

Registered



कुमाऊँ विश्वविद्यालय, नैनीताल-263001(उत्तराखण्ड)
KUMAUN UNIVERSITY, NAINITAL-263001(UTTARAKHAND)
Sponsored Research and Industrial Consultancy Cell(SRICC)
Office: 05942-235213, Fax: 05942 -235213, E-mail: sriccku@gmail.com

No. SRICC/MOU/2019/5350

Dated: 07 February, 2018

To,

Director
G.B. Pant Institute of Himalayan, Environment and Development
Kosi-Katarmal, Almora - 263643.

Subject: Regarding MOU between Kumaun University and G.B. Pant Institute of
Himalayan, Environment and Development, Kosi-Katarmal, Almora

Sir,

Please enclosed find herewith the original MOU between the Kumaun University
and G.B. Pant Institute of Himalayan, Environment and Development, Kosi-Katarmal,
Almora for researchers of both institutions.

Thanking you.

Enclosure - Original MOU/Photostat.

Yours faithfully

O/C

Prof. (Rajeev Upadhyay)

Director
SRICC

Copy to - PS to Vice Chancellor for kind information to Hon'ble Vice Chancellor.

Director
SRICC

एच. सी. वंत स्टाम्प बोर्ड
सा. नं०-5/11-12
ई स्टाम्प आई.डी.-UK-1215786
अल्मोड़ा

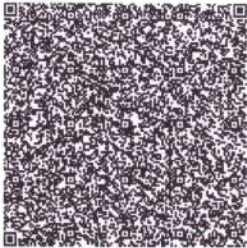


सत्यमेव जयते

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Government of Uttarakhand

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MEMORANDUM OF UNDERSTANDING
BETWEEN
KUMAUN UNIVERSITY, NAINITAL
AND

G.B. PANT NATIONAL INSTITUTE OF HIMALAYAN ENVIRONMENT AND
SUSTAINABLE DEVELOPMENT

CL.1 THE MoU

CL.1.1 THIS MoU made and entered into on 12 July 2018 day of 2018 between Rajeev G.B. Pant National Institute of Himalayan Environment and Sustainable Development, a Society registered

under the Societies Registration Act (1860), having its registered office at **Kosi-Katarmal, Almora** having its Office Kosi-Katarmal, Almora 263643 (hereinafter called **GBPNIHESD** which expression shall where the context so admits include its successors and permitted assigns) of the one part,

And

CL.1.2 KUMAUN UNIVERSITY, NAINITAL, was established in 1973 under the UP State Act, having its office at Kumaun University, Nainital Uttarakhand – 263001 (hereinafter called the KUMAUN UNIVERSITY (KUN) which expression shall where the context so admits include its successors and permitted assigns) of the other part.

PREAMBLE:

The Department of Science and Technology Govt. of India and the University Grants Commission have realized the need for a close linkage between the National Laboratories and the Universities in terms of research and academic activities. In compliance to this idea, Kumaun University, Nainital (KUN) and **GBPNIHESD** have decided to sign a Memorandum of Understanding (MoU) as per the following terms and conditions:

1. GENERAL

1.1 The scientist of **GBPNIHESD** may participate in the teaching programme in the different departments such as **Department of Biotechnology, Botany, Chemistry, Economics, Forestry, Geology, Geography, Mathematics, Pharmacy, Physics, RS&GIS, Sociology, and Zoology** (SSJ, Almora and DSB, Nainital Campuses), of the Kumaun University on request and subject to mutual convenience.

*Tourism
Zojew*

1.2 The scientist of **GBPNIHESD** and the faculty members of KUN will work towards joint research projects thereby mutually using research facilities developed/to be developed at **GBPNIHESD** and KUN.

1.3 KUN will recognize and accept the students of **GBPNIHESD** for supervising research leading to Ph.D. degree of KUN.


1.4 The Faculty and students of the above mentioned Department of KUN shall be allowed the use of library of **GBPNIHESD** subject to prior permission of the Director/Head, **GBPNIHESD**. Scientists and Ph.D. students of **GBPNIHESD** shall likewise be given the above mentioned facilities at KUN.

