

**DEPARTMENT OF GEOLOGY (CAS),
KUMAUN UNIVERSITY, NAINITAL**

CERTIFICATE

I hereby certify that the work which is being presented in the dissertation entitled **"MORPHOTECTONIC ANALYSES OF HIMALAYAN FRONTAL ZONE BETWEEN GAULA AND NANDHAUR USING HYPSONETRIC INTEGRAL"** in partial fulfilment of the requirements for the award of the Degree of Masters of Science in Geology and submitted in the Department of Geology (CAS) of the Kumaun University Nainital in an authentic record of own work, under the supervision of Prof. Rajeev Upadhyay, Professor, Department of Geology (CAS), Kumaun University, Nainital.

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

Vikas
(VIKAS PALIWAL)
Candidate

This is to certify that the candidate has completed the dissertation during the course of his Masters of Science and the above statement made by his is correct to the best of my knowledge.

Pradeep K. Goswami
(Prof. Pradeep K. Goswami)

Head of Department
Department of Geology
Kumaun University, Nainital

Rajeev
(Prof. Rajeev Upadhyay)

Supervisor
Department of Geology,
Kumaun University, Nainital

Date: *3/June/2024*

Place: *Nainital*

**“MORPHOTECTNIC ANALYSIS OF HIMALAYAN
FRONTAL ZONE BETWEEN GAULA AND NANDHAUR
RIVER USING HYPSONOMETRIC INTEGRAL”**

DISSERTATION

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

of

MASTER OF SCIENCE

in

GEOLOGY

by

VIKAS PALIWAL

Roll No. 220120680011

**DEPARTMENT OF GEOLOGY
(CENTRE OF ADVANCED STUDIES)
KUMAUN UNIVERSITY
NAINITAL, 263001**

**Supervised by:
Prof. Rajeev Upadhyay
Department of Geology
Kumaun University
Nainital (263001)**

CERTIFICATE

This is to certify that Mr. Prabhupada pradhan S/o Mr. Laxmikanta pradhan has completed his dissertation work on "GENESIS OF THE ENCLAVES HOSTED IN KANIGIRI GRANITES BASED ON MICROSTRUCTURAL FEATURES" under the supervision of Prof. Santosh Kumar undersigned for the requirement of Degree of Master of Science in Geology, Kumaun University, Nainital. This dissertation is based on candidates' own work carried out in the field and laboratory as well.

forwarded
Pradeep Goswami
Prof. Pradeep Goswami
Department of Geology
Kumaun University
Nainital - 263002

(Head)

Place: Nainital

Date:

Santosh Kumar
01/06/2024

Prof. Santosh Kumar

Department of geology

Nainital

(Supervisor)

**GENESIS OF THE ENCLAVES HOSTED IN
KANIGIRI GRANITES BASED ON MICROSTRUCTURAL
FEATURES**

Dissertation Submitted
For
Partial Fulfilment For the Degree
of
**MASTER OF SCIENCE
IN
GEOLOGY**

Submitted By

PRABHUPADA PRADHAN
ROLL NO: 220120680007

DEPARTMENT OF GEOLOGY (CENTRE OF ADVANCED STUDY)
KUMAUN UNIVERSITY
NAINITAL, UTTARAKHAND
2024

भूविज्ञान विभाग
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उत्तराखण्ड



DEPARTMENT OF GEOLOGY
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UTTARAKHAND, INDIA

CERTIFICATE

This is to certify that Ms. Neha Chandra D/o Mr. Jagdish Chandra, Roll No. 220120680018, has carried out the present dissertation work entitled "Petrography & whole rock geochemistry of mafic dykes at Kilbury Range, Nainital District, Uttarakhand, India" under my supervision and guidance for the requirement of degree of Master of Science in Geology from Department of Geology (Centre of Advanced Study), Kumaun University, Nainital.

