J.S. UNIVERSITY, SHIKOHABAD, U.P. INDIA

IN PARTIAL FULFILLMENT OF THE REQUIREMENTS

FOR THE DEGREE OF

**Master of Science(Agriculture)
(Agronomy)**

BY

Kuvar Uday Pratap Singh

Roll. No. 212040113031



**Department of Agronomy, School of Agriculture, J.S. University,
Shikohabad, (U.P.) India**

2023

Department Agronomy

J.S. University Shikohabad, U.P

Mr. Umesh Babu Mishra

Associate Professor

CERTIFICATE

This is to certify that the thesis entitled “**Effect of Sowing date and nutrient management of forage yield and quality of oat under semi-arid region of U.P.**” submitted in partial fulfillment of the requirements for the degree of **Master of Science in Agriculture** with major in **Agronomy** and minor in **Soil Science and Agricultural Chemistry** of the College of Post Graduate Studies, J.S. University, Shikohabad, is a record of *bonafide* research carried out by **Mr. Kuvar Uday Pratap Singh, Roll No.: 212040113031**, under my supervision and no part of the thesis has been submitted for any other degree or diploma.

The assistance and help received during the course of this investigation and source of literature have been acknowledged.



Mr. Umesh Babu Mishra

**Chairman
(Advisory Committee)**

**“STUDIES ON THE EFFECT OF VERMICOMPOST AND
INORGANIC FERTILIZERS ON PRODUCTIVITY AND
PROFITABILITY OF LATE SOWN OF WHEAT”**

THESIS

Submitted to the

J.S. UNIVERSITY, SHIKOHABAD, U.P. INDIA

IN PARTIAL FULFILLMENT OF THE REQUIREMENTS

FOR THE DEGREE OF

***Master of Science(Agriculture)
(Agronomy)***

BY

JITENDRA

Roll. No. 212040104030



**Department of Agronomy, School of Agriculture, J.S. University,
Shikohabad, (U.P.) India**

2023

CERTIFICATE - I

This is to certify that the thesis entitled "STUDIES ON THE EFFECT OF VERMICOMPOST AND INORGANIC FERTILIZERS ON PRODUCTIVITY AND PROFITABILITY OF LATE SOWN OF WHEAT" (submitted in partial fulfillment of the requirements for the degree of "**Master of Science (Agriculture)**") with major in "**Agronomy**" of the School of Agriculture, Post Graduate Studies, J.S. University Shikohabad, U.P. is a record of *bonafide* research work carried out by **Mr. JITENDRA, Roll No.:** 212040104030 under my supervision and that no part of the thesis has been submitted for any other degree.

The assistance and help received during the course of this investigation have been acknowledged.

Dr. R.K. Pachauri

(Advisory Committee)

Department of Agronomy

J.S. University Shikohabad, U.P.

May, 2023

“Effect of Irrigation level and Manures along with Biofertilizers on Growth, Yield and Quality of Chickpea under late sown condition for Central Plain Agro-climatic zone of U.P.”



THESIS
SUBMITTED
IN
PARTIAL FULFILMENT OF THE REQUIREMENTS
FOR THE DEGREE
OF
MASTER OF SCIENCE OF AGRICULTURE
IN
AGRONOMY
2023

Submitted by:

Chandan Gupta

Roll No.-212040104020

Enroll No: J212040029

Under the guidance of:

Dr. R.K.Pachauri

(Advisory Committee)

DEPARTMENT OF AGRONOMY

J.S. University Shikohabad Firozabad U.P.

283205

Dr. Roop Kishor Pachauri

Department of Agronomy



Department of Agronomy

J.S. University Shikohabad

Firozabad-283205

(U.P) INDIA

C E R T I F I C A T E

This is certified that **Mr. Chandan Gupta, Roll No.-212040104020 and Enroll No: J212040029, Collage of Agriculture, J.S.University Shikohabad Firozabad-283205 (U.P) INDIA** a candidate for the degree of Master of Science in Agriculture with major subject (**Agronomy**) has been working under my guidance and supervision during year 2015-2017 session and that the present thesis entitled "**Effect of irrigation level and manures along with biofertilizers on growth, yield and quality of chickpea under late sown condition for central plain Agroclimatic zone of U.P.**"

Which he is submitting in partial fulfilment for the award of degree of Master of Science in Agriculture is his genuine work.