1.5 The Scientists/Faculty members and students of above mentioned department of **GBPNIHESD/KUN** shall be issued necessary permission, on request, to access to laboratories and other facilities of KUN/ **GBPNIHESD** as per their respective rules.

- 2.8. **GBPNIHESD** and KUN will work closely to **generate appropriately trained manpower in the related areas** through organization of formal academic curricula, symposia, short term training courses, etc.
- 2.9. **GBPNIHESD** will provide training facilities (minimum for **3 months**) for selected number of students of KUN as per availability of space. The scientists of **GBPNIHESD** will help in preparation of project dissertations wherever needed. The students will mention these scientists as senior guide in the Pre-PhD Dissertation reports. Data generated during project work can be published only after technical clearance from **GBPNIHESD** with equal/amicable sharing amongst **GBPNIHESD** and KUN.
- 3.0. **Honorarium, TA/DA (if applicable) will be provided** to the faculty members/Scientists/technical staff of KUN and **GBPNIHESD** as per rule by requesting organizations.
- 3.1. **The MoU related to PhD degree will be done under the JOINT SUPERVISION of the faculty of the respective department of Kumaun University, Nainital and the scientists of GBPNIHESD.**
- 3.2. It is further agreed that the Vice-Chancellor, KUN and Director/Head, **GBPNIHESD** through periodic meetings will monitor the progress of this MoU. Any change/modification/termination as introduced/suggested by the Review Committee (comprising of Vice-Chancellor, KUN and Director **GBPNIHESD** and other members as may be mutually decided by them) shall be acceptable to both the institutions. **In case of difference of opinions and dispute, if any, the verdict of the Hon'ble Vice-Chancellor, Kumaun University, Nainital shall be final.**

12 July 2018 Rajeev

Signed this day of July 9, 2018 at Kumaun University, Nainital.



Director/Head

निदेशक
Director

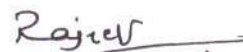
श्री.ब.पन्त हिमालय पर्यावरण एवं विकास संस्थान
G. B. Pant Institute of Himalayan
Environment and Development,
कोशी-कटारमल, अल्मोड़ा-263643
Kosi-Katarmal, ALMORA.-263643



Registrar

Kumaun University,
Nainital

Registrar
Kumaun University
NAINITAL.



Director-SRICC

Kumaun University
Nainital

12/07/2018
DIRECTOR
Sponsored Research And Industrial
Consultancy Cell
Kumaun University, NAINITAL

Signature of the Convenor of different departments

1. Biotechnology *Arora*
12/7/18

2. Botany *Rande*
12.7.2018

3. Chemistry *Arora*
12/7/18

4. Economics *Debi*
12-7-2018
Convenor & HOD
Economics

5. Forestry *Arora*
10.07.2018

6. Geology *Arshama*
Convenor & HOD.
12-7-18

7. Geography
Professor & Head
DEPARTMENT OF FORESTRY &
ENVIRONMENTAL SCIENCE
KUMAUN UNIVERSITY
NAINITAL

8. Mathematics *Rande*
10-7-2018
Professor & Head
Department of Mathematics
Kumaun University
Baba Singh Jeena Campus
ALMORA - 263601
Uttarakhand, INDIA

9. Physics *Arora*
12/7/18
Convenor & HOD
DEPT. A
KUNTL

10. Pharmacy *Arora*
12/7/18

11. RS&GIS *Arora*
12/7/18
Head,
Department of Geography
Kumaun University
S.S.I. Campus, Almora

12. Sociology *Arora*
12/7/18

13. Zoology *Arora*
12/7/18
(Convenor
Zool.)

14. Tourism *Arora*
12/7/18

The MoU will come into force from the date of approval of the draft both by the Executive Council of Kumaun University, Nainital and Chairman Governing Body of the GBPNIHESD.

