



इन्वर्टिस विश्वविद्यालय

INVERTIS
UNIVERSITY BAREILLY

बरेली, उत्तर प्रदेश, भारत

रुचि सिंह

को एतद्वारा

एनवायरमेंट साइंस विषय में विद्या वाचस्पति

की उपाधि प्रदान करता है।

विद्या-परिषद् की अनुशंसा पर यह उपाधि,

अवाप्ति हेतु विनियमों में विहित अपेक्षाओं को पूर्ण कर लेने पर

तथा जून 2023 में अपने शोध-प्रबंध

“आइसोलेशन एण्ड कैरेक्टराइजेशन ऑफ नेटिव राइजोबैक्टीरियल स्ट्रेन्स कैंजिंग बायोडीग्रेडेशन ऑफ पेस्टीसाइड्स”

के सफल पक्षपोषण के उपरांत

आज 01 जनवरी, 2024 को दी गई है।

INVERTIS UNIVERSITY

BAREILLY UTTAR PRADESH, INDIA

*Upon the recommendation of the Academic Council,
the University hereby confers the degree of*

Doctor of Philosophy in Environment Science

Upon

Ruchi Singh

*who has fulfilled the requirements for the degree as prescribed under the regulations
and successfully defended in June 2023, the thesis entitled:*

**“ISOLATION AND CHARACTERIZATION OF NATIVE RHIZOBACTERIAL STRAINS
CAUSING BIODEGRADATION OF PESTICIDES”**

Given this day, on January 01, 2024.



Santosh
कुलसचिव
REGISTRAR

R Singh
कुलपति
VICE-CHANCELLOR

Registrar
Invertis University
Bareilly

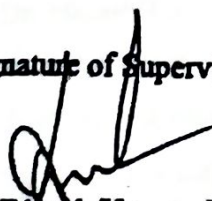
CERTIFICATE

This is to certify that the research work embodied in the thesis entitled "ISOLATION AND CHARACTERERIZATION OF NATIVE RHIZOBACTERIAL STRAINS CAUSING BIODEGRADATION OF PESTICIDES" has been carried out by Ms. Ruchi Singh, Ph.D. (Biotechnology) under our supervision and guidance of Dr Dinesh Kumar Prajapati and Dr Jaspal Singh for the award of degree of Doctor of Philosophy in Environmental Science in the faculty of Biotechnology, Invertis University, Bareilly.

It is also certified that the work embodied in the thesis is original that has not been submitted earlier for the award of any diploma or degree of any other University.

It is further certified that she has worked with us for the required period in the Faculty of Bioscience, Department of Biotechnology, Invertis University, Bareilly

Signature of Supervisor



Dr. Dinesh Kumar Prajapati
Supervisor
Department of Biotechnology
Invertis University,
Bareilly, Uttar Pradesh, India.

Signature of Co-supervisor



Dr. Jaspal Singh
Co-supervisor
Department of Environmental Science
Bareilly College Bareilly
Bareilly- 243001 (UP).



Registrar
Invertis University
Bareilly

Date: ...09.06.2023

INVERTIS UNIVERSITY, BAREILLY
Final PhD Viva Voce Examination
Recommendation of Committee

Name of the Candidate: Ms. Ruchi Singh
Subject: Environmental Science.

Student ID: PHN2016002
Enrolment No: 161573

Date of URDC: 31.03.2017

Date of Pre Submission: 10.09.2023

Date of Final Viva Voce Examination: 09.06.2023

Supervisor: Dr. Dinesh Kumar
Co-supervisor: Dr. Jaspal Singh

Topic: "ISOLATION AND CHARACTERIZATION OF NATIVE RHIZOBACTERIAL STRAINS CAUSING BIODEGRADATION OF PESTICIDES"

Report of the Oral Board

Defended successfully

The Candidate has PASSED / TO RE-APPEAR / FAILED

URDC Committee:

- | | |
|---------------------------|-------------------------------|
| 1. Prof. YDS Arya | Chairman |
| 2. Dr. Manish Kumar | External Expert |
| 3. Prof. P.P. Singh | Dean Sciences |
| 4. Prof. Arvind Shukla | Secretary |
| 5. Mr. Santosh Kumar | Ex-officio Member |
| 6. Prof. Pankaj Kumar Rai | Joint Secretary & HoD Biotech |
| 7. Shashank Upadhyaya | Internal Expert |
| 8. Dr Dinesh Kumar | Supervisor and Member |

Manish Kumar
09.06.23

Manish Kumar
09.06.2023

Pankaj Kumar Rai
09.06.23

Manish Kumar
09.06.23
APPROVED BY VICE CHANCELLOR

Manish Kumar
Registrar
Invertis University
Bareilly