Dr. R.K.Pachauri

(Major-Advisor)

Department of Agronomy

J.S. University Shikohabad

Dr. Umesh Babu Mishra

(Co-Advisor)

Department of Agronomy

J.S. University Shikohabad

Mr.Gaurav Yadav

(Director)

J.S. University Shikohabad U.p

**Studies on phosphorus requirement of timely sown
irrigated wheat varieties**

THESIS

Submitted to the

J.S.UNIVERSITY,SHIKOHABAD,FIROZABAD(U.P)INDIA



In partial fulfilment of the requirement

For the award of degree

Of

MASTER OF SCIENCE

In

Agriculture

(Agronomy)

By

Mr. PRADEEP KUMAR

(ROLL-NO.212040104041)

ENROLL .No.- J212040057

Under the supervision of
Mr. UMESH BABU MISHRA

Department of Agronomy

J.S.UNIVERSITY,SHIKOHABAD,FIROZABAD (U.P).INDIA

2023

CERTIFICATE- I

This is to certify that the thesis entitled "**Studies on phosphorus requirement of timely sown irrigated wheat varieties**" Submitted in partial fulfillment of the requirement for the degree of "**MASTER OF SCIENCE in Agriculture (Agronomy)**" of J.S. University Shikohabad Firozabad (U.P.) is a record of the bonafide research work carried out by **Mr. Pradeep Kumar** under my guidance and supervision. The subject of the thesis has been approved by the Student's Advisory Committee and the Director of Instructions.

No part of the thesis has been submitted for any other degree or diploma (Certificate awarded etc.) or has been published / published part has been fully acknowledged. All the assistance and help received during the course of the investigation has been acknowledged by him.

THESIS APPROVED BY THE STUDENT'S ADVISORY COMMITTEE


(Mr. Uemsh Babu Mishra)

Assistant Professor

Department of Agriculture

J.S.University Shikohabad Firozabad u.p.

(Dr. R. K. Pachauri)

Assistant Professor

Department of Agriculture

J.S.University Shikohabad Firozabad u.p.

(Dr.R.A.Kushwaha)

Dean

Department of Agriculture

J.S.University Shikohabad Firozabad u.p.

Dr. Gaurav Yadav

Director Journal

J.S.University Shikohabad Firozabad u.p.

**“Response of timely sown wheat genotypes
under limited irrigation conditions in western
up”**



**Thesis
Submitted
IN
Partial Fulfilment of the Requirements for The
Degree
OF
Master of Science in Agriculture
IN
AGRONOMY
2023**

Submitted by:

Kapil kumar Chaudhary

Roll No.212040104031

Enroll No. J212040047

Under the guidance of:

Dr. Umesh Mishra

Professor/Agronomist

**DEPARTMENT OF AGRONOMY
J.S UNIVERSITY SHIKHOHABAD FIROZABAD (U.P)**

J.S UNIVERSITY SHIKHOHABAD FIROZABAD (U.P)

Dr. Umesh Mishra
Professor/
Agronomist



Department of Agronomy
J.S UNIVERSITY SHIKHOHABAD
FIROZABAD (U.P)

CERTIFICATE

This is to certify that the work recorded in this thesis entitled, "Response of timely sown wheat genotypes under limited irrigation conditions in western up" Submitted in partial fulfillment of the requirements for the degree of **Master of Science in Agriculture (Agronomy)** J.S UNIVERSITY SHIKHOHABAD FIROZABAD (U.P) of the faculty of Post-Graduate Studies, is the faithful record of the bonafide research work carried out by **kapil kumar chaudhary** under my guidance and supervision.

