



# THE COCHIN COLLEGE

Koovapadam, Kochi-2

Affiliated To Mahatma Gandhi University

Re-accredited by NAAC With B+ Grade



Fourth Cycle  
NAAC Accreditation 2024

## Criterion 1 Curricular Aspects

### 1.3 - Academic Flexibility

Metric No. 1.3.2

Percentage of students undertaking project work/field work/ internships

### Internships - Evidences

Submitted to



National Assessment and Accreditation Council



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email: [email@thecochincollege.edu.in](mailto:email@thecochincollege.edu.in)

## Declaration of Principal

This is to certify that following **77 students** from three Programmes, Master of Commerce & Management, MSc Chemistry and B.Sc Chemistry have completed Internship during the academic year 2023-2024

Sl. No	Title of the Program	Number of Students.
1	Master of Commerce & Management	21
2	Bsc Chemistry	42
3	Msc Chemistry	14
<b>Total</b>		<b>77</b>





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### 1.3.2 List of students who undertook Internship from Department of Commerce (MCM) during the year 2023-24

SL NO	PROGRAMME NAME	NAME OF STUDENT	PROJECT WORK/ FIELD/INTERNSHIP
1	MCM	Stefy Samson	INTERNSHIP
2	MCM	Sahadiya A Y	INTERNSHIP
3	MCM	SAMUEL ROY	INTERNSHIP
4	MCM	RAMLATH P. S	INTERNSHIP
5	MCM	NIVEDITHA M.	INTERNSHIP
6	MCM	MUHAMMED ASLAM K S	INTERNSHIP
7	MCM	Bhagyalakshmi S Dheer	INTERNSHIP
8	MCM	Ashika M A	INTERNSHIP
9	MCM	Anulakshmi A B	INTERNSHIP
10	MCM	Ansu mol shaji	INTERNSHIP
11	MCM	Sivaprasad P P	INTERNSHIP
12	MCM	ROHIL R.	INTERNSHIP
13	MCM	ANAND KRISHNA P K	INTERNSHIP
14	MCM	Adhil P A	INTERNSHIP
15	MCM	Anamika M	INTERNSHIP
16	MCM	Nivya V V	INTERNSHIP
17	MCM	Afrin Baiju	INTERNSHIP
18	MCM	Jumana V. J.	INTERNSHIP
19	MCM	Krishna V. M.	INTERNSHIP
20	MCM	Sivaprasad P P	INTERNSHIP
21	MCM	Sudhin U	INTERNSHIP





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## REPORT ON INDUSTRIAL TRAINING AT LACHMANDAS TRADING COMPANY

Internship Report Submitted to Mahatma Gandhi University in Partial Fulfillment of the Requirements for the Degree of Master of Commerce and Management

BY

ADHIL P A

Reg No - 220011010261

Under The Guidance Of

Dr.REKHA P G



THE COCHIN COLLEGE

COCHIN-682002





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email: [email@thecochincollege.edu.in](mailto:email@thecochincollege.edu.in)

## DECLARATION

I *Adhil P A* do here by declare that this Dissertation titled 'INDUSTRIAL TRAINING REPORT- LAKSHMANDAS TRADING COMPANY' has been prepared by me under the guidance of Dr.REKHA P G

Date:

Place:

Adhil P A





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## ACKNOWLEDGEMENT

First I would thank you with all my heart for providing me with the strength and wisdom to complete the study and prepare this report in time. Without the support, patience, and guidance of the following people, my project would not have been completed. It is to them; I owe my deepest gratitude. I express my heartfelt thanks to Dr. Geetha M Principal of The Cochin College, and Dr. Rekha P G Head of Department of Commerce. I acknowledge my sincere gratitude to my project guide Dr. Rekha P G, The Cochin College, Kochi for the valuable help and guidance and rendered to me and for the strenuous and continuous effort she has put in by being with me during every stage of work. Also take the privilege to extend my hearty thanks to the entire faculty members of the Department of Commerce for their solid support and blessing. I also thank all the respondents for their kind cooperation in answering patiently. Last but not the least the support from my parents and classmates enabled me to finish the project successfully and also made it a worthwhile experience.





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## TO WHOMSOEVER IT MAY CONCERN

Date: 4<sup>th</sup> November 2023

This is to certify that *Mr. Adhil P A*, 3<sup>rd</sup> Semester MCM (Master of Commerce and Management) student of The Cochin College, Kochi, has completed his Internship in Logistics at the Firstcry division of Lachmandas Trading Company, Devi Complex, Doraiswamy Iyer Road, Ernakulam, Kerala – 682 035 from 16.10.2023 to 30.10.2023.

We wish him all the very best in his future endeavours.

