



MANGALORE UNIVERSITY

MANGALAGANGOTTHRI - 574199

M.S.C MARINE GEOLOGY

CHAIRMAN'S CERTIFICATE

This is to certify that dissertation work entitled 'STUDY OF SHORELINE CHANGES ALONG KANNUR TO KASARAGOD USING DSAS (ARCGIS)' is carried out by MS. ANZEELA MARIYAM K V of IVth semester M.Sc. course in Marine Geology and has satisfactorily completed under the guidance of Prof. BR MANJUNATHA, Department of Marine Geology, Mangalore University for the partial fulfillment of the requirement for the award of the degree of Master of science in Marine Geology.

Place: Mangalagangothri

Date



  
Dr Shivanna

Chairman

Department of marine geology

Mangalagangothri: 574 199

**CHAIRMAN**

Department of Marine Geology  
Mangalore University  
Mangalagangothri-574199

Mangalore



University

Department of Marine Geology

Mangalagangothri, Karnataka

### Chairman's Certificate

This is to certify that the dissertation work titled "*Heavy mineral and sand resources in the inner shelf sediments off Vizhinjam, Trivandrum, Kerala*" carried out by **Ms. Apoorva Gowri D.**, IV Semester, M.Sc. course in Marine Geology under the external guidance of **Anupama L. C.**, Senior Geologist, Geological Survey of India, Mangalore and internal guidance of **Dr.K.S.Jayappa**, Professor, Department of Marine Geology, Mangalore University for the partial fulfillment of M.Sc. Degree in Marine Geology.

Place: Mangalagangothri

Date:

Prof. Shivanna

Chairman

Department of Marine Geology

Mangalore University

**CHAIRMAN**

Department of Marine Geology

Mangalore University

Mangalagangothri-574199



**JISHNU B K**  
GEOLOGIST



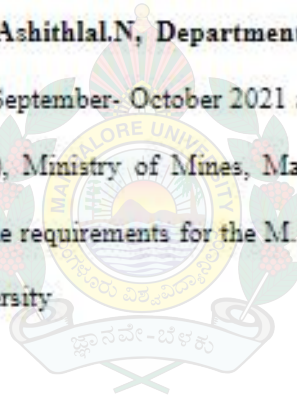
भारत सरकार, खान भंडालय  
एम-1ए, समुद्री तथा तटीय सर्वेक्षण प्रभाग  
भारतीय भूवैज्ञानिक सर्वेक्षण, मंगलूरु-575001

Government of India, Ministry of Mines  
M-1A, Marine & Coastal Surveys Division  
Geological Survey of India, Mangaluru- 575 001

दिनांक / Dated: 23.10.2021

## CERTIFICATE

This is to certify that the dissertation work entitled "Comparative Study Of Freely Available Bathymetry Data Sets Using ArcGIS: A Case Study In South Andaman Sea" is an authentic work done by Mr Ashithlal.N, Department of Marine Geology, Mangalore University during the month of September- October 2021 at Marine & Costal Survey of India, Geological Survey of India (GSI), Ministry of Mines, Mangaluru under my supervision and guidance in partial fulfilment of the requirements for the M.Sc. Marine Geology, Department of Marine Geology, Mangalore University



(Jishnu B. K.)



**जिष्णु बी. के. / JISHNU B. K.**  
भूवैज्ञानिक / Geologist  
एम एवं सी.एल.डी. / M & CSD  
भारतीय भूवैज्ञानिक सर्वेक्षण  
Geological Survey of India  
भारत सरकार / Govt. of India  
मंगलूरु / MANGALURU - 575 001





MANGALORE

UNIVERSITY

MANGALAGANTHRI – 574199

M.Sc. MARINE GEOLOGY

### CHAIRMAN'S CERTIFICATE

This is to certify that dissertation work entitled “USE OF REMOTE SENSING AND GEOGRAPHICAL INFORMATION SYSTEM TO DETERMINE GROUND WATER POTENTIAL ZONES IN MANGALORE TALUK, DAKSHINA KANNADA DISTRICT, KARNATAKA” is carried out by Mr. DERWIN FRANCIS of IVth semester M.Sc. course in Marine Geology and has satisfactorily completed under the guidance of Prof Dr.H. GANGADHARA BHAT, Department of Marine Geology, Mangalore University for the partial fulfilment of the requirement for the award of the degree of Master of science in Marine Geology.

