

*Dr. Alok Kumar*  
Head



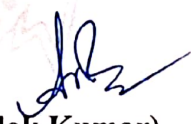
**Department of Soil Science**  
**N. D. University of Agriculture and Technology,**  
**Kumarganj, Faizabad -224 229 (U.P.)**  
**India**

## **CERTIFICATE-I**

This is to certify that the thesis entitled “Effect of integrated nutrient management on soil properties and productivity of rice-wheat cropping system” submitted in partial fulfilment of the requirements for the degree of ‘Doctor of Philosophy’ in the subject of **Soil Science & Agricultural Chemistry** to the Narendra Deva University of Agriculture and Technology, Narendra Nagar (Kumarganj), Faizabad, is a bonafide research work carried out by **Sri Kedar Nath Rai, I.D. No. A- 6380/11** 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.


Narendra Nagar  
July, 2015

  
(Alok Kumar)  
Major Advisor and Chairman of  
Advisory Committee

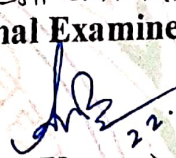
## CERTIFICATE-II

This is to certify that the thesis entitled "Effect of integrated nutrient management on soil properties and productivity of rice-wheat cropping system" submitted by Sri Kedar Nath Rai, I.D. No. A- 6380/11 to the Narendra Deva University of Agriculture and Technology, Narendra Nagar (Kumarganj), Faizabad, in partial fulfilment of the requirements for the degree of 'Doctor of Philosophy' in the subject of Soil Science & Agricultural Chemistry has been approved by the Student's Advisory Committee after an oral examination on the same in collaboration with an external examiner.


Advisory Committee

  
22/12/15  
(RAMESH CHANDRA)  
External Examiner

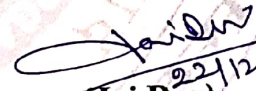
Major Advisor & Chairman

  
22.12-15  
(Alok Kumar)  
Head  
Deptt. of Soil Science


Member (Major)

  
(Adesh Kumar)  
Assistant Professor  
Deptt. of Soil Science

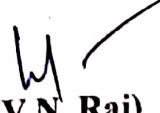
Member (Minor)

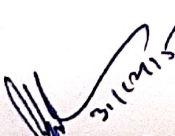
  
22/12/15  
(Jai Dev)  
Professor  
Deptt. of Agronomy

Member (Related Field)

  
(A.H. Khan)  
Head  
Deptt. of Crop Physiology

Dean's Nominee

  
(V.N. Rai)  
Associate Professor  
Deptt. of Agril. Statistics

  
21/12/15  
Dean, College of Agriculture

  
Head of Department

**Dr. Neeraj Kumar**  
Assistant Professor  
Department of Soil Science &  
Agril. Chemistry



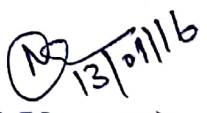
**Department of Soil Science &  
Agril. Chemistry**  
N. D. University of Agriculture &  
Technology, Narendra Nagar,  
(Kumarganj), Faizabad  
224 229 (U.P.) India

## **CERTIFICATE-I**

This is to certify that the thesis entitled “Soil survey in relation to salt-affected soils of Faizabad district in Eastern U.P.” submitted for the degree of ‘Doctor of Philosophy’ in the subject of **Soil Science & Agricultural Chemistry** to the Narendra Deva University of Agriculture and Technology, Narendra Nagar (Kumarganj), Faizabad (U.P.) is a bonafied research work carried out by **Mr. Maneesh Kumar, Id. No. A-7036/12**, 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 have been duly acknowledged.

Narendra Nagar  
January, , 2016

  
(**Neeraj Kumar**)  
Major Advisor & Chairman

## CERTIFICATE-II

This is to certify that the thesis entitled "Soil survey in relation to salt-affected soils of Faizabad district in Eastern U.P." submitted by Mr. Maneesh Kumar, Id. No. A-7036/12 to the Narendra Deva University of Agriculture and Technology, Narendra Nagar (Kumarganj), Faizabad (U.P.), in partial fulfilment of the requirements for the degree of 'Doctor of Philosophy' in subject of Soil Science & Agricultural Chemistry has been evaluated satisfactory by external examiner and approved by student's advisory committee after an oral examination.

Advisory Committee

*Room Singh*  
7.4.2016  
( Room Singh )  
External Examiner

Major Advisor &  
Chairman

*Neeraj Kumar*  
07/04/16  
(Neeraj Kumar)  
Assistant Professor  
Department of Soil Science &  
Agril. Chemistry

Member (Major)

*Ved Prakash*  
07/04/16  
(Ved Prakash)  
Professor  
Department of Soil Science &  
Agril. Chemistry

Member (Minor)

*Jai Dev Sharma*  
07/04/16  
(Jai Dev Sharma)  
Professor  
Department of Agronomy

Member (Related Field)

*R.K. Yadav*  
7/4/16  
(Dr. R.K. Yadav)  
Assistant Professor  
Department of Crop Physiology

Dean's Nominee

*K.K. Singh*  
7/4/16  
(Dr. K. K. Singh)  
Assistant Professor  
Department of Agril. Economics

*Maneesh Kumar*  
7/4/16  
Dean, College of Agriculture

*[Signature]*  
Head of Department  
Soil Science & Agril. Chemistry

**Dr. S.F.A. Zaidi**  
Associate Professor



Department of Soil Science  
and Agricultural Chemistry  
N. D. Univ. of Agril. & Tech.,  
Narendra Nagar (Kumarganj)  
Faizabad - 224 229 (U.P.) INDIA

## ***Certificate-I***

This is to certify that the thesis entitled "**Effect of INM modules on soil health and productivity of basmati rice under various cultivation practices**" submitted in the partial fulfilment of the requirements for the degree of **Doctor of Philosophy** in the subject of "**Soil Science and Agricultural Chemistry**" of the Narendra Deva University of Agriculture & Technology, Narendra Nagar (Kumarganj), Faizabad (U.P.) is a bonafide research work carried out by **Mr. Chandan Singh, Id.No.A-6228/11/13** 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 have been duly acknowledged.

(S.F.A. Zaidi)  
Major Advisor & Chairman

Narendra Nagar  
7 July, 2016


## Certificate-II

This is to certify that the thesis entitled "Effect of INM modules on soil health and productivity of basmati rice under various cultivation practices" submitted by Chandan Singh, Id.No.A-6228/11/13 to the Narendra Deva University of Agriculture & Technology, Narendra Nagar (Kumarganj), Faizabad (U.P.) in partial fulfilment of the requirements for the degree of Doctor of Philosophy in the subject of Soil Science and Agricultural Chemistry has been approved by the student's advisory committee after an oral examination on the same in collaboration with an external examiner.


  
11.9.17  
Prof. B.R. Maurya  
External Examiner

Advisory Committee

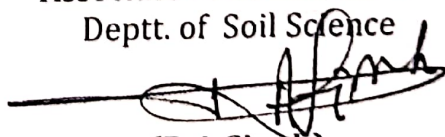
Major Advisor and Chairman

  
(S.F.A. Zaidi)  
Associate Professor  
Deptt. of Soil Science

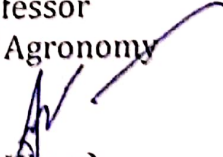
Member (Major)

  
(Alok Kumar)  
Associate Professor & Head  
Deptt. of Soil Science

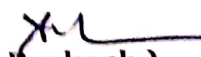
Member (Minor)

  
(R.A. Singh)  
Professor  
Deptt. of Agronomy

Member (Related field)

  
(A.H. Khan)  
Professor & Head  
Deptt. of Crop Physiology

Dean's Nominee

  
(Ved Prakash)  
Professor  
Deptt. of Soil Science

  
15/9/17  
Dean, College of Agriculture

  
Head of Department 14.9.17

**Dr. S.F.A. Zaidi**  
Associate Professor



Department of Soil Science and  
Agriculture Chemistry  
Narendra Dev University of Agriculture  
& Technology, Narendra Nagar,  
Kumarganj Faizabad 224 229 (U.P.),  
India

## CERTIFICATE-I

This is to certify that the thesis entitled **“Effect of split application of NPK on fertilizer use efficiency, nutrient availability and yield of hybrid rice in partially reclaimed salt affected soil”** submitted for the degree of **‘Doctor of Philosophy’** in the subject of **Soil Science and Agricultural Chemistry** to the Narendra Dev University of Agriculture and Technology, Narendra Nagar (Kumarganj), Faizabad, is a bonafide research work carried out by **Nand Kishore Tiwari, I.D. No. A-5001/09/11** 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.

Narendra Nagar  
30 June, 2015

(S.F.A. Zaidi)  
Major Advisor & Chairman

# CERTIFICATE-II

This is to certify that thesis entitled "Effect of split application of NPK on fertilizer use efficiency, nutrient availability and yield of hybrid rice in partially reclaimed salt affected soil" submitted by Nand Kishore Tiwari, Id. No. A-5001/09/11, to the Narendra Dev University of Agriculture & Technology, Narendra Nagar, Kumarganj, Faizabad in partial fulfillment of the requirement for the degree of 'Doctor of Philosophy' in Agriculture in the subject of Soil Science and Agricultural Chemistry has been approved by the Student's Advisory Committee after an oral examination on the same in collaboration with an external examiner.

## ADVISORY COMMITTEE

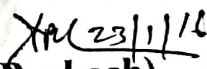
  
23.1.16  
(External Examiner)

Major Advisor & Chairman

  
(S.F.A. Zaidi)

Associate Professor  
Department of Soil Science  
& Agricultural Chemistry

Member (Major)

  
(Ved Prakash)

Professor  
Department of Soil Science  
& Agricultural Chemistry

Member (Minor)

  
(R.S. Singh)

Assistant Professor  
Department of Agronomy

Member (Related Field)


  
(A.H. Khan)

Head  
Department of Crop Physiology

Dean's Nominee

  
(Jai Dev)

Professor  
Department of Agronomy

  
15/2/16  
Dean, College of Agriculture

  
15/2/16  
Head of Department



**Dr. S.F.A. Zaidi**  
Associate Professor



**Department of Soil Science &  
Agril. Chemistry**  
N. D. University of Agriculture & Technology,  
Narendra Nagar, (Kumarganj), Faizabad  
224 229 (U.P.) India

## **CERTIFICATE-I**

This is to certify that the thesis entitled “**Effect of integrated nutrient management (INM) on yield and quality of basmati / aromatic rice in Inceptisol of Eastern U.P.**” submitted for the degree of **Doctor of Philosophy** in the subject of **Soil Science & Agril. Chemistry** to the Narendra Deva University of Agriculture and Technology, Narendra Nagar (Kumarganj), Faizabad (U.P.) is a bonafied research work carried out by **Mr. Rajesh Kumar** Id. No. **A-7038/12** under my supervision and no part of this thesis has been submitted for any other degree.

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

Narendra Nagar  
06 July, 2015

**(S.F.A. Zaidi)**  
Major Advisor & Chairman

## CERTIFICATE-II

This is to certify that the thesis entitled "Effect of integrated nutrient management (INM) on yield and quality of basmati / aromatic rice in Inceptisol of Eastern U.P." submitted by Mr. Rajesh Kumar, Id. No. A-7038/12 to the Narendra Deva University of Agriculture and Technology, Narendra Nagar (Kumarganj), Faizabad (U.P.), in partial fulfilment of the requirements for the degree of Doctor of Philosophy in subject of Soil Science & Agril. Chemistry has been evaluated satisfactory by external examiner and approved by student's advisory committee after an oral examination.

Advisory Committee

External Examiner

Major Advisor &  
Chairman

Dr. S.F.A. Zaidi  
Associate Professor  
Department of Soil Science

Member (Major)

Dr. Ved Prakash  
Professor  
Department of Soil Science

Member (Minor)

Dr. Ghanshyam Singh  
Professor  
Department of Agronomy

Member (Related Field)

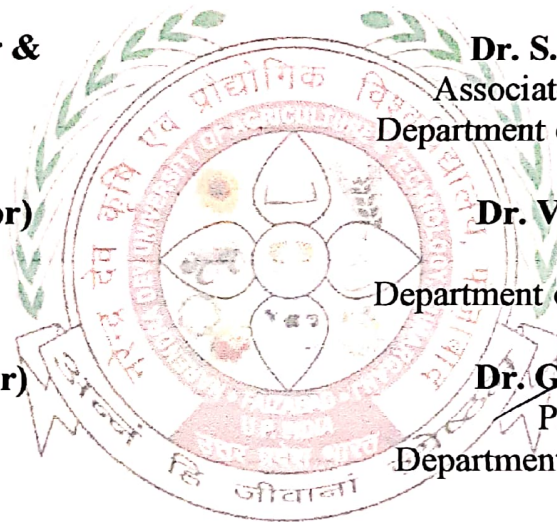
Dr. A.H. Khan  
Head  
Department of Crop Physiology

Dean's Nominee

Dr. K. K. Singh  
Asstt. Professor  
Department of Agricultural  
Economics

Dean, College of Agriculture

Head of Department



**Dr. Neeraj Kumar**  
Assistant Professor  
Soil Science and Agricultural  
Chemistry



Department of Soil Science  
and Agricultural Chemistry  
N. D. Univ. of Agril. & Tech.,  
Narendra Nagar (Kumarganj)  
Faizabad – 224 229 (U.P.) INDIA

## ***Certificate-I***

This is to certify that the thesis entitled “**Integrated nutrient management in maize under rainfed condition in Eastern part of U.P.**” submitted in the partial fulfilment of the requirements for the degree of **Doctor of Philosophy** in the subject of “**Soil Science and Agricultural Chemistry**” of the Narendra Deva University of Agriculture & Technology, Narendra Nagar (Kumarganj), Faizabad (U.P.) is a bonafide research work carried out by **Mr. Rajesh Ranjan Kumar, Id. No. A-7698/13**, 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 have been duly acknowledged.

**Kumargaj, Faizabad**

**July 2016**

**(Neeraj Kumar)**

**Major Advisor & Chairman**

## **Certificate-II**

This is to certify that the thesis entitled "**Integrated nutrient management in maize under rainfed condition in Eastern part of U.P.**" submitted by **Mr. Rajesh Ranjan Kumar, Id.No.A-7698/13** to the Narendra Deva University of Agriculture and Technology, Narendra Nagar (Kumarganj), Faizabad (U.P.) in partial fulfillment of the requirements for the degree of **Doctor of Philosophy** in the subject of **Soil Science and Agricultural Chemistry** has been approved by the student's advisory committee after an oral examination on the same in collaboration with an external examiner.

**Advisory Committee**


**Major Advisor and Chairman**

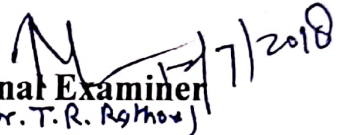
**Member (Major)**


**Member (Minor)**

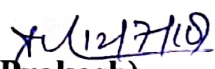
**Member (Related field)**

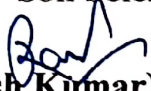
**Dean's Nominee**

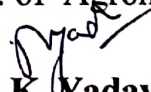
  
**Dean, College of Agriculture**

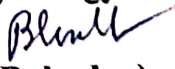
  
**External Examiner**  
(Dr. T. R. Agthor)

  
**(Neeraj Kumar)**  
Assistant Professor  
Deptt. of Soil Science

  
**(Ved Prakash)**  
Professor  
Deptt. of Soil Science

  
**(Rajesh Kumar)**  
Assistant Professor  
Deptt. of Agronomy

  
**(R.K. Yadav)**  
Assistant Professor  
Deptt. of Crop  
Physiology

  
**(Raj Bahadur)**  
Assistant Professor  
Deptt. of Crop  
Physiology

  
**Head of Department**

*Dr. Neeraj Kumar*  
*Associate Professor*




Department of Soil Science & Agril. Chemistry  
College of Agriculture  
A.N. D. University of Agriculture & Technology,  
Narendra Nagar, (Kumarganj), Ayodhya  
224229 (U.P.) India

## **CERTIFICATE-I**

This is to certify that the thesis entitled “**Effect of foliar application of macro and micro nutrients on growth, yield attributes and yield of rice under irrigated condition**” submitted in partial fulfilment of the requirements for the degree of **Doctor of Philosophy** in Agriculture in the subject of **Soil Science and Agricultural Chemistry** of the Acharya Narendra Deva University of Agriculture and Technology, Narendra Nagar (Kumarganj), Ayodhya, is a bonafide research work carried out by **Mr. Nandan Singh**, Id. No **A-10607/18** 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 have been duly acknowledged.

Kumarganj, Ayodhya  
Dated: 08 / 09 / 2021

  
(Neeraj Kumar)  
Major Advisor and Chairman

## CERTIFICATE-II

This is to certify that the thesis entitled "Effect of foliar application of macro and micro nutrients on growth, yield attributes and yield of rice under irrigated condition" submitted by Mr. Nandan Singh, Id. No. A-10607/18 to the Acharya Narendra Deva University of Agriculture and Technology, Narendra Nagar (Kumarganj), Ayodhya (U.P.), in partial fulfillment of the requirements for the degree of Doctor of Philosophy in subject of Soil Science & Agricultural Chemistry has been approved by the student's advisory committee after an oral examination on the same in collaboration with an external examiner.

### ADVISORY COMMITTEE


**Major Advisor &  
Chairman**

**Member (Major)**

**Member (Minor)**

**Member (Related Field)**

**Dean's Nominee**

  
**Dean, College of Agriculture**

  
**(External Examiner)**

  
**(Neeraj Kumar)**

Associate Professor  
Department of Soil Science

  
**(Suresh Kumar)**

Associate Professor  
Department of Soil Science

  
**(Rajesh Chaudhary)**

Assistant Professor  
Department of Agronomy

  
**(R. K. Yadav)**

Associate Professor  
Department of Crop Physiology

  
**(S.K. Singh)**

Associate Professor  
Department of Plant Pathology

  
**Head of Department**

Dept. of Soil Science & Agric. Chem.  
M.D. Univ. of Agri. & Tech.  
Kumarganj, Faizabad

*Dr. Suresh Kumar*  
*Associate Professor*




DEPARTMENT OF SOIL SCIENCE &  
AGRICULTURAL CHEMISTRY  
A. N. D. University of  
Agriculture and Technology,  
Kumarganj, Ayodhya -224 229  
(U.P.) India

## **CERTIFICATE-I**

This is to certify that the thesis entitled “Depth wise studies of soil properties as affected by different Agroforestry system” submitted for the degree of ‘Doctor of Philosophy’ in the subject of **SOIL SCIENCE AND AGRICULTURAL CHEMISTRY** to the Acharya Narendra Deva University of Agriculture and Technology, Narendra Nagar (Kumarganj), Ayodhya, is a bonafide research work carried out by **Mr. Deepak Kumar, Id. No. A-10606/18**, 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 have been duly acknowledged.