The results of the investigation reported in this thesis have not so far been submitted for any other degree or diploma. The assistance and help received during the course of this investigation and source of literature have been fully acknowledged.

Mr. Gaurav Yadav
(Director)

J.S UNIVERSITY SHIKHOHABAD FIROZABAD (U.P)

Dr. Umesh Mishra
(Advisor)

Department of Agronomy

Signature of condidate

Date

**RESPONSE OF PUDDLED RICE TO
PHOSPHORUS MANAGEMENT UNDER
SEMI-ARID REGION**

THESIS

**SUBMITTED TO THE J.S. UNIVERSITY SHIKOHABAD IN
PARTIAL FULFILMENT OF THE REQUIREMENTS
FOR THE DEGREE OF**

**MASTER OF SCIENCE
IN
AGRONOMY**

BY

**Mr. GAJENDRA SINGH
(Roll No. 212040104025)**

**Under the supervision of
Dr. R. K. Pachauri**



**Department of Agronomy
School of Agriculture
J. S. UNIVERSITY SHIKOHABAD
(PIROZABAD) U. P. 283135**

2023

**J. S. UNIVERSITY SHIKOHABAD (FIROZABAD), U. P.
CERTIFICATE - I**

This is to certify that the thesis entitled “**RESPONSE OF PUDDLED RICE TO PHOSPHORUS MANAGEMENT UNDER SEMI-ARID REGION**” submitted by **Mr. GAJENDRA SINGH** (Roll No. 212040104025) s/o **SHRI GANGA SINGH** to the J. S. University, Shikohabad, in partial fulfilment of the requirements for the degree of Master of Agriculture/Horticulture in the discipline of Agronomy has been approved by the Advisory Committee after an oral examination of the student in collaboration with an External Examiner.



(Dr. R. K. Pachauri)
(Major Advisor)
Department of Agriculture
J. S. University Shikohabad,
Firozabad U. P.

(Mr. Umesh Babu Mishra)
(Assistant Professor)
Department of Agriculture
J. S. University Shikohabad,
Firozabad U. P.

(Dr. R. A. Kushwaha) (Dean
Department of Agriculture
J. S. University Shikohabad,
Firozabad U. P.

(Dr. Gaurav Yadav)
(Director Journal)
J. S. University Shikohabad, (Firozabad) U. P.

**Effect of deferent sowing method on growth and yield
of maize crop (*Zea mays* L.) in Uttar Pradesh alluvial
soils**

Thesis

Submitted to the J. S. University Shikohabad in partial fulfillment of the requirements
for the degree of

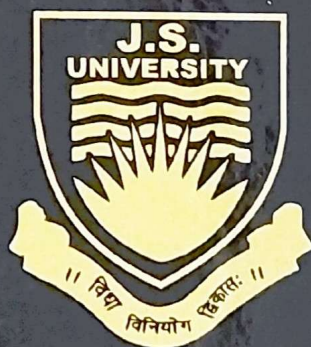
**MASTER OF SCIENCE
in
AGRONOMY**

By

Mr. Navneet kumar

Under the supervision of

Mr. Umesh Babu Mishra



Department of Agronomy

J. S. UNIVERSITY SHIKOHABAD, (FIROZABAD) U. P.

2023

CERTIFICATE

This is to certify that thesis entitled " Effect of deferent sowing method on **growth and yield of maize crop (*Zea mays L*) in Uttar Pradesh alluvial Soils**" submitted in partial fulfillment of the requirement for the degree of "**Master of Science in Agriculture (Agronomy)**" of J. S. University Shikohabad, U. P. is a record of a Bonafede research work carried out by **Mr. Navneet kumar** under my guidance and supervision.

Place: Shikohabad, U. P.

Date: / / **2023**

Mr. Umesh Babu Mishra

Assistant Professor.