Place: Mangalagantothi

Date:

Dr. Shivanna

Chairman

Department of Marine Geology

Mangalagantothi: 574 199

**CHAIRMAN**

Department of Marine Geology  
Mangalore University  
Mangalagantothi-574199

MANGALORE  UNIVERSITY

MANGALAGANTHRI - 574199

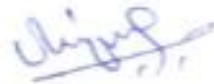
M.Sc. MARINE GEOLOGY

CHAIRMAN'S CERTIFICATE

This is to certify that the Dissertation work entitled "ESTIMATION OF HEAVY MINERAL RESOURCES OFF CHAVARA, KOLLAM COAST, KERALA USING GIS TECHNIQUES" is carried out by Mr. Dharm K. V of IV<sup>th</sup> Semester M.Sc. course in Marine Geology and has satisfactorily completed under the guidance of Prof. H. Gangadhara Bhat, Department of Marine Geology, Mangalore University for the partial fulfilment of the requirement for the award of the Degree of Master of Science in Marine Geology.

Place: Mangalaganthri

Date:



Dr. Shivanna

Chairman

Department of Marine Geology

Mangalore University

Mangalaganthri: 574199

**CHAIRMAN**

Department of Marine Geology  
Mangalore University  
Mangalaganthri-574199



MANGALORE

UNIVERSITY

MANGALAGANGOTRI – 574199

MSc. MARINE GEOLOGY

CHAIRMAN'S CERTIFICATE

This is to certify that dissertation work entitled " MONITORING OF LANDSLIDE AND ITS IMPACT IN KOTTIYOOR PANCHAYAT, KANNUR DISTRICT, KERALA BY USING GEOSPATIAL TECHNOLOGY" is carried out by Ms. Gopika P of IV<sup>th</sup> semester MSc course in Marine Geology and has satisfactorily completed under the guidance of Smt. R. Nirmala, Department of Marine Geology, Mangalore University for the partial fulfilment of the requirement for the award of the degree of Master of science in Marine Geology

*Place: Mangalagangotri*

*Date:*

**Dr. Shivanna**

**Chairman**

Department of Marine Geology,

Mangalore University

Mangalagangotri- 574199

**CHAIRMAN**

Department of Marine Geology

Mangalore University

Mangalagangotri-574199

## CERTIFICATE

This is to certify that **Mr. Harin R nair** has carried out his project entitled **Sensitivity Studies of Tsunamigenic Earthquakes in Indian Ocean Subduction Zones- Andaman-Sumatra Subduction Zone And Makaran Subduction zone With Tsunami Numerical Modelling'** towards the partial fulfillment for the award of degree in **Master of Science in Department of Marine Geology, Mangalore University, Mangalore**. This work has been successfully carried out through online at **Indian National Center for Ocean Information Services (INCOIS), Hyderabad** under my guidance during **20 August to October 22, 2021**. The report contains the original work carried out by him and not submitted by any university. During the project work, he took keen interest in the assigned work. I wish him all success in his academic endeavors and life.

*Ch. Patanjali Kumar*  
**Ch. Patanjali Kumar** 20/12/21  
**Scientist 'E', INCOIS**





**MANGALORE UNIVERSITY**  
**DEPARTMENT OF MARINE GEOLOGY**  
**MANGALAGANGOTTHRI, KARNATAKA.**

**Chairman's Certificate**

This is to certify that the dissertation work titled *Shoreline Changes at Sasihithlu Region, Dakshina Kannada District* is carried out by Mr. Hemanth Shetty., IV Semester, M.Sc. course in Marine Geology under the guidance of Dr. K Priya, Assistant Professor, Department of Marine Geology and Dr. Pruthviraj U., Assistant Professor, Department of Applied Mechanics and Hydraulics National Institute of Technology, Surathkal, Karnataka for the partial fulfilment of M.Sc. Degree in Marine Geology during the year 2019-21. Further, I certify that this work or a part thereof has not been the basis for the award of any degree or diploma.

