Details of collaborative activities for research, faculty exchange, student exchange, internship, on-the-job training, project work, etc. during the year 2022-23

**Department of Geology** 



This is to certify that the project work entitled "Large Scale Geochemical Mapping of major, minor and trace elements in and around Kodassery, Thrissur District, Kerala, in parts of Toposheet no. 58B/7", submitted to Maharaja's College by Mr. ASWIN S HARI (Reg. No: 21720011) in partial fulfilment for the award of Master of Science in Geology, is an authentic record of original project work carried out by him during the period of the academic year 2021-2023 under the guidance of Sri. RAJESH S, Director, Geological Survey of India, State Unit: Kerala and Lakshadweep, Thiruvananthapuram. Mr. ASWIN S HARI has successfully completed the assigned project by achieving the objectives.

Rajesh S

Director

Geological Survey of India

State Unit: Kerala and Lakshadweep.

Dr. Priya P Menon

Co-ordinator of the Department

ERNAKULAM

Department of Geology,

Maharaja's College Ernakijam.

Place: Ernakulum

Date: 22.05.2023

राजेष् एस./RAJESH S. निदेशक/Director भारतीय भूवैज्ञानिक सर्वेक्षण / Geological Survey of India राज्य इकाई:केरल एवं लक्षद्वीप State Unit: Kerala & Lakshadweep

तिरुवनतपुरम / Thiruvananthapuram - 695013

HEAD DEPARTMENT OF GEOLOGY MAHARAJA'S COLLEGE RRNAKULAM

22/5/2023

This is to certify that the project work entitled "GEOCHEMICAL EVIDENCE FOR HEAVY METAL CONTAMINATION IN THE SEDIMENTS AND WATER ALONG AKKULAM-VELI LAKE AND ITS SURROUNDINGS, THIRUVANANTHAPURAM, KERALA - A RE-EVALUATION" submitted to Maharaja's college by Ms. ATHIRA ANIL S, under my supervision and guidance in the Department of Geology, University of Kerala, Kariavattom Campus.

Dr. DHANIL DEV S.G

Assistant Professor
Department of Geology
University of Kerala
Kariavattom Campus



Dr. PRIYA P MENON

Co-ordinator of the department Department of Geology,

Maharaja's College Ernakulam

Place: Enakular Date: 16/06/23



This is to certify that the project work entitled "QUARRYING AND ITS IMPACTS ON LAND USE LAND COVER MALAPPURAM DISTRICT, KERALA", submitted to Maharaja's college by Ms. ANASWARA ANIL (Reg.No: 21720006) in partial fulfillment for the award of Masters of Science in Geology is an authentic record of original project work carried out by her during the period of the academic year 2021 -2023 under the guidance of Shri.P. Suresh, Scientist, Kerala State Remote Sensing and Environment Centre (KSREC), Vikas Bhavan, Thiruvananthapuram .

P. SURESH

Scientist,

Kerala State Remote Sensing and Environment Centre (KSREC)

Vikas Bhavan, Thiruvananthapuram

Dr. PRIYA P MENON

Co-ordinator of the department OF

Department of Geolog

Maharaja's College Emakulam

Place: Ernakulan

Date: 16/06/23



This is to certify that the project work entitled "FLOOD PRONE AREA DELINIATION, USING GEOSPATIAL TECHNIQUE", submitted to Maharaja's college by Mr. AKARSH UNNI. A (Reg.No: 21720004) in partial fulfillment for the award of Masters of Science in Geology is an authentic record of original project work carried out by his during the period of the academic year 2021 -2023 under the guidance of Shri.P. Suresh, Scientist, Kerala State Remote Sensing and Environment Centre (KSREC), Vikas Bhavan, Thiruvananthapuram.

