



DECLARATION

I hereby, declare that the thesis entitled "Effect of biochar on soil physio-chemical properties and productivity of maize (*Zea mays* L.)" submitted in partial fulfillment of requirement for the degree of Master of Science in Agriculture (Soil Science and Agriculture Chemistry) in the Department of Agriculture, Sant Baba Bhag Singh University, Jalandhar in an authentic record of my original research work carried out under the supervision of **Dr. Gurpreet Kaur**, Assistant Professor, Department of Agriculture, during the period from June, 2024 to June, 2025. I affirm that this work is original and has not been submitted earlier to any other University/Institute for the award of any Diploma or Degree.

Date: 16-07-2025

Place: SBBSU, Jalandhar

Manpreet Kaur
Signature of the Student

(Manpreet Kaur)

Reg. No.: 23134001

M.Sc. Ag. (Soil Science and Agriculture Chemistry)

This is to certify that the above statement made by the candidate is correct to the best of my knowledge.

The M.Sc. viva-voice examination of **Miss. Manpreet Kaur** has been held on 16-07-2025

Gurpreet Kaur
Signature of Major Advisor

Dr. Gurpreet Kaur

Assistant Professor

(Department of Agriculture)

VmL
Signature of C.O.D/H.O.D
(Department of Agriculture)

[Signature]
Signature of External Examiner

DECLARATION

I hereby, declare that the thesis entitled "Performance of oats (*Avena sativa* L.) with the application of different organic sprays" submitted in partial fulfillment of requirement for the degree of Master of Science in Agriculture (Soil Science and Agriculture Chemistry) in the Department of Agriculture, Sant Baba Bhag Singh University, Jalandhar in an authentic record of my original research work carried out under the supervision of Dr. Vijay Singh, Assistant Professor, Department of Agriculture, during the period from October 2024 to April 2025. I affirm that this work is original and has not been submitted earlier to any other University/Institute for the award of any Diploma or Degree.

Date: 16-07-25

Place: SBBSU, Khiala, Jalandhar

Simran

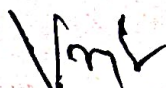
Signature of the Student
(Simran)

Reg. No.: 23134002

M.Sc. Ag. (Soil Science and Agriculture Chemistry)

This is to certify that the above statement made by the candidate is correct to the best of my knowledge.

The M.Sc. viva-voice examination of Miss. Simran has been held on 16-07-25.....



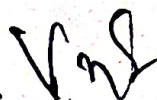
Signature

Major Advisor

Dr. Vijay Singh

Assistant Professor

(Department of Agriculture)



Signature of C.O.D

(Department of Agriculture)



Signature of External Examiner

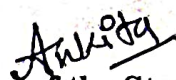


DECLARATION

I hereby, declare that the thesis entitled "Effect of organic sprays on growth, yield and soil properties in Barley (*Hordeum vulgare* L.)" submitted in partial fulfillment of requirement for the degree of Master of Science in Agriculture (Soil Science and Agriculture Chemistry) in the Department of Agriculture, Sant Baba Bhag Singh University, Jalandhar in an authentic record of my original research work carried out under the supervision of Dr. Vijay Singh, Assistant Professor, Department of Agriculture, during the period from October 2024 to April 2025. I affirm that this work is original and has not been submitted earlier to any other University/Institute for the award of any Diploma or Degree.

Date: 16-07-25

Place: SBBSU, Khiala, Jalandhar


Signature of the Student
(Ankita)

Reg. No.: 23134003

M.Sc. Ag. (Soil Science and Agriculture Chemistry)

This is to certify that the above statement made by the candidate is correct to the best of my knowledge.

The M.Sc. viva-voice examination of Miss. Ankita has been held on 16-07-25.....