SUSHEEL D. ASWANI

Proprietor

Lachmandas Trading Company



H.O.: Door No. 12/561 B, Pandikudy Road, Mattancherry, Kochi - 682 002

Phone : 0484 - 2227800 Email: [aswani.susheel@gmail.com](mailto:aswani.susheel@gmail.com) / [deepakaswani.cochin@gmail.com](mailto:deepakaswani.cochin@gmail.com)

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Phone: 0484 - 2382190, 2363898

Rotary Tower, 95/314 (1) Poonithi Road, Kumarapuram, Medical College P.O., Thiruvananthapuram - 695 011







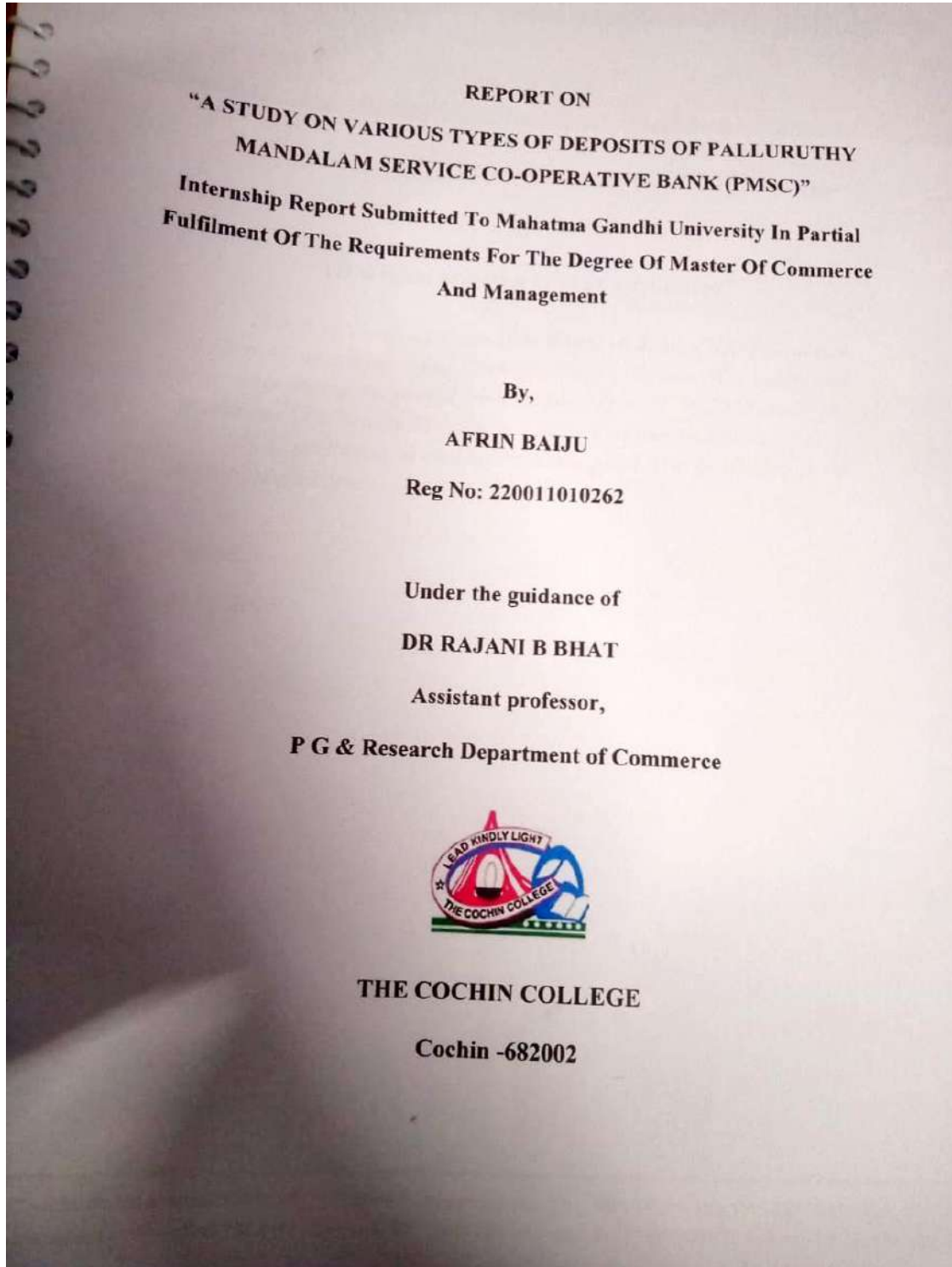
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REPORT ON

INDUSTRIAL TRAINING

LVS & CO CHARTERED ACCOUNTANTS

A dissertation submitted to Mahatma Gandhi University in partial fulfillment of the requirements for the Internship Project in Master of Commerce and Management

By

ANAMIKA M

Under the Guidance of

Ummiraja PS



POST GRADUATE AND RESEARCH DEPARTMENT OF COMMERCE

THE COCHIN COLLEGE

Cochin – 682002





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## DECLARATION

I Anamika M do hereby declare that this dissertation titled 'Industrial Training Report on 'LVS & CO Chartered Accountants' has been prepared by me under the guidance of unniraja PS and CA Jairam Bhatt R B B.Com FCA.

Date:

Place:

Anamika M





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## CERTIFICATE

This is to certify that the project work entitled Industrial Training report LVS & CO Chartered Accountants has been carried out by *Anamika M* under the supervision of *unniraja PS* in the partial fulfillment of the requirement of the completion of the Internship Project during the academic year 2023-2024. The internship was undertaken at LVS & CO Chartered Chartered Accountants' for a period of 15th October 2023 to 28th October 2023.

