

भारतीय भूवैज्ञानिक सर्वेक्षण /GEOLOGICAL SURVEY OF INDIA

No.

3508

/NCEGR/RSAS/2023

Date: 08/09/2023

प्रेषक / From

निदेशक/The Director (Additional Charge)

एन.सी.ई.जी.आर/NCEGR

आर.एस.ए.एस /RSAS

भारतीयभूवैज्ञानिकसर्वेक्षण/

Geological Survey of India

नईप्रयोगशालापरिसरइमारत/

New laboratory complex building

बेंगलूरू / Bengaluru-560111

सेवामें / То

Dr. Linto Alappat

Asst. Professor in Geology

Dean of Research, Development & TLC

Dept. of Geology & Environmental Science

Christ College Autonomous, Irinjalakuda

Thrissur, Kerala-680125

विषय /Sub: Student Internship Program at NCEGR,RSAS,GSI,Bangalore

महोदय/Sir,

The following students from Christ College, Irinjalakuda, Thrissur, Kerala have visited National Centre for Excellence in Geoscience Research (NCEGR), RSAS, Geological Survey of India, Bangalore, from 31.08.2023 to 08.09.2023 and completed their student internship program successfully.

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The students displayed fervor and were very much interactive while learning throughout the internship program. We believe that the knowledge gained during this program will be surely beneficial to the students in their future endeavors.

Thanking you for giving us an opportunity to share our experience.

भवदीय /Yours faithfully,

(Dr. KVSS Krishna)

Director (Additional Charge)



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पृथ्वी विज्ञान मंत्रालय, भारत सरकार Ministry of Earth Sciences, Govt. of India

पि.बि.नं. ७२५०, आक्कुलम, तिरुवनंतपुरम - ६९५ ०११, भारत PB.No. 7250, Akkulam, Thiruvananthapuram – 695011, India

CERTIFICATE

I hereby declare that the work, presented in this Report, entitled "The sediment grain size of core sediments from the central Andaman Sea: inferences on weathering changes during 48,000 to 34,000 years Before Present and their paleoclimatic implications" by Mr. Abel Thomas is an original work submitted to the National Centre For Earth Science Studies, Akulam Thiruvananthapuram, for the partial fulfilment of the requirement for the Internship Training Certificate, as part of his curriculum. This work was carried out under the guidance of Dr. Prajith A, Scientist B, Marine Geoscience Group (MGG), National Centre for Earth Science Studies, Akkulam Thiruvananthapuram during the period of May 2023. This report has not been submitted elsewhere for any other degree or diploma, fellowship, or similar titles.

Thiruvananthapuram 19.05.2023



Dr. Prajith A

डॉ प्रजित ए

वैज्ञानिक

राष्ट्रीय पृथ्वी विज्ञान अध्ययन केन्द्र पृथ्वी विज्ञान मंत्रालय, भारत सरकार आक्कुलम, तिरुवनंतपुरम-695011

Dr. PRAJITH A

Scientist

National Centre for Earth Science Studies Ministry of Earth Sciences, Govt. of India Akkulam, Thiruvananthapuram-695011

दूरभाष/Phone: +91- 471 -2511502, 2511500, 2511721

ई-मेल/E-mail: director@ncess.gov.in, seniormanager@ncess.gov.in

फ़ैक्स/Fax : +91 - 471 - 2442280 (Director)

वेबसाइट / Website : www.ncess.gov.in

हमारे भविष्य हमारी पृथ्वी के लिए प्रतिबद्ध



राष्ट्रीय पृथ्वी विज्ञान अध्ययन केन्द्र NATIONAL CENTRE FOR EARTH SCIENCE STUDIES

पृथ्वी विज्ञान मंत्रालय, भारत सरकार Ministry of Earth Sciences, Govt. of India

पि.बि.नं. ७२५०, आक्कुलम, तिरुवनंतपुरम - ६९५ ०११, भारत PB.No. 7250, Akkulam, Thiruvananthapuram - 695011, India

CERTIFICATE FROM THE SUPERVISOR

This is to certify that Mr. ARUN VIKRAM P S from the Department of Geology and Environmental Science, Christ College (Autonomous), Irinjalakuda, Kerala, 680125 has successfully completed his internship work under the supervision of Dr. Nilanjana Sorcar in National Centre for Earth Science Studies (NCESS), Thiruvananthapuram, Kerala.

During his period of work (15/05/2023 - 26/05/2023) at NCESS, Thiruvananthapuram, was found punctual, hardworking, and inquisitive.

Wishing him all the very best for his future endeavors.