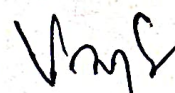

Signature

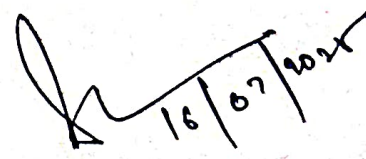
Major Advisor

Dr. Vijay Singh

Assistant Professor

(Department of Agriculture)


Signature of C.O.D
(Department of Agriculture)


Signature of External Examiner



SANT BABA BHAG SINGH UNIVERSITY, JALANDHAR

DECLARATION

I, hereby, declare that the thesis entitled "Study of different soil types and fertility of cultivation land in three villages of Hoshiarpur district of Punjab" submitted in partial fulfillment of the requirement for the degree of Master of Science in Agriculture (Soil Science and Agriculture Chemistry) in Department of Agriculture, **SANT BABA BHAG SINGH UNIVERSITY, JALANDHAR**, is an authentic record of my original research work carried out under the supervision of Dr. Vikrant Jaryan, Associate Professor, Department of Agriculture, during the period from 1st July, 2024 to 30th June, 2025. I affirm that this work is original and has not been submitted earlier to any other University/ Institute for the award of any Diploma or Degree.

Date: 16-07-2025

Place: SBBSU, Jalandhar

Signature of the Student

(Priya)

Reg. No.: 23134004

M.Sc. Ag. (Soil Science and Agriculture Chemistry)

This is to certify that the above statement made by candidate is correct to the best of my knowledge.

The M.Sc. Viva-Voce examination of Ms. Priya has been held on.....16-07-2025

Signature of Major Advisor

Dr. Vikrant Jaryan

Associate Professor, Department of Agriculture

Signature of C.O.D/H.O.D

(Department of Agriculture)

Signature of External Examiner




DECLARATION

I hereby, certify that the research work, embodied in the thesis, entitled "Effect of foliar application of Zinc + Boron along with soil – application of Molybdenum on growth and productivity of lentil (*Lens culinaris* Medikus.)" in the partial fulfilment of requirement for the award of degree of Master of Science in Agriculture (Soil Science and Agriculture Chemistry) submitted in Department of Agriculture at Sant Baba Bhag Singh University, Jalandhar, Punjab is authentic record of my own contribution and results of investigation carried out under the supervision of Dr. Gurpreet Kaur, Assistant Professor, Department of Agriculture, during the period from June, 2024 to June, 2025. This research work is original and has not been submitted earlier to any other University/Institute for the award of any Diploma or Degree.

Date: 16-07-2025

Place: S B B S U, Jalandhar


Signature of the Student

(Jyoti Rani)

Reg. No.: 23134005

M.Sc. Ag. (Soil Science and Agriculture Chemistry)

This is to certify that the above statement made by the candidate is correct to the best of my knowledge.

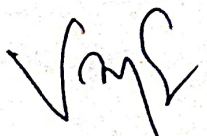
The M.Sc. Viva-Voce examination of Miss. Jyoti Rani has been held on 16-07-2025


Signature of Major Advisor

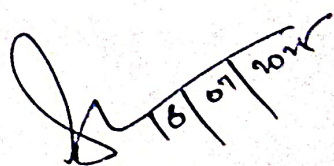
Dr. Gurpreet Kaur

Assistant Professor

(Department of Agriculture)


Signature of C.O.D/H.O.D

(Department of Agriculture)


Signature of External Examiner



SANT BABABHAGSINGH UNIVERSITY, JALANDHAR

DECLARATION/UNDERTAKING

I hereby testify to the fact that study discussed in the dissertation, titled "Study of physico-chemical parameter and fertility of agricultural land soil from three villages of tehsil Balh, Mandi district of Himachal Pradesh" in the partial fulfillment of requirement of the award of degree of M.Sc. Ag. Soil Science and agriculture chemistry submitted in the agriculture department of SANT BHABA BHAG SINGH UNIVERSITY, JALANDHAR is authentic record of my own work carried out during a period from [11 Dec 2023 to June 2024] under the supervision of MRS. KAMALDEEP KAUR, Assistant Professor, Department of Agriculture. The subject matter of this dissertation has never been applied for M.Sc. qualification at any other university or institute.

Date: 8th Sep, 2025

Place: Jalandhar

Signature of the student

(GAURAV NAIK)

Reg.No.22134008

M.Sc. Ag. Soil Science and Agricultural chemistry

This is to certify that the candidate's above assertion is true to the best of my knowledge.

Mr. Gaurav Naik M.Sc. viva-voice test took place on 8th Sep, 2025

Signature of Supervisor

(Assistant Professor)

Department of Agriculture

Signature of C.O.D

(Department of Agriculture)

Signature of External Examiner