Signature of the Internal Mentor:

Name of the Internal Mentor:

Signature of the Head of the Department:

Name of the Head of the Department:





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## THE KUNNAMKULAM CO-OPERATIVE URBAN BANK LTD. NO. 698

H.O. KUNNAMKULAM, BR. VATTAMPADAM

Phone (H.O) : 222698, Br. : 210099

Date : .....

### CERTIFICATE

This is to Certify that **Mr. Anand Krishna P K** (Reg No:220011010265), Student pursuing Masters of commerce and management (III semester) of the Cochin College, Ernakulam has successfully completed his internship program in our bank during the period From 14<sup>th</sup> October 2023 to 30<sup>th</sup> October (15 days) successfully under my guidance.

His performance was good during the training period. We wish him all the best in future career.



*[Signature]*  
Secretary  
Kunnampulam Co-operative  
Urban Bank Ltd.

Place : Kunnampulam

Date : 31-10-2023





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## REPORT ON INTERNSHIP

### LVS & CO CHARTERED ACCOUNTANTS

Submitted to Mahatma Gandhi University in Partial Fulfillment of the Requirements for the Degree of Master of Commerce and Management

By

ANSU MOL SHAJI

(Reg. No: 220011010266)

Under the Guidance of

Dr. KOCHUTHRESIA JOSE

Assistant Professor

P.G. AND RESEARCH DEPARTMENT OF COMMERCE



THE COCHIN COLLEGE Cochin – 682002





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## DECLARATION

I **Ansu Mol Shaji** do hereby declare that this internship report titled **LVS & CO Chartered Accountants** has been prepared by me under the guidance of Dr. Kochuthresia Jose, internal mentor and CA Jairam Bhatt R B B.com FCA, external mentor.

Date:

Place:

Ansu Mol Shaji





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The Cochin College Cochin – 682002

## CERTIFICATE

This is to certify that the report entitled internship report LVS & CO Chartered Accountants has been carried out by *Ansu Mol Shaji* under the supervision of *Dr. Kochuthresia Jose* in the partial fulfillment of the requirement of the completion of the internship report during the academic year 2023-2024. The internship was undertaken at LVS & CO Chartered Accountants for a period of 14th October 2023 to 28th October 2023.

Signature of the Internal Mentor:

Name of the Internal Mentor:

Signature of the Head of the Department:

Name of the Head of the Department:







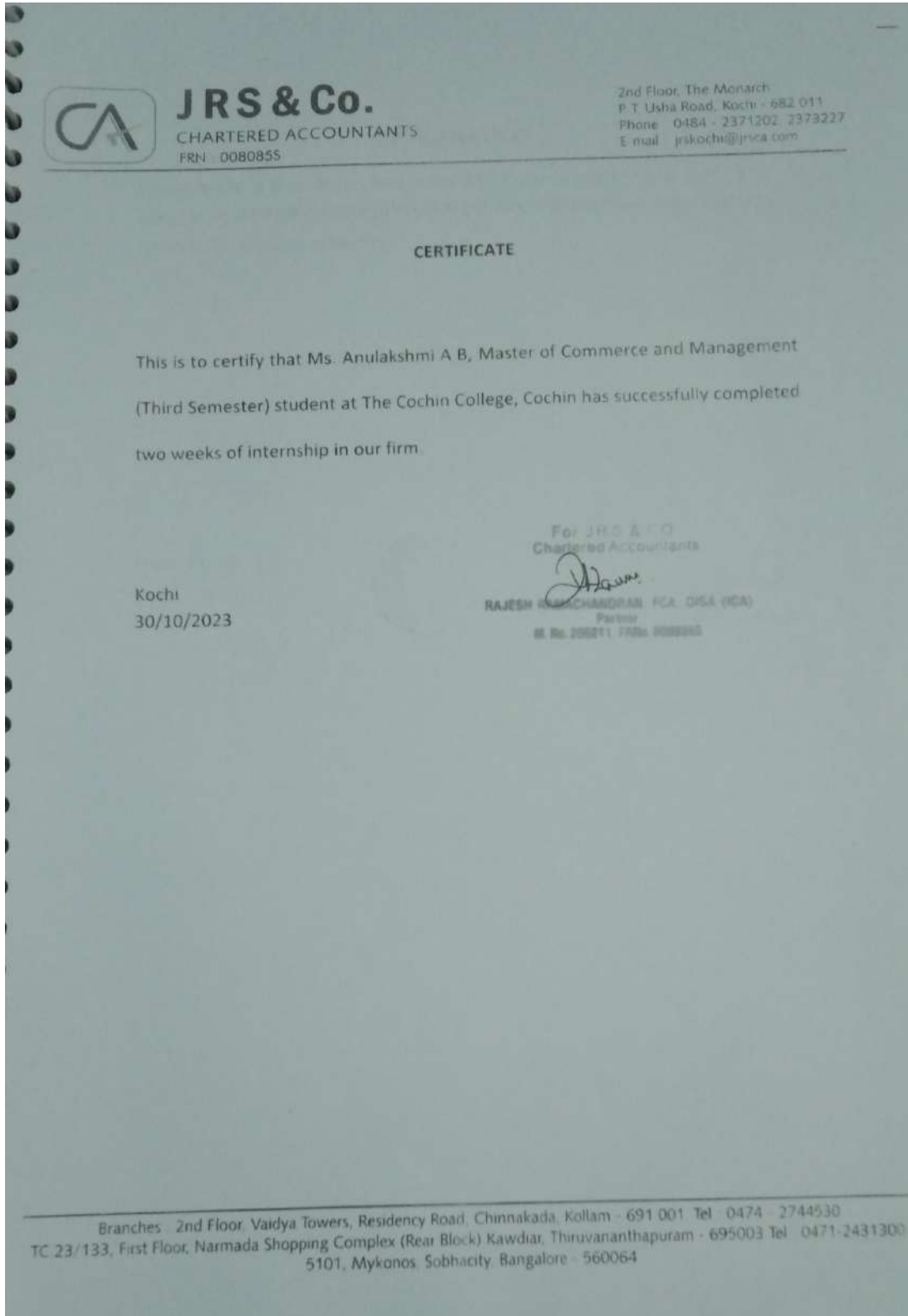
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REPORT ON  
THE ANALYSIS OF SERVICES PROVIDED BY JRS AND CO.