(Signature of the Supervisor)

Dr. Nilanjana Sorcar

Scientist C, Solid Earth Research Group (SERG)

DEPARTMENT OF ATMOSPHERIC SCIENCES

COCHIN UNIVERSITY OF SCIENCE AND TECHNOLOGY



Lakeside Campus, Fine Arts Avenue, Cochin - 682 016, INDIA

Date: 16-January-2024

To Whom It May Concern,

This is to certify that **Miss. Caren Vencilavouse**, an Integrated MSc Geology student at Christ College Irinjalakkuda, completed a summer internship under my supervision. She actively participated in the project titled "Forward Modeling of Speleothem δ^{18} O over India using PRYSM" from May 8, 2023, to July 31, 2023.

Throughout the internship, **Miss. Caren Vencilavouse** displayed dedication to the project, expanding her understanding of paleoclimate research in India. Additionally, she acquired proficiency in scientific computation using Python, a skill that proved essential for the project's successful completion.

Dr. Midhun M Assistant Professor

Mobile: +91 9662735653 E-mail: midhun@cusat.ac.in

DEPARTMENT OF ATMOSPHERIC SCIENCES

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Lakeside Campus, Fine Arts Avenue, Cochin - 682 016, INDIA

Date: 16-January-2024

To Whom It May Concern,

This is to certify that **Mr. Jithin C F**, an Integrated MSc Geology student at Christ College Irinjalakkuda, completed a summer internship under my supervision. He actively participated in the project titled "Forward Modeling of Speleothem δ^{18} O over India using PRYSM" from May 8, 2023, to July 31, 2023.

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Date: 16-January-2024

To Whom It May Concern,

This is to certify that **Miss. Navalakshmy N S**, an Integrated MSc Geology student at Christ College Irinjalakkuda, completed a summer internship under my supervision. She actively participated in the project titled "Forward Modeling of Speleothem δ^{18} O over India using PRYSM" from May 8, 2023, to July 31, 2023.

Throughout the internship, Miss. Navalakshmy N S displayed dedication to the project, expanding her understanding of paleoclimate research in India. Additionally, she acquired proficiency in scientific computation using Python, a skill that proved essential for the project's successful completion.

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NATIONAL CENTRE FOR EARTH SCIENCE STUDIES

पृथ्वी विज्ञान मंत्रालय, भारत सरकार Ministry of Earth Sciences, Govt. of India

पि.बि.नं. ७२५०, आक्कुलम, तिरुवनंतपुरम - ६९५ ०११, भारत PB.No. 7250, Akkulam, Thiruvananthapuram – 695011, India

Dr. A. Prajith
Scientist, Marine Geoscience Group
National Centre for Earth Science Studies
Thiruvananthapuram
Ph: +91-9637783408

E-mail: prajith.a@ncess.gov.in

19th May 2023

CERTIFICATE

This is to certify that Mr. Krishnaprasad M, Vth semester MSC. Integrated student at Department of Geology and Environmental Science, Christ College Irinjalakuda, Thrissur, has done internship work in the Sedimentology and PSA Labs from 8th to 19th May 2023 at Marine Geoscience Group of National Centre for Earth Science Studies, Thiruvananthapuram-695011.

During the internship, he familiarized himself with sediment sample preparation techniques for Laser Particle Size Analyser (LPSA), analytical protocol, and grain size data generation and interpretation.

Thiruvananthapuram 19.05.2023



डॉ प्रजित ए

राष्ट्रीय पृथ्वी विज्ञान अध्ययन केन्द्र पृथ्वी विज्ञान मंत्रालय, भारत सरकार आक्कुलम, तिरुवनंतपुरम-695011

Dr. PRAJITH A

Scientist

National Centre for Earth Science Studies Ministry of Earth Sciences, Govt. of India Akkulam, Thiruvananthapuram-695011

दूरभाष/Phone: +91- 471 -2511502, 2511500, 2511721

ई-मेल/E-mail : director@ncess.gov.in, seniormanager@ncess.gov.in

फ़ैक्स/Fax : +91 - 471 - 2442280 (Director)

वेबसाइट / Website : www.ncess.gov.in

हमारे भविष्य हमारी पृथ्वी के लिए प्रतिबद्ध



राष्ट्रीय पृथ्वी विज्ञान अध्ययन केन्द्र NATIONAL CENTRE FOR EARTH SCIENCE STUDIES

पृथ्वी विज्ञान मंत्रालय, भारत सरकार Ministry of Earth Sciences, Govt. of India

पि.बि.नं. ७२५०, आक्कुलम, तिरुवनंतपुरम - ६९५ ०११, भारत PB.No. 7250, Akkulam, Thiruvananthapuram – 695011, India

CERTIFICATE

I hereby declare that the work, presented in this Report, entitled "The sediment grain size of core sediments from the central Andaman Sea: inferences on weathering changes during 34,000 to 20,000 years Before Present and their paleoclimatic implications" by Mr. Krishnaprasad M is an original work submitted to the National Centre For Earth Science Studies, Akulam Thiruvananthapuram, for the partial fulfilment of the requirement for the Internship Training Certificate, as part of his curriculum. This work was carried out under the guidance of Dr. Prajith A, Scientist B, Marine Geoscience Group (MGG), National Centre for Earth Science Studies, Akkulam Thiruvananthapuram during the period of May 2023. This report has not been submitted elsewhere for any other degree or diploma, fellowship, or similar titles.