P. SURESH

Scientist,

Kerala State Remote Sensing and Environment Centre (KSREC)

ERNAKULAN

Vikas Bhavan, Thiruvananthapuram

Dr. PRIYA P MENON

Co-ordinator of the department OF

Department of Geology

Maharaja's College Ernak

mila

HEAD
DEPARTMENT OF GEOLOGY
MAHARAJA'S COLLEGE
ERNAKULAM

Place: Emakulan

Date: 16/06/23



### കൊച്ചി ശാസ്ത്ര സാങ്കേതിക സർവ്വകലാശാല Cochin University of Science and Technology

മറൈൻ ജിയോളജി ആൻഡ് ജിയോഫിസിക്സ് വകുപ്പ് DEPARTMENT OF MARINE GEOLOGY AND GEOPHYSICS

SCHOOL OF MARINE SCIENCES, FINE ARTS AVENUE, KOCHI-682 016, INDIA

### Head of the Department

No. MGD/30(A)/2023-24/17(1)

### **CERTIFICATE**

This is to certify that the dissertation work entitled "DELINEATION OF GROUNDWATER POTENTIAL ZONES IN PULLAMPETTU, TAMIL NADU, USING REMOTE SENSING AND GIS TECHNIQUES" submitted to Maharaja's college, Ernakulam by Mr. ASIF MUHAMMED S (Reg. No:21720010) in partial fulfilment for the award of Masters of Science in Geology is an authentic record of original project work carried out by him during the period of the academic year 2021-2023 under my guidance.

Dr. JOJI V.S

Associate Professor,
Head of the department
Department of Marine Geology & Geophysics,

CUSAT, Ernakulam

Place: Kochi-16

Date: 13.04.2023





This is to certify that the project work entitled "A REVIEW OF TECTONIC EVOLUTION OF MADURAI BLOCK, SOUTHERN INDIA" submitted to Maharaja's College by Mr. DUNIYA RAJ V S (Reg. No: 21720013) in partial fulfillment for the award of Master of Science in Geology is an authentic record of original project work carried out by him during the period of the academic year 2021-2023 under the guidance of Dr. RATHEESH KUMAR R T, Assistant Professor, Department of Marine Geology and Geophysics, Cochin University of Science and Technology, Ernakulam.

Dr. RATHEESH KUMAR R T

Assistant Professor Department of Marine Geology & Geophysics Dr. Ratheesh Kumar R.T
Assistant Professor
Dept. of Marine Geology & Geophysics
School of Marine Sciences
Cochin University of Science & Technology
Lake Side Campus, Fine Arts Avenue, Kochi - 682 016

Cochin University of Science and Technology (CUSAT), Ernakulam

Dr. PRIYA P MENON

Co-ordinator of the department

Department of Geology,

Maharaja's College, Ernal

Place: Ernakulam

Date: 16/06/23

Dr. Priya. P. menon



This is to certify that the project work entitled "CHARACTERISTICS OF THE LEVEE DEPOSITS AND FLOOD IMPACT IN ALUVA REGION: A CASE STUDY BASED ON THE LOCATION PARUNTHU RAANJI FOREST" submitted to Maharaja's college by Mr. YEDUKRISHNAN CR (Reg. No: 20720020) in partial fulfilment for the award of Master of Science in Geology is an authentic record of original project work carried out by him during the period of the academic year 2021-2023 under the guidance of Dr. MOHAMMED NOOHU NAZEER, Assistant Professor, Department of Marine Geology and Geophysics, Cochin University of Science and Technology, Ernakulam.

Dr. MOHAMMED NOOHU NAZEER
Assistant Professor,
Department of Marine Geology & Geophysics
Cochin University of Science and Technology (CUSAT), Ernakulam

Dr. Mohammed Noohu Nazeer
Assistant Professor.
Department of Marine Geology and Geophysics.
School of Marine Sciences.
Lakeside Campus, CUSAT, 682016

Dr. PRIYA P MENON
Co-ordinator of the department
Department of Geology,
Maharaja's College Ernakulam

Place: Ernakulan Date: 16/06/23



This is to certify that the project work entitled "A PRELIMINARY ANALYSIS OF THE MANGROVE SEDIMENTS IN DECIPHERING THE ENVIRONMENTAL FLUCTUATIONS: A CASE STUDY FROM MUNROE ISLAND, KOLLAM" submitted to Maharaja's college by Ms. LINSHA SHIJIN K (Reg. No: 21720017) in partial fulfilment for the award of MASTER of Science in Geology is an authentic record of original project work carried out by her during the period of the academic year 2021-2023 under the guidance of Dr. MOHAMMED NOOHU NAZEER, Assistant Professor, Department of Marine Geology and Geophysics, Cochin University of Science and Technology, Ernakulam.