**Microbiological Status of Soil, Plant Growth
Promotion And Biocontrol Activity Of Microbes Isolated
From Of Pithoragarh District Of Uttarakhand**

DISSERTATION

*Submitted in partial fulfillment of the
Requirement for the Award of the degree of*

MASTER OF SCIENCE

in

MICROBIOLOGY

Submitted by

BHARTI TEWARI

**DEPARTMENT OF BIOTECHNOLOGY,
SIR J.C.BOSE TECHNICAL CAMPUS, BHIMTAL
KUMAUN UNIVERSITY, NAINITAL, UTTARAKHAND,
INDIA (JULY 2023)**

Work carried out at

**G.B. PANT NATIONAL INSTITUTE OF HIMALAYAN ENVIRONMENT
(AN AUTONOMOUS INSTITUTE OF MINISTRY OF ENVIRONMENT, FOREST
AND CLIMATE CHANGE, GOVERNMENT OF INDIA)
KOSI-KATARMAL, ALMORA, 263643**

Under the joint supervision of

Dr. Rishendra Kumar
Assistant Professor,
Department Of Biotechnology,
Sir J.C.Bose Technical Campus,
Bhimtal-263136
Kumaun University , Nainital

Dr. Sumit Rai
Scientist 'C'
Centre for Environmental Assessment And
Climate Change
G.B. Pant National Institute of Himalayan
Environment
Kosi-Katarmal, Almora

**IMPACT OF ALTITUDE ON PHYTOCHEMICAL CONSTITUENTS AND
BIOLOGICAL ACTIVITIES OF *JUNIPERUS COMMUNIS* L.**

DISSERTATION THESIS

Submitted in partial fulfillment of the requirement for
the award of the degree of

**MASTER OF SCIENCE
(BIOTECHNOLOGY)**

by

GARVIT SINGH

DEPARTMENT OF BIOTECHNOLOGY
SIR J.C. BOSE TECHNICAL CAMPUS, BHIMTAL
KUMAUN UNIVERSITY, NAINITAL, UTTARAKHAND, INDIA

Work carried out at

G.B. PANT NATIONAL INSTITUTE OF HIMALAYAN ENVIRONMENT
(AN AUTONOMOUS INSTITUTE OF MINISTRY OF ENVIRONMENT, FOREST AND CLIMATE CHANGE,
GOVERNMENT OF INDIA)
KOSI-KATARMAL, ALMORA, 263643

Under the joint supervision of

Dr. Santosh Kumar Upadhyay
Assistant Professor, Department
of Biotechnology,
Sir J.C. Bose Technical Campus,
Bhimtal- 263136
Kumaun University, Nainital

Dr. Mithilesh Singh
Scientist 'D'
Centre for Environmental Assessment
and Climate Change,
G.B. Pant National Institute of Himalayan
Environment, Kosi-Katarmal, Almora, 263643

2023

**TLC-Bioautography Directed Isolation Of Antimicrobial And
Antioxidant Active Fractions From *Primula sikkimensis* Hook.**

DISSERTATION

*Submitted in partial fulfilment of the
requirement for the award of the degree of*

MASTER OF SCIENCE

in

BIOTECHNOLOGY

Submitted by

PRERNA RANA

**DEPARTMENT OF BIOTECHNOLOGY,
SIR J.C. BOSE TECHNICAL CAMPUS, BHIMTAL,
KUMAUN UNIVERSITY, NAINITAL, UTTARAKHAND, INDIA
(JULY 2023)**

Work carried out at

**G.B. PANT NATIONAL INSTITUTE OF HIMALAYAN ENVIRONMENT
(AN AUTONOMOUS INSTITUTE OF MINISTRY OF ENVIRONMENT, FOREST AND
CLIMATE CHANGE, GOVERNMENT OF INDIA)
KOSI-KATARMAL, ALMORA, 263643**

Under the joint supervision of

Dr. Santosh Kumar Upadhyay
Assistant Professor,
Department of Biotechnology,
Sir J.C. Bose Technical Campus,
Bhimtal- 263136
Kumaun University, Nainital

Dr. Mithilesh Singh
Scientist 'D'
Centre for Environmental Assessment
And Climate Change,
G.B. Pant National Institute of Himalayan
Environment, Kosi-Katarmal, Almora

**VULNERABILITY ASSESSMENT OF FLORISTIC
DIVERSITY OF
SHIVALIK HILLS IN HIMACHAL PRADESH, INDIA**

THESIS

*Submitted for the award of the degree
of*

DOCTOR OF PHILOSOPHY

in
BOTANY

by
JYOTI
(Enrollment No. KU11105033)