Deepa
29/05/2024
Dr. Deepa Arya
(Supervisor)

forwarded
Pradeep K. Goswami
29.5.2024
Prof. Dr. Pradeep K. Goswami
(Head of Department)

**PETROGRAPHY & WHOLE ROCK GEOCHEMISTRY OF
MAFIC DYKES AT KILBURY RANGE, NAINITAL
DISTRICT, UTTARAKHAND, INDIA**

DISSERTATION

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

of

MASTER OF SCIENCE

In

GEOLOGY

by

NEHA CHANDRA

(Roll No. 220120680018)

**DEPARTMENT OF GEOLOGY
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KUMAUN UNIVERSITY NAINITAL

NAINITAL – 263002

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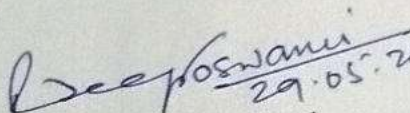
2024



CERTIFICATE

This is to certify that Ms. Kikasangla D/o Lt. Chuchangyuba has carried out the present dissertation work entitled "Investigating active crustal deformation in parts of Lesser Himalaya adjoining MBT using Transverse topographic symmetry factor: South eastern Nainital hills, Gaula to Nandhaur rivers" under my supervision for the requirement of degree of Master of Science in Geology from DEPARTMENT OF GEOLOGY (Centre of Advanced Study), KUMAUN UNIVERSITY, NAINITAL.

This dissertation embodies the original work of the candidate.


29.05.2024

Prof. Pradeep K. Goswami
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Department of Geology
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**INVESTIGATING ACTIVE CRUSTAL DEFORMATION IN
PARTS OF LESSER HIMALAYA ADJOINING MBT USING
TRANSVERSE TOPOGRAPHIC SYMMETRY FACTOR:
SOUTH EASTERN NAINITAL HILLS, GAULA TO
NANDHAUR RIVERS**

**DISSERTATION SUBMITTED FOR THE PARTIAL
FULFILMENT OF THE DEGREE OF MASTER OF SCIENCE
IN GEOLOGY (2024)**

Submitted By:

Kikasangla

Roll No: 220120680016

M.Sc 4th Semester

Kumaun University

Supervised By:

Prof. Pradeep Goswami

Department Of Geology

Kumaun University

Nainital - 263001

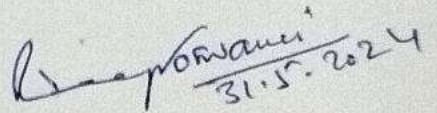


SN 11

CERTIFICATE

This is to certify that Ms. Ayushi Budhlakoti (Roll No. 220120680012) D/o of Mr. Rajiv Budhlakoti has carried out the present dissertation work on "**Investigating active crustal deformation in parts of Siwalik using Transverse Topography Symmetry Factor: Southern Kumaun Himalayas, Kosi River (Ramnagar) – Ramganga River (Kalagarh)**" under my supervision for the requirement of degree of Master of Science in Geology, Kumaun University, Nainital.

This dissertation embodies the original work of the candidate.


31.5.2024
Prof. Pradeep K. Goswami
(Supervisor)

**INVESTIGATING ACTIVE CRUSTAL DEFORMATION IN
PARTS OF SIWALIK USING TRANSVERSE TOPOGRAPHY
SYMMETRY FACTOR: SOUTHERN KUMAUN HIMALAYAS,
KOSI RIVER (RAMNAGAR) – RAMGANGA RIVER
(KALAGARH)**

**DISSERTATION SUBMITTED FOR THE PARTIAL
FULFILLMENT FOR DEGREE OF MASTERS OF
SCIENCE IN GEOLOGY (2024)**

Supervised by:

Prof. Pradeep Goswami
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Submitted by:

Ayushi Budhlakoti
220120680012
M.Sc. 4th Semester
Kumaun University



CERTIFICATE

Certified that Ms. Deepshikha Tewari (Roll No. 220120680014) has carried out the present dissertation work on "Investigating active crustal deformation in parts of Siwalik using Asymmetry Factor (AF): Southern Kumaon Himalayas, Kosi River (Ramnagar) – Ramganga River (Kalagarh)" under my supervision for the requirement of degree of Master of Science in Geology, Kumaon University, Nainital.