Dr. MOHAMMED NOOHU NAZEER Assistant Professor, Department of Marine Geology & Geophysics, CUSAT, Ernakulam Dr. Mohammed Noohu Nazeer
Assistant Professor.

Department of Marine Geology and Geophysics School of Marine Sciences. Lakeside Campus, CUSAT, 682016

Dr. PRIYA P MENON Co-ordinator of the department Department of Geology, Maharaja's College Ernakulam

DI OGY \* пелр

DEPARTMENT OF GEOLOGY MAHARAJA'S COLLEGE ERNAKULAM

Place: Ernalulan
Date: 16/06/23



### കൊച്ചി ശാസ്ത്ര സാങ്കേതിക സർവ്വകലാശാല Cochin University of Science and Technology

മറെൻ ജിയോളജി ആൻഡ് ജിയോഫിസിക്സ് വകുപ്പ് DEPARTMENT OF MARINE GEOLOGY AND GEOPHYSICS

SCHOOL OF MARINE SCIENCES, FINE ARTS AVENUE, KOCHI-682 016, INDIA

### Head of the Department

No. MGD/30(A)/2023-24/ /7

### **CERTIFICATE**

This is to certify that the project work entitled "GROUNDWATER POTENTIAL ZONATION OF PUDUCHERRY REGION OF UNION TERITORY PONDICHERRY, SOUTHEAST INDIA; A GEOSPATIAL APPROACH" submitted to Maharaja's college, Ernakulam by MS. ADITHYA V (Reg. No: 21720002) in partial fulfilment for the award of Masters of Science in Geology is an authentic record of original project work carried out by her during the period of the academic year 2021-2023 under my guidance.

Dr Joji V S Associate Professor, Department of Marine Geology & Geophysics,

CUSAT, Ernakulam

Place: Kochi-16 Date: 13.04.2023

10CHI-682 010



This is to certify that the project work entitled "SHORE LINE SHIFTS AND ITS IMPACTS TO HUMAN SETTLEMENTS IN AND AROUND SHANKUMUGAM REGION, THIRUVANTHAPURAM, KERALA" submitted to Maharaja's college by Mr. FAAEZ MUHAMMED BASHEER (Reg. No: 21720014) in partial fulfilment for the award of MASTER of Science in Geology is an authentic record of original project work carried out by him during the period of the academic year 2021-2023 under the guidance Dr. MOHAMMED NOOHU NAZEER, Assistant Professor, Department of Marine Geology and Geophysics, Cochin University of Science and Technology, Ernakulam.

Dr. MOHAMMED NOOHU NAZEER
Assistant Professor,
Department of Marine Geology & Geophysics,
CUSAT, Ernakulam

NTOF

Dr. Mohammed Noohu Nazeer
Assistant Professor,
Department of Marine Geology and Geophysics,
School of Marine Sciences,
Lakeside Campus, CUSAT, 682016

Dr. PRIYA P MENON

Co-ordinator of the department

Department of Geology,

Maharaja's College Ernakulam



This is to certify that the project work entitled "GOLD PLACERS AND IT'S RELATION WITH THE SEDIMENT TEXTURE FROM VADANAPPALLY BEACH, THRISSUR, KERALA" submitted to Maharaja's college by Ms. ARYA KRISHNAN (Reg. No: 21720009) in partial fulfilment for the award of MASTER of Science in Geology is an authentic record of original project work carried out by her during the period of the academic year 2021-2023 under the guidance of Dr. MOHAMMED NOOHU NAZEER, Assistant Professor, Department of Marine Geology and Geophysics, Cochin University of Science and Technology, Ernakulam.

