



राष्ट्रीय ध्रुवीय एवं समुद्री अनुसंधान केन्द्र

पृथ्वी प्रणाली विज्ञान संगठन

पृथ्वी विज्ञान मंत्रालय (भारत सरकार)

हेडलैण्ड सडा, वास्को-डा-गामा, गोवा-४०३ ८०४, भारत



NATIONAL CENTRE FOR POLAR AND OCEAN RESEARCH

Earth System Science Organisation

Ministry of Earth Sciences, (Government of India)

Headland Sada, Vasco-da-Gama, Goa - 403 804, INDIA

CERTIFICATE

I hereby certify that the dissertation work titled "*Antarctic Sea Ice Extent and Interannual Variability: A Remote Sensing Approach*" carried out by Mr. Gururaj for the Degree of Master of Science in Marine Geology, Mangalore University, Karnataka, India, is a bonafide record of dissertation work successfully completed by him at National Centre for Polar and Ocean Research (NCPOR) during 28th January to 10th May, 2019, under my guidance. I further certify that this work has been taken as the basis for the award of present Degree or Diploma.

Date: 10.05.2019

Place: Vasco-da-Gama

Dr. Avinash Kumar
Scientist D
National Centre for Polar
and Ocean Research, Goa

डॉ. अविनाश कुमार / Dr. Avinash Kumar
वैज्ञानिक डी / Scientist D
ईएसएसओ-राष्ट्रीय ध्रुवीय एवं समुद्री अनुसंधान केन्द्र
ESSO - National Centre for Polar and Ocean Research
(पृथ्वी विज्ञान मंत्रालय / Ministry of Earth Sciences)
हेडलैण्ड सडा, वास्को-डा-गामा / Headland Sada, Vasco-da-Gama
गोवा / Goa - 403804

CERTIFICATE

I hereby declare that the work is being presented in this dissertation, entitled "*Drainage Morphometric Analysis of Karuvannur River Basin, Thrissur District, Kerala State*" by MIDHUN E.V submitted to the Department of Marine Geology, Mangalore University Mangalore, in partial fulfillment of the requirement of the award of the Degree of Master of Science in Marine Geology, is an authentic record of the work carried out under my supervision and guidance.

Place: Kottayam

Date: 15-04-2019




ANISH A.U

Assistant Professor
Government College
Kottayam
Nattakom P.O, Kerala-
686013



राष्ट्रीय ध्रुवीय एवं समुद्री अनुसंधान केन्द्र

पृथ्वी प्रणाली विज्ञान संगठन

पृथ्वी विज्ञान मंत्रालय (भारत सरकार)

हेडलैण्ड सडा, वास्को-डा-गामा, गोवा-४०३ ८०४, भारत



NATIONAL CENTRE FOR POLAR AND OCEAN RESEARCH

Earth System Science Organisation

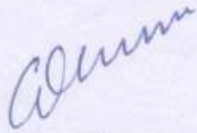
Ministry of Earth Sciences, (Government of India)

Headland Sada, Vasco-da-Gama, Goa - 403 804, INDIA

CERTIFICATE

I hereby certify that the dissertation work titled **Geochemical Analysis of Sediments by using ICP-MS** carried out by **Mr. PRITHVIRAJ G. GANIGA**, for the degree of Master of Science in Marine Geology, Mangalore University, Karnataka, India is a bonafide record of dissertation work successfully completed by him at National Centre for Polar and Ocean Research, Headland Sada Vasco-da-Gama, Goa 403804 from 28th January to 10th May, 2019 under my guidance. I further certify that this work or a part thereof has not been the basis for the award of any degree or diploma.

Date: 14th May 2019
Place: Vasco-da-Gama


Dr. Waliur Rehman
Scientist -D,
National Centre for Polar and Ocean Research
Headland Sada,
Vasco-da- Gama,
Goa 403804
India

Dr. Waliur Rahaman
Scientist
National Centre for Antarctic & Ocean Research
Ministry of Earth Science, Govt. of India
Vasco da-Gama, Goa 403804

CERTIFICATE

* This is to certify that, Mr. Shijo Saji, student of M.Sc Marine Geology, Department of Marine Geology, Mangalore University, Mangalore has successfully completed his Dissertation work during the period of January 2019 to May 2019 under my guidance on the project entitled “ **Rare Earth Element (REE) Distribution in Placer Deposits of Coastal India**”.