**Place:** Mangalagangothri  
**Date:**

  
**Chairman**

Dept. of Marine Geology  
**CHAIRMAN**  
Department of Marine Geology  
Mangalore University  
Mangalagangothri-574199






MANGALORE UNIVERSITY  
MANGALAGANGOTHRI - 574199  
DEPARTMENT OF MARINE GEOLOGY

**CERTIFICATE**

This is to certify that this thesis entitled "**DELINEATION OF GROUNDWATER POTENTIAL ZONES IN PALLIMAN RIVER BASIN, KOLLAM DISTRICT, KERALA USING GEOSPATIAL TECHNOLOGY**" is an authentic record of the work carried out at Inter University Centre for Geospatial Information Science and Technology, University of Kerala by **Ms. IYRENE SUSAN GILBERT** of Fourth Semester M.Sc. Marine Geology, Mangalore University in partial fulfilment of the requirements for the award of M.Sc. Degree in Marine Geology, during the year 2021.

Place: Mangalagangothri  
Date: October 2021



  
**Dr. Shivanna**

Chairman  
Department of Marine Geology  
Mangalore University

**CHAIRMAN**  
Department of Marine Geology  
Mangalore University  
Mangalagangothri-574199



**MANGALORE UNIVERSITY**

**DEPARTMENT OF MARINE GEOLOGY**

**MANGALAGANGOTRI, KARNATAKA.**

### **Chairman's Certificate**

This is to certify that the dissertation work titled *Shoreline Changes at Surathkal Region, Dakshina Kannada District* is carried out by Mr. Jeevan, K., IV Semester, M.Sc. course in Marine Geology under the guidance of Dr. B.R. Manjunatha, Professor, Department of Marine Geology and Dr. Pruthviraj U., Assistant Professor, Department of Applied Mechanics and Hydraulics National Institute of Technology, Surathkal, Karnataka for the partial fulfilment of M.Sc. Degree in Marine Geology during the year 2019-21. Further, I certify that this work or a part thereof has not been the basis for the award of any degree or diploma.

**Place:** Mangalagangothri

**Date:**

  
-Chairman

Dept. of Marine Geology  
**CHAIRMAN**  
Department of Marine Geology  
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# MANGALORE UNIVERSITY

DEPARTMENT OF MARINE GEOLOGY

MANGALAGANGOTRI, KARNATAKA.

## Chairman's Certificate

This is to certify that the dissertation work titled, "*DELINEATION OF GROUND WATER POTENTIAL ZONES OF NETRAVATHI RIVER BASIN USING GEOSPATIAL TECHNOLOGY*" is carried out by Mr. Mahesh Krishna K, IV Semester, M.Sc. course in Marine Geology under the guidance of Dr. Priya k, Assistant Professor, Department of Marine Geology and Dr. Ramesh H, Associate Professor, Department of Hydraulics and Ocean Engineering, National Institute of Technology, Surathkal, Karnataka for the partial fulfilment of M.Sc. Degree in Marine Geology during the year 2019-21. Further, I certify that this work or a part thereof has not been the basis for the award of any degree or diploma.

Place: Mangalore University

Date:

  
Chairman

Dept. of Marine Geology  
**CHAIRMAN**  
Department of Marine Geology  
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Mangalagangothri-574199





# Mangalore University

Department of Marine Geology

Mangalagangothri,

Karnataka.