Dr. MOHAMMED NOOHU NAZEER Assistant Professor, Department of Marine Geology & Geophysics, CUSAT, Ernakulam Dr. Mohammed Noohu Nazeer

Assistant Professor.

Department of Marine Geology and Geophysics,
School of Marine Sciences.

Lakeside Campus, CUSAT, 682016

Dr. PRIYA P MENON Co-ordinator of the department Department of Geology, Maharaja's College Ernakulam

Place: Ernakulem Date: 16/06/23 ERNAKULAM COLUMN

Dr. Pricia P. Menor HEAD DEPARTMENT OF GEOLOGY MAHARAJA'S COLLEGE ERNAKULAM



This is to certify that the project work entitled "GEOCHEMISTRY AND WATER QUALITY PARAMETERS OF VEMBANAD LAKE FROM ERNAKULAM REGION, KERALA" submitted to Maharaja's College by Ms. J BASHAYIR AMEER (Reg. No: 21720015) in partial fulfilment for the award of Master of Science in Geology is an authentic record of original project work carried out by her during the period of the academic year 2021-2023 under the guidance of Dr. MOHAMMED NOOHU NAZEER, Assistant Professor, Department of Marine Geology and Geophysics, Cochin University of Science and Technology, Ernakulam.

Dr. MOHAMMED NOOHU NAZEER Assistant Professor, Department of Marine Geology & Geophysics, CUSAT, Ernakulam

Dr. PRIYA P MENON

Co-ordinator of the Department

Department of Geology,

Maharaja's College Ernakulan

Place: Emafulem

Date: 16/06/23

Dr. Mohammed Noohu Nazeer

Assistant Professor.

Department of Marine Geology and Geophysics. School of Marine Sciences.

Lakeside Campus, CUSAT, 682016

Dr. Priya. P. menon



This is to certify that the project work entitled "CHARACTERISATION OF MICROPLASTICS AND IT S POLLUTION IMPACT IN AYIROOR RIVER, THIRUVANANTHAPURAM, KERALA" submitted to Maharaja's college by Mr. ABHINAV S (Reg. No: 21720001) in partial fulfilment for the award of Master of Science in Geology is an authentic record of original project work carried out by him during the period of the academic year 2021-2023 under the guidance of Dr. MOHAMMED NOOHU NAZEER, Assistant Professor, Department of Marine Geology and Geophysics, Cochin University of Science And Technology, Ernakulam.

NTOF

**ERNAKULAM** 

Dr. MOHAMMED NOOHU NAZEER Assistant Professor, Department of Marine Geology & Geophysics, Cochin University of Science And Technology Ernakulam.

Or. Mohammed Noohu Nazeer
Assistant Professor.
Department of Marine Geology and Geophysics.
School of Marine Sciences.
Lakeside Campus, CUSAT, 682016

Dr. Priya P Menon Co-ordinator of the Department Department of Geology, Maharaja's College Ernakulam

Place: Emakulun Date: 16/06/23



This is to certify that the project work entitled "MARINE AGGRESSION AND THE COASTAL CHANGES IN AND AROUND ANCHUTHENGU REGION, THIRUVANATHAPURAM, KERALA" submitted to Maharaja's college by Ms. KAVYA K VENU (Reg. No: 21720016) in partial fulfilment for the award of MASTER of Science in Geology is an authentic record of original project work carried out by her during the period of the academic year 2021-2023 under the guidance of Dr. MOHAMMED NOOHU NAZEER, Assistant Professor, Department of Marine Geology and Geophysics, Cochin University of Science and Technology, Ernakulam.