Internship Report Submitted to Mahatma Gandhi University in  
Partial Fulfilment of the Requirements for the Degree of Master of  
Commerce and Management

By,

ANULAKSHMI A B

REG NO 220011010267

UNDER THE GUIDANCE OF

Dr ANU L

POST GRADUATE AND RESEARCH DEPARTMENT OF COMMERCE



THE COCHIN COLLEGE

Cochin - 682002





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## REPORT ON INDUSTRIAL TRAINING

**CATAMARAN ENTERPRISES LLP**  
MEMBER OF THOMAS COOK GOLD CIRCLE

Internship Report Submitted to Mahatma Gandhi University in Partial  
Fulfilment of the Requirements for the Degree of Master of Commerce and  
Management

BY

**ASHIKA.M.A.**  
REG NO :220011010268

Under the  
Guidance of

**Dr. HARIPRIYA.B.B**

Assistant Professor

P.G and Research Department of commerce



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1

1





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## DECLARATION

I ASHIKA.M.A do hereby declare that this dissertation titled 'Industrial Training Report Catamaran member of Thomas cook gold circle been prepared by me under the guidance of Dr. HARIPRIYA.B.B

Date:

Place:

ASHIKA.M.A

2

2





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## CERTIFICATE

This is to certify that the project work entitled Industrial Training report at Catamaran Enterprises member of Thomas cook gold circle has been carried out by ASHIKA.M.A under the supervision of Dr. HARIPRIYA.B.B in the partial fulfilment of the requirement of the completion of the Internship Project during the academic year 2023-2024. The internship was undertaken at CATAMARAN ENTERPRISES LLP for a period of 14<sup>TH</sup> October 2023 to 28<sup>TH</sup> October 2023

Signature of the Internal Mentor:

Name of the Internal Mentor:

Signature of the Head of the Department:

Name of the Head of the Department:

3

3





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## WHOMSOEVER IT MAY CONCERN

This is certify that **MS. Ashika .M.A D/O Ashokan** ,student of the **Cochin College, Cochin, Master of commerce and management** has successfully completed her internship study from 14TH October, 2023 to 28th October,2023.

During this period of her internship program, she had been exposed to different processes and hereby stated that she was good on her work and assignments to the best of our knowledge.

We wish her every success in life.

Warms regards

**MR. ANEEZ ABDUL SATHAR**

MANAGER

Catamaran Enterprises LLP.



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**Mrudula Menon V.**  
Principal-in-Charge  
The Cochin College



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## REPORT ON INTERNSHIP

### LVS & CO CHARTERED ACCOUNTANTS

Submitted to Mahatma Gandhi University in Partial Fulfillment of the Requirements for the Degree of Master of Commerce and Management

By

**BHAGYALAKSHMI S DHEER**

(Reg. No: 220011010269)

Under the Guidance of

**Dr. LIANCE MATHEW**

Assistant Professor

**P.G. AND RESEARCH DEPARTMENT OF COMMERCE**



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## DECLARATION

I Bhagyalakshmi S Dheer do hereby declare that this internship titled 'Industrial Training Report on LVS & CO Chartered Accountants' has been prepared by me under the guidance of Dr Liance Mathew, internal mentor and CA Jairam Bhatt R B B.Com FCA, external mentor.

Date:

Place:

Bhagyalakshmi S Dheer





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## CERTIFICATE

This is to certify that the project work entitled Industrial Training report LVS & CO Chartered Accountants has been carried out by *Bhagyalakshmi S Dheer* under the supervision of *Dr Liance Mathew* in the partial fulfillment of the requirement of the completion of the Internship Project during the academic year 2023-2024. The internship was undertaken at LVS & CO Chartered Accountants' for a period of 15th October 2023 to 28th October 2023.