Kumarganj, Ayodhya  
17, August, 2021

  
(Suresh Kumar)

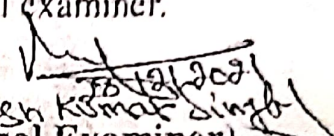
Major Advisor and Chairman,  
Advisory Committee

# CERTIFICATE-II

This is to certify that the thesis entitled "Depth wise studies of soil properties as affected by different Agroforestry system" submitted by Mr. Deepak Kumar, Id. No. A-10606/18 to the Acharya Narendra Deva University of Agriculture and Technology, Narendra Nagar (Kumarganj), Ayodhya (U.P.), in partial fulfillment of the requirements for the degree of Doctor of Philosophy in subject of Soil Science & Agricultural Chemistry has been approved by the student's advisory committee after an oral examination on the same in collaboration with an external examiner.

## ADVISORY COMMITTEE

Major Advisor &  
Chairman

  
(Satish Kumar Singh)  
(External Examiner)

  
(Suresh Kumar)

Associate Professor  
Department of Soil Science

Member (Major)

  
(Ved Prakash)

Professor  
Department of Soil Science

Member (Minor)

  
(A. K. Singh)

Associate Professor  
Department of Agronomy

Member (Related Field)

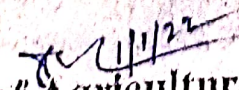
  
(S. K. Verma)

Assistant Professor  
Department of Agroforestry

Dean's Nominee

  
(Adesh Kumar)

Assistant Professor  
Department of FMB&GE

  
Dean, College of Agriculture

  
Head of Department

Department of Agriculture & Technology  
Kumarganj, Faizabad



**Dr. Neeraj Kumar**  
Associate Professor  
Soil Science & Agricultural  
Chemistry




**Department of Soil Science &  
Agril. Chemistry**  
A.N.D. University of Agriculture  
and Technology,  
Kumarganj-224 229, Ayodhya  
(U.P.) India

## **CERTIFICATE-I**

This is to certify that the thesis entitled “**Feasibility of customized fertilizers for sustainable productivity of rice (*Oryza sativa* L.)**” submitted for the degree of “**Doctor of Philosophy**” in Agriculture in the subject of “**Soil Science & Agricultural Chemistry**” of the Acharya Narendra Deva University of Agriculture and Technology, Narendra Nagar (Kumarganj), Ayodhya, is a bonafide research work carried out by **Mr. Chandan Kumar, Id. No.: A-6894/12/14**, 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 have been duly acknowledged.

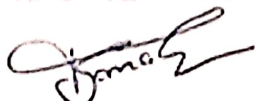
**Narendra Nagar**  
**27 Jan., 2021**

  
**(Neeraj Kumar)**  
Major Advisor/ Chairman  
Advisory Committee


# CERTIFICATE-II

This is to certify that the thesis entitled "Feasibility of customized fertilizers for sustainable productivity of rice (*Oryza sativa* L.)" submitted by Mr. Chandan Kumar, Id. No.: A-6894/12/14, to the Acharya Narendra Deva University of Agriculture and Technology, Narendra Nagar (Kumarganj), Ayodhya in partial fulfilment of the requirements for the degree of "Doctor of Philosophy" in Agriculture in the subject of Soil Science & Agricultural Chemistry has been approved by the Student's Advisory Committee after an oral examination on the same in collaboration with an External Examiner.


**Advisory Committee**

  
**External Examiner**


**Major Advisor/Chairman**

  
**(Neeraj Kumar)**  
Associate Professor  
Soil Science & Agricultural Chemistry

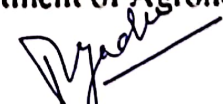
**Member (Major)**

  
**(Ved Prakash)**  
Professor  
Soil Science & Agricultural Chemistry


**Member (Minor)**


  
**(Rajesh Kumar)**  
Assistant Professor  
Department of Agronomy

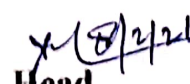
**Member (Related Field)**

  
**(R. K. Yadav)**  
Associate Professor  
Department of Crop Physiology

**Dean's Nominee**

  
**(R. S. Singh)**  
Assistant Professor  
Department of Agronomy

  
**Dean**  
College of Agriculture

  
**Head**  
Deptt. of Soil Science & Agril. Chemistry

*Dr. R. K. Pathak*  
*Assistant Professor*



DEPARTMENT OF SOIL SCIENCE &  
AGRICULTURAL CHEMISTRY  
A. N. D. University of  
Agriculture and Technology,  
Kumarganj, Ayodhya -224 229  
(U.P.) India

## CERTIFICATE-I

This is to certify that the thesis entitled “Effect of weed management practices on yield, nutrients uptake by mustard (*Brassica juncea* L. Czern & Coss.) and soil health” submitted for the degree of ‘Doctor of Philosophy’ in the subject of **SOIL SCIENCE AND AGRICULTURAL CHEMISTRY** to the Acharya Narendra Deva University of Agriculture and Technology, Narendra Nagar (Kumarganj), Ayodhya, is a bonafide research work carried out by **Mr. Navaneet Kumar, Id. No. A-10109/17**, 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 have been duly acknowledged.

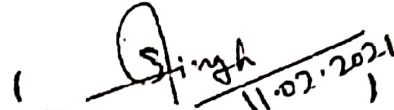
(Narendra Nagar)

  
**(R. K. Pathak)**

Major Advisor and Chairman,  
Advisory Committee


## CERTIFICATE-II

This is to certify that the thesis entitled "Effect of weed management practices on yield, nutrients uptake by mustard (*Brassica juncea* L. Czern & Coss) and soil health" submitted by Mr. Navaneet Kumar, Id. No. A-10109/17 to the Acharya Narendra Deva University of Agriculture and Technology, Narendra Nagar (Kumarganj), Ayodhya, in partial fulfilment of the requirements for the degree of 'Doctor of Philosophy' in the subject of **Soil Science and Agricultural Chemistry** has been approved by the Student's Advisory Committee after an oral examination on the same in collaboration with an External Examiner.

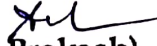
  
External Examiner

### ADVISORY COMMITTEE


**Major Advisor & Chairman**

  
(R. K. Pathak)  
Assistant Professor  
Deptt. of Soil Science & Agril. Chemistry


**Member (Major)**

  
(Ved Prakash)  
Professor & Head  
Deptt. of Soil Science & Agril. Chemistry


**Member (Minor)**

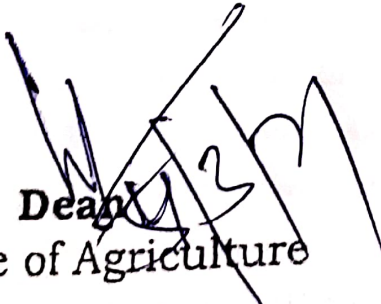
  
(R. S. Singh)  
Assistant Professor  
Deptt. of Agronomy

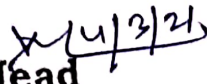
**Member (Related Field)**

  
(A.K. Singh)  
Associate Professor & Head  
Deptt. of Crop Physiology

**Dean's Nominee**

  
(R.K. Doharey)  
Professor  
Deptt. of Extension Education

  
Dean  
College of Agriculture

  
Head  
Department of Soil Science &  
Agricultural Chemistry

# CERTIFICATE-II

This is to certify that the thesis entitled “Studies on heterosis, combining ability, inheritance pattern and gene action for yield and yield contributing traits in mung bean [*Vigna radiata* (L.) Wilczek] under two environments” submitted by Mr. Shivendra Pratap Singh, Id. No. A-10615/18 to the Acharya Narendra Deva University of Agriculture and Technology, Narendra Nagar (Kumarganj), Ayodhya, in partial fulfilment of the requirements for the degree of ‘Doctor of Philosophy’ in the subject of **Genetics and Plant Breeding** has been approved by the Student’s Advisory Committee after an oral examination on the same in collaboration with an External Examiner.

## ADVISORY COMMITTEE

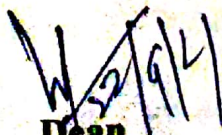
**Major Advisor & Chairman**

**Member (Major)**

**Member (Minor)**

**Member (Related Field)**

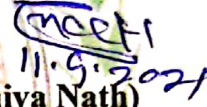
**Dean’s Nominee**

  
**Dean**  
College of Agriculture



**(J.P. Shahi)**


External Examiner

  
11.9.2021

**(Shiva Nath)**

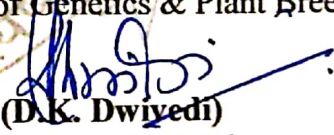
Associate Professor

Department of Genetics & Plant Breeding

  
**(Vinod Singh)**

Associate Professor,

Department of Genetics & Plant Breeding

  
**(D.K. Dwivedi)**

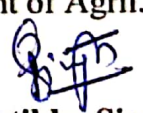
Professor & Head

Department of Plant Molecular Biology  
& Genetic Engineering

  
**(V. N. Rai)**

Professor & HOD,

Department of Agril. Statistics

  
**(Pratibha Singh)**

Professor & Head

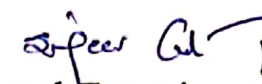
Department of Agricultural Biochemistry

  
**Head**

Department of Genetics & Plant Breeding


## CERTIFICATE-II

This is to certify that the thesis entitled "Evaluation of advanced wheat (*Triticum aestivum* Linn. Emend Thell.) strains for variability and stability (G x E) over heterogeneous environments" submitted by Mr. Hasan Tanveer, Id. No. A-8369/14 to the Narendra Deva University of Agriculture and Technology, Narendra Nagar (Kumarganj), Faizabad in partial fulfilment of the requirements for the degree of 'Doctor of Philosophy' in the subject of **Genetics & Plant Breeding** has been approved by the student's Advisory Committee after an oral examination on the same in collaboration with an external examiner.

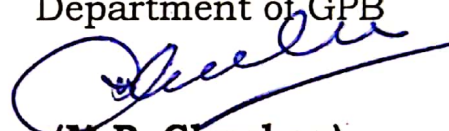
()  
External Examiner

### ADVISORY COMMITTEE

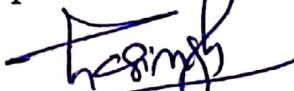
**Major Advisor & Chairman**

()  
**(Vinod Singh)**  
Asst. Prof./Wheat Breeder  
Department of GPB

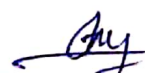
**Member (Major)**

()  
**(M.P. Chauhan)**  
Professor/Oilseed Breeder  
Department of GPB

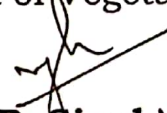
**Member (Minor)**

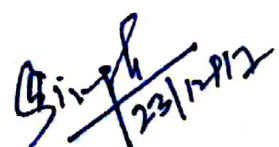
()  
**(H. K. Singh)**  
Assistant Professor  
Department of Plant Pathology

**Member (Related Field)**

()  
**(G. C. Yadav)**  
Assistant Professor  
Department of Vegetable Science

**Dean's Nominee**

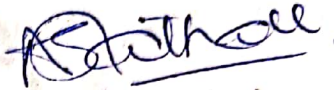
()  
**(N. B. Singh)**  
Professor and Head  
Department of Agronomy

()  
**Dean, College of Agriculture**

()  
**Head of the Department**


# CERTIFICATE-II

This is to certify that the thesis entitled "Genetic improvement for salinity and submergence in rice (*Oryza sativa* L.) through generation mean analysis and molecular approaches" submitted by Ms. Priyanka Gupta, Id. No. A-10105/17 to the Acharya Narendra Deva University of Agriculture and Technology, Narendra Nagar (Kumarganj), Ayodhya, in partial fulfilment of the requirements for the degree of 'Doctor of Philosophy' in the subject of Genetics and Plant Breeding has been approved by the Student's Advisory Committee after an oral examination on the same in collaboration with an External Examiner.


  
(A. D. Bhatnagar)  
External Examiner

## ADVISORY COMMITTEE

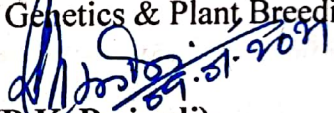
Major Advisor & Chairman

  
(O. P. Verma)  
Assistant Professor  
Department of Genetics & Plant Breeding

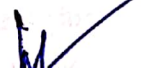
Member (Major)

  
(P. K. Singh)  
Professor,  
Department of Genetics & Plant Breeding


Member (Minor)

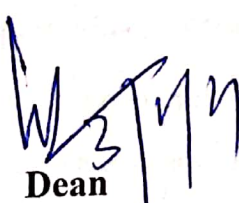
  
(D.K. Dwivedi)  
Professor,  
Department of Plant Molecular Biology  
& Genetic Engineering

Member (Related Field)

  
(V.N. Rai)  
Professor  
Department of Agriculture Statistics

Dean's Nominee

  
(Ved Prakash)  
Professor,  
Department of Soil Science

  
Dean  
College of Agriculture

  
Head  
Department of Genetics & Plant Breeding


# CERTIFICATE-II

This is to certify that the thesis entitled "Studies on heterosis, combining ability and gene action for yield and yield contributing traits under sodic soil in bread wheat (*Triticum aestivum* L. em. Thell.)" submitted by Mr. Ankaj Tiwari, Id. No. A-10613/18, to the Acharya Narendra Deva University of Agriculture and Technology, Kumarganj, Ayodhya (U.P.) in partial fulfillment of the requirements for the degree of "Doctor of philosophy" in the subject of Genetics and Plant Breeding has been approved by the Student's Advisory Committee after an oral examination on the same in collaboration with an External Examiner.

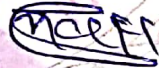
Advisory Committee

  
(Dr. Shailesh Kumar Tiwari)  
External Examiner

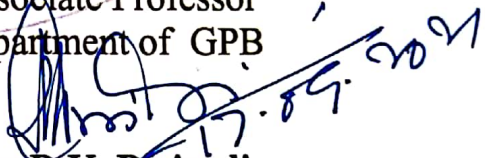
Major Advisor & Chairman

  
Dr. Vinod Singh  
Associate Professor  
Department of GPB

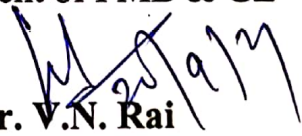
Member From Major

  
Dr. Shiva Nath  
Associate Professor  
Department of GPB

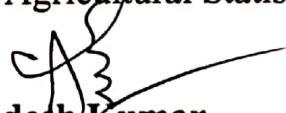
Member From Minor

  
Dr. D.K. Dwivedi  
Professor  
Department of PMB & GE

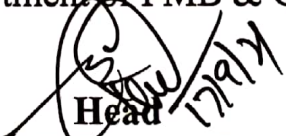
Member From Related Field

  
Dr. V.N. Rai  
Professor  
Department of Agricultural Statistics

Deans Nominee

  
Dr. Adesh Kumar  
Assistant. Professor,  
Department of PMB & GE

  
Dean, College of Agriculture

  
Head  
Department of Genetics & Plant Breeding

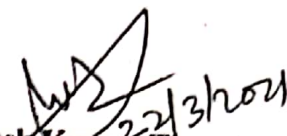
HEAD  
Deptt. of GPB  
A.N.D.U.A.T. Kumarganj



# CERTIFICATE-II

This is to certify that the thesis entitled “**Studies on combining ability and heterosis for yield and its components under sodic soil in bread wheat (*Triticum aestivum* L. em. Thell.)**” submitted by Mr. Krishna Pratap Singh, Id. No. A-8864/15/17, to the Acharya Narendra Deva University of Agriculture and Technology, Kumarganj, Ayodhya (U.P.) in partial fulfillment of the requirements for the degree of “**Doctor of Philosophy**” in the subject of **Genetics and Plant Breeding** has been evaluated satisfactory by external examiner, and approved by student’s advisory committee after an oral examination.


Advisory Committee

  
Shallesh Kumar Tiwari  
External Examiner


Major Advisor & Chairman

  
Dr. Vinod Singh  
Associate Professor,  
Department of GPB

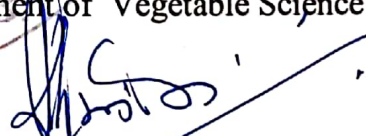
Member From Major

  
Dr. O.P. Verma  
Assistant Professor,  
Department of GPB


Member From Minor

  
Dr. D.P. Mishra  
Assistant Professor,  
Department of Vegetable Science


Member From Related Field

  
Dr. D.K. Dwivedi  
Professor,  
Department of PMB&GE

Deans Nominee

  
Dr. Ved Prakash  
Professor,  
Department of Soil Science

  
Dean,  
College of Agriculture


  
Head  
Department of Genetics & Plant Breeding

# CERTIFICATE-II


This is to certify that the thesis entitled “**Studies on heterosis in relation to combining ability for yield and its components under sodic soil in bread wheat (*Triticum aestivum* L. em. Thell.)**” submitted by **Mr. Tejasvi Singh**, Id. No. A-7541/13/15 to the Acharya Narendra Deva University of Agriculture and Technology, Kumarganj, Ayodhya in partial fulfillment of the requirements for the degree of ‘**Doctor of Philosophy**’ in the subject of **Genetics and Plant Breeding** has been approved by the Student’s Advisory Committee after an oral examination on the same in collaboration with an External Examiner.

## ADVISORY COMMITTEE


**Major Advisor & Chairman**

  
(**Vinod Singh**)  
Associate Professor  
Department of Genetics & Plant Breeding

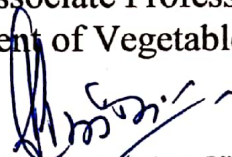
**Member (Major)**

  
(**O.P. Verma**)  
Assistant Professor  
Department of Genetics & Plant Breeding

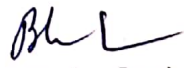
**Member (Minor)**

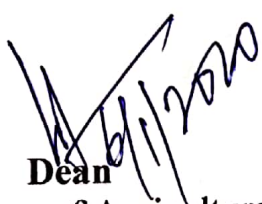
  
(**V.B. Singh**)  
Associate Professor  
Department of Vegetable Science

**Member (Related Field)**

  
(**D.K. Dwivedi**)  
Professor  
Department of Plant Molecular Biology &  
Genetic Engineering

**Dean’s Nominee**

  
(**Raj Bahadur**)  
Associate Professor  
Department of Crop Physiology

  
Dean  
College of Agriculture

  
Head  
Department of Genetics & Plant Breeding

## CERTIFICATE-II

This is to certify that the thesis entitled "Genetic variability, combining ability and heterotic response for yield and its components in faba bean (*Vicia faba* L.)" submitted by Mr. Kanhaiya Lal, Id. No. A-9603/16 to the Acharya Narendra Deva University of Agriculture and Technology, Narendra Nagar (Kumarganj), Ayodhya, in partial fulfilment of the requirements for the degree of 'Doctor of Philosophy' in the subject of Genetics and Plant Breeding has been approved by the Student's Advisory Committee after an oral examination on the same in collaboration with an External Examiner.