Thiruvananthapuram 19.05.2023

राष्ट्रीय पृथ्वी विज्ञान अध्ययन केन्द्र पृथ्वी विज्ञान मंत्रालय, भारत सरकार आक्कुलम, तिरुवनंतपुरम-695011 Dr. PRAJITH A Scientist

Scientist

National Centre for Earth Science Studies

Ministry of Earth Sciences, Govt. of India

Akkulam, Thiruvananthapuram-695011

डॉ प्रजित ए वैज्ञानिक

Dr. Prajith A



दरभाष/Phone: +91- 471 -2511502, 2511500, 2511721

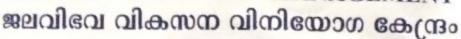
ई-मेल/E-mail : director@ncess.gov.in, seniormanager@ncess.gov.in

फ़ैक्स/Fax : +91 - 471 - 2442280 (Director) वेबसाइट / Website : www.ncess.gov.in

हमारे भविष्य हमारी पृथ्वी के लिए प्रतिबद्ध



KSCSTE - CENTRE FOR WATER RESOURCES DEVELOPMENT AND MANAGEMENT





KSCSTE-CWRDM An Institution of Kerala State Council for Science, Technology & Environment, Govt. of Kerala കേരള ശാസ്ത്ര സാങ്കേതിക പരിസ്ഥിതി കൗൺസിൽ സ്ഥാപനം, കേരള സർക്കാർ

Dr.C.P.PRIJU, M.Sc, Ph.D Senior Scientist Hydrology and Climatology Research Group

SUPERVISOR'S CERTIFICATE

I certify that the internship work entitled "Application of geophysical methods and groundwater modeling software for groundwater studies" is a genuine research work carried out by Ms. ANIN MARY JOHN, under my guidance during the period 10th April to 9th May 2023. This work is in partial fulfilment for the award of the degree of Master of Science in Applied Geology in Department of Applied Geology, Christ College, Irinjalakuda, Thrissur - 670 667. I also certify that this internship, either wholly or partially has not been the basis for the award of any other degree or diploma.

Place: Kunnamangalam

Date: May 10, 2022

(Dr.C.P.PRIJU)

Dr. C.P. PRIJU

Principal Scientist and Head

TESTIMONIAL

This is to certify that Ms. Anzia Fazil, M.Sc. Applied Geology student, Department of

Geology and Environmental Science, Christ College (Autonomous), Irinjalakuda, Thrissur,

Kerala, has undergone Summer Internship program under the guidance of Dr. Arun P. R,

Senior Scientist, Hydrology and Climatology Research Group in KSCSTE-CWRDM during

April – May, 2023. During this period, she has been trained on various aspects related to

groundwater.

Ms. Anzia Fazil, is found to be inquisitive, sincere and hardworking. She exhibits keen

interest in learning and carries out the assigned work with utmost care commitment.

I wish Ms. Anzia Fazil, a very successful educational career and bright future.

Dr. C.P. PRIJU

Principal Scientist and Head

Hydrology and Climatology Research Group

10th May, 2023

Dr. C.P. PRIJU

Principal Scientist and Head

TESTIMONIAL

This is to certify that Ms. Shana Jasmin T.K, M.Sc. Applied Geology student,

Department of Geology and Environmental Science, Christ College (Autonomous),

Irinjalakuda, Thrissur, Kerala, has undergone Summer Internship program under the guidance

of Dr. Arun P. R, Senior Scientist, Hydrology and Climatology Research Group in KSCSTE-

CWRDM during April – May, 2023. During this period, she has been trained on various aspects

related to groundwater.

Ms. Shana Jasmin T.K, is found to be inquisitive, sincere and hardworking. She

exhibits keen interest in learning and carries out the assigned work with utmost care

commitment.

I wish Ms. Shana Jasmin T.K, a very successful educational career and bright future.

Dr. C.P. PRIJU

Principal Scientist and Head

Hydrology and Climatology Research Group

10th May, 2023