Dr. M. Satyanarayanan

Principal Scientist, Geochemistry Divison

CSIR-National Geophysical Research Institute

Hyderabad-500007

Place: Hyderabad

Date: 24-05-2019



CERTIFICATE

This is to certify that the project entitled
**INTERANNUAL VARIABILITY OF THE FINDLATER JET
IN THE ARABIAN SEA**

Submitted by
Shravan Ramesh

Dissertation submitted in partial fulfilment for the degree
of

**MASTER OF SCIENCE IN MARINE GEOLOGY
MANGALORE UNIVERSITY**

Is record of his work carried out at National Institute of
Oceanography (NIO), Dona Paula, Goa

A handwritten signature in blue ink, reading 'Dr. Jayu Narvekar', is written over a horizontal line.

Project Supervisor
Dr. Jayu Narvekar
Scientist 'C', POD
(External Guide)

Date: 15th May 2019



MANGALORE

UNIVERSITY

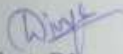
DEPARTMENT OF MARINE GEOLOGY,

MANGALORE UNIVERSITY

MANGALAGANTHRI -574199

CERTIFICATE

This is to certify that the project report entitled "Grain size analysis of Gravity core and Vibro core Sediments collected off Point Calimere, Tamilnadu, India" is a bonafide record of work done by SUPREETHA.K to Manglore University for the degree of master of science in Marine Geology, under the guidance of Smt. DIVYA, Geologist, Marine and Coastal Survey, Geological Survey of India, Mangalore and Smt. YAMUNA, Assistant Professor, Department of Marine Geology Mangalore University, Mangalagangothri.



Smt. Divya

Geologist

Geological survey of India

Mangalore.

Smt. Yamuna

Assistant Professor

Dept. of marine Geology

Mangalagangothri

दिव्या/DIVYA
भूज्ञानिक/Geologist
एच सी.एस.डी./M & CSD
राष्ट्रीय भूज्ञानिक सर्वेक्षण
Geological Survey of India
सरकार/Govt. of India
मंगलूरु/MANGALURU - 575 001



MANGALORE UNIVERSITY

Department of Marine Geology, Mangalagangothri

CHAIRMAN'S CERTIFICATE

This is to certify that the project work "*A Study on Mining, Processing and Applications Of Bentonite*" is carried out by Mr. SUDEEP KUMAR, student of 4th Semester M. Sc. Marine Geology under the guidance of Dr. K Priya, Asst. Professor, Department of Marine Geology, as a partial fulfillment of the requirement for the award of Master Degree in Marine Geology of Mangalore University during the academic year 2018-2019.

Mangalagangothri
18th May 2019

H Gangadhara Bhat

Dr. H Gangadhara Bhat

Chairman

Department of Marine Geology

Mangalore University

Mangalagangothri

Chairman

Department of Marine Geology

Mangalore University

MANGALAGANGOTRI - 574 199

MANGALORE  UNIVERSITY

DEPARTMENT OF MARINE GEOLOGY

MANGALAGANGOTRI - 574 199

CHAIRMAN'S CERTIFICATE

This is to certify that dissertation entitled "RS and GIS based morphometric analysis of Shiriya River basin of Kerala" bonafied record of the project work carried out by Mr. Vishnu S.

This Project work was done in the partial fulfillment of the degree in M.Sc. Marine Geology department of Mangalore University. Further this is to certify that the project work or part of it has not been submitted elsewhere for the award of any degree or diploma.

Place: Mangalagangothri
Date: 18/5/2019

H. Gangadhara Bhat
Prof. H. Gangadhara Bhat
Chairman
Dept. of Marine Geology
Mangalore University

Chairman
Department of Marine Geology
Mangalore University
MANGALAGANGOTRI - 574 199