MENTOR

ERNAKULAM

AJA'S CO

Dr. MOHAMMED NOOHU NAZEER Assistant Professor, Department of Marine Geology & Geophysics, CUSAT, Ernakulam

Dr. PRIYA P MENON Co-ordinator of the department Department of Geology, Maharaja's College Ernakulam

Place: Emakulam Date: 16/06/23 Dr. Mohammed Noohu Nazeer

Assistant Professor.

Department of Marine Geology and Geophysics
School of Marine Sciences.

Lakeside Campus, CUSAT, 682016



This is to certify that the project work entitled "SAND MINING AND ITS ADVERSITIES IN THE NEAR BANKS OF VAMANAPURAM RIVER, THIRUVANANTHAPURAM, KERALA" submitted to Maharaja's college by Mr. SABARINATH V (Reg. No: 21720019) in partial fulfilment for the award of Master of Science in Geology is an authentic record of original project work carried out by him during the period of the academic year 2021-2023 under the guidance of Dr. MOHAMMED NOOHU NAZEER, Assistant Professor, Department of Marine Geology and Geophysics, Cochin University of Science and Technology, Ernakulam.

NTOF

**ERNAKULAM** 

Dr. MOHAMMED NOOHU NAZEER Assistant Professor, Department of Marine Geology & Geophysics, Cochin University of Science And Technology Ernakulam.

Dr. Mohammed Noohu Nazeet
Assistant Professor.

Department of Marine Geology and Geophysics.
School of Marine Sciences.
Lakeside Campus, CUSAT, 682016

Dr. PRIYA P MENON Co-ordinator of the Department Department of Geology, Maharaja's College Ernakulam

Place: Ernakulam Date: 16/06/23 Dr. Priya - P menon HEAD DEPARTMENT OF GEOLOGY MAHARAJA'S COLLEGE ERNAKULAM



This is to certify that the project work entitled "SEDIMENTOLOGICAL CHARACTERISTICS OF PUTHUVYPIN BEACH SEDIMENTS, ERNAKULAM DISTRICT: IMPLICATIONS ON THE ECOLOGY" submitted to Maharaja's college by Mr. ARAVIND K BINOY (Reg. No: 21720008) in partial fulfilment for the award of Master of Science in Geology is an authentic record of original project work carried out by him during the period of the academic year 2021-2023 under the guidance of Dr. MOHAMMED NOOHU NAZEER, Assistant Professor, Department of Marine Geology and Geophysics, Cochin University of Science and Technology, Ernakulam.

ERNAKULA

Dr. MOHAMMED NOOHU NAZEER Assistant Professor, Department of Marine Geology & Geophysics, CUSAT, Ernakulam Dr. Mohammed Noohu Nazeer
Assistant Professor,
Department of Marine Geology and Geophysics,
School of Marine Sciences,
Lakeside Campus, CUSAT, 682016

Dr. PRIYA P MENON Co-ordinator of the department Department of Geology, Maharaja's College Ernakulam

Place: Ernakulam Date: 16/06/23



This is to certify that the project work entitled "A PRELIMINARY STUDY ON HISTORICAL AND GEOLOGICAL SIGNIFICANCE OF FORT KOCHI" submitted to Maharaja's college by Mr. AKSHAY P B (Reg. No: 21720005) in partial fulfilment for the award of Master of Science in Geology is an authentic record of original project work carried out by him during the period of the academic year 2021-2023 under the guidance of Dr. RATHEESH KUMAR R T, Assistant Professor, Department of Marine Geology and Geophysics, Cochin University of Science and Technology, Ernakulam.

> Dr. Ratheesh Kumar R.T **Assistant Professor** Dept. of Marine Geology & Geophysics