Department of Agriculture

J. S. University Shikohabad, Firozabad U. P.

(Dr. R. A. Kushwaha)

Dean

Department of Agriculture

J. S. University Shikohabad, Firozabad U. P.

(Dr. Gaurav Yadav)

Director Journal

J. S. University Shikohabad, (Firozabad) U. P.

RESPONSE OF NITROGEN LEVELS ON MALT BARLEY
GENOTYPES UNDER OF IRRIGATED TIMELY SOWN
CONDITIONS IN BARLEY
(*Hordeum Vulgare L.*)

(THESIS)

Submitted to the
J. S. UNIVERSITY SHIKOHABAD, (U. P.) INDIA
In partial fulfillment of the requirements for the award of degree of

MASTER OF SCIENCE
IN
(AGRONOMY)

BY

Mr. SAURABH YADAV
(Roll Number: 212040104058)

Under the supervision of
Mr. SWADESHI KUMAR



Department of Agronomy, J. S. University,
Shikohabad, U. P., India
2023

J. S. UNIVERSITY SHIKOHABAD (FIROZABAD), U. P.

CERTIFICATE - II

This is to certify that the thesis entitled “**RESPONSE OF NITROGEN LEVELS ON MALT BARLEY GENOTYPES UNDER OF IRRIGATED TIMELY SOWN CONDITIONS IN BARLEY (Hordeum Vulgare L.)**” submitted in partial fulfillment of the requirements for the degree of Master of Science in **Agronomy** of the Department of Agronomy, School of Agriculture, J. S. University, Shikohabad (U. P.) is a record of Bonafede research carried out by **Mr. SAURABH YADAV**, under my supervision and no part of the thesis has been submitted for any other degree or diploma.

The assistance and help received during the course of this investigation have been duly acknowledged.

Dr. R. A. Kushwaha
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Mr. Swadesh Kumar
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Dr. Gaurav Yadav
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Effect of intergrated weed management pratices and irrigation management
on weed flora and performance of pearl millet under pearl millet
potato cropping system

Thesis

Submitted to the J.S. University Shikohabad in
partial fulfilment of the requirements
for the degree of

MASTER OF SCIENCE
In
AGRONOMY

MR. Ajay Kumar
(Roll. No. 212040104005)

Under the supervision of
Dr. R.K. Pachauri



Department of Agronomy
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J.S. UNIVERSITY SHIKOHABAD
(FIROZABAD) U.P. 283135

2023

J. S. UNIVERSITY SHIKOHABAD, (FIROZABAD) U. P.

CERTIFICATE - I

This is to certify that the thesis entitled “Effect of integrated weed management practices and irrigation management on weed flora and performance of pearl millet under pearl millet potato cropping system”

submitted in partial fulfillment of the requirements for the degree of Master of Science in Agriculture with major in Agronomy and minor in Soil Science of J. S. University Shikohabad (Firozabad) U. P. is carried out by **Mr. Ajay Kumar**, under my supervision and no part of the thesis has been submitted for any other degree or diploma.

The assistance and help received during the course of this investigation and source of literature have been duly acknowledged.

(Mr. Umesh Babu Mishra)
(~~Dr. R. K. Bhatnagar~~)
(Advisor)

Department of Agriculture
J. S. UNIVERSITY, SHIKOHABAD
FIROZABAD, U.P.

Performance of Black Gram

Thesis

Submitted to the J. S. University
Shikohabad in partial fulfillment of
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For the degree of

MASTER OF SCIENCE
In AGRONOMY

By

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2023

J. S. UNIVERSITY SHIKOHABAD, (FIROZABAD) U. P.

CERTIFICATE-I

This is to certify that the thesis entitled “**Effect of Irrigation Scheduling and Nutrient Management on Performance of Black Gram**” submitted in partial fulfillment of the requirements for the degree of Master of Science in Agriculture with major in Agronomy and minor in Soil Science of J. S. University Shikohabad (Firozabad) U. P. is carried out by **Mr. Reetesh Parashar** , under my supervision and no part of the thesis has been submitted for any other degree or diploma.

The assistance and help received during the course of this investigation and source of literature have been duly acknowledged.