## Chairman's Certificate

This is to certify that the dissertation work titled *Watershed Management of the Coastal Region near Kundapura, West Coast of India* is carried out by Ms. Nagarathna, IV Semester, M.Sc. course in Marine Geology under the guidance of Dr. B R Manjunatha, Professor, Department of Marine Geology for the partial fulfilment of M.Sc. Degree in Marine Geology during the year 2019-21. Further, I certify that this work or a part there of has not been the basis for the award of any degree or diploma.

Place: Mangalagangothri

Date:

  
Chairman

Dept. of Marine Geology  
**CHAIRMAN**  
Department of Marine Geology  
Mangalore University  
Mangalagangothri-574199





# MANGALORE UNIVERSITY

DEPARTMENT OF MARINE GEOLOGY

MANGALAGANGOTTHRI, KARNATAKA.

## Chairman's Certificate

This is to certify that the dissertation work titled, "*MORPHOMETRIC ANALYSIS OF MONACHI RIVER BASIN OF KASARAGOD*" is carried out by Ms. NASLA N, IV Semester, M.Sc. course in Marine Geology under the guidance of Dr. Priya K, Assistant Professor, Department of Marine Geology for the partial fulfilment of M.Sc. Degree in Marine Geology during the year 2019-21. Further, I certify that this work or a part thereof has not been the basis for the award of any degree or diploma.

  
Chairman

Place: Mangalore University

Date:

Dept. Marine geology

Mangalore university

Mangalagangothri

**CHAIRMAN**

Department of Marine Geology  
Mangalore University  
Mangalagangothri-574199

# Mangalore University



Department of Marine Geology  
Mangalagangothri, Karnataka

## Chairman's Certificate

This is to certify that the dissertation work titled "*Heavy mineral and sand resources in the inner shelf sediments off Vizhinjam, Trivandrum, Kerala*" carried out by Ms. **Pooja**, of IV Semester, M.Sc. in Marine Geology under the external guidance of **Anupama L. C.**, Senior Geologist, Geological Survey of India, Mangalore and internal guidance of **Dr. K. S. Jayappa**, Professor, Department of Marine Geology, Mangalore University for the partial fulfilment of M.Sc. Degree in Marine Geology.

Place: Mangalagangothri

Date:

Professor Shivanna  
Chairman  
Department of Marine Geology  
Mangalore University

**CHAIRMAN**  
Department of Marine Geology  
Mangalore University  
Mangalagangothri-574199

MANGALORE



UNIVERSITY

DEPARTMENT OF MARINE GEOLOGY

MANGALAGANGOTRI, KARNATAKA

### Chairman's Certificate

This is to certify that the dissertation work titled "*Report on the study on temporal variation of granulometric parameters of sediments collected from the continental shelf, off Gujarat, west coast of India*" carried out by Ms. Sana S. Nath, IV Semester, M.Sc. course in Marine Geology under the external guidance of Ms. NISHA N.V., *Senior Geologist, Geological Survey of India*, Marine and Coastal Survey Division, Mangalore and internal guidance of Dr. Priya K., Assistant Professor, *Department of Marine Geology, Mangalore University* for the partial fulfilment of M.Sc. Degree in Marine Geology.

Place: Mangalagangotri

Date: 13-10-2021



  
Prof. SHIVANNA

Chairman

Department of Marine Geology

Mangalore university

**CHAIRMAN**

Department of Marine Geology

Mangalore University

Mangalagangotri-574199

MANGALORE



UNIVERSITY

DEPARTMENT OF MARINE GEOLOGY

MANGALAGANGOTRI, KARNATAKA

### Chairman's Certificate

This is to certify that the dissertation work titled: "*Detection of Oil Spill off Sri Lanka using SAR data*" carried out by **Mr. Shabarinath K**, IV Semester student of M.Sc. in Marine Geology under the external guidance of **Dr. S. J. Prasad**, Scientist, ARO, OSAR, INCOIS and internal guidance of **Dr. K. S. JAYAPPA**, Professor, Department of Marine Geology, Mangalore University for the partial fulfilment of M.Sc. Degree in Marine Geology.

