# "EFFECT OF ZINC AND BORAX ON GROWTH, YIELD AND QUALITY OF CABBAGE (Brassica oleracea var. Capitata L.) CV. "GREEN FLASH"



THESIS
SUBMITTED IN PARTIAL FULFILMENT OF THE REQUIREMENTS FOR
THE AWARD OF DEGREE OF

Master of Science (Agriculture)
in
Horticulture

Supervisor Mr. Ranjan Jadon Assistant Profesor Submitted By Chhavi Mohan M.Sc. Ag, Hortfeulture

2023

DEPARTMENT OF HORTICULTURE
FACULTY OF AGRICULTURE
J.S. UNIVERSITY
SHIKOHABAD, DISTT. FIROZABAD (U.P.)

#### CERTIFICATE - I

This is to certified that MR. HITESH KUMAR, Roll. No. 212040204007, student of the college of horticulture, J. S. University Shikohabad, U.P., a candidate for the degree of Master of Science in Agriculture with major in Horticulture, has been working under my guidance and supervisor during the course of the programme and the present thesis entitled "EFFECT OF LEVEL OF POTASH AND BORON ON YIELD AND QUALITY OF TOMATO (Lycopersicon esculentum)" which he is submitting in partial fulfillment for the award of degree of Master of Science (Agriculture) in Horticulture is his genuine work.

21/8/23

Place: Shikohabad

Date: June 2023

Mr. Ranjan Jadon

Chairman

(Advisory Committee)

Department of Horticulture,

J.S. University Shikohabad, U.P.



Shikohabad, Dist. Firozabad (U. P.)

This is to certify that the thesis entitled "STUDY ON INTEGRATED NUTRIENT MANAGEMENT IN CAULIFLOWER (Brassica oleracea var. botrytis L.)" submitted to the Faculty of agriculture, J. S. University, Shikohabad Dist. Firozabad (U. P.) in partial fulfillment of the requirements for the degree of MASTER OF SCIENCE in HORTICULTURE, embodies the result of a piece of bonafide research work carried out by VEERPAL SINGH, Enrollment No. J212041046, under my supervision and guidance. No part of this thesis has been submitted for any other degree or diploma.

I further certify that such help or sources of information as has been availed of during the course of this in vestigation have been duly acknowledged.

Place: Shikohabad

Date: 21 / 8 /2023

Mr. Ranjan Jadon

(Advisory Committe)

# Effect of Integrated Nutrient Management (INM) on vegetative growth and yield of brinjal (Solatium melongena L.)



#### **THESIS**

SUBMITTED TO

J.S. UNIVERSITY, SHIKOHABAD DISTT. FIROZABAD (U.P.)
IN PARTIAL FULFILLMENT OF THE REQUIREMENT FOR
THE DEGREE OF

MASTER OF SCIENCE

IN

HORTICULTURE

2023

Under the supervision of : Mr. RANJAN JADON

Assistant Professor

Submitted by:

**DESHAKSHI MISHRA** 

M.Sc. (Ag.) Horticulture Roll No.-212040213008 Enroll. No. J212041042

J.S. UNIVERSITY, SHIKOHABAD DIST FIROZABAD-283135 (U.P.) INDIA



Shikohabad, Dist. Firozabad (U. P.)

This is to certify that the thesis entitled "Effect of Integrated Nutrient Management (INM) on vegetative growth and yield of brinjal (Solatium melongena L.) submitted to the Faculty of agriculture, J. S. University, Shikohabad Dist. Firozabad (U. P.) in partial fulfillment of the requirements for the degree of MASTER OF SCIENCE in HORTICULTURE, embodies the result of a piece of bonafide research work carried out by DESHAKSHI MISHRA, Enrollment No. J212041042, under my supervision and guidance. No part of this thesis has been submitted for any other degree or diploma.

I further certify that such help or sources of information as has been availed of during the course of this in vestigation have been duly acknowledged.

Place : Shikohabad

Date: 12 / 8 /2023

Mr. Ranjan Jadon

(Advisory Committe)
(Department of Horticulture)

# Effect of bio-fertilizer VAM, PSB and Azotobacter on growth, yield and quality of turnip, (Brassica rapa.)



#### **THESIS**

SUBMITTED TO

J.S. UNIVERSITY, SHIKOHABAD DISTT. FIROZABAD (U.P.)
IN PARTIAL FULFILLMENT OF THE REQUIREMENT FOR
THE DEGREE OF

MASTER OF SCIENCE

IN

HORTICULTURE

2023

Under the supervision of :

Mr. RANJAN JADON

**Assistant Professor** 

Submitted by:

**UTKARSH GUPTA** 

M.Sc. (Ag.) Horticulture Roll No.-212040213002 Enroll. No. J212041001

J.S. UNIVERSITY, SHIKOHABAD
DIST FIROZABAD-283135 (U.P.) INDIA

#### **CERTIFICATE - I**

This is to certified that Mr. Kamal Pal, Roll. No. 212040204008, student of the college of Horticulture, J.S. University Shikohabad, U.P., a candidate for the degree of Master of Science in Agriculture with major in Horticulture, has been working under my guidance and supervision during the course of the programme and the present thesis entitled "Effect of zinc sulphate and boron on growth, yield and quality of broccoli (Brassica oleracea L. var. italica)" which he is submitting in partial fulfilment for the award of degree of Master of Science (Agriculture) in Horticulture is his genuine work.