Signature of the Internal Mentor:

Name of the Internal Mentor:

Signature of the Head of the Department:

Name of the Head of the Department:





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## ACKNOWLEDGEMENT

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I express my heartfelt thanks to Dr. Geetha M, Principal, Cochin College, Kochi, and Dr. Rekha P G, Head of the department of commerce.

I acknowledge my sincere gratitude to my project guide Dr. Liance Mathew, Department of commerce, The Cochin College, Kochi for the valuable help and guidance rendered to me and for the strenuous and continuous effort she has put in by being with me during every stage of the work. Also, take the privilege to extend my hearty thanks to the entire faculty members of the department of Commerce for their solid support and blessing.

I also thank all the respondents for their kind cooperation in answering patiently. Last but not least, the support from my parents and classmates enabled me to finish the project successfully and also made it a worthwhile experience.

Bhagyalakshmi S Dheer





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Tel : 9895837474 / 0484 2926267  
E-mail : [info@catamaranenterprises.com](mailto:info@catamaranenterprises.com)


TO WHOMSOEVER IT MAY CONCERN

This is certify that MS. **Jumana VJ. D/O Jamaludheen** ,student of the **Cochin College, Cochin, Master of commerce and management** has successfully completed her internship study from 14TH October, 2023 to 28th October,2023.

During this period of her internship program ,she had been exposed to different processes and hereby stated that she was good on her work and assignments to the best of our knowledge.

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**MR. ANEEZ ABDUL SATHAR**


MANAGER

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**Principal-in-Charge**  
**The Cochin College**



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TO WHOM SOEVER IT MAY CONCERN

This is to certified that Krishna V M, student of 3rd semester, M.com management, The Cochin college, Kochi has completed internship during the period from 16. 10. 2023 to 31.10. 2023 under the guidance of Dreamcasters Holidays, Trivandrum.

Her performance and conduct are good we wish her all the best in future career.

For Dreamcasters Holidays

  
Ravi Raj IV  
Managing Partner



Dreamcasters Holidays



Phone: 0484 2224954, 2226449



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## REPORT ON INTERNSHIP

SUNIL KUMAR S CHARTERED ACCOUNTANTS

Submitted to Mahatma Gandhi University in partial fulfilment of the  
Requirements for the Degree of Master of Commerce and Management

By

**MUHAMMED ASLAM K S.**

(Reg No: 220011010273)

Under the Guidance of

**Dr. ANUPAMA R.**

Assistant professor

PG and Research Department of Commerce



THE COCHIN COLLEGE

Cochin-682002





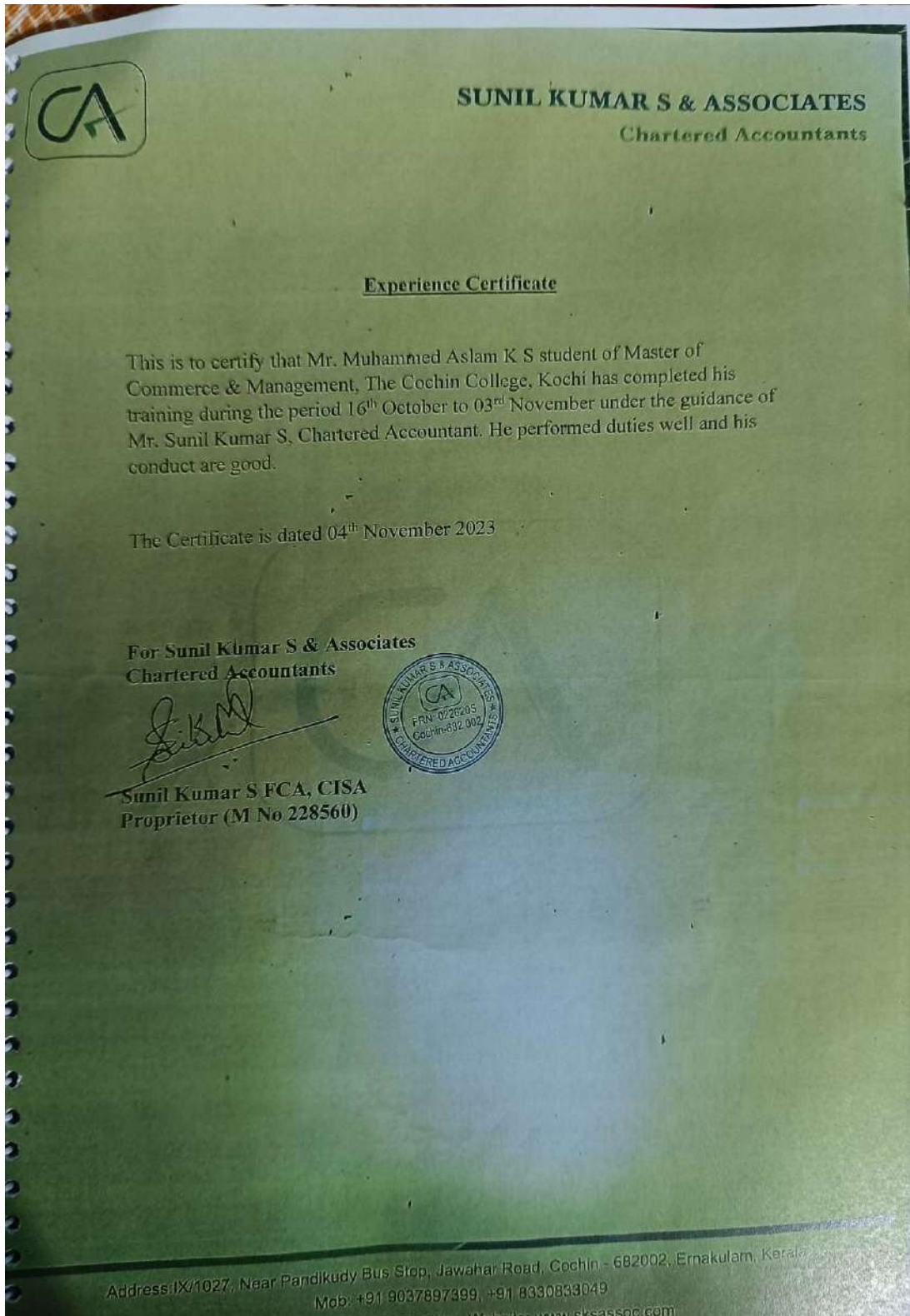
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*Mendula Menon*  
**Mrudula Menon V.**  
 Principal-in-Charge  
 The Cochin College