School of Marine Sciences Cochin University of Science & Technology

Lake Side Campus, Fine Arts Avenue, Kochi - 682 016

OF GEOLOGY

AHARAJA'S COLLEGE

**ERNAKULAM** 

Dr.RATHEESH KUMAR R T

**Assistant Professor** 

Department of Marine Geology & Geophysics

Cochin University of Science and Technology (CUSAT), Ernakulam

Dr. PRIYA P MENON

Co-ordinator of the department

Department of Geology,

Maharaja's College Ernakulam

Place: Errakulam Date: 16/06/23



This is to certify that the project work entitled "GEOLOGICAL AND HISTORICAL SETTLEMENT OF THE PATTANAM 'THE ANCIENT PORT CITY(MUZIRIS)', KERALA" submitted to Maharaja's college by Ms. ANGEL MARIYA JOSEPH (Reg. No: 21720007) in partial fulfilment for the award of Master of Science in Geology is an authentic record of original project work carried out by her during the period of the academic year 2021-2023 under the guidance of Dr. RATHEESH KUMAR R T, Assistant Professor, Department of Marine Geology and Geophysics, Cochin University of Science and Technology, Ernakulam.

Dr. RATHEESH KUMAR R T Assistant Professor, Department of Marine Geology & Geophysics, CUSAT, Ernakulam

Dr. PRIYA P MENON Co-ordinator of the department Department of Geology, Maharaja's College, Ernakulam

Place: Emakulan Date: 16/06/23 Dr. Ratheesh Kumar R.T
Assistant Professor
Dept. of Marine Geology & Geophysics
School of Marine Sciences
Cochin University of Science & Technology
Lake Side Campus, Fine Arts Avenue, Kochi-682 016

ENTO CAMAHARAJA'S COLLEGE ERNAKULAM

ERNAKULAM



(भारत सरकार का उपक्रम /A Govt. of India Undertaking)
Beach Road, P.B.No.38, Kollam Pin– 691 001, Kerala State, INDIA

Ref No: RC:MPL:STR/7154/292

Date: 31/10/2023

## CERTIFICATE

This is to certify that Ms. **Subi Mole S** Reg. No: 22730010, Student of MSc. Geology *Maharaja's college Ernakulam, 2022-2024 batch has carried out MSc dissertation entitled* **Petrological laboratory analysis and pilot plant processing of mineral sand at IREL (India) Limited, Research Centre, Kollam, Kerala** during *May 2 to May 15, 2023.* 

The academic related dissertation was carried out under the supervision & guidance of Shri. Sabu Joseph Sr. Manager (Minerals). During the dissertation program, the student conducted mineral separation experiments using various lab/pilot plant mineral processing equipment, familiarized with mineralogical analysis of beach sand minerals and submitted a report on the studies conducted.

The conduct of the student was good, and we wish her a bright future.

Sabu Joseph

Sr. Manager - Tech. (Minerals)

for IREL (India) Ltd,



(भारत सरकार का उपक्रम /A Govt. of India Undertaking)
Beach Road, P.B.No.38, Kollam Pin– 691 001, Kerala State, INDIA

Ref No: RC:MPL:STR/7154/ 292

Date: 31/10/2023

# CERTIFICATE

This is to certify that Ms. NIRANJANA BABU Reg. No: 22730008, Student of MSc. Geology (2022-24 Batch, MAHARAJA'S COLLEGE, ERNAKULAM has carried out M.Sc. Internship entitled. Petrological laboratory analysis and pilot plant processing of mineral sand at IREL (India) Limited, Research Centre, Kollam, Kerala during May 2 to May 15, 2023.