Place: Shikohabad

Date: 1.1./July/ 2023

Rufufwww. Mr.Ranjan Jadon

Chairman

(Advisory Committee)

Department of Horticulture,

J.S. University Shikohabad, U.P.



Shikohabad, Dist. Firozabad (U. P.)

This is to certify that the thesis entitled "EFFECT OF ORGANIC MANURES AND BIOFERTILIZERS ON GROWTH, YIELD AND QUALITY OF KHARIF ONION (ALLIUM CEPA L)" submitted to the Faculty of agriculture, J. S. University, Shikohabad Dist. Firozabad (U. P.) in partial fulfillment of the requirements for the degree of MASTER OF SCIENCE in HORTICULTURE, embodies the result of a piece of bonafide research work carried out by VIKAS KUMAR, Enrollment No. J212041005, under my supervision and guidance. No part of this thesis has been submitted for any other degree or diploma.

I further certify that such help or sources of information as has been availed of during the course of this in vestigation have been duly acknowledged.

Place : Shikohabad

Date: 2/ / 8 /2023

Mr. Ranjan Jadon

(Advisory Committe)

## Growith Meld and Quality of Turnip

(Brusslee rapa L)



### Thesis Submitted to

J.S. University, Shikohabad Distt. Firozabad (U.B.

In passe fulfillment of the requirements for the degree of

#### MASTER OF SCIENCE IN HORTICULTURE 2023

Under the Supervision of:

Mr. RANJAN JADON Assistant Professor Submitted by

AMAR RUMAR STARTE

M.Sc.(Ag.) Horticulture Roll No. 212040204002 Enrolment No. J212040010

DEPARTMENT OF HORTICULTURE

J.S. UNIVERSITY, SHIKOHABAD,

DIST FIROZABAD - 283135 (U.P.) INDIA



Shikohabad, Dist. Firozabad (U. P.)

This is to certify that the thesis entitled "EFFECT OF DIFFERENT ORGANIC MANURES ON GROWTH AND YIELD OF RADISH (RAPHANUS SATIVUS L.)" submitted to the Faculty of agriculture, J. S. University, Shikohabad Dist. Firozabad (U. P.) in partial fulfillment of the requirements for the degree of MASTER OF SCIENCE in HORTICULTURE, embodies the result of a piece of bonafide research work carried out by ABHISHEK KUMAR TIWARI, Enrollment No. J212040004, under my supervision and guidance. No part of this thesis has been submitted for any other degree or diploma.

I further certify that such help or sources of information as has been availed of during the course of this in vestigation have been duly acknowledged.

Place : Shikohabad

Date: 25/ 8 /2023

Mr. Ranjan Jadon

(Advisory Committe)

## EFFECT OF ZINC SULPHATE AND BORON ON GROWTH, YIELD AND QUALITY OF BROCCOLI

(Brassica oleracea L. var. italica)

#### 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
In
(Horticulture)

BY

Kamal Pal Roll. No. 212040204008 Under the Supervision of

Mr.Ranjan Jadon



Department of Horticulture, Collage of Agriculture, J.S. University, Shikohabad, (U.P.) India



Shikohabad, Dist. Firozabad (U. P.)

This is to certify that the thesis entitled "Effect of bio-fertilizer VAM, PSB and Azotobacter on growth, yield and quality of turnip, (Brassica rapa.) submitted to the Faculty of agriculture, J. S. University, Shikohabad Dist. Firozabad (U. P.) in partial fulfillment of the requirements for the degree of MASTER OF SCIENCE in HORTICULTURE, embodies the result of a piece of bonafide research work carried out by UTKARSH GUPTA, Enrollment No. J212040213002, under my supervision and guidance. No part of this thesis has been submitted for any other degree or diploma.

I further certify that such help or sources of information as has been availed of during the course of this in vestigation have been dulyacknowledged.

Place: Shikohabad

Date: 12/8/2023

Mr. Ranjan Jadon

(Advisory Committe)

"EFFECT OF MICRONUTRIENT APPLICATION ON GROWTH, YIELD AND QUALITY OF ONION ( Allium cepa L.)

AT (Firozabad District)"



#### Thesis

Submitted to

J.S. UNIVERSITY SHIKOHABAD, FIROZABAD(U.P.)
In partial fulfillment of the requirements for
The degree of
MASTER OF SCIENCE
IN
HORTICULTURE
(2023)

Under the Supervision of:

MR. RANJAN JADON

Assistant Professor

Submitted by:

DILEEP KUMAR

M.Sc. (Ag.) Horticulture

Roll no. 212040204013

Enrolment No. J212040037

DEPARTMENT OF HORTICULTURE J.S. UNIVERSITY ,SHIKOHABAD, DIST FIROZABAD 283135(U.P.) INDIA





Shikohabad, Dist, Firozabad (U.P.)