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## REPORT ON INTERNSHIP

THRIKKALANGODE SERVICE CO-OPERATIVE BANK, MALAPPURAM

Submitted to Mahatma Gandhi University in Partial Fulfilment of the  
Requirements for the Degree of Master of Commerce and Management

BY

NIVEDITHA M

(Reg. No: 220011010274)

UNDER THE GUIDANCE OF

UNNI RAJA P S

Assistant Professor

P.G. AND RESEARCH DEPARTMENT OF COMMERCE



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682002







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## CERTIFICATE

This is to certify that the report entitled Thrikkalangoode Service Co-operative Bank has been carried out by Niveditha.M under the supervision of Unniraja P S, Department of Commerce, the partial fulfillment of the requirement of the completion of the Degree of Master of Commerce and Management during the academic year 2023-2024. The internship was undertaken at The Thrikkalangoode Service Cooperative Bank, Malappuram for a period of 15 days.

Signature of the Internal Mentor:

Name of the Internal Mentor: UNNIRAJA PS

Signature of the Head of the Department: *Reckha*

Name of the Head of the Department: DR. RECKHA P G





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## REPORT ON

“A STUDY ON VARIOUS TYPES OF DEPOSITS OF PALLURUTHY  
MANDALAM SERVICE CO-OPERATIVE BANK (PMSC)”

Internship Report Submitted To Mahatma Gandhi University In Partial  
Fulfilment Of The Requirements For The Degree Of Master Of Commerce  
And Management

By,

NIVYA V V

Reg No: 220011010275

Under the guidance of

DR LAKSHMI SREE R

Assistant professor,

P G & Research Department of Commerce



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**PALLURUTHY MANDALAM SERVICE CO-OPERATIVE BANK LTD. No. 65**

H.O: KUMBALANGHI VAZHI, PALLURUTHY, KOCHI-682 006

ISO 9001:2015 CERTIFIED

Estd: 1919

Phone : 0484 2231904, E mail - [pmscbank@gmail.com](mailto:pmscbank@gmail.com), web : [www.pmscbank.com](http://www.pmscbank.com)

Date : .....

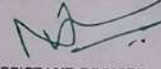
**TO WHOM SOEVER IT MAY CONCERN**

*This is to certify that Nivya V V, student of IIIrd Semester M.Com Management , The Cochin college , Kochin, has completed internship during the period from 16.10.2023 to 31.10.2023 under the guidance of Palluruthy Mandalam Service Co operative Bank.*

*His performance and conduct are good. We wish him all the best in future career.*

Palluruthy

01.11.2023



ASSISTANT REGISTRAR OF  
CO-OPERATIVE SOCIETIES / SECRETARY  
PALLURUTHY MANDALAM  
SERVICE CO-OPERATIVE BANK LTD. NO. 65  
COCHIN-6

BRANCHES : Kumbalangi Vazhi, Ph : 2233874 | Thoppumpady, Ph : 2232441 | Nada, Ph : 2231341 | Veli, Ph : 2231145  
Perumpadappu, Ph : 2327797 | Mundamveli, Ph : 2237766 | Konam, Ph : 2232904 | Chemmeens Jn., Ph : 2925061





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## REPORT ON INDUSTRIAL TRAINING

### LACHMANDAS TRADING COMPANY

Internship Report Submitted to Mahatma Gandhi University in  
partial fulfillment of the requirements for the Degree of Master of  
Commerce & Management

BY

RAMLATH P S

(220011010276)

Under The Guidance Of  
Dr.KOCHUTHRESIA JOSE



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## DECLARATION

I RAMLATH P S do here by declare that this Intership Report titled 'INDUSTRIAL TRAINING REPORT- LACHMANDAS TRADING COMPANY' has been prepared by me under the guidance of Dr.KOCHUTHRESIA(Internal Mentor) and RIYA(External Mentor)

DATE :

PLACE :

RAMLATH P S





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## CERTIFICATE

This is to certify that the project work entitled Industrial Training Report Lachmandas Trading Company has been carried out by RAMLATH P S under the supervision of Dr.KOCHUTHRESIA JOSE in the partial fulfilment of the requirement of the completion of the Internship Project during the academic year 2023-2024. The internship was undertaken at Lachmandas Trading Company for a period of 16 October 2023 to 30 October 2023.