(Mr.Umesh Babu Mishra)
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**Effect of different sowing method on growth and
yield of maize crop uttar pradesh alluvial soils**

Thesis

**Submitted to the J. S. University Shikohabad in partial fulfillment of the requirements
for the degree of**

**MASTER OF SCIENCE
in
AGRONOMY**

By

Mr. Harnath

**Under the supervision of
Dr. Roop Kishor Pachauri**



Department of Agronomy

J. S. UNIVERSITY SHIKOHABAD, (FIROZABAD) U. P.

2023

CERTIFICATE

This is to certify that thesis entitled “**Effect of different sowing method on growth and yield of maize crop in Uttar Pradesh alluvial soils**” submitted in partial fulfillment of the requirement for the degree of “**Master of Science in Agriculture (Agronomy)**” of J. S. University Shikohabad, U. P. is a record of a Bonafide research work carried out by **Mr. Harnath** under my guidance and supervision.

Place: Shikohabad, U. P. (Dr. Roop Kishor Pachauri)

Date: / / 2023

Major Advisor

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(Dr. R. A. Kushwaha)

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Director Journal

J. S. University Shikohabad, (Firozabad) U. P.

**Effect of deferent sowing method and quantity of
irrigation water on growth and yield of maize crop
(*Zea mays* L.) in Uttar Pradesh alluvial soils**

Thesis

**Submitted to the J. S. University Shikohabad in partial fulfillment of the requirements
for the degree of**

**MASTER OF SCIENCE
in
AGRONOMY**

By

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2023

CERTIFICATE

This is to certify that thesis entitled " Effect of deferent sowing method and quantity of irrigation water on growth and yield of maize crop (*Zea mays L*) in Uttar Pradesh alluvial Soils" submitted in partial fulfillment of the requirement for the degree of "Master of Science in Agriculture (Agronomy)" of J. S. University Shikohabad, U. P. is a record of a Bonafide research work carried out by **Mr. Neelesh Kumar** under my guidance and supervision.



Place: Shikohabad, U. P. **Mr. Umesh Babu Mishra**

Date: / / 2023

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J. S. University Shikohabad, (Firozabad) U. P.

J. S. UNIVERSITY SHIKOHABAD (FIROZABAD), U. P.

CERTIFICATE - I

This is to certify that the thesis entitled "EFFECT OF PHOSPHORUS LEVEL ON GROWTH AND YIELD OF DIFFERENT KABULI CHICKPEA VARIETIES". submitted by Mr. DUSHYANT KUMAR (Roll No. 212040113006) s/o Shri Ramesh Chandra Verma to the J. S. University, Shikohabad, in partial fulfilment of the requirements for the degree of Master of Agriculture/Horticulture in the discipline of Agronomy has been approved by the Advisory Committee after an oral examination of the student in collaboration with an External Examiner.

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**EFFECT OF PHOSPHORUS LEVEL ON GROWTH AND YIELD OF
DIFFERENT KABULI CHICKPEA VARIETIES.**

(THESIS)

Submitted to the

J. S. UNIVERSITY SHIKOHABAD, (U. P.) INDIA

In partial fulfillment of the requirements for the award of degree of

MASTER OF SCIENCE

IN

(AGRONOMY)

BY

Mr. DUSHYANT KUMAR

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Under the supervision of

Mr. SWADESH KUMAR



Department of Agronomy, J. S. University Shikohabad, U. P. India

2023

i

**Geometric effect of crops on maize growth and
yield (*Zea mays* L.) in Uttar Pradesh alluvial soils**

Thesis

**Submitted to the J. S. University Shikohabad in partial fulfillment of the
requirements
for the degree of**

**MASTER OF SCIENCE
in
AGRONOMY**

By

Mr. Ayush Ranjan

**Under the supervision of
Mr. Umesh Babu Mishra**



Department of Agronomy


J. S. UNIVERSITY SHIKOHABAD, (FIROZABAD) U. P.

2023

CERTIFICATE

This is to certify that thesis entitled “**Geometric effect of crops on maize growth and yield (*Zea mays L*) in Uttar Pradesh alluvial Soils**” submitted in partial fulfillment of the requirement for the degree of “**Master of Science in Agriculture (Agronomy)**” of J. S. University Shikohabad, U. P. is a record of a Bonafede research work carried out by **Mr. Ayush Ranjan** under my guidance and supervision.