**G.B. PANT NATIONAL INSTITUTE OF HIMALAYAN
ENVIRONMENT, MOHAL-KULLU-175126
HIMACHAL PRADESH, INDIA**

and

**DEPARTMENT OF BOTANY, D.S.B. CAMPUS
KUMAUN UNIVERSITY, NAINITAL-263002, UTTARAKHAND
INDIA**

2023

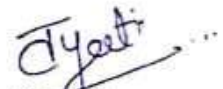
DEPARTMENT OF BOTANY

D.S.B. CAMPUS, KUMAUN UNIVERSITY

NAINITAL – 263002, UTTARAKHAND, INDIA

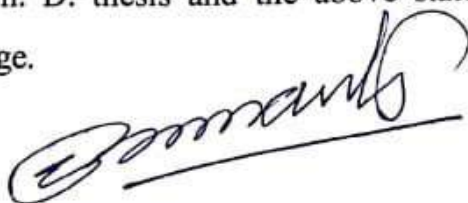
CERTIFICATE

I hereby certify that the work which is being presented in thesis entitled "VULNERABILITY ASSESSMENT OF FLORISTIC DIVERSITY OF SHIVALIK HILLS IN HIMACHAL PRADESH, INDIA" in fulfilment of the requirements for the award of Doctor of Philosophy in Botany and submitted in the Department of Botany, Kumaun University, Nainital, is an authentic record of my own work carried out during a period from October, 2014 to September, 2023 under the supervision of Dr. Lalit Mohan Tewari, Professor, Department of Botany, D.S.B. Campus, Kumaun University, Nainital and Dr. Sher Singh Samant, Former Scientist-G and Head Himachal Regional Centre, G.B. Pant National Institute of Himalayan Environment, Mohal-Kullu, Himachal Pradesh and Former Director, ICFRE-Himalayan Forest Research Institute, Conifer Campus, Panthaghati, Shimla. The matter presented in this thesis has not been submitted by me for the award of any other degree of this or any other University/Institution.


(Jyoti)

Candidate

This is to certify that the candidate has put more than 200 days attendance during the course of her Ph. D. thesis and the above statement made by her is correct to the best of our knowledge.

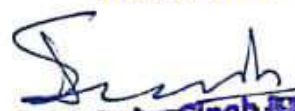


Dr. Sher Singh Samant

Co-Supervisor

Prof. Lalit Mohan Tewari

Supervisor
DR. LALIT M. TEWARI
Professor
Department of Botany
D.S.B. Campus, Kumaun University
Nainital (U.K.)


Dr. Sher Singh Samant
Professor & Head
Department of Botany
Head of the Department
D.S.B. Campus
Kumaun University, Nainital - 263001
Uttarakhand (India)

It is pleasure for me to forward the Ph. D. thesis of Ms. Jyoti.

Date: 05/10/23

**STUDY ON POPULATION ASSESSMENT AND
ECOLOGICAL NICHE MODELING OF QUERCUS
OBLONGATA D. DON IN HIMACHAL PRADESH,
NORTH WESTERN HIMALAYA FOR CONSERVATION**

A THESIS

*Submitted in partial fulfilment of the
Requirements for the award of the degree*

of

DOCTOR OF PHILOSOPHY

In

BOTANY

by

TANAY BARMAN

**HIMALAYAN FOREST RESEARCH INSTITUTE
CONIFER CAMPUS, PANTHAGHATI, SHIMLA 171 013,
HIMACHAL PRADESH, INDIA**

and

**DEPARTMENT OF BOTANY, D.S.B. CAMPUS
KUMAUN UNIVERSITY, NAINITAL-263 002, UTTARAKHAND, INDIA**

AUGUST 2022

DEPARTMENT OF BOTANY
D.S.B. CAMPUS, KUMAUN UNIVERSITY
NAINITAL-263002 UTTARAKHAND, INDIA

CERTIFICATE

I hereby certify that the work which is being presented in thesis entitled "STUDY ON POPULATION ASSESSMENT AND ECOLOGICAL NICHE MODELING OF *QUERCUS OBLONGATA* D. DON IN HIMACHAL PRADESH, NORTH WESTERN HIMALAYA FOR CONSERVATION" in partial fulfilment of the requirements for the award of Doctor of Philosophy in Botany and submitted in the Department of Botany, Kumaun University, Nainital is an authentic record of my own work carried out during a period from August 2017 to April 2021 under the joint supervision of Dr. S. S. Samant, Director, Himalayan Forest Research Institute, Conifer Campus, Panthaghati, Shimla and Dr. L. M. Tewari, Director, Research and Extension & Professor, Department of Botany, D.S.B. Campus, Kumaun University, Nainital.