(Signature) 23/12/19  
External Examiner

### ADVISORY COMMITTEE

Major Advisor & Chairman

(Signature)

(Shiva Nath)

Associate Professor

Department of Genetics & Plant Breeding

Member (Major)

(O. P. Verma)

Assistant Professor

Department of Genetics & Plant Breeding

Member (Minor)

(D.K. Dwivedi)

Professor

Department of Plant Molecular Biology  
& Genetic Engineering

Member (Related Field)

(V. N. Rai)

Professor

Department of Agric. Statistics

Dean's Nominee

(Umesh Chandra)

Assistant Professor

Department of Entomology

(Signature) 9/1/2020  
Dean

College of Agriculture

(Signature)  
Head

Department of Genetics &  
Plant Breeding

## CERTIFICATE-II

This is to certify that the thesis entitled “Gene action and heterosis for yield and quality traits in barley (*Hordeum vulgare* L.)” submitted by Mr. Vishal Singh, Id. No. A-9604/16 to the Acharya Narendra Deva University of Agriculture and Technology, Narendra Nagar (Kumarganj), Ayodhya, in partial fulfilment of the requirements for the degree of ‘Doctor of Philosophy’ in the subject of **Genetics and Plant Breeding** has been approved by the Student’s Advisory Committee after an oral examination on the same in collaboration with an External Examiner.

### ADVISORY COMMITTEE

**Major Advisor & Chairman**

**Member (Major)**

**Member (Minor)**


**Member (Related Field)**


**Dean’s Nominee**

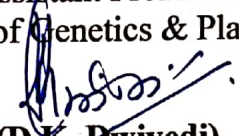
**Dean**  
College of Agriculture

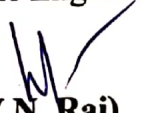
()  
External Examiner

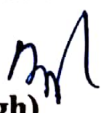
20/11/19

()  
**(Vinod Singh)**  
Associate Professor  
Department of Genetics & Plant Breeding

()  
**(O.P. Verma)**  
Assistant Professor  
Department of Genetics & Plant Breeding

()  
**(D.K. Dwivedi)**  
Professor  
Department of Plant Molecular Biology  
& Genetic Engineering

()  
**(V.N. Rai)**  
Professor  
Department of Agric. Statistics

()  
**(B.N. Singh)**  
Assistant Professor & Head  
Department of Agronomy

()  
**Head**  
Department of Genetics & Plant Breeding

## CERTIFICATE-II

This is to certify that the thesis entitled "Germplasm evaluation, combining ability, heterosis and gene action studies in rice (*Oryza sativa* L.) under sodic soil" submitted by Mr. Pawan Kumar Yadav, Id. No. A-6200/11/13 to the Acharya Narendra Deva University of Agriculture and Technology, Narendra Nagar (Kumarganj), Ayodhya (U.P.), in partial fulfilment of the requirement for the degree of 'Doctor of Philosophy' (Agriculture) in subject of Genetics and Plant Breeding has been evaluated satisfactory by external examiner and approved by student's advisory committee after an oral examination.

Advisory Committee

(  
External Examiner

Major Advisor & Chairman

(P.K. Singh)

Professor

Department of Genetics and Plant Breeding

Member (Major)

(O.P. Verma)

Assistant Professor

Department of Genetics and Plant Breeding

Member (Minor)

(D.K. Dwivedi)

Professor

Department of Plant Molecular Biology & Genetic Engineering

Member (Related Field)

(V.N. Rai)

Professor

Department of Agricultural Statistics

Dean's Nominee

(S.R. Mishra) 13/1/20

Associate Professor

Department of Agril. Meteorology

  
Dean, College of Agriculture

  
Head of Department

# CERTIFICATE-II

This is to certify that the thesis entitled “Genetic variability and stability analysis in rice (*Oryza sativa* L.) over heterogeneous environments” submitted by Ms. Anjali Singh, Id. No. A-10612/18 to the Acharya Narendra Deva University of Agriculture and Technology, Narendra Nagar (Kumarganj), Ayodhya (U.P.), in partial fulfilment of the requirements for the degree of ‘Doctor of Philosophy’ in the subject of Genetics and Plant Breeding has been approved by the Student’s Advisory Committee after an oral examination on the same in collaboration with an External Examiner.

## ADVISORY COMMITTEE

Major Advisor & Chairman

Member (Major)

Member (Minor)

Member (Related Field)

Dean’s Nominee

Dean  
College of Agriculture

External Examiner

(Vinod Singh)  
Associate Professor  
Department of Genetics & Plant Breeding

(Shivnath)  
Associate Professor,  
Department of Genetics & Plant Breeding

(D.K. Dwivedi)  
Professor,  
Department of Plant Molecular Biology  
& Genetic Engineering

(V.N. Rai)  
Professor  
Department of Agricultural Statistics

(Adesh Kumar)  
Assistant Professor,  
Department of Plant Molecular Biology  
& Genetic Engineering

Head  
Deptt. of Genetics & Plant Breeding

## CERTIFICATE-II

This is to certify that the thesis entitled "**Genetic variability, gene action and heterosis for yield and its contributing traits in rice (*Oryza sativa* L.) under sodic soil**" submitted by **Mr. Anand Mohan Choudhary, Id. No. A-8149/14/16** to the Acharya Narendra Deva University of Agriculture and Technology, Narendra Nagar (Kumarganj), Ayodhya, (U.P.) in partial fulfilment of the requirements for the degree of '**Doctor of Philosophy**' in the subject of **Genetics and Plant Breeding** has been approved by the Student's Advisory Committee after an oral examination on the same in collaboration with an External Examiner.

### ADVISORY COMMITTEE


**Major Advisor & Chairman**


**Member (Major)**

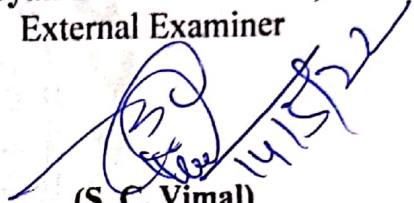
**Member (Minor)**


**Member (Related Field)**


**Dean's Nominee**

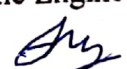
  
**Dean**  
College of Agriculture

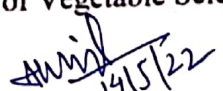
  
**(Gyan Prakash Mishra)**  
External Examiner

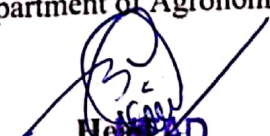
  
**(S. C. Vimal)**  
Associate Professor & Head  
Department of Genetics & Plant Breeding

  
**(Vinod Singh)**  
Associate Professor  
Department of Genetics & Plant Breeding

  
**(D. K. Dwivedi)**  
Professor & Head  
Department of Plant Molecular Biology  
& Genetic Engineering

  
**(G. C. Yadav)**  
Associate Professor  
Department of Vegetable Science

  
**(A. K. Singh)**  
Associate Professor & Head  
Department of Agronomy

  
**Head**  
Department of Genetics & Plant Breeding  
A.N.D.U.A.T. Kumarganj  
Ayodhya

## CERTIFICATE-II

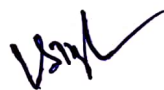
We, the undersigned, member of Advisory Committee of Mr. Govind Mishra, Id. No. A-9504/16/19, a candidate for the degree of Doctor of Philosophy with major in Genetics & Plant breeding agrees that the thesis entitled "Diallel analysis of Indian mustard [*Brassica juncea* (L.) Czern & Coss.] for yields and its contributing traits under timely and late sown conditions" may be submitted in partial fulfillment of the requirement for the degree.



(Shiva Nath)  
Associate Professor, G.P.B  
Chairman  
Advisory committee



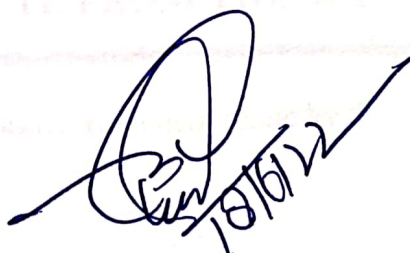
(S.C. Vimal)  
Associate Professor, G.B.P  
Member



(Vinod Singh)  
Associate Professor, G.B.P  
Member



(D.K. Dwivedi)  
Professor, PMB&GE  
Member




Head of the Department  
(Ex- Officio Member)  
**HEAD**  
Deptt. of G.P.B  
A.N.D.U.A.T. Kumargan  
Ayodhya




## CERTIFICATE-II

This is to certify that the thesis entitled "Heterosis, gene action and combining ability analysis in wheat (*Triticum aestivum* L. em. Thell.) under sodic soil" submitted by **Mr. Satyendra Kumar**, Id. No. A-4718/09/13/16 to the Narendra Deva University of Agriculture and Technology, Narendra Nagar (Kumarganj), Ayodhya, in partial fulfilment of the requirements for the degree of 'Doctor of Philosophy' in the subject of **Genetics and Plant Breeding** has been approved by the Student's Advisory Committee after an oral examination on the same in collaboration with an External Examiner.

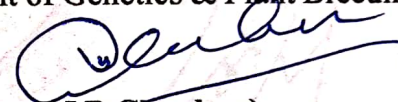
  
( J. P. Shukla )  
External Examiner

### ADVISORY COMMITTEE

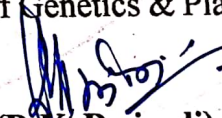
**Major Advisor & Chairman**

  
(Vinod Singh)  
Associate Professor  
Department of Genetics & Plant Breeding


**Member (Major)**

  
(M.P Chauhan)  
Professor  
Department of Genetics & Plant Breeding


**Member (Minor)**

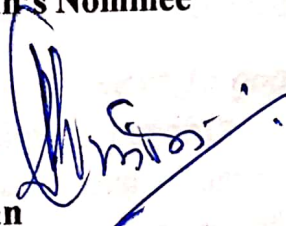
  
(D.K. Dwivedi)  
Professor  
Department of Plant Molecular Biology &  
Genetic Engineering

**Member (Related Field)**

  
(V. P. Pandey)  
Professor  
Department of Vegetable Science

**Dean's Nominee**

  
(S. K. Singh)  
Associate Professor  
Department of Plant Pathology

  
**Dean**  
College of Agriculture

  
**Head**  
Department of Genetics & Plant Breeding


## CERTIFICATE-II

This is to certify that the thesis entitled "**Genetic analysis for yield and yield components in chickpea (*Cicer arietinum* L.) during timely and late sown conditions**" submitted by Miss Neha, I.D. No. A-10614/18 to the Acharya Narendra Deva University of Agriculture and Technology, Narendra Nagar (Kumarganj), Ayodhya in partial fulfilment of the requirements for the degree of "**Doctor of Philosophy**" in subject of **Genetics and Plant Breeding** have been evaluated satisfactory by external examiner and approved by the Student's Advisory Committee after an oral examination.


Advisory Committee

  
External Examiner

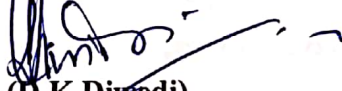
Major Advisor & Chairman

  
(Shiva Nath)  
Associate Professor  
Deptt. of Genetics & Plant Breeding

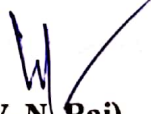
Member (Major)

  
(O. P. Verma)  
Assistant Professor  
Deptt. of Genetics & Plant Breeding


Member (Minor)

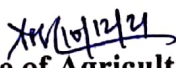
  
(D.K. Dwivedi)  
Professor  
Department of PMB & GE


Member (Related Field)

  
(V. N. Rai)  
Professor & Head  
Department of Agril. Statistics

Dean's Nominee

  
(Rajesh Kumar)  
Assistant Professor  
Deptt. of Agronomy

  
Dean, College of Agriculture

  
Head of the Department  
G. P. B.

# CERTIFICATE-II

This is to certify that the thesis entitled “Studies on heterosis, combining ability, inheritance pattern and gene action for yield and yield contributing traits in mung bean [*Vigna radiata* (L.) Wilczek] under two environments” submitted by Mr. Shivendra Pratap Singh, Id. No. A-10615/18 to the Acharya Narendra Deva University of Agriculture and Technology, Narendra Nagar (Kumarganj), Ayodhya, in partial fulfilment of the requirements for the degree of ‘Doctor of Philosophy’ in the subject of **Genetics and Plant Breeding** has been approved by the Student’s Advisory Committee after an oral examination on the same in collaboration with an External Examiner.

## ADVISORY COMMITTEE

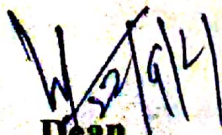
**Major Advisor & Chairman**

**Member (Major)**

**Member (Minor)**

**Member (Related Field)**


**Dean’s Nominee**

  
**Dean**  
College of Agriculture



**(J.P. Shahi)**


External Examiner

  
11.9.2021

**(Shiva Nath)**

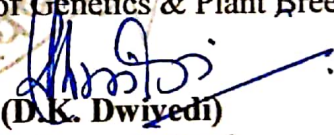
Associate Professor

Department of Genetics & Plant Breeding

  
**(Vinod Singh)**

Associate Professor,

Department of Genetics & Plant Breeding

  
**(D.K. Dwivedi)**

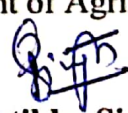
Professor & Head

Department of Plant Molecular Biology  
& Genetic Engineering

  
**(V. N. Rai)**

Professor & HOD,

Department of Agril. Statistics

  
**(Pratibha Singh)**

Professor & Head

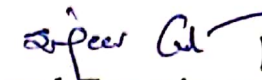
Department of Agricultural Biochemistry

  
**Head**

Department of Genetics & Plant Breeding


## CERTIFICATE-II

This is to certify that the thesis entitled "Evaluation of advanced wheat (*Triticum aestivum* Linn. Emend Thell.) strains for variability and stability (G x E) over heterogeneous environments" submitted by Mr. Hasan Tanveer, Id. No. A-8369/14 to the Narendra Deva University of Agriculture and Technology, Narendra Nagar (Kumarganj), Faizabad in partial fulfilment of the requirements for the degree of 'Doctor of Philosophy' in the subject of Genetics & Plant Breeding has been approved by the student's Advisory Committee after an oral examination on the same in collaboration with an external examiner.

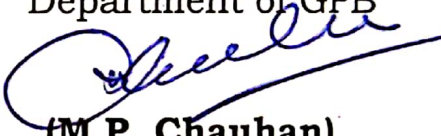
()  
External Examiner

### ADVISORY COMMITTEE

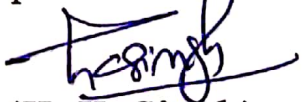
**Major Advisor & Chairman**

()  
**(Vinod Singh)**  
Asst. Prof./Wheat Breeder  
Department of GPB

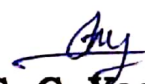
**Member (Major)**

()  
**(M.P. Chauhan)**  
Professor/Oilseed Breeder  
Department of GPB


**Member (Minor)**

()  
**(H. K. Singh)**  
Assistant Professor  
Department of Plant Pathology

**Member (Related Field)**

()  
**(G. C. Yadav)**  
Assistant Professor  
Department of Vegetable Science

**Dean's Nominee**

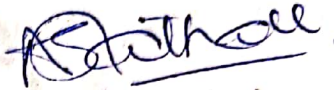
()  
**(N. B. Singh)**  
Professor and Head  
Department of Agronomy

( 23/12/12)  
**Dean, College of Agriculture**

()  
**Head of the Department**


# CERTIFICATE-II

This is to certify that the thesis entitled "Genetic improvement for salinity and submergence in rice (*Oryza sativa* L.) through generation mean analysis and molecular approaches" submitted by Ms. Priyanka Gupta, Id. No. A-10105/17 to the Acharya Narendra Deva University of Agriculture and Technology, Narendra Nagar (Kumarganj), Ayodhya, in partial fulfilment of the requirements for the degree of 'Doctor of Philosophy' in the subject of Genetics and Plant Breeding has been approved by the Student's Advisory Committee after an oral examination on the same in collaboration with an External Examiner.


  
(A. D. Bhatnagar)  
External Examiner

## ADVISORY COMMITTEE

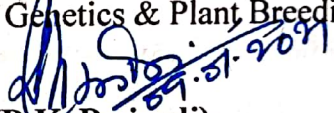
Major Advisor & Chairman

  
(O. P. Verma)  
Assistant Professor  
Department of Genetics & Plant Breeding

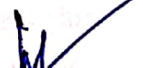
Member (Major)

  
(P. K. Singh)  
Professor,  
Department of Genetics & Plant Breeding


Member (Minor)

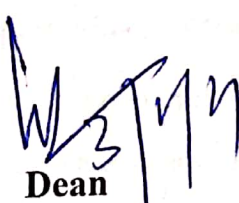
  
(D.K. Dwivedi)  
Professor,  
Department of Plant Molecular Biology  
& Genetic Engineering


Member (Related Field)

  
(V.N. Rai)  
Professor  
Department of Agriculture Statistics

Dean's Nominee

  
(Ved Prakash)  
Professor,  
Department of Soil Science

  
Dean  
College of Agriculture

  
Head  
Department of Genetics & Plant Breeding

# CERTIFICATE-II

This is to certify that the thesis entitled "Studies on heterosis, combining ability and gene action for yield and yield contributing traits under sodic soil in bread wheat (*Triticum aestivum* L. em. Thell.)" submitted by Mr. Ankaj Tiwari, Id. No. A-10613/18, to the Acharya Narendra Deva University of Agriculture and Technology, Kumarganj, Ayodhya (U.P.) in partial fulfillment of the requirements for the degree of "Doctor of philosophy" in the subject of Genetics and Plant Breeding has been approved by the Student's Advisory Committee after an oral examination on the same in collaboration with an External Examiner.