Place: Mangalagangotri

Date:

  
**Prof. Shivanna**

Chairman

Department of Marine Geology

Mangalore university

**CHAIRMAN**

Department of Marine Geology

Mangalore University

Mangalagangotri-574199



MANGALORE



UNIVERSITY

DEPARTMENT OF MARINE GEOLOGY

MANGALAGANGOTRI, KARNATAKA

## Chairman's Certificate

This is to certify that the dissertation work title *Study of ground water prospecting along the mangalore region based on remote sensing and gis* carried out by **Ms. Shamitha S IV** Semester, M.Sc. course in Marine Geology under the guidance of **YAMUNA S.M., Assistant Professor, Department of Marine Geology, Mangalore University** for the partial fulfilment of M.Sc. Degree in Marine Geology.

**Prof. Shivanna**

**Chairman,**

**Department of Marine Geology**

**Mangalore university**

**CHAIRMAN**

Department of Marine Geology

Mangalore University

Mangalagangotri-574199

Place: Mangalagangotri

Date: 23-10-2021

**MANGALORE UNIVERSITY**  
DEPARTMENT OF MARINE GEOLOGY

MANGALAGANGOTRI, KARNATAKA

**Chairman's Certificate**

This is to certify that the dissertation work titled "*Mapping of Ground Water prospect zones using Remote sensing and GIS in and around Parappa Block, Kasaragod District*" carried out by **Mr. SHIRIL LUKE SABU**, IV Semester, M.Sc. course in Marine Geology under the internal guidance of **YAMUNA S.M., Assistant Professor, Department of Marine Geology, Mangalore University** for the partial fulfilment of M.Sc. Degree in Marine Geology.

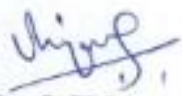


Place: Mangalagangothri  
Date:25-10-2021

  
**Prof. SHIVANNA**  
Chairman,  
Department of Marine Geology  
Mangalore university  
CHAIRMAN  
Department of Marine Geology  
Mangalore University  
Mangalagangothri-574199

### Chairman's Certificate

This is to certify that the dissertation work title "VOLCANOES : A REVIEW" carried out by **Ms.Shreeja S**, IV Semester, M.Sc. course in Marine Geology under the guidance of **YAMUNA S.M.**, Assistant Professor, *Department of Marine Geology, Mangalore University* for the partial fulfilment of M.Sc. Degree in Marine Geology.

  
**Prof. Shivanna**  
**Chairman,**

**Department of Marine Geology**  
**Mangalore university**  
**CHAIRMAN**

Department of Marine Geology  
Mangalore University  
Mangalagangotri-574199



**MANGALORE UNIVERSITY**  
**DEPARTMENT OF MARINE GEOLOGY**  
**MANGALAGANGOTRI, KARNATAKA.**

**Chairman's Certificate**

This is to certify that the dissertation work titled *Temporal Changes in the Landuse and Landcover of Alankaru Village, Kadaba Taluk, Dakshina Kannada District by Using Remote Sensing and Geographic Information System* carried out by Mr. Shreekanth B, IV Semester, M.Sc. course in Marine Geology under the guidance of Dr. B.R. Manjunatha, Professor, Department of Marine Geology, Mangalore University for the partial fulfillment of M.Sc. Degree in Marine Geology.

Place: Mangalagangothri

Date:

Chairman,

Department of Marine Geology

**CHAIRMAN**  
Department of Marine Geology  
Mangalore University  
Mangalagangothri-574199





**MANGALORE UNIVERSITY**  
**DEPARTMENT OF MARINE GEOLOGY**  
**MANGALAGANGOTRI, KARNATAKA.**

---

**Chairman's Certificate**

This is to certify that the dissertation work titled, "Delineation of Ground Water Potential zones of Karadka Region using Geospatial Technology" is carried out by Mr. Shrisha Narayana K A, IV Semester, M.Sc. course in Marine Geology under the guidance of Dr. Priya K, Assistant Professor, Department of Marine Geology. Further, I certify that this work or a part thereof has not been the basis for the award of any degree or diploma.