This is to certify that the thesis entitled "EFFECT OF MICRONUTRIENT APPLICATION ON GROWTH, YIELD AND QUALITY OF ONION (Allium cepa L.)"submitted to the Faculty of Agriculture, J.S. University, Shikohabad Dist, Firozabad (U.P.) in partial fulfillment of the requirements for the degree of Master of Science in Horticulture embodies the result of a piece of Bonafede research carried out by Mr. Dileep Kumar, Enrollment No-J2120400037 under my supervision. and no part of the thesis has been submitted for any other degree or diploma.

I further certify that help or sources of information as has been availed of during the course of this investigation have been duly acknowledged.

Place: Shikohabad

Date: 12/08/2023

Mr. Raman Jadon
(Advisory Committee)
(Department Of Horticulture)

## EFFECT OF LEVEL OF POTASH AND BORON ON YIELD AND QUALITY OF TOMATO (Lycopersicon esculentum)

#### 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

In

(Horticulture)

BY

HITESH KUMAR

Roll. No. 212040204007

Under the Supervision of

MR. RANJON JADON



# DEPARTMENT OF HORTICULTURE FACULTY OF AGRICULTURE J. S. UNIVERSITY

SHIKOHABAD, (U. P.) INDIA

JUNE, 2023

"Effect of Different Organic Manures on Growth and Yield of Radish (Raphanus sativus L.)"



Thesis

Submitted

J.S. University, Shikohabad Distr. Director (

In partial fulfillment of the requirements of the requirement of the requirements of t

MASTER OF SCIENCE IN HORTICULTURE 2023

Under the Supervision of:

Mr. RANJAN JADON Assistant Professor Submitted la 8

Abhishek Roma Tiveli M.Sc.(Ag.) Hord culture Roll No. 212040204001 Enrolment No. 421204000

J.S. UNIVERSITY, SHIKOHABAD, DIST FIROZABAD - 283135 (U.P.) INDIA



Shikohabad, Dist. Firozabad (U. P.)

This is to certify that the thesis entitled "EFFECT OF ORGANIC MANURES AND BIOFERTILIZERS ON GROWTH, YIELD AND QUALITY OF KHARIF ONION (ALLIUM CEPA L)" submitted to the Faculty of agriculture, J. S. University, Shikohabad Dist. Firozabad (U. P.) in partial fulfillment of the requirements for the degree of MASTER OF SCIENCE in HORTICULTURE, embodies the result of a piece of bonafide research work carried out by VINAY KUMAR, Enrollment No. J212041043, under my supervision and guidance. No part of this thesis has been submitted for any other degree or diploma.

I further certify that such help or sources of information as has been availed of during the course of this in vestigation have been duly acknowledged.

Place: Shikohabad

Date: 28/8/2023

Mr. Ranjan Jadon

(Advisory Committe)

in the specific of Misson in the series of the ser



#### Thesis

Submitted to

IS. University, Shikohabad Distr. Pirozabad P.P.

In partial foldiment of the requirements in the degree of

MASTER OF SCIENCE

HORTICULTURD 2023

Under the Supervision of :

Mr. RANJAN JADON Assistant Professor Submitted by

PRIVA VIDRIVA M.Sc.(Agr) Horrigulius

Roll No. 202040204009

Envolment No. Jelengose

DEPARTMENT OF HORTICULTURE J.S. UNIVERSITY, SHIKOHABAD, DIST FIROZABAD - 283135 (U.P.) INDIA



Shikohabad, Dist. Firozabad (U. P.)

This is to certify that the thesis entitled "EFFCET OF FOLIAR FEEDING OF MICRONUTRIENTS ON GROWTH AND YIELD OF CAULIFLOWER (Brassica oleracea var. botrytis L.)" submitted to the Faculty of agriculture, J. S. University, Shikohabad Dist. Firozabad (U. P.) in partial fulfillment of the requirements for the degree of MASTER OF SCIENCE in HORTICULTURE, embodies the result of a piece of bonafide research work carried out by PRIYA VERMA, Enrollment No. J212040059, under my supervision and guidance. No part of this thesis has been submitted for any other degree or diploma.

I further certify that such help or sources of information as has been availed of during the course of this in vestigation have been duly acknowledged.

Place : Shikohabad

Date: 26 / 0 /2023

Mr. Ranjan Jadon

(Advisory Committe)

#### CERTIFICATE - I

This is to certify that the thesis on "Effect of Zinc and Borax on Growth, Yield and Quality of Cabbage (Brassica oleracea var. Capitata L.) cv. "Green flash" submitted for the degree of M. Sc. (Ag.) in the subject of Horticulture to the Department of Horticulture faculty of Agriculture J.S. University Shikohabad, Distt. Firozabad (U.P), is a bonafide research work carried out by Mr. Chhavi Mohan, Roll No. 212040204014 under my supervision and that no part of this thesis has been submitted for any other degree.

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

26/8/23

Shikohabad, Kanpur July, 2023 (Ranjan Jadon)

Major Advisor