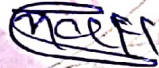
Advisory Committee

  
(Dr. Shailesh Kumar Tiwari)  
External Examiner

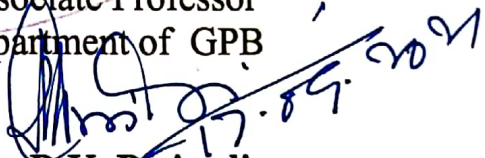
Major Advisor & Chairman

  
Dr. Vinod Singh  
Associate Professor  
Department of GPB

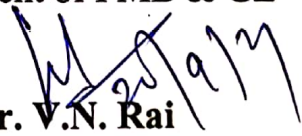
Member From Major

  
Dr. Shiva Nath  
Associate Professor  
Department of GPB

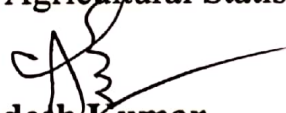
Member From Minor

  
Dr. D.K. Dwivedi  
Professor  
Department of PMB & GE

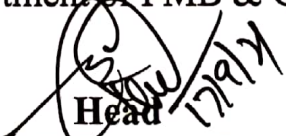
Member From Related Field

  
Dr. V.N. Rai  
Professor  
Department of Agricultural Statistics

Deans Nominee

  
Dr. Adesh Kumar  
Assistant. Professor ,  
Department of PMB & GE

  
Dean, College of Agriculture

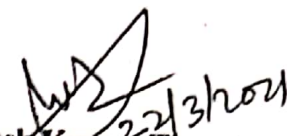
  
Head  
Department of Genetics & Plant Breeding

HEAD  
Deptt. of GPB  
A.N.D.U.A.T. Kumarganj

# CERTIFICATE-II

This is to certify that the thesis entitled “**Studies on combining ability and heterosis for yield and its components under sodic soil in bread wheat (*Triticum aestivum* L. em. Thell.)**” submitted by Mr. Krishna Pratap Singh, Id. No. A-8864/15/17, to the Acharya Narendra Deva University of Agriculture and Technology, Kumarganj, Ayodhya (U.P.) in partial fulfillment of the requirements for the degree of “**Doctor of Philosophy**” in the subject of **Genetics and Plant Breeding** has been evaluated satisfactory by external examiner, and approved by student’s advisory committee after an oral examination.


Advisory Committee

  
Shallesh Kumar Tiwari  
External Examiner

Major Advisor & Chairman

  
Dr. Vinod Singh  
Associate Professor,  
Department of GPB

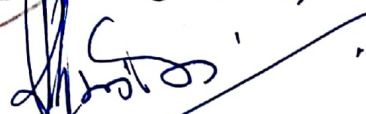
Member From Major

  
Dr. O.P. Verma  
Assistant Professor,  
Department of GPB


Member From Minor

  
Dr. D.P. Mishra  
Assistant Professor,  
Department of Vegetable Science


Member From Related Field

  
Dr. D.K. Dwivedi  
Professor,  
Department of PMB&GE

Deans Nominee

  
Dr. Ved Prakash  
Professor,  
Department of Soil Science

  
Dean,  
College of Agriculture


  
Head  
Department of Genetics & Plant Breeding

# CERTIFICATE-II


This is to certify that the thesis entitled “**Studies on heterosis in relation to combining ability for yield and its components under sodic soil in bread wheat (*Triticum aestivum* L. em. Thell.)**” submitted by **Mr. Tejasvi Singh**, Id. No. A-7541/13/15 to the Acharya Narendra Deva University of Agriculture and Technology, Kumarganj, Ayodhya in partial fulfillment of the requirements for the degree of ‘**Doctor of Philosophy**’ in the subject of **Genetics and Plant Breeding** has been approved by the Student’s Advisory Committee after an oral examination on the same in collaboration with an External Examiner.

## ADVISORY COMMITTEE


**Major Advisor & Chairman**

  
(**Vinod Singh**)  
Associate Professor  
Department of Genetics & Plant Breeding

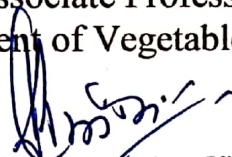
**Member (Major)**

  
(**O.P. Verma**)  
Assistant Professor  
Department of Genetics & Plant Breeding

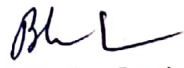
**Member (Minor)**

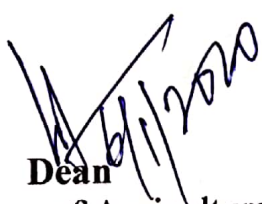
  
(**V.B. Singh**)  
Associate Professor  
Department of Vegetable Science

**Member (Related Field)**

  
(**D.K. Dwivedi**)  
Professor  
Department of Plant Molecular Biology &  
Genetic Engineering

**Dean’s Nominee**

  
(**Raj Bahadur**)  
Associate Professor  
Department of Crop Physiology

  
Dean  
College of Agriculture

  
Head  
Department of Genetics & Plant Breeding



## CERTIFICATE-II

This is to certify that the thesis entitled "Genetic variability, combining ability and heterotic response for yield and its components in faba bean (*Vicia faba* L.)" submitted by Mr. Kanhaiya Lal, Id. No. A-9603/16 to the Acharya Narendra Deva University of Agriculture and Technology, Narendra Nagar (Kumarganj), Ayodhya, in partial fulfilment of the requirements for the degree of 'Doctor of Philosophy' in the subject of Genetics and Plant Breeding has been approved by the Student's Advisory Committee after an oral examination on the same in collaboration with an External Examiner.

(Signature) 23/12/19  
External Examiner

### ADVISORY COMMITTEE

Major Advisor & Chairman

(Signature)

(Shiva Nath)

Associate Professor

Department of Genetics & Plant Breeding

Member (Major)

(Signature)

(O. P. Verma)

Assistant Professor

Department of Genetics & Plant Breeding

Member (Minor)

(Signature)

(D.K. Dwivedi)

Professor

Department of Plant Molecular Biology  
& Genetic Engineering

Member (Related Field)

(Signature)

(V. N. Rai)

Professor

Department of Agric. Statistics

Dean's Nominee

(Signature)

(Umesh Chandra)

Assistant Professor

Department of Entomology

(Signature)

Dean

College of Agriculture

(Signature)

Head

Department of Genetics &  
Plant Breeding

## CERTIFICATE-II

This is to certify that the thesis entitled "Gene action and heterosis for yield and quality traits in barley (*Hordeum vulgare* L.)" submitted by Mr. Vishal Singh, Id. No. A-9604/16 to the Acharya Narendra Deva University of Agriculture and Technology, Narendra Nagar (Kumarganj), Ayodhya, in partial fulfilment of the requirements for the degree of 'Doctor of Philosophy' in the subject of **Genetics and Plant Breeding** has been approved by the Student's Advisory Committee after an oral examination on the same in collaboration with an External Examiner.

### ADVISORY COMMITTEE

**Major Advisor & Chairman**

**Member (Major)**

**Member (Minor)**


**Member (Related Field)**


**Dean's Nominee**

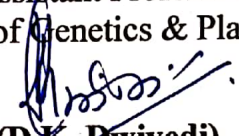
**Dean**  
College of Agriculture

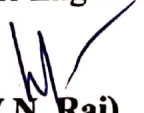
()  
External Examiner


20/11/19

()  
(Vinod Singh)  
Associate Professor  
Department of Genetics & Plant Breeding

()  
(O.P. Verma)  
Assistant Professor  
Department of Genetics & Plant Breeding

()  
(D.K. Dwivedi)  
Professor  
Department of Plant Molecular Biology  
& Genetic Engineering

()  
(V.N. Rai)  
Professor  
Department of Agric. Statistics

()  
(B.N. Singh)  
Assistant Professor & Head  
Department of Agronomy

()  
Head  
Department of Genetics & Plant Breeding

## CERTIFICATE-II

This is to certify that the thesis entitled "Germplasm evaluation, combining ability, heterosis and gene action studies in rice (*Oryza sativa* L.) under sodic soil" submitted by Mr. Pawan Kumar Yadav, Id. No. A-6200/11/13 to the Acharya Narendra Deva University of Agriculture and Technology, Narendra Nagar (Kumarganj), Ayodhya (U.P.), in partial fulfilment of the requirement for the degree of 'Doctor of Philosophy' (Agriculture) in subject of Genetics and Plant Breeding has been evaluated satisfactory by external examiner and approved by student's advisory committee after an oral examination.

Advisory Committee

(  
External Examiner

Major Advisor & Chairman

(P.K. Singh)

Professor

Department of Genetics and Plant Breeding

Member (Major)

(O.P. Verma)

Assistant Professor

Department of Genetics and Plant Breeding

Member (Minor)

(D.K. Dwivedi)

Professor

Department of Plant Molecular Biology & Genetic Engineering

Member (Related Field)

(V.N. Rai)

Professor

Department of Agricultural Statistics

Dean's Nominee

(S.R. Mishra) 13/1/20

Associate Professor

Department of Agril. Meteorology

Dean, College of Agriculture

Head of Department

# CERTIFICATE-II

This is to certify that the thesis entitled “Genetic variability and stability analysis in rice (*Oryza sativa* L.) over heterogeneous environments” submitted by Ms. Anjali Singh, Id. No. A-10612/18 to the Acharya Narendra Deva University of Agriculture and Technology, Narendra Nagar (Kumarganj), Ayodhya (U.P.), in partial fulfilment of the requirements for the degree of ‘Doctor of Philosophy’ in the subject of Genetics and Plant Breeding has been approved by the Student’s Advisory Committee after an oral examination on the same in collaboration with an External Examiner.

## ADVISORY COMMITTEE

Major Advisor & Chairman

Member (Major)

Member (Minor)

Member (Related Field)

Dean’s Nominee

Dean  
College of Agriculture

External Examiner

(Vinod Singh)  
Associate Professor  
Department of Genetics & Plant Breeding

(Shivnath)  
Associate Professor,  
Department of Genetics & Plant Breeding

(D.K. Dwivedi)  
Professor,  
Department of Plant Molecular Biology  
& Genetic Engineering

(V.N. Rai)  
Professor  
Department of Agricultural Statistics

(Adesh kumar )  
Assistant Professor,  
Department of Plant Molecular Biology  
& Genetic Engineering


Head  
Deptt. of Genetics & Plant Breeding

## CERTIFICATE-II

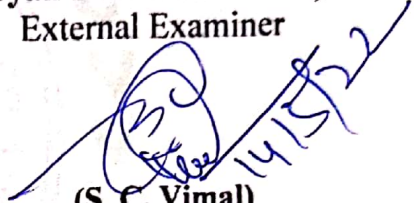
This is to certify that the thesis entitled "**Genetic variability, gene action and heterosis for yield and its contributing traits in rice (*Oryza sativa* L.) under sodic soil**" submitted by Mr. Anand Mohan Choudhary, Id. No. A-8149/14/16 to the Acharya Narendra Deva University of Agriculture and Technology, Narendra Nagar (Kumarganj), Ayodhya, (U.P.) in partial fulfilment of the requirements for the degree of '**Doctor of Philosophy**' in the subject of **Genetics and Plant Breeding** has been approved by the Student's Advisory Committee after an oral examination on the same in collaboration with an External Examiner.

### ADVISORY COMMITTEE


**Major Advisor & Chairman**

  
(Gyan Prakash Mishra)  
External Examiner


**Member (Major)**

  
(S. C. Vimal)  
Associate Professor & Head  
Department of Genetics & Plant Breeding

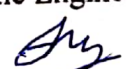
**Member (Minor)**


  
(Vinod Singh)  
Associate Professor  
Department of Genetics & Plant Breeding

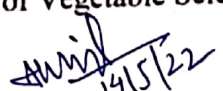
**Member (Related Field)**

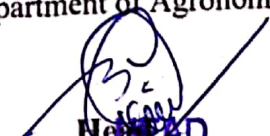
  
(D. K. Dwivedi)  
Professor & Head  
Department of Plant Molecular Biology  
& Genetic Engineering

**Dean's Nominee**

  
(G. C. Yadav)  
Associate Professor  
Department of Vegetable Science

  
Dean  
College of Agriculture

  
(A. K. Singh)  
Associate Professor & Head  
Department of Agronomy

  
HEAD  
Department of Genetics & Plant Breeding  
A.N.D.U.A.T. Kumarganj  
Ayodhya

## CERTIFICATE-II

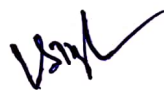
We, the undersigned, member of Advisory Committee of Mr. Govind Mishra, Id. No. A-9504/16/19, a candidate for the degree of Doctor of Philosophy with major in Genetics & Plant breeding agrees that the thesis entitled "Diallel analysis of Indian mustard [*Brassica juncea* (L.) Czern & Coss.] for yields and its contributing traits under timely and late sown conditions" may be submitted in partial fulfillment of the requirement for the degree.



(Shiva Nath)  
Associate Professor, G.P.B  
Chairman  
Advisory committee



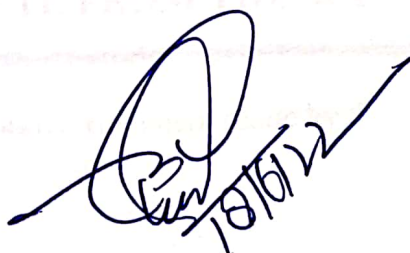
(S.C. Vimal)  
Associate Professor, G.B.P  
Member



(Vinod Singh)  
Associate Professor, G.B.P  
Member




(D.K. Dwivedi)  
Professor, PMB&GE  
Member



Head of the Department  
(Ex- Officio Member)  
**HEAD**  
Deptt. of G.P.B  
A.N.D.U.A.T. Kumargan  
Ayodhya


## CERTIFICATE-II

This is to certify that the thesis entitled "Heterosis, gene action and combining ability analysis in wheat (*Triticum aestivum* L. em. Thell.) under sodic soil" submitted by **Mr. Satyendra Kumar**, Id. No. A-4718/09/13/16 to the Narendra Deva University of Agriculture and Technology, Narendra Nagar (Kumarganj), Ayodhya, in partial fulfilment of the requirements for the degree of 'Doctor of Philosophy' in the subject of **Genetics and Plant Breeding** has been approved by the Student's Advisory Committee after an oral examination on the same in collaboration with an External Examiner.

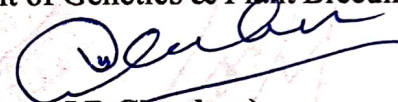
  
( J. P. Shukla )  
External Examiner

### ADVISORY COMMITTEE

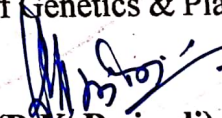
**Major Advisor & Chairman**

  
(Vinod Singh)  
Associate Professor  
Department of Genetics & Plant Breeding


**Member (Major)**

  
(M.P Chauhan)  
Professor  
Department of Genetics & Plant Breeding


**Member (Minor)**

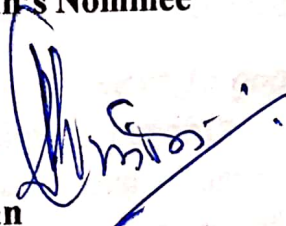
  
(D.K. Dwivedi)  
Professor  
Department of Plant Molecular Biology &  
Genetic Engineering

**Member (Related Field)**

  
(V. P. Pandey)  
Professor  
Department of Vegetable Science

**Dean's Nominee**

  
(S. K. Singh)  
Associate Professor  
Department of Plant Pathology

  
**Dean**  
College of Agriculture

  
**Head**  
Department of Genetics & Plant Breeding


## CERTIFICATE-II

This is to certify that the thesis entitled “**Genetic analysis for yield and yield components in chickpea (*Cicer arietinum* L.) during timely and late sown conditions**” submitted by Miss Neha, I.D. No. A-10614/18 to the Acharya Narendra Deva University of Agriculture and Technology, Narendra Nagar (Kumarganj), Ayodhya in partial fulfilment of the requirements for the degree of “**Doctor of Philosophy**” in subject of **Genetics and Plant Breeding** have been evaluated satisfactory by external examiner and approved by the Student’s Advisory Committee after an oral examination.


Advisory Committee

  
External Examiner

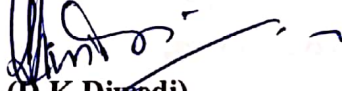
Major Advisor & Chairman

  
(Shiva Nath)  
Associate Professor  
Deptt. of Genetics & Plant Breeding

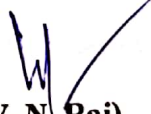
Member (Major)

  
(O. P. Verma)  
Assistant Professor  
Deptt. of Genetics & Plant Breeding


Member (Minor)

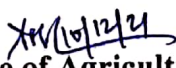
  
(D.K. Dwivedi)  
Professor  
Department of PMB & GE


Member (Related Field)

  
(V. N. Rai)  
Professor & Head  
Department of Agril. Statistics

Dean’s Nominee

  
(Rajesh Kumar)  
Assistant Professor  
Deptt. of Agronomy


  
Dean, College of Agriculture

  
Head of the Department  
G. P. B.



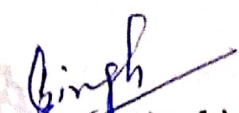
## CERTIFICATE-II

This is to certify that the thesis entitled "performance of rice (*Oryza sativa* L.) cultivars to leaf colour chart based nitrogen management in eastern U.P." submitted by Sri Anil Kumar, I.D. No. A- 7023/12 to the Narendra Deva University of Agriculture and Technology, Narendra Nagar (Kumarganj), Faizabad, in partial fulfillment of the requirements for the degree of 'Doctor of Philosophy' in the subject of Agronomy has been approved by the Student's Advisory Committee after an oral examination on the same in collaboration with an external examiner.

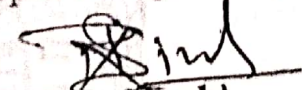
  
28.6.2018  
**External Examiner**

### ADVISORY COMMITTEE

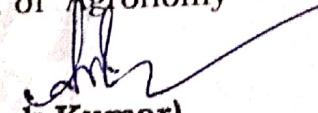
**Major Advisor & Chairman**

  
**(Ghanshyam Singh)**  
Professor & Head  
Deptt. of Agronomy

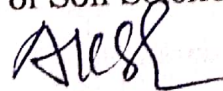
**Member (Major)**

  
**(R.P. Singh)**  
Assistant Professor  
Deptt. of Agronomy

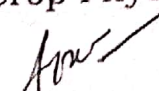
**Member (Minor)**


  
**(Alok Kumar)**  
Associate Professor  
Deptt. of Soil Science

**Member (Related Field)**

  
**(A.K. Singh)**  
Assistant Professor & Head  
Deptt. of Crop Physiology

**Dean's Nominee**

  
**(A.H. Khan)**  
Associate Professor  
Deptt. of Crop Physiology

  
**Dean, College of Agriculture**

  
**Head of Department**

## CERTIFICATE-II

This is to certify that thesis entitled "Effect of integrated nutrient management on wheat (*Triticum aestivum* L.) productivity and soil fertility" submitted by Mr. Brij Mohan, Id. No. A-3254/05/10/12, to the Narendra Deva University of Agriculture & Technology, Kumarganj, Faizabad in partial fulfilment of the requirements for the degree of **Doctor of Philosophy** in agriculture in the subject of **Agronomy** has been approved by the Student's Advisory Committee after an oral examination on the same in collaboration with an external examiner.