**Place:** Mangalore University

**Date:**

**Chairman**

Dept. of Marine Geology  
**CHAIRMAN**  
Department of Marine Geology  
Mangalore University  
Mangalagangothri-574199



**MANGALORE UNIVERSITY**

**DEPARTMENT OF MARINE GEOLOGY**

**MANGALAGANGOTRI, KARNATAKA**

**CHAIRMAN'S CERTIFICATE**

This is to certify that dissertation entitled "*Potential Fishing Zone analysis along Karnataka Coast Using Remote Sensing and GIS Techniques*" is carried out by **Mr. SREERAJ M** of fourth semester M.Sc. course in Marine Geology and has satisfactorily completed under the guidance of **Dr. H. Gangadhara Bhat**, Department of Marine Geology, Mangalore University for the partial fulfilment of the requirements for the award of the Degree of Master of Science in Marine Geology.

Place: Mangalagangothri

Date: \_\_\_\_\_



**Dr. Shivanna**

Chairman

Department of Marine Geology

Mangalore University

Mangalagangothri, 574 199

**CHAIRMAN**

Department of Marine Geology

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Mangalagangothri-574199

MANGALORE



UNIVERSITY


DEPARTMENT OF MARINE GEOLOGY

MANGALAGANGOTRI, KARNATAKA

### Chairman's Certificate

This is to certify that the dissertation work titled "Preparation of an Earthquakes/Tsunami events catalog for Andaman & Nicobar Islands and description of the events based on the Geological patterns and Earthquake focal mechanisms" carried out by Mr. SRIVATHSA.K, IV Semester, M.Sc. course in Marine Geology under the external guidance of *Shri Ajay Kumar B., Scientist D, INCOIS* and internal guidance of YAMUNA S.M., Assistant Professor, Department of Marine Geology, Mangalore University for the partial fulfilment of M.Sc. Degree in Marine Geology.

Place: Mangalagangothri  
Date:13-10-2021

  
Prof. SHIVANNA  
Chairman,

Department of Marine Geology  
Mangalore university  
CHAIRMAN

Department of Marine Geology  
Mangalore University  
Mangalagangothri-574199





# MANGALORE UNIVERSITY

DEPARTMENT OF MARINE GEOLOGY


MANGALAGANGOTRI, KARNATAKA.

## Chairman's Certificate

This is to certify that the dissertation work titled, "Morphometric analysis of Mogral river basin of Kasaragod, Kerala" is carried out by Ms. Sruthipambalath, IV Semester, M.Sc. course in Marine Geology under the guidance of Dr. Priya k, Assistant Professor, Department of Marine Geology for the partial fulfilment of M.Sc. Degree in Marine Geology during the year 2019-21. Further, I certify that this work or a part thereof has not been the basis for the award of any degree or diploma.

**Place:** Mangalore University

**Date:**

  
Chairman  
Dept. Marine geology  
Mangalore University  
Mangalagangotri  
**CHAIRMAN**  
Department of Marine Geology  
Mangalore University  
Mangalagangotri-574199





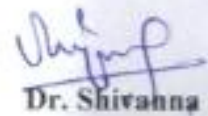
MANGALORE UNIVERSITY  
MANGALAGANGOTHRI – 574199  
DEPARTMENT OF MARINE GEOLOGY

CERTIFICATE

This is to certify that this thesis entitled *“DELINEATION OF SUITABLE SITES FOR THE ARTIFICIAL AUGMENTATION OF GROUNDWATER RECHARGE IN PALLIMAN RIVER BASIN, KOLLAM DISTRICT, KERALA USING GEOSPATIAL TECHNOLOGY”* is an authentic record of the work carried out at Inter University Centre for Geospatial Information Science and Technology, University of Kerala by Ms. SRUTHI SURENDREN of Fourth Semester M.Sc. Marine Geology, Mangalore University in partial fulfilment of the requirements for the award of M.Sc. Degree in Marine Geology, during the year 2021.