Place: Shikohabad, U. P.
Date: / / 2023


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**BENIFIT OF PUDDLED RICE TO PHOSPHORUS
MANAGEMENT UNDER
SEMI-ARID REGION**

THESIS



Submitted to the
J. S. UNIVERSITY SHIKOHABAD, FIROZABAD U. P. (INDIA)
In partial fulfilment of the requirements for the award of
degree of
MASTER OF SCIENCE
IN
(AGRONOMY)

BY

Mr. Raman Singh
(Roll No. 212040104044)

Under the Supervision of
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**DEPARTMENT OF AGRONOMY, SCHOOL OF AGRICULTURE J. S.
UNIVERSITY SHIKOHABAD, FIROZABAD U. P. (INDIA)**

2023

**J. S. UNIVERSITY SHIKOHABAD (FIROZABAD), U. P.
CERTIFICATE - I**

This is to certify that the thesis entitled “**BENIFIT OF PUDDLED RICE TO PHOSPHORUS MANAGEMENT UNDER SEMI-ARID REGION**” submitted by **Mr. RAMAN SINGH** (Roll No. 212040104044) s/o **SHRI NARENDRA SINGH** to the J. S. University, Shikohabad, in partial fulfilment of the requirements for the degree of Master of Agriculture/Horticulture in the discipline of Agronomy has been approved by the Advisory Committee after an oral examination of the student in collaboration with an External Examiner.



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J. S. University Shikohabad, (Firozabad) U. P.

**Geometric effects of crops on maize growth and yield
(Zea mays L.) in Uttar Pradesh alluvial soils**

Thesis

**Submitted to the J. S. University Shikohabad
in partial fulfillment of the requirements
for the degree of**

**MASTEROFSCIENCE
in
AGRONOMY**

By

Mr. Akash Kumar

**Under the supervision of
Dr. Roop Kishor Pachauri**



Department of Agronomy

J. S. UNIVERSITY SHIKOHABAD, (FIROZABAD) U. P.

2023

CERTIFICATE

This is to certify that thesis entitled “**Impact of crop geometry on growth and yield of (*Zea mays L*) maize in Uttar Pradesh alluvial Soils**” submitted in partial fulfillment of the requirement for the degree of “**Master of Science in Agriculture (Agronomy)**” of J. S. University Shikohabad, U. P. is a record of a Bonafede research work carried out by **Mr. Akash Kumar** under my guidance and supervision.

Place: Shikohabad, U. P.

Date: 25 / 05 / 2023



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**EFFECT OF PHOSPHORUS AND ZINC ON YIELD, QUALITY AND
UPTAKE OF NUTRIENT BY BARLEY (*Hordeum Vulgare L.*)**

(THESIS)

Submitted to the

J. S. UNIVERSITY SHIKOHABAD, (U. P.) INDIA

In partial fulfillment of the requirements for the award of degree of

MASTER OF SCIENCE

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(AGRONOMY)

BY

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CERTIFICATE - I

This is to certify that the thesis entitled “**EFFECT OF PHOSPHORUS AND ZINC ON YIELD, QUALITY AND UPTAKE OF NUTRIENT BY BARLEY (*Cereale Vulgare L.*)**”, submitted by **Mr. SAURAV SINGH (Roll No. 212040104060)** to **Shri Devendra Singh** to the J. S. University, Shikohabad (U. P.) in partial fulfilment of requirements for the degree of Master of Agriculture/Horticulture in the discipline of Agronomy has been approved by the Advisory Committee after an oral examination of the student in collaboration with an External Examiner.

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