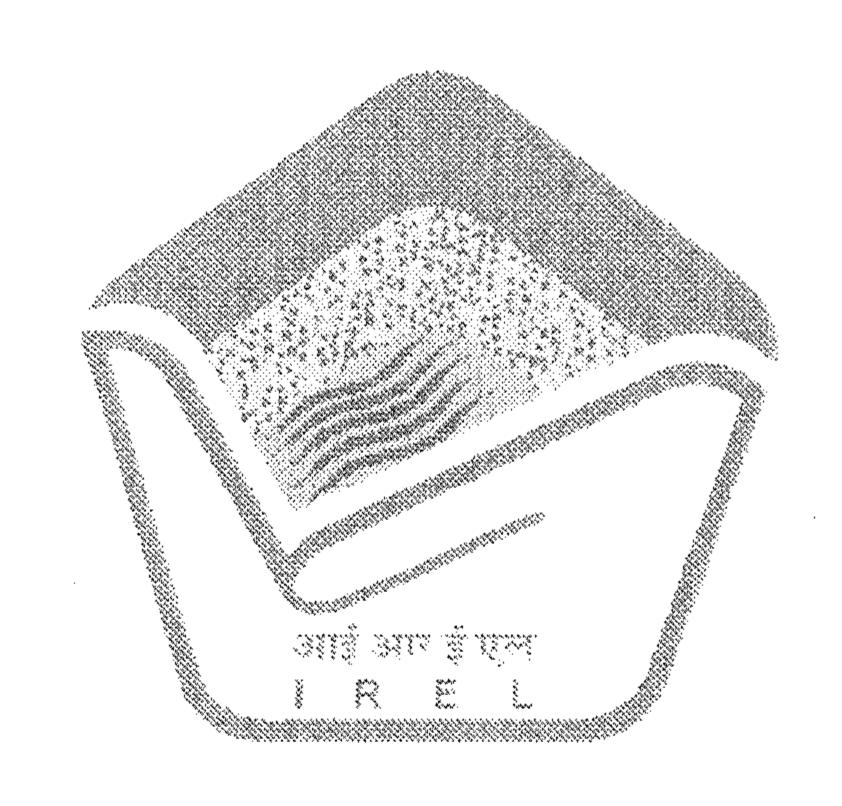
The academic related internship was carried out under the supervision & guidance of Shri. Sabu Joseph Sr. Manager (Minerals). During the internship program, the student conducted mineral separation experiments using various lab/pilot plant mineral processing equipment, familiarized with mineralogical analysis of beach sand minerals and submitted a report on the studies conducted.

The conduct of the student was good, and we wish her a bright future.

Sabu Ioseph

Sr. Manager - Tech. (Minerals)

for IREL (India) Ltd,



(भारत सरकार का उपक्रम /A Govt. of India Undertaking)
Beach Road, P.B.No.38, Kollam Pin– 691 001, Kerala State, INDIA

Ref No: RC:MPL:STR/7154/292

Date: 31/10/2023

## CERTIFICATE.

This is to certify that Ms. **ASHIKA K** Reg. No: 22730003, Student of MSc. Geology (2022-24 Batch, MAHARAJA'S COLLEGE, ERNAKULAM has carried out M.Sc. Internship entitled. **Petrological laboratory analysis and pilot plant processing of mineral sand** at **IREL** (India) Limited, Research Centre, Kollam, Kerala during May 2 to May 15, 2023.

The academic related internship was carried out under the supervision & guidance of Shri. Sabu Joseph Sr. Manager (Minerals). During the internship program, the student conducted mineral separation experiments using various lab/pilot plant mineral processing equipment, familiarized with mineralogical analysis of beach sand minerals and submitted a report on the studies conducted.

The conduct of the student was good, and we wish her a bright future.

Sabu Joseph

Sr. Manager - Tech. (Minerals)

for IREL (India) Ltd,



(भारत सरकार का उपक्रम /A Govt. of India Undertaking)
Beach Road, P.B.No.38, Kollam Pin– 691 001, Kerala State, INDIA

Ref No: RC:MPL:STR/7154/ 292

Date: 31/10/2023

# CERTIFICATE

This is to certify that Ms. NANDHANA A G Reg. No: 22730007, Student of MSc. Geology (2022-24 Batch, MAHARAJA'S COLLEGE, ERNAKULAM has carried out M.Sc. Internship entitled. Petrological laboratory analysis and pilot plant processing of mineral sand at IREL (India) Limited, Research Centre, Kollam, Kerala during May 2 to May 15, 2023.

The academic related internship was carried out under the supervision & guidance of Shri. Sabu Joseph Sr. Manager (Minerals). During the internship program, the student conducted mineral separation experiments using various lab/pilot plant mineral processing equipment, familiarized with mineralogical analysis of beach sand minerals and submitted a report on the studies conducted.