Signature of the Internal Mentor

Name of the Internal Mentor

Signature of the Head of The Department

Name of the Head of the Department





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## ACKNOWLEDGEMENT

First I would thank you with all my heart for providing me with the strength and wisdom to complete the study and prepare this report in time. Without the support, patience, and guidance of the following people, my project would not have been completed. It is to them; I owe my deepest gratitude. I express my heartfelt thanks to Dr. Geetha M Principal of The Cochin College, and Dr. Rekha P G Head of Department of Commerce. I acknowledge my sincere gratitude to my project guide Dr. Kochutresia Jose, The Cochin College, Kochi for the valuable help and guidance and rendered to me and for the strenuous and continuous effort she has put in by being with me during every stage of work. Also take the privilege to extend my hearty thanks to the entire faculty members of the Department of Commerce for their solid support and blessing. I also thank all the respondents for their kind cooperation in answering patiently. Last but not the least the support from my parents and classmates enabled me to finish the project successfully and also made it a worthwhile experience.

RAMLATH PS





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## INTRODUCTION

### 1 INTRODUCTION

This industrial training report emphasizes on the experience and knowledge I have gathered as an intern at Lachmandas Trading Company for a period of 16 October 2023 to 30 October 2023.

The industrial training is undertaken in the trading company. This provide an excellent opportunity to acquire first hand experience in accounts. The training indent to provide a chance to get to know the actual application of all theoretical concept in real life situation.

#### 1.1 ABOUT INSTITUTION

**Aswani Lachmandas Group** is a leading business group based in Kochi. Established in 1950, the group had a humble beginning by the founder and Late Chairman Mr. Lachmandas Aswani as the distributor for ITC products in Wayanad district, Kerala under the name Lachmandas & Sons. Later, the business got firm footholds and expanded to Trivandrum, and subsequently to Kochi during the period 1950-1955. Soon the group got established as the biggest distributor for ITC in India. The group advanced into the textile industry in the 1970's by opening a DCM retail showroom which was the first in Kerala. In 1976, the group opened the first showroom for Bombay Dyeing in Kerala. The group expanded the business with the joining of next generation, Mr. Deepak L. Aswani and Mr. Vishnudas L. Aswani. In 1986, the group opened an exclusive Raymond store at MG road, Kochi, which was the first showroom for Raymond in Kerala. The group was the first to bring many brands in Kerala including Raymond, DCM and Bombay Dyeing. In 1998, the group succeeded in opening the second showroom for Raymond which is situated at Marine Drive, Kochi. The group has always been innovative and diversified the business by also starting to work as the carrying and forwarding agency for Bombay Dyeing. In 2005, The group was the first to introduce a factory outlet concept in Kerala through Priceless and a Raymond Factory Outlet. In 2006, the group opened a 20000 sq.ft lifestyle showroom, which was the first of its kind to be introduced in Kerala, with all sorts of luxuries like a beauty salon, an ayurvedic spa, accessories, books, sweets, home furnishing, footwear etc





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besides premium fashion apparel for the entire family. With the third generation joining the group, the business got further expanded: The group now has 4 ITC distribution points in Ernakulam city, Nettoor, Fort Kochi & Vaikom, an exclusive distribution point for Modern Trade based in Nettoor, besides newly opened showrooms for The Raymond Shop & Made-to-Measure at Lulu Mall, and also Park Avenue & ColorPlus stores at the Centre Square Mall.

## 1.2 VISION

Aswani Lachmandas Group typically envisions itself as a business that buys goods in bulk from manufacturers and sells them in large quantities to retailers or other business. The vision often includes aspects like efficient supply chain management, cost-effective operations, strong vendor relationships, and meeting the diverse needs of clients. Success in the wholesale trading sector often hinges on adaptability, competitive pricing, and excellent customer service.

## 1.3 MISSION

The mission of Aswani Lachmandas Group generally involves efficiently sourcing and supplying goods in bulk to retailers, businesses, or other distributors. Key aspects often include streamlining the supply chain, providing cost-effective solutions, maintaining inventory levels, and offering reliable delivery services. The mission may also emphasize building strong relationships with suppliers and customers, optimizing logistics, and ensuring the overall efficiency of the distribution process to meet the needs of the market.

## 1.4 CORPORATE OBJECTIVE

The corporate objective of a Aswani Lachmandas Group typically revolves around efficient supply chain management, timely delivery of products, cost optimization, and customer satisfaction.