### ADVISORY COMMITTEE

**Major Advisor & Chairman**

**Member (Major)**

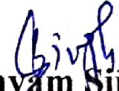
**Member (Minor)**

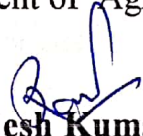
**Member (Related Field)**

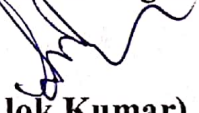
**Dean's Nominee**

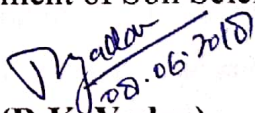
**Dean, College of Agriculture**

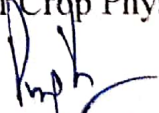
  
20.06.2018  
**EXTERNAL EXAMINER**

  
**(Ghanshyam Singh)**  
Professor & Head  
Department of Agronomy

  
**(Rajesh Kumar)**  
Assistant Professor  
Department of Agronomy

  
**(Alok Kumar)**  
Associate Professor  
Department of Soil Science

  
**(R.K. Yadav)**  
Assistant Professor  
Department of Crop Physiology

  
**(Prakash Singh)**  
Associate Professor  
Department of Agril. Extension & Education

  
**Head of Department**

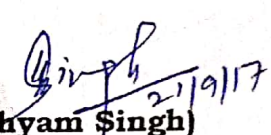
## CERTIFICATE-II

This is to certify that the thesis entitled "Effect of phosphorus, sulphur and zinc on the growth, yield and quality of wheat (*Triticum aestivum* L.)" submitted by Sri Sandeep Kumar Yadav, I.D. No. A-7025/12 to the Narendra Deva University of Agriculture and Technology, Narendra Nagar (Kumarganj), Faizabad, in partial fulfillment of the requirements for the degree of 'Doctor of Philosophy' in the subject of Agronomy has been approved by the Student's Advisory Committee after an oral examination on the same in collaboration with an external examiner.

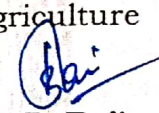
  
21/9/17  
**External Examiner**

### ADVISORY COMMITTEE

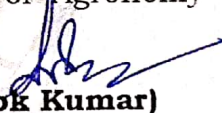
**Major Advisor & Chairman**

  
21/9/17  
**(Ghanshyam Singh)**  
Professor Agronomy & Dean  
Agriculture

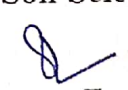
**Member (Major)**

  
**(O.P. Rai)**  
Professor  
Deptt. of Agronomy

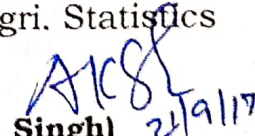
**Member (Minor)**

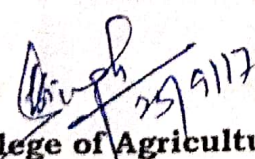
  
**(Alok Kumar)**  
Associate Professor & Head  
Deptt. of Soil Science

**Member (Related Field)**

  
**(Sunil Kumar Tyagi)**  
Associate Professor & Head  
Deptt. of Agri. Statistics

**Dean's Nominee**

  
21/9/17  
**(A.K. Singh)**  
Assistant Professor  
Deptt. of Crop Physiology

  
25/9/17  
**Dean, College of Agriculture**

  
**Head of Department**

## CERTIFICATE-II

This is to certify that thesis entitled "Effect of moisture regime and nutrient supply system on wheat varieties under late sown condition of eastern U.P." submitted by Mr. Rajeev Kumar, Id. No. A-3590/06/10/12, to the Narendra Deva University of Agriculture & Technology, Kumarganj, Faizabad in partial fulfilment of the requirements for the degree of Doctor of Philosophy in agriculture in the subject of Agronomy has been approved by the Student's Advisory Committee after an oral examination on the same in collaboration with an external examiner.

### ADVISORY COMMITTEE

Major Advisor & Chairman

Member (Major)

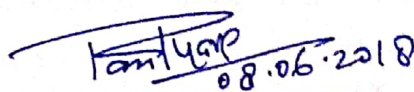
Member (Minor)

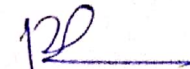
Member (Related Field)

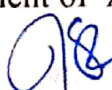
Dean's Nominee

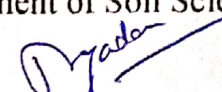
Dean, College of Agriculture


### EXTERNAL EXAMINER

  
(B.N. Singh)  
Assistant Professor  
Department of Agronomy

  
(R.S. Singh)  
Assistant Professor  
Department of Agronomy

  
(R.K. Pathak)  
Assistant Professor  
Department of Soil Science

  
(R.K. Yadav)  
Assistant Professor  
Department of Crop Physiology

  
(R.C. Tiwari)  
Assoc. Professor  
Department of Agril. Engineering

  
Head of Department

# CERTIFICATE-II

This is to certify that the thesis entitled "Effect of integrated nutrient management and plant geometry on productivity of rice (*Oryza sativa* L.) varieties under SRI technique" submitted by Mr. Harikesh, Id. No. A-6182/11/14, to the Narendra Deva University of Agriculture & Technology, Narendra Nagar (Kumarganj), Faizabad (U.P.), in partial fulfilment of the requirements for the degree of **Doctor of Philosophy** in agriculture in the subject of **Agronomy** has been evaluated satisfactory and approved by the Student's Advisory Committee after an oral examination on the same in collaboration with an external examiner.

## ADVISORY COMMITTEE

Major Advisor & Chairman

Member (Major)

Member (Minor)

Member (Related Field)

Dean's Nominee

Dean, College of Agriculture

## EXTERNAL EXAMINER

(Ghanshyam Singh)

Professor  
Department of Agronomy

(O.P. Rai)

Professor  
Department of Agronomy

(R.K. Pathak)

Assistant Professor  
Department of Soil Science

(R.K. Yadav)

Assistant Professor  
Department of Crop Physiology

(P.K. Singh)

Professor  
Department of Genetic and Plant Breeding

Head of Department

## CERTIFICATE-II

This is to certify that the thesis entitled "Effect of tillage management modules and seed rates on crop establishment and productivity of late sown varieties of wheat (*Triticum aestivum* L. Emend. Flori & Paol) in rice fallow." submitted by Shri Hemant Kumar Gangwar, Id. No. A-7681/13 to the Narendra Deva University of Agriculture and Technology, Narendra Nagar (Kumarganj), Faizabad (U.P.), in partial fulfillment of the requirements for the degree of Doctor of Philosophy in the subject of Agronomy has been evaluated satisfactory and approved by the student's advisory committee after an oral examination on the same in collaboration with an external examiner.

Advisory Committee

Major Advisor &  
Chairman

Member (Major)

Member (Minor)

Member (Related Field)

Dean's Nominee

(Anil Khittal)

External Examiner

(R.P. Singh)

Assistant Professor  
Deptt. of Agronomy

(R.S. Singh)

Assistant Professor  
Deptt. of Agronomy

(R.K. Pathak)

Assistant Professor  
Deptt. of Soil Science

(R.K. Yadav) Associate

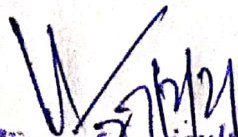
Professor Deptt. of Crop  
Physiology

(Ved Prakash)

Professor  
Deptt. of Soil Science

Professor & Head

Department of Agronomy  
N.D.U.A.T. Kumarganj, Faizabad

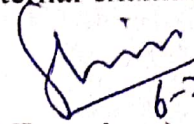
  
Dean of Agriculture  
N. D. Univ. of Agric. & Tech  
Kumarganj - Ayodhya

## CERTIFICATE-II

This is to certify that the thesis entitled "Effect of phosphorus, sulphur and bio-fertilizers on the productivity of chickpea (*Cicer arietinum* L.)" submitted by **Mr. Rajneesh Singh, Id. No. A-6838/12/14** to the Acharya Narendra Deva University of Agriculture and Technology, Narendra Nagar (Kumarganj), Ayodhya (U.P.), in partial fulfilment of the requirement for the degree of **Doctor of Philosophy** in subject of **Agronomy** has been approved by the Student's Advisory Committee after an oral examination on the same collaboration with an external examiner.

Advisory Committee

(External Examiner)

  
6-2-20

(S.P. SINGH)

Major Advisor & Chairman

(N.B. Singh)

Professor & Head

Department of Agronomy

  
6/2/20

Member (Major)

(R.P. Singh)

Asstt. Professor

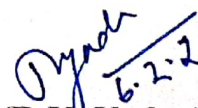
Department of Agronomy

Member (Minor)

(Ved Prakash)

Professor

Department of Soil Science

  
6-2-2020

Member (Related Field)

(R.K. Yadav)

Assoc. Professor

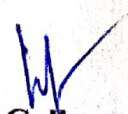
Department of Crop Physiology

Dean's Nominee

(Raj Bahadur)

Assoc. Professor

Department of C.P

  
Dean, College of Agriculture

  
Head of Department

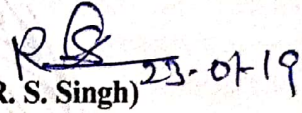
## CERTIFICATE-II

This is to certify that the thesis entitled "Effect of weed management practices on growth and yield of direct seeded rice (*Oryza sativa* L.)" submitted by Mr. Ajay Singh, I.D. No. A-6825/12/15 to Narendra Deva University of Agriculture & Technology, Narendra Nagar (Kumarganj), Ayodhya (U.P.), in partial fulfillment of the requirements for the degree of Doctor of Philosophy in the subject of Agronomy has been evaluated satisfactory and approved by the Student's Advisory Committee after an oral examination on the same in collaboration with an external examiner.

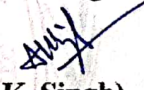
Advisory Committee

  
(External Examiner)


Major Advisor and Chairman

  
(R. S. Singh)  
Assistant Professor  
Department of Agronomy

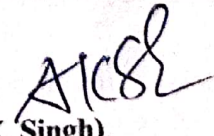
Member Major

  
(A. K. Singh)  
Assistant Professor  
Department of Agronomy

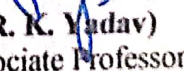
Member Minor

  
(R. K. Pathak)  
Assistant Professor  
Department of Soil Science

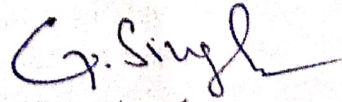
Member Related Field

  
(A. K. Singh)  
Associate Professor  
Department of Crop Physiology

Dean's Nominee

  
(R. K. Yadav)  
Associate Professor  
Department of Crop Physiology

  
Dean, College of Agriculture

  
Head of Department



## CERTIFICATE-II

This is to certify that the thesis entitled "Effect of nitrogen levels and weed management practices on growth and yield of zero-till wheat (*Triticum aestivum* L.)" submitted by Mr. Manoj Kumar, I.D. No. A-9008/15 to Narendra Deva University of Agriculture & Technology, Narendra Nagar (Kumarganj), Ayodhya (U.P.), in partial fulfillment of the requirements for the degree of **Doctor of Philosophy** in the subject of **Agronomy** has been evaluated satisfactory and approved by the Student's Advisory Committee after an oral examination on the same in collaboration with an external examiner.

Advisory Committee

(External Examiner)

Major Advisor and Chairman

(R.P. Singh)  
Assistant Professor  
Department of Agronomy

Member Major

(B.N. Singh)  
Assistant Professor  
Department of Agronomy

Member Minor

(S.F.A. Zaidi)  
Professor  
Department of Soil Science

Member Related Field

(R.K. Yadav)  
Associate Professor  
Department of Crop Physiology

Dean's Nominee

(Ved Prakash)  
Professor  
Department of Soil Science

Dean, College of Agriculture

Head of Department

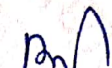
## CERTIFICATE-II

This is to certify that the thesis entitled "Effect of Tillage Practices and Moisture Regimes on the Performance of Wheat." submitted by Mr. Vinay Kumar Pandey, I.D. No. A-9009/15 to Narendra Deva University of Agriculture & Technology, Narendra Nagar (Kumarganj), Ayodhya (U.P.), in partial fulfillment of the requirements for the degree of **Doctor of Philosophy** in the subject of **Agronomy** has been evaluated satisfactory and approved by the Student's Advisory Committee after an oral examination on the same in collaboration with an external examiner.

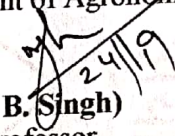
Advisory Committee

  
(External Examiner)


Major Advisor and Chairman

  
(B. N. Singh)  
Assistant Professor  
Department of Agronomy


Member Major

  
(N. B. Singh)  
Professor  
Department of Agronomy

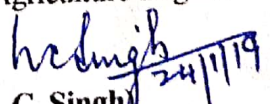
Member Minor

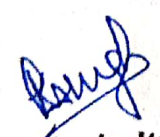
  
(Ved Prakash)  
Professor  
Department of Soil Science

Member Related Field

  
(R. C. Tiwari)  
Associate Professor  
Department of Agriculture Engineering

Dean's Nominee

  
(H. C. Singh)  
Associate Professor  
Department of Agriculture Engineering

  
Dean, College of Agriculture

  
Head of Department

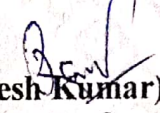
## CERTIFICATE-II

This is to certify that the thesis entitled "Weed management studies in Japanese mint (*Mentha arvensis* L.)" submitted by **Mr. Yashwant Kumar Yadav**, Id. No. A-4285/08/12/14 to the Narendra Deva University of Agriculture and Technology, Kumarganj, Ayodhya in partial fulfillment of the requirements for the degree of "Doctor of Philosophy (Agriculture)" in the subject of **Agronomy** has been evaluated satisfactory by external examiner and approved by the student's advisory committee after an oral examination.

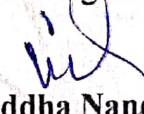
**Advisory Committee**

**External Examiner**

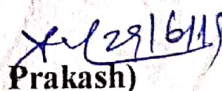
**Major Advisor & Chairman**

  
**(Rajesh Kumar)**  
Assistant Professor  
Department of Agronomy

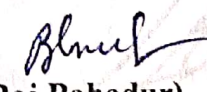
**Member (Major)**

  
**(Vishuddha Nand)**  
Assistant Professor (Agronomy)  
Department of Livestock Farm Complex

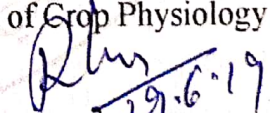
**Member (Minor)**


  
**(Ved Prakash)**  
Professor  
Department of Soil Science

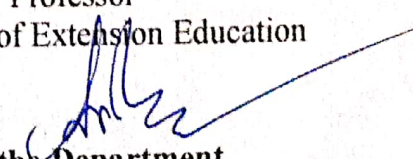
**Member (Related Field)**

  
**(Raj Bahadur)**  
Associate Professor  
Department of Crop Physiology

**Dean's Nominee**

  
**(R. K. Doharey)**  
Professor  
Department of Extension Education

  
**Dean, College of Agriculture**

  
**Head of the Department**

## CERTIFICATE-II

This is to certify that the thesis entitled "Effect of weed management practices on the performance of Indian mustard (*Brassica juncea* L.)" submitted by Mr. Deepak Pandey, Id. No. A-9602/16 to the Acharya Narendra Deva University of Agriculture and Technology, Narendra Nagar (Kumarganj), Ayodhya, in partial fulfilment of the requirements for the degree of 'Doctor of Philosophy' in the subject of Agronomy has been approved by the Student's Advisory Committee after an oral examination on the same in collaboration with an External Examiner.

Advisory Committee

(*S. K. Singh*)  
External Examiner 28/12/19

Major Advisor & Chairman

(*R.P. Singh*) 28.12.19  
(R.P. Singh)  
Assistant Professor  
Department of Agronomy

Member (Major)

(*R.S. Singh*)  
(R.S. Singh)  
Assistant Professor (Selection Grade)  
Department of Agronomy

Member (Minor)

(*R.K. Pathak*)  
(R.K. Pathak)  
Assistant Professor  
Department of Soil Science & Agril. Chemistry

Member (Related Field)

(*R.K. Yadav*) 28.12.19  
(R.K. Yadav)  
Associate Professor  
Department of Crop Physiology

Dean's Nominee

(*G.P. Singh*)  
(G.P. Singh)  
Professor & Head  
Department of Agricultural Economics

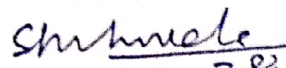
(*W. Singh*) 21/12/2019  
Dean, College of Agriculture

(*W. Singh*)  
Head  
Department of Agronomy

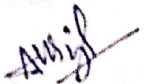
## CERTIFICATE-II

This is to certify that the thesis entitled "Influence of planting geometry and nitrogen level on rice (*Oryza sativa* L.)" submitted by Mr. Shashank Shekher Singh, Id., Id. No. A-8142/14/16, to the Narendra Deva University of Agriculture and Technology, Kumarganj, Faizabad (U.P.) in partial fulfillment of the requirements for the degree of Doctor of Philosophy "(Agriculture)" in the subject of Agronomy has been evaluated satisfactory by external examiner, and approved by student's advisory committee after an oral examination.

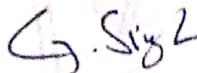
ADVISORY COMMITTEE

  
(External Examiner) 28.12.19

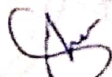
Major Advisor & Chairman

  
(A.K. Singh)  
Associate Professor  
Department of Agronomy

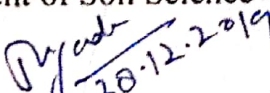
Member (Major)

  
(Gajendra Singh)  
Professor  
Department of Agronomy

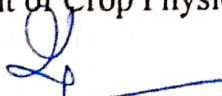
Member (Minor)

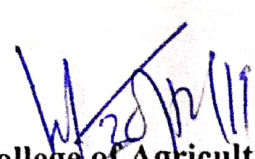
  
(S.F.A Zaidi)  
Professor  
Department of Soil Science

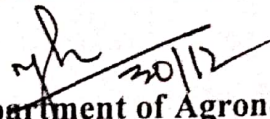
Member (Related Field)

  
(R.K. Yadav) 20.12.2019  
Associate Professor  
Department of Crop Physiology

Dean's Nominee

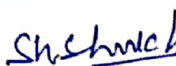
  
(R.N. Kewat)  
Associate Professor  
Department of GPB

  
Dean, College of Agriculture

  
Head, Department of Agronomy

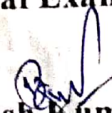
## CERTIFICATE-II

This is to certify that the thesis entitled "Effect of nutrient management and plant growth regulators on productivity of wheat (*Triticum aestivum* L.)" submitted by Mr. Jay Prakash Gupta, Id. No. A-9601/16 to the Narendra Deva University of Agriculture and Technology, Narendra Nagar (Kumarganj), Ayodhya, in partial fulfilment of the requirements for the degree of 'Doctor of Philosophy' in the subject of Agronomy has been approved by the Student's Advisory Committee after an oral examination on the same in collaboration with an External Examiner.