The conduct of the student was good, and we wish her a bright future.

Sabu Joseph

Sr. Manager - Tech. (Minerals)

for IREL (India) Ltd,



### भारतसरकार/

### GOVERNMENT OF INDIA भारतीयभूवैज्ञानिकसर्वेक्षण / GEOLOGICAL SURVEY OF INDIA समुद्रीएवंतटीयसर्वेक्षणप्रभाग/ MARINE & COASTAL SURVEY DIVISION





No.

/F-23015/3/2023-Bhuvisamvad-OPWC-II

### प्रमाणपत्र / CERTIFICATE

This is to certify that internship programme titled "GRANULOMETRIC METHODOLOGIES" is a bonafide record of internship programme done by Ms. KAVYA M J (Regd. No.: 22730005), MSc Geology, Maharaja's College, Ernakulam at Geological Survey of India (GSI), Marine and Coastal Survey Division (M&CSD), Operation West Coast-II, Kendriya Bhavan, Kakkanad, Cochin in the partial fulfilment of requirements for the award of degree of Master of Science (M.Sc.) in Geology during the Academic year 2022–2024 and part of the Bhuvisamvad activities of Geological Survey of India for the year 2023.

Place: Cochin

Date: 17.08.2023



(टी. एन. प्रिया / T.N. Priya)

निदेशक/Direet्न्, प्रिया / T. N. PRIYA निदेशक (भू) एवं कार्यालयाध्यक्ष Director (G) & Head of Office



### भारतसरकार/ GOVERNMENT OF INDIA भारतीयभूवैज्ञानिकसर्वेक्षण / GEOLOGICAL SURVEY OF INDIA समुद्रीएवंतटीयसर्वेक्षणप्रभाग/ MARINE & COASTAL SURVEY DIVISION





No.

/F-23015/3/2023-Bhuvisamvad-OPWC-II

### प्रमाणपत्र / CERTIFICATE

This is to certify that internship programme titled "GRANULOMETRIC METHODOLOGIES" is a bonafide record of internship programme done by Ms. RESHMA R B (Regd. No.: 22730009), MSc Geology, Maharaja's College, Ernakulam at Geological Survey of India (GSI), Marine and Coastal Survey Division (M&CSD), Operation West Coast-II, Kendriya Bhavan, Kakkanad, Cochin in the partial fulfilment of requirements for the award of degree of Master of Science (M.Sc.) in Geology during the Academic year 2022–2024 and part of the Bhuvisamvad activities of Geological Survey of India for the year 2023.

Place: Cochin

Date: 17.08.2023

COASTAL SURVEY DIVISION

(टी. एन. प्रिया / T.N. Priya)

निदेशक (भू) एवं कार्यालयाध्यक्ष Director (G) & Head of Office



This is to certify that the field project work entitled "Geological mapping in parts of toposheet no. 58H/02 to study stratigraphic and structural history also surface encrustation of graphite, in Palode area, Thiruvananthapuram district, Kerala" submitted to Maharaja's college Ernakulum by Shri.AKSHAY S (Regd. No.:2273001), Shri, ANAND S (Regd. No.22730002), Miss. M S DEVIKA (Regd. No.:22730006) and Miss. FARSANA JASMIN(Regd.No.22730004)in partial fulfilment for the award of Master of Science in Geology, is an authentic record of original field mapping carried out by them during the period in the academic year 2022-2023 under the guidance of Sri. RAJESH S,Director, Geological Survey of India, State Unit: Kerala, Thiruvananthapuram. The above candidates have successfully completed the assigned project by achieving the objectives.

> राजेष एस./RAJESHS. निवंशका/Director भारतीय मुदेश कि चर्चाम (Geological Survey of India Shri.Rajesh S State Unit Service & Cale outsily

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Director

State Unit: Kerala & Lakshadweep

02/11/2023

Geological Survey of India Thiruvananthapuram, Kerala

Place: Thiruvananthapuram

Date: 02/11/2023