This dissertation embodies the original work of the candidate.

Prof. Pradeep K. Goswami
(Supervisor & Head of Department)
Department of Geology

**INVESTIGATING ACTIVE CRUSTAL DEFORMATION
IN PARTS OF SIWALIK USING ASYMMETRY
FACTOR (AF): SOUTHERN KUMAUN HIMALAYAS,
KOSI RIVER (RAMNAGAR) TO RAMGANGA
(KALAGARH)**

**DISSERTATION SUBMITTED FOR THE PARTIAL
FULFILLMENT FOR THE DEGREE OF MASTERS OF
SCIENCE IN GEOLOGY (2024)**

Supervised by:

Prof. Pradeep K. Goswami
Department Of Geology
Kumaun University
Nainital (263001)

Submitted by:

Deepshikha Tewari
220120680014
M.Sc. 4TH Semester
Kumaun University

भूविज्ञान विभाग

उच्चानुशील अध्ययन केन्द्र

कुमाऊँ विश्वविद्यालय, नैनीताल - 263 002

उत्तराखण्ड, भारत



DEPARTMENT OF GEOLOGY
CENTRE OF ADVANCED STUDY
KUMAUN UNIVERSITY, NAINITAL - 263 002
UTTARAKHAND, INDIA

Date :

CERTIFICATE

This is to certify that **Mohit Giri Goswami** S/o Mr. **Deen Dayal Giri**, Roll No. 220120680006, has carried out the present dissertation work entitled "Investigating active crustal deformation in parts of Lesser Himalaya adjoining MBT using Basin Asymmetry Factor, South Eastern Nainital Hills (Gaula to Nandhaur river)" under my supervision and guidance for the requirement of degree of Master of Science in Geology from Department of Geology (Centre of Advanced Study), Kumaun University, Nainital.

Pradeep K. Goswami
(Supervisor)

**Investigating Active Crustal Deformation in parts of Lesser
Himalaya adjoining MBT using Basin Asymmetry factor,
Southeastern Nainital hills (Gaula to Nandhaur River)**

DISSERTATION

**Submitted for the partial fulfillment of the requirement for the
Degree of**

MASTERS OF SCIENCES, GEOLOGY

Submitted By:

Mohit Giri Goswami

Roll No. 220120680006

M.Sc. 4th Semester

Kumaun University, Nainital

Supervised By:

Prof. Pradeep K. Goswami

Head of the Department

Geology Department

Kumaun University, Nainital

2024



**DEPARTMENT OF GEOLOGY (CAS)
KUMAUN UNIVERSITY NAINITAL**

CERTIFICATE

This is to certify that, I **Ms. CHINGTE TOMBING** d/o **Mr. K. TOMBING** have carried out the present dissertation work entitled "**GRANITES OF SOUTH KHASI HILLS AND ITS ENCLAVES**" under my supervisor Dr. Santosh Kumar, Associate Professor, Department of Geology (CAS), Kumaun University Nainital, for the requirement of degree of Master of Science in Geology from **DEPARTMENT OF GEOLOGY (Centre of Advanced Study), KUMAUN UNIVERSITY, NAINITAL.**

This dissertation is based on my own work on South Khasi Hills Granite samples based on laboratory investigation.

Chingte Tombing
(CHINGTE TOMBING)

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

Santosh Kumar
01/06/2024
Dr. Santosh Kumar

(Supervisor)

Department of Geology

Kumaun University

Nainital, Uttarakhand

Date:

Pradeep K. Goswami
Dr. Pradeep K. Goswami
(Head of Department)

Department of Geology

Kumaun University

Nainital, Uttarakhand

Declaration

I declare that the content presented in this monograph is the outcome of my dissertation work, conducted as part of the requirements for the degree of Master of Science in Geology under the supervision of **Dr. Santosh Kumar, Associate Professor, Department of Geology, Kumaun University**. I affirm that this work has not been previously submitted for any other academic degree, diploma, affiliation, or fellowship at any other university or institute. I understand that any violation of the above will be cause for disciplinary action by the University and can also evoke penal action from the sources which have thus not been properly cited or from whom proper permission has not been taken when needed.