  
(S.K. Shukla) 13.12.19  
External Examiner

Advisory Committee

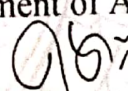
Major Advisor & Chairman

  
(Rajesh Kumar)  
Assistant Professor  
Department of Agronomy

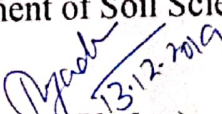
Member (Major)

  
(Ramesh Singh Yadav)  
Assistant Professor  
Department of Agronomy

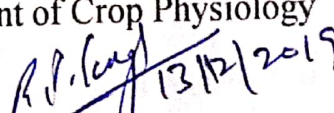
Member (Minor)

  
(R. K. Pathak)  
Assistant Professor  
Department of Soil Science

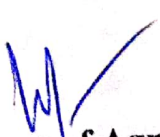
Member (Related Field)

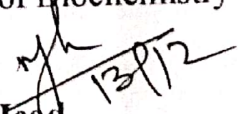
  
(R. K. Yadav)  
Associate Professor  
Department of Crop Physiology

Dean's Nominee

  
(R. P. Singh)  
Professor


Department of Biochemistry

  
Dean, College of Agriculture

  
Head  
Department of Agronomy

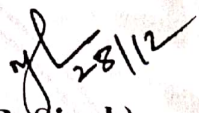
## CERTIFICATE-II

This is to certify that the thesis entitled "Assessment of organic and inorganic nutrient supply system on yield of paddy in SRI system" submitted by Ankita Rao, Id. No. A-9600/16 to the Acharya Narendra Deva University of Agriculture and Technology, Narendra Nagar (Kumarganj), Ayodhya, in partial fulfilment of the requirements for the degree of 'Doctor of Philosophy' in the subject of Agronomy has been approved by the Student's Advisory Committee after an oral examination on the same in collaboration with an External Examiner.

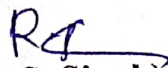
(  
  
28/12/19  
External Examiner

Advisory Committee

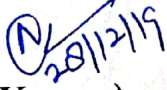
Major Advisor & Chairman

  
28/12  
(N. B. Singh)  
Professor  
Department of Agronomy

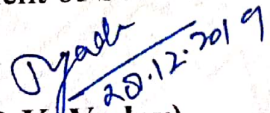
Member (Major)

  
(R.S. Singh)  
Assistant Professor (Selection Grade)  
Department of Agronomy

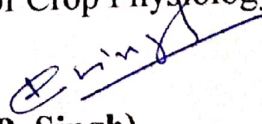
Member (Minor)

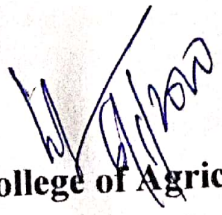
  
28/12/19  
(Neeraj Kumar)  
Associate Professor  
Department of Soil Science

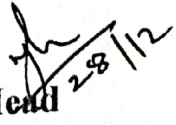
Member (Related Field)

  
28.12.2019  
(R.K. Yadav)  
Associate Professor  
Department of Crop Physiology

Dean's Nominee

  
(G.P. Singh)  
Professor & Head  
Department of Agricultural Economics

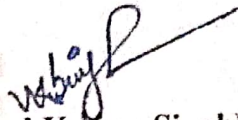
  
Dean, College of Agriculture

  
28/12  
Head  
Department of Agronomy

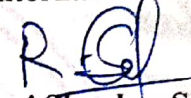
## CERTIFICATE-II

This is to certify that the thesis entitled "Effect of nitrogen sources and weed management practices on the performance of turmeric" submitted by Mr. Prashant Singh, Id. No. A-9010/15 to the Department of Agronomy, Acharya Narendra Deva University of Agriculture and Technology, Kumarganj, Ayodhya (U.P.), in partial fulfillment of the requirement for the degree of Doctor of Philosophy in subject of Agronomy has been approved by the Student's Advisory Committee after an oral examination on the same collaboration with an external examiner.

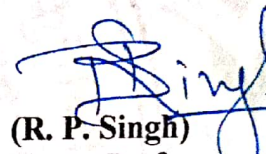
Advisory Committee

  
(Vinod Kumar Singh)  
External Examiner

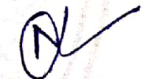
Major Advisor &  
Chairman

  
(Ravi Shanker Singh)  
Assistant Professor (Selection Grade)  
Department of Agronomy

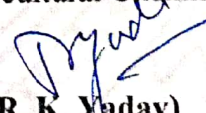
Member (Major)

  
(R. P. Singh)  
Assistant Professor  
Department of Agronomy

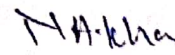
Member (Minor)

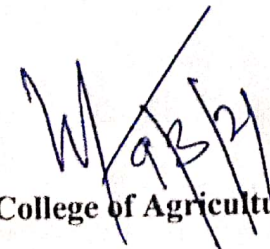
  
(Neeraj Kumar)  
Associate Professor  
Department of Soil Science &  
Agricultural Chemistry

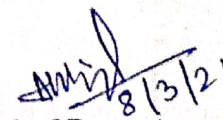
Member (Related Field)

  
(R. K. Yadav)  
Assistant Professor  
Department of Crop Physiology

Dean's Nominee

  
(N. A. Khan)  
Associate Professor & Head  
Department of Biotechnology


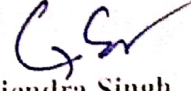
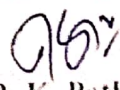
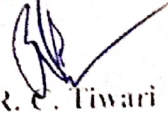

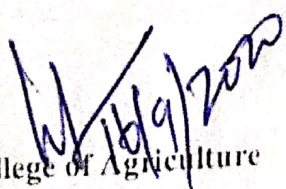
  
Dean, College of Agriculture

  
Head of Department




CERTIFICATE-II

We, the undersigned, member of Advisory Committee of Mr. Nikhil Raghuvanshi, ID. No. A-8839/15/17 a candidate for the degree of Doctor of Philosophy with major in Agronomy agree that the thesis entitled "Effect of sowing methods and nitrogen management on the performance of wheat (*Triticum aestivum L.*)" may be submitted in the partial fulfillment of the requirements of the degree.

Advisory Committee	(Nikhil Raghuvanshi)  (External Examiner)
Major Advisor and Chairman	Dr. B. N. Singh Assistant Professor Department of Agronomy
Member Major	 Dr. Gajendra Singh Professor & Head Department of Agronomy
Member Minor	 Dr. R. K. Pathak Assistant Professor Department of Soil Science
Member Related Field	 Dr. R. C. Tiwari Associate Professor Department of Agronomy
Dean's Nominee	 Dr. Abh Singh Assistant Professor Department of Crop Physiology
Dean, College of Agriculture	 Head of Department


## CERTIFICATE-II

This is to certify that the thesis entitled "Effect of moisture regime and integrated nutrients management in hybrid rice (*Oryza sativa* L.)" submitted by Mr. Mahendra Pratap Singh, Id. No. A-8138/14/16 to the Acharya Narendra Deva University of Agriculture and Technology, Narendra Nagar (Kumarganj), Ayodhya (U.P.) in partial fulfilment of the requirement for the degree of Doctor of Philosophy in the subject of Agronomy has been approved by the Student's Advisory Committee after an oral examination on the same in collaboration with an external examiner.

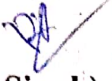
  
External Examiner  
(Prof. U.P. Singh)

### Advisory Committee


Major Advisor &  
Chairman

  
(B. N Singh)  
Assistant Professor  
Department of Agronomy


Members:  
Major

  
(R. S. Singh)  
Assistant Professor  
Department of Agronomy

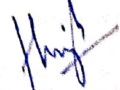
Minor

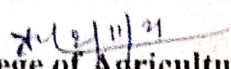
  
(Neeraj Kumar)  
Associate Professor  
Department of Soil Science

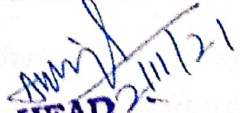
Related Field

  
(R. K. Yadav)  
Associate Professor  
Department of Crop Physiology

Dean's Nominee

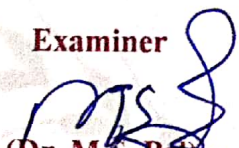
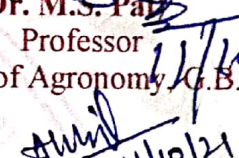
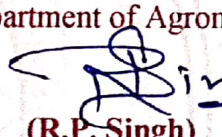
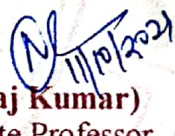
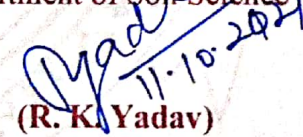
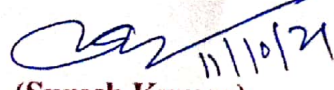
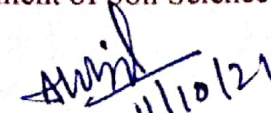
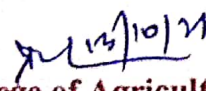
  
(R. P. Singh)  
Associate Professor  
Department of Biochemistry

  
Dean, College of Agriculture

  
HEAD  
Deptt. of Agronomy

## CERTIFICATE-II

This is to certify that the thesis entitled “Effect of different planting methods and weed management practices on the performance of paddy (*Oryza sativa* L.)” submitted by **Mr. Avinash Kumar Singh, Id. No. A-10103/17** to the Acharya Narendra Deva University of Agriculture and Technology, Narendra Nagar (Kumarganj), Ayodhya (U.P.) in partial fulfillment of the requirements for the degree of **Doctor of philosophy** in subject of **Agronomy** has been approved by the Student’s Advisory Committee after an oral examination on the same.

<b>Advisory Committee</b>	<b>Examiner</b>  (Dr. M.S. Pathak) Professor Department of Agronomy, G.B.P.U.A&T 11/10/2021
<b>External Examiner</b>	 (A. K. Singh) Professor Department of Agronomy 11/10/21
<b>Major Advisor &amp; Chairman</b>	 (R.P. Singh) Assistant Professor Department of Agronomy 11/10/21
<b>Member (Major)</b>	 (Neeraj Kumar) Associate Professor Department of Soil Science 11/10/2021
<b>Member (Minor)</b>	 (R. K. Yadav) Associate Professor Department of Crop Physiology 11.10.2021
<b>Member (Related Field)</b>	 (Suresh Kumar) Associate Professor Department of Soil Science 11/10/21
<b>Dean's Nominee</b>	 Avinash Kumar Singh 11/10/21 <b>Head of Department</b>
 Dean, College of Agriculture	

## CERTIFICATE-II

This is to certify that the thesis entitled "Effect of fertility levels and weed management practices on productivity of wheat (*Triticum aestivum* L.)" submitted by Mr. Kali Deen, I.D. No. A-5791/11/15/17, to the Acharya Narendra Deva University of Agriculture and Technology, Narendra Nagar (Kumarganj), Ayodhya (U.P.) in partial fulfillment of the requirements for the degree of **Doctor of Philosophy (Agriculture)** in the subject of **Agronomy** has been evaluated satisfactory by external examiner and approved by Student's Advisory Committee after an oral examination.

### ADVISORY COMMITTEE

Major Advisor & Chairman

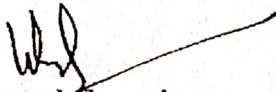
Member from Major

Member from Minor

Member from related field

Dean's Nominee

Dean, College of Agriculture

  
External Examiner

(Prof. U. R. Singh)

(Ram Pratap Singh) 23/10/2021

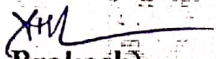
Assistant Professor

Department of Agronomy

  
(Ravi Shankar Singh)

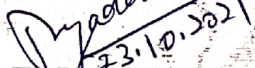
Assistant Professor

Department of Agronomy

  
(Ved Prakash)

Professor

Department of Soil Science

  
(R. K. Yadav) 23.10.2021

Assoc. Professor

Department of Crop Physiology

  
(B. N. Singh)

Assistant Professor

Department of Agronomy

  
Head of Department 21/11/22

Dept. of Agronomy

## CERTIFICATE-II

This is to certify that thesis entitled "Evaluation of new herbicides and its combination for effective weed management in Chickpea (*Cicer arietinum* L.)" submitted by Mr. Raghvendra Singh, Id. No. A-8842/15/17, to the Acharya Narendra Deva University of Agriculture & Technology, Kumarganj, Ayodhya in partial fulfilment of the requirements for the degree of **Doctor of Philosophy** in agriculture in the subject of **Agronomy** has been approved by the Student's Advisory Committee after an oral examination on the same in collaboration with an external examiner.

### ADVISORY COMMITTEE

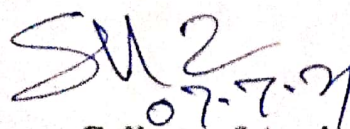
Major Advisor & Chairman

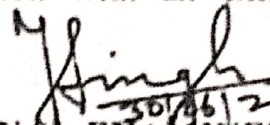
Member (Major)


Member (Minor)

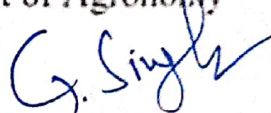
Member (Related Field)


Dean's Nominee

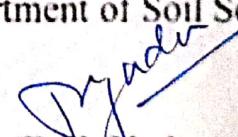
  
07.7.21  
Dean, College of Agriculture

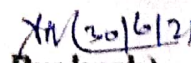
  
30/06/2021  
EXTERNAL EXAMINER  
(Yashwant Singh)

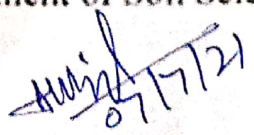
  
(Ravi Shanker Singh)  
Assistant Professor (Selection Grade)  
Department of Agronomy

  
(Gajendra Singh)  
Professor  
Department of Agronomy

  
(R.K. Pathak)  
Assistant Professor  
Department of Soil Science

  
(R.K. Yadav)  
Associate Professor  
Department of Crop Physiology

  
(Ved Prakash)  
Professor  
Department of Soil Science

  
07/7/21  
Head of Department

## CERTIFICATE-II

This is to certify that the thesis entitled "Effect of sowing methods and moisture regimes on productivity of timely and late sown varieties of wheat (*Triticum aestivum* L.)" submitted by **Mr. Gyanendra Kumar, Id. No. A-10102/17** to the Acharya Narendra Deva University of Agriculture and Technology, Narendra Nagar (Kumarganj), Ayodhya (U.P.) in partial fulfilment of the requirements for the degree of **Doctor of philosophy** in subject of **Agronomy** has been approved by the Student's Advisory Committee after an oral examination on the same.

Advisory Committee

Major Advisor & Chairman

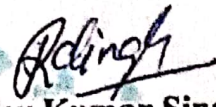
Member (Major)


Member (Minor)


Member (Related Field)

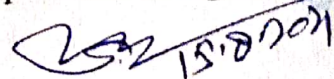
Dean's Nominee

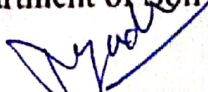
Dean, College of Agriculture

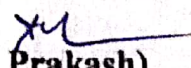
  
(Rajeev Kumar Singh)  
External Examiner

  
(Vishuddha Nand)  
Assistant Professor (Agronomy)  
Dept. of Livestock Farm Complex  
College of Vet. Sci. & A.H.

  
(Rajesh Kumar)  
Assistant Professor  
Department of Agronomy

  
(Suresh Kumar)  
Associate Professor  
Department of Soil Science

  
(R. K. Yadav)  
Associate Professor  
Department of Crop Physiology

  
(Ved Prakash)  
Professor  
Department of Soil Science

  
Head of Department

## CERTIFICATE-II

This is to certify that the thesis entitled "Effect of different crop establishment methods with or without residue and fertility levels on late sown wheat after rice crop" submitted by, Mr. Abhineet, I.D. No. A-9485/16/18 to the Acharya Narendra Deva University of Agriculture and Technology, Narendra Nagar (Kumarganj), Ayodhya (U.P.), in partial fulfilment of the requirements for the degree of "Doctor of Philosophy" in subject of Agronomy has been evaluated satisfactory by external examiner and approved by Student's Advisory Committee after an oral examination on the same in collaboration with an external examiner.

Advisory Committee

(External Examiner)

Major Advisor & Chairman

(B. N. Singh)

Assistant Professor  
Department of Agronomy

Member (Major)

(Ravi Shanker Singh)

Assistant Professor  
Department of Agronomy

Member (Minor)

(R. K. Pathak)

Assistant Professor  
(Soil sci. & Agri. Chemistry)  
Department of Vegetable Science

Member (Related Field)

(R. C. Tiwari)

Associate Professor  
Department of Agriculture  
Engineering

Dean's Nominee

(V. N. Rai)

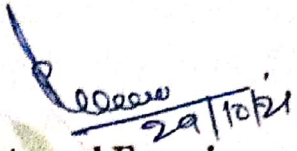
Professor & Head  
Department of Statistics

Dean, College of Agriculture

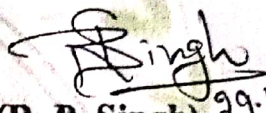
Head of the Department  
Dept. of Agronomy

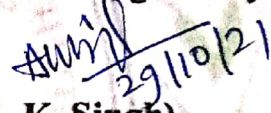
## CERTIFICATE-II

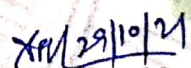
This is to certify that the thesis entitled **Effect of tillage, fertility levels and weed management on late sown wheat (*Triticum aestivum* L.)** submitted by **Mr. Pradeep Kumar Kanaujiya, Id. No. A-94991/16/18** to the Acharya Narendra Deva University of Agriculture and Technology, Narendra Nagar (Kumarganj), Ayodhya (U.P.), in partial fulfilment of the requirement for the degree of **Doctor of Philosophy** in the subject of **Agronomy** has been approved by the Student's Advisory Committee after an oral examination on the same in collaboration with an external examiner.