Place: Mangalagangothri

Date: October 2021



Dr. Shivanna

Chairman  
Department of Marine Geology  
Mangalore University

**CHAIRMAN**  
Department of Marine Geology  
Mangalore University  
Mangalagangothri-574199

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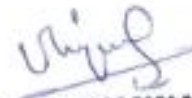
DEPARTMENT OF MARINE GEOLOGY

MANGALAGANGOTRI, KARNATAKA

**Chairman's Certificate**

This is to certify that the dissertation work titled "*Report on the study on spatial variation of granulometric parameters of sediments collected from the continental shelf, off Gujarat, west coast of India*" carried out by Ms. SUDHEESH S.T., IV Semester, M.Sc. course in Marine Geology under the external guidance of Ms. **NISHA N. V., Senior Geologist, Geological Survey of India**, Marine and Coastal Survey Division, Mangalore and internal guidance of **YAMUNA K., Assistant Professor, Department of Marine Geology, Mangalore University** for the partial fulfilment of M.Sc. Degree in Marine Geology.



  
(Prof. SHIVANNA)

Chairman

Department of Marine Geology  
Mangalore university

Place: Mangalagangotri

Date: 13-10-2021

CHAIRMAN  
Department of Marine Geology  
Mangalore University  
Mangalagangotri-574199



**Mangalore University**  
Department of Marine Geology  
Mangalagangothri,  
Karnataka.

---

**Chairman's Certificate**

This is to certify that the dissertation work titled *Assessment of geological and Human influences of Landslide in Talakaveri-Bhagamandala Region of Kodagu district, Karnataka* is carried out by Mr. Suraj B M, IV Semester, M.Sc. course in Marine Geology under the guidance of Dr. B R Manjunatha, Professor, Department of Marine Geology and Dr. Ramesh H, Associate Professor, Department of Hydraulics and Ocean Engineering, National Institute of Technology, Surathkal, Karnataka for the partial fulfilment of M.Sc. Degree in Marine Geology during the year 2019-21. Further, I certify that this work or a part thereof has not been the basis for the award of any degree or diploma.

Place: Mangalagangothri  
Date:



Chairman

Dept. of Marine Geology  
**CHAIRMAN**  
Department of Marine Geology  
Mangalore University  
Mangalagangothri-574199





**Mangalore University**  
Department of Marine Geology  
Mangalagangothri,  
Karnataka.

---

**Chairman's Certificate**

This is to certify that the dissertation work titled *A Study on Landslides of Kodagu District* is carried out by Ms. Veekshitha, IV Semester, M.Sc. course in Marine Geology under the guidance of Dr. Priya. K, Asst. Professor, Department of Marine Geology for the partial fulfilment of M.Sc. Degree in Marine Geology during the year 2019-21. Further, I certify that this work or a part thereof has not been the basis for the award of any degree or diploma.

Place: Mangalagangothri

Date:

  
Chairman

Dept. of Marine Geology  
**CHAIRMAN**  
Department of Marine Geology  
Mangalore University  
Mangalagangothri-574199





**Mangalore**

**University**

**Department of Marine Geology  
Mangalagangothri,  
Karnataka.**

---

### **Chairman's Certificate**

This is to certify that the dissertation work titled *Preliminary Exploration and Characteristics of the Lime Mud Deposits in the offshore of Porbandar, Gujarat, India* is carried out by Ms. Vidya Vincent, IV Semester, M.Sc. course in Marine Geology under the guidance of Dr. B R Manjunatha, Professor, Department of Marine Geology and Mrs. Rachna Pillai, Senior Geologist of GSI, Mangalore for the partial fulfilment of M.Sc. Degree in Marine Geology during the year 2019-21. Further, I certify that this work or a part thereof has not been the basis for the award of any degree or diploma.

**Place:** Mangalagangothri

**Date:**

  
**Chairman**

Dept. of Marine Geology  
**CHAIRMAN**  
Department of Marine Geology  
Mangalore University  
Mangalagangothri-574199