Chingte Tombing

Roll No: 220120680013

Date: 1 - 06 - 24

GRANITES IN SOUTH KHASI HILLS AND ITS ENCLAVES

DISSERTATION

Submitted as Partial Fulfillment of the Requirement for the Degree

of

MASTER OF SCIENCE

in

GEOLOGY

by

CHINGTE TOMBING

Roll No: 220120680013

DEPARTMENT OF GEOLOGY (CAS)

KUMAUN UNIVERSITY NAINITAL

NAINITAL - 263001(INDIA)

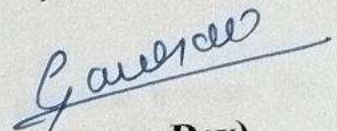
May, 2024

**DEPARTMENT OF GEOLOGY (CAS),
KUMAUN UNIVERSITY, NAINITAL**

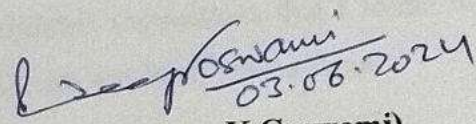
CERTIFICATE

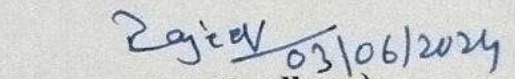
I hereby certify that the work which is being presented in the dissertation entitled "MORPHOTECTONIC BASED ACTIVE DEFORMATION PATTERN IN-AND- AROUND SUB-HIMALAYAN ZONE BETWEEN GAULA AND NANDHAUR RIVER USING RIVER LONG-PROFILE AND STREAM LENGTH-GRADIENT INDEX" in partial fulfilment of the requirements for the award of the Degree of Master of Science in Geology and submitted in the Department of Geology (CAS) of the Kumaun University Nainital in an authentic record of own work, under the supervision of Prof. Rajeev Upadhyay, Professor, Department of Geology (CAS), Kumaun University, Nainital.

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


(Gaurav Dev)
Candidate

This is to certify that the candidate has completed the dissertation during the course of his Master of Science and that the above statement made by him is correct to the best of my knowledge.


(Prof. Pradeep K. Goswami)
Head of Department
Department of Geology
Kumaun University, Nainital


(Prof. Rajeev Upadhyay)
Supervisor
Department of Geology,
Kumaun University, Nainital

Date: 3/June/2024

Place: Nainital.

**“MORPHOTECTONIC BASED ACTIVE DEFORMATION
PATTERN IN-AND-AROUND SUB-HIMALAYAN ZONE
BETWEEN GAULA AND NANDHAUR RIVER USING RIVER
LONG-PROFILE AND STREAM LENGTH-GRADIENT
INDEX”**

DISSERTATION

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

of

MASTER OF SCIENCE

in

GEOLOGY

by

GAURAV DEV

Roll No. 220120680005

**DEPARTMENT OF GEOLOGY
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KUMAUN UNIVERSITY
NAINITAL, 263001**

**Supervised by:
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Department of Geology
Kumaun University
Nainital (263001)**

June 2024

भूविज्ञान विभाग
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DEPARTMENT OF GEOLOGY
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UTTARAKHAND, INDIA

CERTIFICATE

This is to certify that Mr. Elozii Ariicho S/o Manikho Ariicho, Roll No. 220120680004, has carried out the present dissertation work entitled "Petrography and Petrogenesis of Dyke Eposure at Lamidhar Region, Nainital district, Uttarakhand, India" under my supervision and guidance for the requirement of degree of Master of Science in Geology from Department of Geology (Centre of Advanced Study), Kumaun University, Nainital.