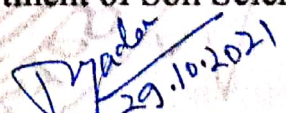
  
29/10/21  
**External Examiner**

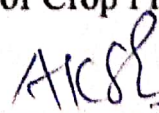
**Advisory Committee**

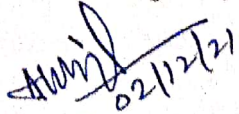
**Major Advisor & Chairman**   
**(R. P. Singh)** 29.10.2021  
Assistant Professor  
Department of Agronomy

**Members: Major**   
29/10/21  
**(A. K. Singh)**  
Head & Associate Professor  
Department of Agronomy

**Minor**   
29/10/21  
**(Ved Prakash)**  
Professor  
Department of Soil Science

**Related Field**   
29.10.2021  
**(R. K. Yadav)**  
Associate Professor  
Department of Crop Physiology

**Dean's Nominee**   
29/10/21  
**(A. K. Singh)**  
Associate Professor  
Department of Crop Physiology


**Dean, College of Agriculture**   
02/11/21  
**Head of Department**  
**Deptt. of Agronomy**




## CERTIFICATE-II

This is to certify that the thesis entitled "Effect of Phosphorus and Biofertilizers on growth, yield and quality of Summer Greengram (*Vigna radiata* L.) after wheat crop" submitted by, Mr. Sudhakar Singh, I.D. No. A-10604/18 to the Acharya Narendra Deva University of Agriculture and Technology, Narendra Nagar (Kumarganj), Ayodhya (U.P.), in partial fulfilment of the requirements for the degree of "Doctor of Philosophy" in subject of Agronomy has been evaluated satisfactory by external examiner and approved by Student's Advisory Committee after an oral examination on the same in collaboration with an external examiner.

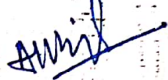
Advisory Committee

  
External Examiner  
Prof. U. P. Singh


Major Advisor & Chairman

  
(R.S. Singh)  
Assistant Professor  
Department of Agronomy

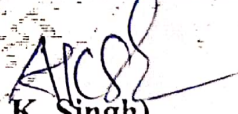
Member (Major)

  
(A.K. Singh)  
Associate Professor  
Department of Agronomy

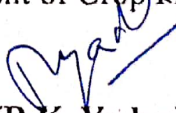
Member (Minor)

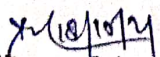
  
(Neeraj Kumar)  
Associate Professor  
Department of Soil Science

Member (Related Field)

  
(A.K. Singh)  
Associate Professor  
Department of Crop Physiology

Dean's Nominee

  
(R.K. Yadav)  
Associate Professor  
Department of Crop Physiology

  
Dean, College of Agriculture

  
Head of the Department

## CERTIFICATE-II

This is to certify that the thesis entitled "Response of bio-fertilizers and weed management on weed dynamics and productivity of chickpea (*Cicer arictinum* L.)" submitted by Mr. Amit Kumar, Id. No. A-8133/14/18 to the Acharya Narendra Deva University of Agriculture and Technology, Narendra Nagar (Kumarganj), Ayodhya (U.P.), in partial fulfilment of the requirement for the degree of **Doctor of Philosophy** in the subject of **Agronomy** has been approved by the Student's Advisory Committee after an oral examination on the same in collaboration with an external examiner.

Advisory Committee

Major Advisor &  
Chairman

Members:  
Major

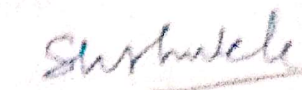
Minor

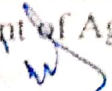
Related Field


Dean's Nominee

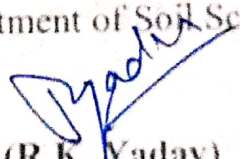
Dean, College of Agriculture

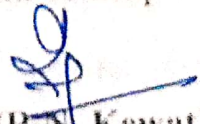
External Examiner

  
(Rajesh Kumar)  
Assistant Professor  
Department of Agronomy

  
(Vishuddha Nand)  
Assistant Professor (Agronomy)  
College of Veterinary Science & AH

  
(Suresh Kumar)  
Associate Professor  
Department of Soil Science

  
(R.K. Yadav)  
Associate Professor  
Department of Crop Physiology

  
(R.N. Kewat)  
Associate Professor  
Department of Biochemistry

  
Head of Department

## CERTIFICATE-II

This is to certify that the thesis entitled "Response of Indian Mustard [*Brassica Juncea* (L.)] to sources and levels of sulphur" submitted by Mr. Shrimannarayan Dubey, Id. No. A-7522/13/18 to the Acharya Narendra Deva University of Agriculture & Technology, Narendra Nagar (Kumarganj), Ayodhya (U.P.), in partial fulfillment of the requirements for the degree of "Doctor of Philosophy" in the subject of "Agronomy" has been evaluated satisfactory and approved by the Student's Advisory Committee after an oral examination on the same in collaboration with an external examiner.

Advisory Committee

(External Examiner)

G. Singh 29/3/22

Major Advisor and Chairman

(A.K. Singh)

Amid 29/3/22

Associate Professor & Head  
Department of Agronomy

Member Major

(B.N. Singh)

BN

Assistant Professor  
Department of Agronomy

Member Minor

(Ved Prakash)

xu

Professor & Head  
Department of Soil Science

Member Related Field

(R.K. Yadav)

R.K. Yadav

Associate Professor  
Department of Crop Physiology

Dean's Nominee

(O.P. Verma)

OPV 29/03/22

Assistant Professor  
Department Of Genetics & Plant Breeding


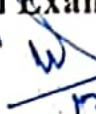
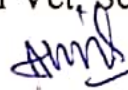
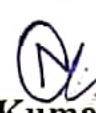
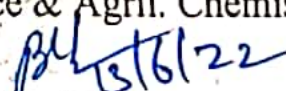
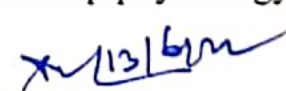
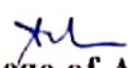

Dean, College of Agriculture

29/3/22

Head of Department  
Deptt. of Agronomy

# CERTIFICATE-II

This is to certify that the thesis entitled "Effect of Integrated Nutrient Management (INM) in timely sown wheat (*Triticum aestivum* L.)" submitted by Mr. Chandra Shekhar, Id. No. A-10602/18 to the Acharya Narendra Deva University of Agriculture and Technology, Narendra Nagar (Kumarganj), Ayodhya, (U.P.) in partial fulfillment of the requirements for the degree of 'Doctor of Philosophy' in the discipline of "Agronomy" has been evaluated satisfactory and approved by the Student's Advisory Committee after an oral examination on the same in collaboration with an external examiner.

Advisory Committee	 (External Examiner) 13/6/22
Major Advisor and Chairman	 (Vishuddha Nand) Assistant Professor (Agronomy). Department of LFC College of Vet. Sci. & A.H. 13/6/22
Member Major	 (A.K. Singh) Associate Professor Department of Agronomy. 13/6/22
Member Minor	 (Neeraj Kumar) Associate Professor Dept. of Soil Science & Agril. Chemistry 13/6/22
Member Related Field	 (Raj Bahadur) Associate Professor Department of Crop physiology 13/6/22
Dean's Nominee	 (Ved Praksh) Professor/Head Dept. of Soil Science & Agril. Chemistry 13/6/22
 Dean, College of Agriculture	 Head of Department

DEPARTMENT OF CROP PHYSIOLOGY  
ACHARYA NARENDRA DEVA UNIVERSITY OF AGRICULTURE &  
TECHNOLOGY, KUMARGANJ, AYODHYA

No. NDUAT/51-7/CP/725

Dated: 30.07.2022

Dean,  
College of Agriculture,  
ANDUAT, Kumarganj, Ayodhya.

Sir,

Kindly refer to your letter no. 2612 dt. 28.07.2022 regarding the information related to Ph.D. awarded from 2017 to 2022 for NAAC Evaluation. In the above context, I have to submit the desired information related to the department of Crop Physiology of last five years for Ph.D. students. The soft copy of the above is being sent on your e-mail separately. This is for your kind information and further necessary action please.

With thanks,

Encl: a.a.

for Kind  
HEAD  
Deptt. of Crop Physiology  
A.N.D.U.A.O. Kumarganj  
Ayodhya  
9/6  
29.7.22

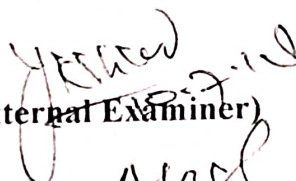
DEPARTMENT OF CROP PHYSIOLOGY

S.N.	Name of student	Title of thesis	Chairman/Major Advisor
1.	Chandra Pal, A-5514/10/13	Effectiveness of seed priming.....Physiological approaches	Dr. A.K. Singh
2	Prashansha Singh, A-6256/11/13	Effect of salicylic acid.....temperature at anthesis	Dr. A.H.Khan
3	Dharmendra Kumar Yadav, A-6253/11/14	Effect of foliar.....sodic soil	Dr. Raj Bahadur
4	Nitish Sharma A-6869/12/14	Role of glycine betaine.....stage in rice ( <i>Oryza sativa</i> L.)	Dr. A.K. Singh
5	Nikita Nehal A-6868/12/14	Physiological characterization.....sodic soil	Dr. A.H.Khan
6	Anand Kumar Pandey A-6250/11/15	Modulating the adverse effect of .....wheat ( <i>Triticum aestivum</i> L.)	Dr. A.K. Singh
7	Anubhuti Singh A-9526/16/18	Evaluation of physiological traits ..... molecular approach	Dr. A.K. Singh

## CERTIFICATE-II

This is to certify that the thesis entitled "The effectiveness of seed priming on germination and seedling growth of different crops under anaerobic condition: a Physiological approach" submitted by Mr. Chandra Pal, Id. No. A-5514/10/13 to the Narendra Deva University of Agriculture and Technology, Narendra Nagar (Kumarganj), Faizabad (U.P.), in partial fulfilment of the requirements for the degree of 'Doctor of Philosophy' in the subject of Crop Physiology has been approved by the Student's Advisory Committee after an oral examination on the same in collaboration with an external examiner.

### ADVISORY COMMITTEE

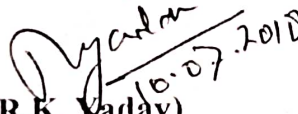
  
(External Examiner)

Major Advisor & Chairman

(A.K. Singh)

Assistant Professor  
Department of Crop Physiology

Member from Major

  
(R.K. Yadav)

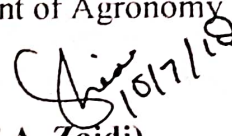
Assistant Professor  
Department of Crop Physiology

Member from Minor

  
(Ravi Shanker Singh)

Assistant Professor (Selection Grade)  
Department of Agronomy

Member from Related Field

  
(S.F.A. Zaidi)

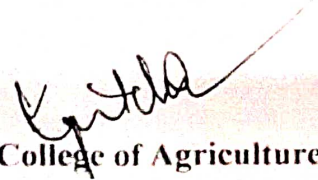
Head

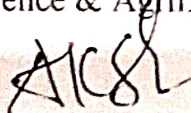
Department of Soil Science & Agril. Chemistry

Dean's Nominee

  
(Ved Prakash)

Associate Professor,  
Department of Soil Science & Agril. Chemistry

  
Dean, College of Agriculture

  
Head of the Department

## CERTIFICATE-II

This is to certify that the thesis entitled "Effect of salicylic acid on growth, physiochemical changes and yield of wheat (*Triticum aestivum* L.) under high temperature at anthesis" submitted by Miss Prashansa Singh, Id. No. A-6256/11/13 to the Narendra Deva University of Agriculture and Technology, Narendra Nagar (Kumarganj), Faizabad, in partial fulfilment of the requirements for the degree of 'Doctor of Philosophy' in the subject of Crop Physiology has been approved by the Student's Advisory Committee after an oral examination on the same in collaboration with an external examiner.

### ADVISORY COMMITTEE

Major Advisor & Chairman

Member from Major

Member from Minor

Member from Related Field

Dean's Nominee

Dean, College of Agriculture

(*Handwritten Signature*)  
External Examiner

(*Handwritten Signature*)  
(A. H. Khan)  
Associate Professor  
Department of Crop Physiology

(*Handwritten Signature*)  
(A. K. Singh)  
Head  
Department of Crop Physiology

(*Handwritten Signature*)  
(D. K. Dwivedi)  
Professor  
Department of PMB & GE

(*Handwritten Signature*)  
(S. F. A. Zaidi)  
Associate Professor  
Department of Soil Science

(*Handwritten Signature*)  
(R.P. Singh)  
Technical Assistant  
Department of Soil Microbiology

(*Handwritten Signature*)  
Head of the Department




## CERTIFICATE-II

This is to certify that the thesis entitled "Effect of foliar application of nitrogen and growth regulator on growth and yield attributes in mungbean (*Vigna radiata* L. Wilczek)." submitted by Mr. Dharmendra Kumar Yadav I.D.No. A- 7546/13 to the Narendra Deva University of Agriculture and Technology, Narendra Nagar (Kumarganj), Faizabad (U.P.), in partial fulfillment of the requirements for the degree of **Master of Science (Agriculture)** in subject of **Crop Physiology** has been approved by the Student Advisory Committee after an oral examination on the same.


Advisory Committee

  
External Examiner


Major Advisor & Chairman

  
(Raj Bahadur)  
Assistant Professor  
Department of Crop Physiology

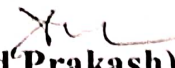
Member (Major)

  
(R.K. Yadav)  
Assistant Professor  
Department of Crop physiology


Member (Minor)

  
(R.A. Singh)  
Professor  
Department of Agronomy

Member (Related Field)

  
(Ved Prakash)  
Associate Professor  
Department of Soil Science

Dean's Nominee

  
(R.A. Yadav)  
Assistant Professor  
Department of Agronomy

  
Dean, College of Agriculture

  
Head of the Department

## CERTIFICATE-II

This is to certify that the thesis entitled "Effect of plant growth regulators (PGRs) on growth, biochemical changes and yield of mustard (*Brassica juncea* L. Czern & Coss.)" submitted by Mr. Nitish Sharma I.D. No. A-6869/12 to the Narendra Deva University of Agriculture and Technology, Narendra Nagar (Kumarganj), Faizabad (U.P.) in partial fulfillment of the requirements for the degree of **Master of Science (Agriculture)** in subject of **Crop Physiology** has been approved by the Student Advisory Committee after an oral examination on the same in collaboration with an External Examiner.

### ADVISORY COMMITTEE

**Major Advisor & Chairman**

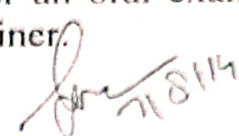
**Member (Major)**


**Member (Minor)**

**Member (Related Field)**

**Dean's Nominee**

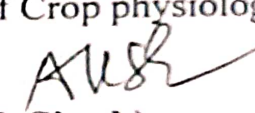
**Dean, College of Agriculture**

  
(External Examiner)

  
(A.H. Khan)

Head

Department of Crop physiology

  
(A.K. Singh)

Assistant Professor

Department of Crop Physiology

  
(O.P. Verma)

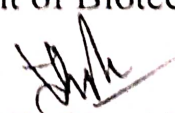
Assistant Professor

Department of Genetics and Plant  
Breeding

  
(Shambhoo Prasad)

Assistant Professor

Department of Biotechnology

  
(J.P. Singh)

HOD

Department of Agril. Economics

  
Head of the Department

## CERTIFICATE - II

This is to certify that the thesis entitled "Effect of plant growth regulators on growth and yield of Indian mustard [*Brassica juncea* (L.) Czern. & Coss.] under drought stress condition" submitted by Miss. Nikita Nehal, I.D. No. A-6868/12 to the Narendra Deva University of Agriculture and Technology, Narendra Nagar (Kumarganj), Faizabad (U.P.) in partial fulfillment of the requirements for the degree of **Master of Science (Agriculture)** in subject of **Crop Physiology** has been approved by the Student's Advisory Committee after an oral examination.

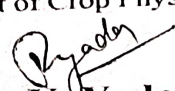
Advisory Committee

  
External Examiner

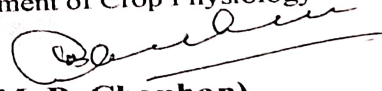
Major Advisor & Chairman

**(A. H. Khan)**  
Associate Professor & Head  
Department of Crop Physiology

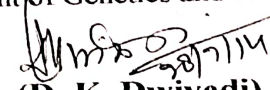
Member (Major)

  
**(R. K. Yadav)**  
Assistant Professor  
Department of Crop Physiology

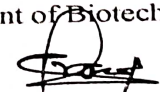
Member (Minor)

  
**(M. P. Chauhan)**  
Professor  
Department of Genetics and Plant Breeding

Member (Related Field)

  
**(D. K. Dwivedi)**  
Professor  
Department of Biotechnology

Dean's Nominee

  
**(Shambhoo Prasad)**  
Assistant Professor  
Department of Biotechnology

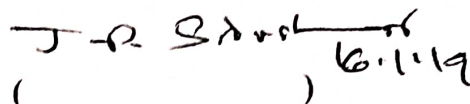
  
Dean

College of Agriculture

  
Head of the Department

## CERTIFICATE-II

This is to certify that the thesis entitled "**Modulating the adverse effect of terminal heat stress on wheat (*Triticum aestivum* L.)**" submitted by **Mr. Anand Kumar Pandey**, Id. No. A-6250/11/15 to the Narendra Deva University of Agriculture and Technology, Narendra Nagar (Kumarganj), Faizabad, in partial fulfilment of the requirements for the degree of '**Doctor of Philosophy**' in the subject of **Crop Physiology** has been approved by the Student's Advisory Committee after an oral examination on the same in collaboration with an external examiner.

  
( ) 6.1.19  
External Examiner

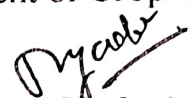
### ADVISORY COMMITTEE

**Major Advisor & Chairman**

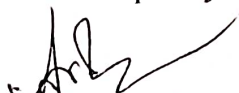
  
(A. K. Singh)  
Head

Department of Crop Physiology

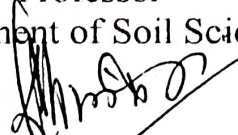
**Member from Major**

  
(R. K. Yadav)  
Associate Professor  
Department of Crop Physiology


**Member from Minor**

  
(Alok Kumar)  
Professor  
Department of Soil Science

**Member from Related Field**

  
(D. K. Dwivedi)  
Head  
Department of PMB & GE

**Dean's Nominee**

  
(Shambhoo Prasad)  
Associate Professor  
Department of PMB & GE

  
Dean, College of Agriculture

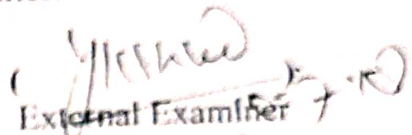
  
Head of the Department


## CERTIFICATE-II

This is to certify that the thesis entitled "Response of seed priming with glycine betaine on germination and biochemical changes in various rice varieties (*Oryza sativa* L.) under salt stress." submitted by Anubhuti Singh, Id. No. A-9526/16 to the Narendra Deva University of Agriculture and Technology, Narendra Nagar (Kumarganj), Faizabad (U.P.), in partial fulfilment of the requirements for the degree of "Master of Science (Agriculture)" in the subject of Crop Physiology has been approved by the Student's Advisory Committee after an oral examination on the same in collaboration with an external examiner.