The matter presented in this thesis has not been submitted by me for the award of any other degree of this or any other University/Institution.



(Tanay Barman)
Candidate

This is to certify that the candidate has put more than 200 days attendance during the course of his Ph. D. thesis and the above statement made by him is correct to the best of our knowledge.



Prof. Lalit Mohan Tewari
Co-Supervisor



Dr. Sher Singh Samant
Supervisor

It is pleasure for me to forward the Ph. D. thesis of Mr. Tanay Barman



Prof. S. S. Bargali
Convenor and
Head of the Department

Date: 08 August, 2022

Prof. & Head
Deptt. of Botany
D.S.B. Campus
Kumaun University,
Nainital - 263002

**HYDRO-GEOMORPHIC RESPONSES OF
REJUVENATION ACTIVITIES IN THE UPPER KOSI
WATERSHED, KUMAUN HIMALAYA**

A THESIS

*Submitted in partial fulfilment of the
requirements for the award of the degree*

of

DOCTOR OF PHILOSOPHY

in

GEOGRAPHY

By

MEENU RANI

**DEPARTMENT OF GEOGRAPHY
KUMAUN UNIVERSITY NAINITAL
NAINITAL – 263001 (INDIA)
FEBRUARY-2022**



Dr. Anita Pande

Professor

Vice President
Deccan Geographical
Society of India
(DGSII)

DEPARTMENT OF GEOGRAPHY
D.S.B. Campus
KUMAUN UNIVERSITY
NAINITAL-263001
UTTARAKHAND

Ph. : +915942-232578 (Dept)
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Fax: +915942-235576
E-mail
dranitapande@kumainital.ac.in
anita.ku.ntk@gmail.com
anni_pan@rediffmail.com

Date: 25/02/2022

CERTIFICATE

I, the undersigned, hereby certify that the research work embodied in the thesis entitled "HYDRO-GEOMORPHIC RESPONSES OF REJUVENATION ACTIVITIES IN THE UPPER KOSI WATERSHED, KUMAUN HIMALAYA" submitted by Ms Meenu Rani, for the award of degree of Doctor of Philosophy in Geography from Kumaun University, Nainital is original work and carried out under my supervision and guidance, and this work has not been submitted for any degree of any other University.

It is further certified that the candidate has worked for a period of more than twenty four months and has put in more than 200 days attendance in supplicating for the PhD work.

Supervisor

Aneeta

(Prof. Anita Pande)



G.B. Pant 'National Institute of Himalayan Environment'(NIHE)
(An Autonomous Institute of Ministry of Environment, Forest &
Climate Change, Govt. of India)

Contact :+91-9412930889

Email: darwansr@rediffmail.com

CERTIFICATE

I, the undersigned, hereby certify that the research work embodied in the thesis entitled **"HYDRO-GEOMORPHIC RESPONSES OF REJUVENATION ACTIVITIES IN THE UPPER KOSI WATERSHED, KUMAUN HIMALAYA"** submitted by Ms Meenu Rani, for the award of degree of Doctor of Philosophy in Geography from Kumaun University, Nainital is original work and carried out under my supervision and guidance, and this work has not been submitted for any degree of any other University.

It is further certified that the candidate has worked for a period of more than twenty four months and has put in more than 200 days attendance in supplicating for the PhD work.

Co-Supervisor

(Dr, D S Rawat)

Scientist 'G' (Retd.)

G.B. Pant National Institute of Himalayan Environment,
Kosi-Katarnal, Almora-263 643, Uttarakhand, India



**DEPARTMENT OF GEOGRAPHY
KUMAUN UNIVERSITY NAINITAL**

CERTIFICATE

I hereby certify that the work which is being presented in the thesis entitled "**HYDRO-GEOMORPHIC RESPONSES OF REJUVENATION ACTIVITIES IN THE UPPER KOSI WATERSHED, KUMAUN HIMALAYA**" in partial fulfilment of the requirements for the award of the Degree of Doctor of Philosophy in Geography and submitted in the Department of Geography of the Kumaun University, Nainital is an authentic record of my own work carried out during a period from 15 September, 2018 to 17 February, 2022 under the supervision of Dr. Anita Pande, Professor, Department of Geography, Kumaun University Nainital.