Deepa
29/05/2024
Dr. Deepa Arya
(Supervisor)

forwarded
Pradeep K. Goswami
29.5.2024
Prof. Pradeep K. Goswami
(Head of Department)

**PETROGRAPHY & WHOLE ROCK GEOCHEMISTRY OF
MAFIC DYKE AT LAMIDHAR REGION, NAINITAL DISTRICT,
UTTARAKHAND, INDIA**

DISSERTATION

*Submitted as Partial Fulfillment of the
Requirement for the award of the degree*

of

MASTERS OF SCIENCE

in

GEOLOGY

by

ELOZII ARIICHO

(220120680004)

**DEPARTMENT OF GEOLOGY
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NAINITAL – 263002
UTTARKHAND (INDIA)**

2024

भूविज्ञान विभाग
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DEPARTMENT OF GEOLOGY
CENTRE OF ADVANCED STUDY
KUMAUN UNIVERSITY, NAINITAL-263 002
UTTARAKHAND, INDIA

CERTIFICATE

This is to certify that Ms. Lakshika Kulyal D/o Mr. Dhraj, Roll No. 220120680017, has carried out the present dissertation work entitled "Ore genesis and petrography of magnesite at Jhiroli magnesite mine, Bageshwar" under my supervision and guidance for the requirement of degree of Master of Science in Geology from Department of Geology (Centre of Advanced Study), Kumaun University, Nainital.

Deepa Arya
27/05/2024
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Department Of Geology

forwarded
Pradeep Goswami
Prof. Pradeep Goswami
(Head of Department)
Department of Geology

Place: Nainital

Ore genesis and petrography of magnesite at Jhiroli magnesite mine, Bageshwar

DISSERTATION

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

of

**MASTERS OF SCIENCE
in
GEOLOGY**

by

**LAKSHIKA KULYAL
ROLL NO- 220120680017
REGISTRATION NO: KU-19127636
DEPARTMENT OF GEOLOGY
(CENTRE OF ADVANCED STUDY)
KUMAUN UNIVERSITY
NAINITAL, UTTARAKHAND
2024**

CERTIFICATE

This is to certify that **Mrs. Diya Kargeti** D/O of **Mr. L. M Kargeti** has carried out the present dissertation work entitled "**ALTERATION ASPECT OF GRANITOIDS AT MALANJKHAND**" under the supervision of **Prof. Santosh Kumar** for the requirements of degree of master of science in Geology from Department of Geology (center of advanced study) Kumaun University, Nainital.

forwarded

Santosh Kumar
01/06/2024

Prof. Santosh Kumar
(Supervisor)
Department of Geology
Kumaun University
Nainital, Uttarakhand

Pradeep K. Goswami
HEAD
Department of Geology
Kumaun University
Nainital - 263002

Prof. Pradeep K. Goswami
(Head of Department)
Department of Geology
Kumaun University
Nainital, Uttarakhand

ALTERATION ASPECT OF GRANITOIDS AT MALANJKHAND

**DISSERTATION SUBMITTED
TO
KUMAUN UNIVERSITY
FOR
FULFILLING THE REQUIREMENT OF
MASTER OF SCIENCE
IN
GEOLOGY**

**DIYA KARGETI
ROLL NO – 220120680015
DEPARTMENT OF GEOLOGY
(CENTER OF ADVANCED STUDY)
KUMAUN UNIVERSITY
NAINITAL**

भूविज्ञान विभाग
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कुमाऊँ विश्वविद्यालय, नैनीताल - 263 002
उत्तराखण्ड



DEPARTMENT OF GEOLOGY
CENTRE OF ADVANCED STUDY
KUMAUN UNIVERSITY, NAINITAL-263 002
UTTARAKHAND, INDIA

This is to certify that **Ms. VARTIKA RANA** D/O **Mr. RAM SINGH RANA** has carried out the present dissertation work entitled "**Petrography and Whole rock Geochemistry of mafic dykes at Saur (Gwalkhauti) region of Nainital district, Uttarakhand**" under my supervision for the requirement of Degree of Master of Science in Geology from Department of Geology (Centre of Advanced Study) Kumaun University, Nainital, Uttarakhand, India.

This work is original and has not been submitted in part or full for any Degree or Diploma of this or any other University.