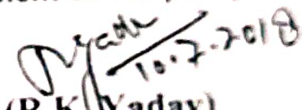
### ADVISORY COMMITTEE

Major Advisor & Chairman


  
External Examiner

  
(A. K. Singh)  
Assistant Professor,  
Department of Crop Physiology

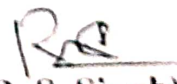
Member from Major

  
(R.K. Yadav)  
Assistant Professor,  
Department of Crop Physiology


Member from Minor


  
(O.P. Verma)  
Assistant Professor,  
Department of G.P.B.

Member from Related Field

  
(R. S. Singh)  
Assistant Professor,  
Department of Agronomy

Dean's Nominee

  
(Shambhoo Prasad)  
Assistant Professor,  
Department of P.M.B. & G.E.

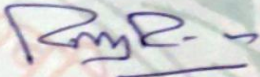
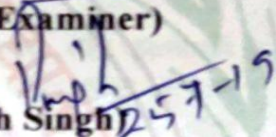


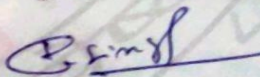
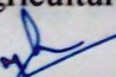

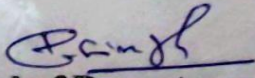
  
Dean, College of Agriculture

  
Head of the Department

## CERTIFICATE-II

This is to certify that the thesis entitled "Study on Awareness, Attitude and Utilization Extent of Safe Plant Protection Measures among the Vegetable Farmers in Eastern Uttar Pradesh" submitted by Mr. Kaushik Prasad, Id. No. A-8247/14/16 to the Narendra Deva University of Agriculture and Technology, Narendra Nagar (Kumarganj), Ayodhya (U.P.), in partial fulfilment of the requirement for the degree of **Doctor of Philosophy** in the subject of **Extension Education** has been approved by the Student's Advisory Committee after an oral examination on the same in collaboration with an external examiner.

### Advisory Committee

	 (External Examiner)
Major Advisor & Chairman	 (Prakash Singh) Professor Department of Extension Education
Member (Major)	 (Subodh Kumar) Professor Department of Veterinary Extension
Member (Minor)	 (V.N. Rai) Professor Department of Agricultural Statistics
Member (Related Field)	 (G.P. Singh) Professor & Head Department of Agricultural Economics
Dean's Nominee	 (N.B. Singh) Professor Department of Agronomy
 Dean, College of Agriculture	 Head of Department

## CERTIFICATE-II

This is to certify that the thesis entitled "Study on women's participation in poverty alleviation through income generating agriculture activities in Kaushambi District (U.P.)" submitted by Mrs. Khushnuma Bano, I.D. No. A-7020/12 to the Narendra Deva University of Agriculture and Technology, Narendra Nagar (Kumarganj), Faizabad (U.P.), in partial fulfillment of the requirements for the degree of **Doctor of Philosophy** in subject of **Extension Education** has been approved by the Student Advisory Committee after an oral examination on the same.

Advisory Committee

(External Examiner)

*[Signature]*  
Dr. Satyapriya  
Sr. Sc. Ag. Exl. - IAR

Major Advisor & Chairman

(R.K. Doharey)

Professor

Department of Extension Education

Member (Major)

(S.P. Singh)

Professor & Director Extension  
Directorate of Extension

Member (Minor)

(B.V.S. Sisodia)

Professor & Head

Department of Agril. statistics

Member (Related field)

(G.P. Singh)

Associate Professor

Department of Agril. Economics

Dean's Nominee

(R.C. Kardam)

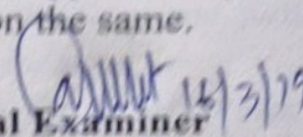
Assistant Professor & Incharge Head  
Department of Nematology

*[Signature]*  
Dean, College of Agriculture

*[Signature]*  
Head of the Department

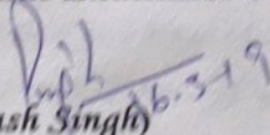
## CERTIFICATE-II

This is to certify that the thesis entitled " **Impact of milk societies on social, economical, communication and psychological attributes of dairy farmers in Sultanpur district of Utter Pradesh**" submitted by **Mr. Sanjeev Atreya, I.D. No.A-9007/15** to the Narendra Deva University of Agriculture and Technology, Narendra Nagar (Kumarganj), Faizabad (U.P.), in partial fulfillment of the requirements for the degree of **(Agriculture)** in subject Doctor of philosophy of **Extension Education** has been evaluated satisfactory by external examiner, and approved by the Student Advisory Committee after an oral examination on the same.

  
External Examiner

### Advisory Committee

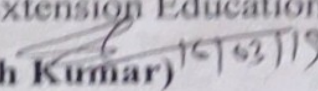
Major Advisor & Chairman

  
(Prakash Singh)

Professor

Department of Extension Education

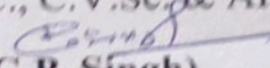
Member (Major)

  
(Subodh Kumar)

Professor

Department of Veterinary College  
I.L.F.C., C.V.Sc. & AH

Member (Minor)

  
(G.P. Singh)

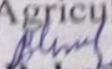
Professor & Head Department  
of Agriculture Economics

Member (Related field)

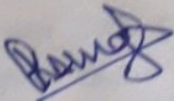
(Sri Sunil Kumar)

Associate Professor & Head  
Department of Agriculture Statistics

Dean's Nominee

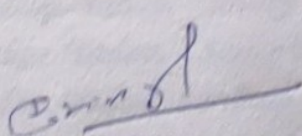
  
(Raj Bahadur)

Associate Professor  
Department of Crop Physiology



Dean

College of Agriculture

  
Head of the Department



## CERTIFICATE-II

This is to certify that the thesis entitled "Study on technological gap and constraint analysis in adoption of scientific mango production practices among the orchardists of Faizabad district" submitted by Mr. Ravindra Kumar Pandey, I.D. No. A-6933/12/14 to the Narendra Deva University of Agriculture and Technology, Narendra Nagar (Kumarganj), Faizabad (U.P.), in partial fulfillment of the requirements for the degree of **Doctor of Philosophy** in subject of **Extension Education** has been evaluated satisfactory by external examiner and approved by the Student Advisory Committee after an oral examination on the same.

Advisory Committee

(External Examiner)

*Dr Satyapriya*

*18.11.17*

Major Advisor & Chairman

(R.K. Doharey)

Professor

Department of Extension Education

Member (Major)

(S.N. Singh)

SMS, Agril. Ext.

Department of Extension Education

Member (Minor)

(V.N. Rai)

Associate Professor

Department of Agril. Statistics

Member (Related field)

(R.A. Singh)

Professor (Agril. Eco.)

Directorate of Research

Department of Agril. Economics

Dean's Nominee

(Subodh Kumar)

Associate Professor (Vet. Ext.)

Department of Veterinary Science

*Singh*  
*21/11/18*  
Dean, College of Agriculture

*Singh*  
*14/12/17*  
Head of the Department

## CERTIFICATE-II

This is to certify that the thesis entitled "Study on Technological gap and constraints analysis of potato production of Etawah district (U.P.)" submitted by Mr. Shivam, ID.No. A-8383/14 to the Narendra Deva University of Agriculture and Technology, Narendra Nagar, Kumarganj, Faizabad, in partial fulfilment of the requirements for the degree of **Doctor of Philosophy (Agriculture)** in the subject of **Extension Education** has been approved by the Student's Advisory Committee after an oral examination on the same in collaboration with an external examiner.

### ADVISORY COMMITTEE

Major Advisor  
&  
Chairman

Member from Major

Member from Minor

Member from Related Field

Dean's Nominee

Dean, College of Agriculture

External Examiner

(R.K. Doharey)

Professor  
Department of Ext.Edu.

(Subodh Kumar)

Assoc. Prof. & Head (Vet. Ext.)  
College of Veterinary Science

(V.N. Rai)

Associate Professor  
Dept. of Agril. Statistics

(J.P. Singh)

Professor  
Dept. of Agril. Economics

(M.P. Chauhan)

Professor  
Department of G.P.B.

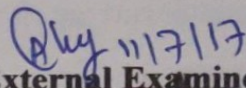
Head of the Department

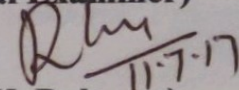
**CERTIFICATE-II**

This is to certify that the thesis entitled “Study on adoption of production and marketing management behaviour of vegetable growers in Bareilly district of Uttar Pradesh” submitted by Mr. Bhanu Pratap Singh, I.D. No. A-7678/13 to the Narendra Deva University of Agriculture & Technology, Narendra Nagar (Kumarganj), Faizabad in the partial fulfillment of the requirements for the degree of ‘Doctor of philosophy’ (Agriculture) in the subject of Extension Education has been evaluated satisfactory by external examiner and approved by the Student’s Advisory Committee after an oral examination.

**Advisory Committee**

**Major Advisor & Chairman**

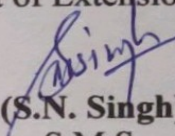
  
(External Examiner)

  
(R.K. Doharey)

Professor

Department of Extension Education

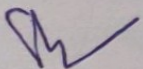
**Member (Major)**

  
(S.N. Singh)

S.M.S.

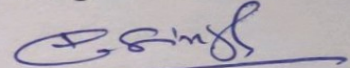
Department of Extension Education

**Member (Minor)**

  
(Sunil Kumar)

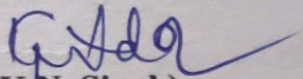
Associate Professor & Head  
Department of Agricultural Statistics

**Member (Related Field)**

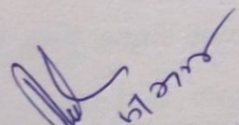
  
(G. P. Singh)

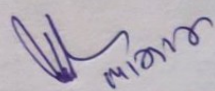
Associate Professor  
Department of Agricultural Economics

**Dean’s Nominee:**

  
(K.N. Singh)

Professor & Head  
Department of P.M.B. & G.E.

  
Dean, College of Agriculture

  
Head of Department

## CERTIFICATE-II

This is to certify that the thesis entitled “ **Impact of milk societies on social, economical, communication and psychological attributes of dairy farmers in Sultanpur district of Utter Pradesh**” submitted by **Mr. Sanjeev Atreya, I.D. No.A-9007/15** to the Narendra Deva University of Agriculture and Technology, Narendra Nagar (Kumarganj), Faizabad (U.P.), in partial fulfillment of the requirements for the degree of **(Agriculture)** in subject Doctor of philosophy of **Extension Education** has been evaluated satisfactory by external examiner, and approved by the Student Advisory Committee after an oral examination on the same.

### Advisory Committee

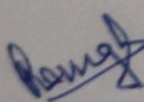
Major Advisor & Chairman

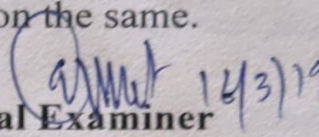
Member (Major)

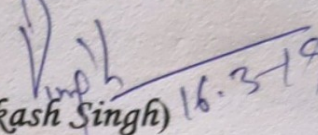
Member (Minor)

Member (Related field)

Dean's Nominee

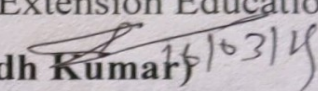
  
Dean  
College of Agriculture

  
External Examiner

  
(Prakash Singh) 16.3.19

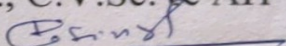
Professor

Department of Extension Education


  
(Subodh Kumar) 16/03/19

Professor

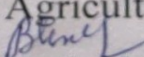
Department of Veterinary College  
I.L.F.C., C.V.Sc. & AH

  
(G.P. Singh)

Professor & Head Department  
of Agriculture Economics

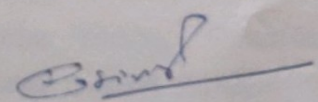
  
(Sri Sunil Kumar)

Associate Professor & Head  
Department of Agriculture Statistics

  
(Raj Bahadur)

Associate Professor

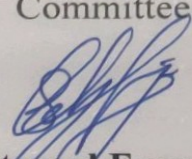
Department of Crop Physiology

  
Head of the Department

## CERTIFICATE-II

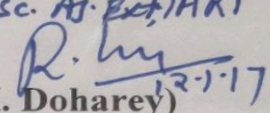
This is to certify that the thesis entitled "Study on role of mobile phone usages in rural farmer's empowerment in Milkipur tehsil of Faizabad district" submitted by Mr. Rahul Kumar Singh, I.D. No. A-6268/11/13 to the Narendra Deva University of Agriculture and Technology, Narendra Nagar (Kumarganj), Faizabad (U.P.), in partial fulfillment of the requirements for the degree of **Doctor of Philosophy** in subject of **Extension Education** has been evaluated satisfactory by external examiner and approved by the Student Advisory Committee after an oral examination on the same.

**Advisory Committee**

  
(External Examiner)

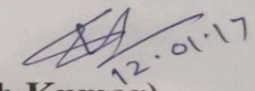
Dr. Satya Prasad  
Sr. Sc. Agr. Ext. Ari

**Major Advisor & Chairman**

  
(R.K. Doharey)

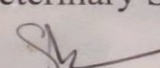
Professor (Ext. Education)  
Department of Extension Education

**Member (Major)**

  
(Subodh Kumar)

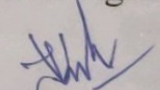
Associate Professor (Vet. Extension)  
College of Veterinary Science

**Member (Minor)**

  
(Sunil Kumar)

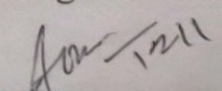
Associate Professor (Agril. Statistics)  
Department of Agril. Statistics

**Member (Related field)**

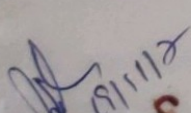
  
(J.P. Singh)

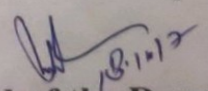
Professor & Head  
Department of Agril. Economics

**Dean's Nominee**

  
(A.H. Khan)

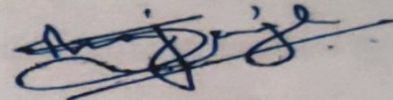
Associate Professor & Head  
Department of Crop Physiology

  
Dean, College of Agriculture

  
Head of the Department

## CERTIFICATE-II

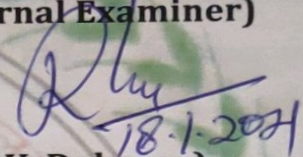
This is to certify that the thesis entitled "**Study on mass media utilization pattern of the Post Graduate students of Agriculture in State Agriculture Universities of Uttar Pradesh**" Submitted by **Mr. Kamal Kishore, Id. No. A-8953/15/17** to the Acharya Narendra Deva University of Agriculture and Technology, Narendra Nagar (Kumarganj), Ayodhya (U.P.), in partial fulfillment of the requirements for the degree of "**Doctor of Philosophy (Agriculture)**" in the subject of "**Extension Education**" has been evaluated satisfactory by external examiner and approved by the Student's Advisory Committee after an oral examination.



(External Examiner)

### ADVISORY COMMITTEE

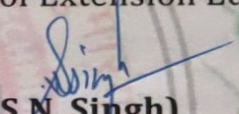
Major Advisor &  
Chairman



(R.K. Doharey)

Professor & Incharge Head  
Department of Extension Education

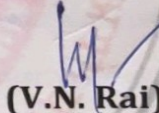
Member (Major)



(S.N. Singh)

SMS (Agriculture Extension)  
KVK, Sidharthnagar

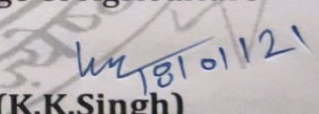
Member (Minor)



(V.N. Rai)

Professor & Head  
Department of Agricultural Statistics & Dean,  
College of Agriculture

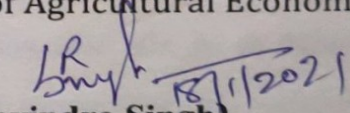
Member (Related Field)



(K.K. Singh)

Professor and Incharge Head  
Department of Agricultural Economics

Dean's Nominee



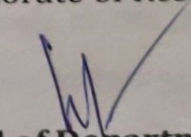
(Ravindra Singh)

Assistant Professor of Agril. Economics  
Directorate of Research



Dean

College of Agriculture

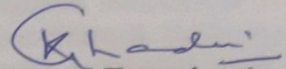


Head of Department

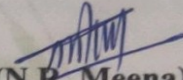
**CERTIFICATE-II**

We, the undersigned, member of Advisory Committee of **Mr. Anuj Tiwari**, I.D. No. A-10609/18, a candidate for the degree of Doctor of Philosophy with major in Extension Education agree that the thesis entitled “**Study on Information Seeking Behaviour of Farmers and its Influence on Knowledge and Adoption of Rice Cultivation Practices in Eastern Uttar Pradesh**” may be submitted in the partial fulfillment of the requirements for the degree.

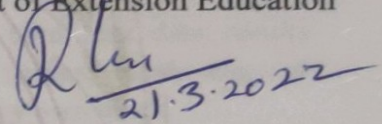
**Advisory Committee**

  
(External Examiner)

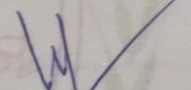
**Major Advisor & Chairman**

  
(N.R. Meena)  
Assistant Professor  
Department of Extension Education

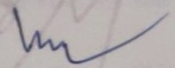
**Member (Major)**

  
(R.K. Doharey)  
Professor  
Department of Extension Education

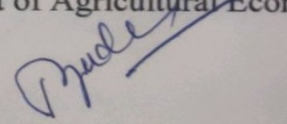
**Member (Minor)**

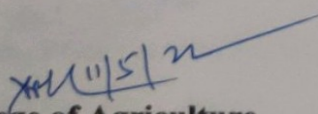
  
(V.N. Rai)  
Professor  
Department of Agricultural Statistics

**Member (Related Field)**

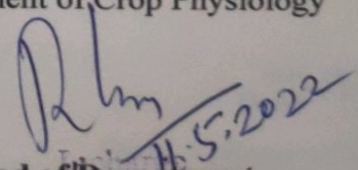
  
(K.K. Singh)  
Assistant Professor  
Department of Agricultural Economics

**Dean's Nominee**

  
(R.K. Yadav)  
Assoc. Professor  
Department of Crop Physiology

  
**Dean, College of Agriculture**

Dean, College of Agriculture  
A. N. D. Univ. of Agric. & Tech.  
Kumarganj - Ayodhya

  
**Head of Department**

Dept. of Ext. Edu.  
ANDUAT, Kumarganj-Ayodhya