The matter presented in this thesis has not been submitted by me for the award of any other degree of this or any other University/Institution.


(MEENU RANI)

Candidate

This is to certify that the candidate has put more than 200 days attendance during the course of his Ph.D. thesis and the above statement made by him is correct to the best of my knowledge.


(R C Joshi) Head
Department of Geography
Kumaun University
NAINITAL - 263 002
Counter Sign by Officer


(Anita Pande)
Supervisor

Date: 25/02/2022

Dr. Anita Pande
Professor
Department of Geography
D.S.B. Campus Kumaun University
Nainital - 263002



गोविन्द बल्लभ पंत राष्ट्रीय हिमालयी पर्यावरण एवं सतत विकास संस्थान
G.B. Pant National Institute of Himalayan Environment & Sustainable Development
कोसी-कटारमल, अल्मोड़ा - 263 643, उत्तराखंड, भारत
Kosi-Katarmal, Almora- 263 643, Uttarakhand, India

CERTIFICATE

I hereby certify that the work which is being presented in the thesis entitled "A geographic evaluation of the linkage among urbanisation and environmental problems in the Indian Himalayan Region (IHR)", in partial fulfillment of the requirements for the award of the Degree of Doctor of Philosophy in Geography and submitted in the Department of Geography of the Kumaun University, Nainital. It is an authentic record of my work carried out during a period from 16th August, 2018 to 7th August, 2021 under the co-supervision of Dr. D. S. Rawat, Scientist G (Retd.), Centre for Socio-economic Development, G. B. Pant National Institute of Himalayan Environment (GBP-NIHE), Uttarakhand, India.

The matter presented in this thesis has not been submitted by me for the award of any other degree of this university or any other university/institution.

MOHD YAHYA KAZMI
(Candidate)

This is to certify that the candidate has put more than 200 days attendance during the course of his PhD thesis and the above statement made by him is correct to the best of my knowledge.

Dr. D. S. RAWAT
(Co-Supervisor)

Date: 15/04/2022



DEPARTMENT OF GEOGRAPHY
KUMAUN UNIVERSITY, NAINITAL

CERTIFICATE

I hereby certify that the work which is being presented in the thesis entitled "A geographic evaluation of the linkage among urbanisation and environmental problems in the Indian Himalayan Region (IHR)", in partial fulfillment of the requirements for the award of the Degree of Doctor of Philosophy in Geography and submitted in the Department of Geography of the Kumaun University, Nainital. It is an authentic record of my work carried out during a period from 16th August, 2018 to 7th August, 2021 under the supervision of Professor Ravindra K. Pande, Head of the Department of Geography, Kumaun University, Nainital, Uttarakhand, India.

The matter presented in this thesis has not been submitted by me for the award of any other degree of this university or any other university/institution.


12/04/2022
MOHD YAHYA KAZMI
(Candidate)

This is to certify that the candidate has put more than 200 days attendance during the course of his PhD thesis and the above statement made by him is correct to the best of my knowledge


Prof. RAVINDRA K. PANDE
(Supervisor)

I have pleasure in forwarding the thesis of Mr. Mohd Yahya Kazmi for the degree of Doctor of Philosophy in Geography.


Prof. RAVINDRA K. PANDE
(Convener)

Head
Department of Geography
Kumaun University
NAINITAL - 263 002

Date: 15/4/2022

A Geographical Evaluation of Linkages among Urbanization and Environmental Problems in the Indian Himalayan Region (IHR)

A THESIS

*Submitted in partial fulfilment of the
requirements for the award of the degree*

of

DOCTOR OF PHILOSOPHY

in

GEOGRAPHY

by

MOHD. YAHYA KAZMI
(Enrolment No-KU17155067)



**Department of Geography
Kumaun University, Nainital - 263001,
Uttarakhand, India
(April, 2022)**