Deepa
29/05/2024
Dr. Deepa Arya
(Supervisor)

Forwarded
Pradeep K Goswami
PROF. DR Pradeep K Goswami
(HOD)

**PETROGRAPHY AND WHOLE ROCK
GEOCHEMISTRY OF MAFIC DYKES AT
SAUR (GWALKAUTI) REGION OF
NAINITAL, UTTARAKHAND**

DISSERTATION

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

of

MASTERS OF SCIENCE

In

GEOLOGY

BY

VARTIKA RANA
ROLL NO. 220120680020

**DEPARTMENT OF GEOLOGY
(CENTRE OF ADVANCED STUDIES)
KUMAUN UNIVERSITY NAINITAL**

**NAINITAL , 263002
UTTARAKHAND , INDIA**

2024

DEPARTMENT OF GEOLOGY**Centre of Advanced Study****Kumaun University Nainital 263002****Uttarakhand, India****CERTIFICATE**

This is to certify that Mr. Shubham Joshi S/O Trilochand Joshi Roll no. 220120680010 has carried out dissertation work entitled " Impact of climate change on slope instability uttarakhand, Himalaya under my supervision and guidance fpor the requirement of degree of master of science in Geology from department of Geology (Centre of Advanced Study) Kumaun University, Nainital.

Rajeev
Dr. Rajeev Upadhyay 03/06/2024
(Supervisor)

Forwarded
Pradeep K. Goswami
Prof. Pradeep K. Goswami
(Head of department)
3.6.2024

**IMPACT OF CLIMATE CHANGE IN SLOPE INSTABILITY: A CASE STUDY
FROM UTTARAKHAND HIMALAYA, INDIA**

**DISSERTATION SUBMITTED FOR PARTIAL
FULFILLMENT OF THE
REQUIREMENT FOR THE DEGREE OF
MASTER OF SCIENCE IN GEOLOGY**

**SUBMITTED BY
SHUBHAM JOSHI
M.SC IV SEMESTER, GEOLOGY**

**SUPERVISOR
Prof. RAJEEV UPADHYAY
DEPARTMENT OF GEOLOGY
D.S.B CAMPUS NAINITAL**

2024

CERTIFICATE

This is to certify that Mr. Pradeep Pathak s/o Shree. Anand Kumar Pathak has completed his dissertation work on "PETROGENESIS OF MICROGRANULAR ENCLAVES HOSTED IN PUNUGUDU GRANITES BASED ON MICROSTRUCTURAL FEATURES AND PHASE RELATIONS" under the supervision of Prof. Santosh Kumar undersigned for the requirement of Degree of Master of Science in Geology, Kumoun University, Nainital. This dissertation is based on candidates' own work carried out in the field and laboratory as well.

forwarded
Prof. Santosh Kumar
 01/06/2024
Prof. Pradeep Goswami
 Department of Geology
 Nainital
 (HOD)

Santosh Kumar
 01/06/2024
Prof. Santosh Kumar
 Department of geology
 Nainital
 (Supervisor)

Place: Nainital

Date:

Dissertation project

Report on

**PETROGENESIS OF MICROGRANULAR ENCLAVES HOSTED IN
PUNUGUDU GRANITES BASED ON MICROSTRUCTURAL
FEATURES AND PHASE RELATIONS**

Dissertation submitted

to

KUMAUN UNIVEERSITY

FOR

FULFILMENT OF THE REQUIREMENTS OF

MASTER IN SCIENCE

IN

GEOLOGY

-SUBMITTED BY -PRADEEP PATHAK

ROLL NO. -220120680008

DEPARTMENT OF GEOLOGY

(CENTER OF ADVANCED STUDY)

KUMAUN UNIVERSITY

CERTIFICATE

I hereby certify that the work which is being presented on the dissertation entitled "**Geological Evolution of Thar desert**" in partial fulfilment of the requirement for the award of the degree of Master of Science submitted in the **Department of Geology D.S.B CAMPUS Kumaun University Nainital**, under the supervision of **Prof. RAJEEV UPADHYAY**.

Rajeev
03/06/2024
Prof. Rajeev Upadhyay
(Supervisor)
Department of Geology
Kumaun University
Nainital, Uttarakhand

forwarded
Pradeep K. Goswami
3.6.2024
Prof. Pradeep K. Goswami
(Head of Department)
Department Of Geology
Kumaun University
Nainital, Uttarakhand

GEOLOGICAL EVOLUTION OF THAR DESERT

Dissertation

In partial fulfilment of the requirements

For the degree of

MASTER OF SCIENCE

In

Department of Geology

Submitted by

Neha Joshi

Roll No. (220120680019)

Under the supervision of

Rajeev Upadhyay

Submitted to

DEPARTMENT OF GEOLOGY

(CENTER OF ADVANCE STUDY)

D.S.B. CAMPUS KUMAUN UNIVERSITY NAINITAL

UTTARAKHAND, INDIA

CERTIFICATE

I hereby certify that the work which is being presented on the dissertation entitled "**Petroliferous basins of india**" in partial fulfilment of the requirement for the degree of Master of science submitted in the **Department of geology, D.S.B CAMPUS Kumaun university Nainital**, under the supervision of **prof. RAJEEV UPADHYAY**.

Rajeev
03/06/2024
Prof. RAJEEV UPADHYAY

(Supervisor)

Department of Geology

Kumaun University

Nainital, Uttarakhand

forwarded
Pradeep Goswami
3.6.2024
Prof. Pradeep k. Goswami

(Head of Department)

Department of Geology

Kumaun University

Nainital, Uttarakhand

PETROLIFEROUS BASINS OF INDIA

Dissertation

In partial fulfilment of the requirements

For the degree of

MASTER OF SCIENCE

In

Department of Geology

Submitted by

DIVYANSH SINGH BUDHWALA

ROLL NO: 220120680003

Under the supervision of

Professor Rajeev Upadhyay

DEPARTMENT OF GEOLOGY (CENTRE OF ADVANCED STUDY)

KUMAUN UNIVERSITY

NAINITAL, UTTARAKHAND

2024

CERTIFICATE

SN 1

This is to certify that Mr. Amit Joshi S/o Mr. Kailash Chandra Joshi has completed his dissertation work on "**STATE OF KNOWLEDGE ON THE ORIGIN AND EVOLUTION OF COPPER MINERALIZATION AT MALANJKHAND (PORPHYRY VS. NON-PORPHYRY)**" under the supervision of Prof. Santosh Kumar undersigned for the requirement of Degree of Master of Science in Geology, Kumaun University, Nainital. This dissertation is based on candidates' own work carried out in the field and laboratory as well.

forwarded
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Date: 01-06-2024

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**STATE OF KNOWLEDGE ON THE ORIGIN AND
EVOLUTION OF COPPER MINERALIZATION AT
MALANJKHAND (PORPHYRY VS. NON-PORPHYRY)**

Dissertation Submitted

For

Partial Fulfilment for the Degree

of

MASTER OF SCIENCE

IN

GEOLOGY

Submitted By

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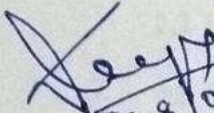
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SN 2

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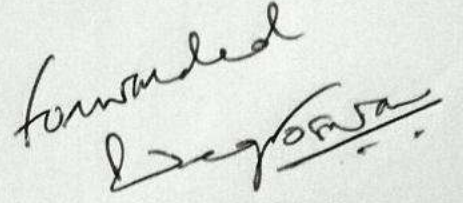
This is to certify that Mr. Apratim Chaudhary S/o Mr. Pramod Chaudhary, Roll No. 220120680002, has carried out the present dissertation work entitled "Local Impact of Mining In and around Almora Magnesite Limited, Jhiroli, Bageshwar " under my supervision and guidance for the requirement of degree of Master of Science in Geology from Department of Geology (Centre of Advanced Study), Kumaun University, Nainital.


28/05/2024

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**LOCAL IMPACT OF MINING IN AND AROUND ALMORA
MAGNESITE LIMITED, JHIROLI, BAGESHWAR**

DISSERTATION

*Submitted in partial fulfilment
for degree*

of

MASTERS OF SCIENCE

in

GEOLOGY

Kumaun University Nainital

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