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## 1.5 MANAGEMENT-BOARD OF DIRECTORS

### Mr. Deepak L. Aswani

(Chairman & MD of the Group,

Co-Chair of FICCI Kerala Chapter,

Managing Committee Member of Kerala Management Association,

Chairman, Cigarette & Tobacco Dealers Association, Kerala,

Member, Better Kochi Response Group,

Member, Retailers Association of India,

Member, Business Advisory Committee, Additional Skill Acquisition Programme,

Past Chairman of Kerala Chamber of Commerce & Industry,

Charter Member of the The Indus Entrepreneurs (TIE), Kerala Chapter)

### Mrs. Jyothi Aswani

(MD, Textile group, Convenor of Ladies Forum of the KCCI, Member of Inner wheel, Toastmasters)

### Mr. Prakash Deepak Aswani

(Managing Partner, ITC distribution division,

Founder - OmniKio, Imkio & Wazzup Interactive Kiosk,

Member of the Board of Directors of Rotary Club of Cochin,

Awarded National Best Secretary of Round Table India (2014-15) with Cochin Backwater Round Table 131,

Gold Medallist from IIT, Kanpur; Has Experience managing Sales & Distribution for ITC in Andhra Pradesh, Rajasthan & Haryana

and also Key Accounts in the Eastern Region of India)





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## Mr Susheel D Aswani

(Managing Partner, ITC distribution division,

President of the Rotary Club of Cochin 2017-18,

Gold Medallist from Symbiosis Institute of Business Management, Pune; Has Experience managing Key Accounts for

GlaxoSmithKline in the Northern Region of India)

### 1.6 MILESTONE

**1. Foundation:** Establishment of the distribution company, marking the beginning of its operations in the FMCG sector.

**2. Expansion of Product Portfolio:** Gradual expansion of the range of FMCG products distributed, increasing the company's market presence.

**3. Geographical Expansion:** Expansion into new regions or markets, broadening the distribution network.

**4. Technological Integration:** Adoption of technology for inventory management, order processing, and other logistics to enhance efficiency.

**5. Partnerships and Collaborations:** Formation of strategic partnerships with FMCG manufacturers and brands to strengthen the product portfolio.

**6. Supply Chain Optimization:** Continuous efforts to improve supply chain processes, reducing lead times and ensuring timely deliveries.

**7. Market Penetration:** Achieving significant market penetration by reaching a larger customer base and serving diverse retail outlets.

**8. Customer Satisfaction:** Focus on customer satisfaction through reliable delivery services, product availability, and responsive customer support.







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**9. Brand Recognition:** Building a strong reputation and brand recognition in the FMCG distribution industry.

**10. Sustainability Initiatives:** Integration of sustainability practices in distribution processes, aligning with evolving consumer preferences.

## 1.7 FUTURE PLANS

1. **Expansion:** Companies may plan to expand their distribution network to reach new markets or serve existing markets more efficiently. This could involve opening new warehouses, distribution centers, or establishing partnerships with local distributors.
2. **Technology Integration:** Investing in technology can enhance efficiency in distribution processes. Companies may explore automation, artificial intelligence, and data analytics to streamline operations, reduce costs, and improve overall supply chain management.
3. **Supply Chain Optimization:** Distributors often look for ways to optimize their supply chains to minimize costs and improve delivery times. This may involve reevaluating transportation routes, inventory management systems, and supplier relationships.
4. **Sustainability Initiatives:** Many companies are increasingly focused on sustainability. Future plans may include implementing environmentally friendly practices in packaging, transportation, and overall operations to reduce the environmental impact of their supply chain.
5. **E-commerce and Digital Presence:** The rise of e-commerce has transformed the distribution landscape. Companies may plan to enhance their online presence, invest in e-commerce platforms, and improve the digital customer experience.
6. **Customer Service Improvements:** Enhancing customer service and satisfaction is a priority for many companies. This could involve improving order tracking systems, providing faster delivery options, and offering better customer support.
7. **Market Research and Adaptation:** Staying competitive requires a deep understanding of market trends and consumer preferences. Distributors may invest in market research to adapt their product offerings and distribution strategies accordingly.





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8. **Regulatory Compliance:** Changes in regulations and trade policies can impact distribution companies. Future plans may include staying updated on regulatory changes, ensuring compliance, and adjusting operations accordingly.

## 1.8 SWOT ANALYSIS

A SWOT analysis is a strategic planning tool that helps organizations identify their internal strengths and weaknesses, as well as external opportunities and threats. Here's a sample SWOT analysis for a distribution company:

### Strengths:

1. **Efficient Logistics and Operations:**
  - The company may have a well-established and efficient distribution network, allowing for quick and accurate order fulfillment.
2. **Technology Advanced Integration:**
  - Utilization of modern technologies such as Warehouse Management Systems (WMS) and Enterprise Resource Planning (ERP) systems to enhance operational efficiency.
3. **Experienced Team:**
  - A skilled and experienced workforce knowledgeable in supply chain and distribution processes.
4. **Diverse Product Portfolio:**
  - Offering a wide range of products, catering to diverse customer needs and potentially expanding market reach.
5. **Strong Supplier Relationships:**
  - Establishing strong relationships with suppliers, ensuring a reliable and timely flow of inventory.





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## Weaknesses:

### 1. Limited Geographic Coverage:

- If the company operates in a restricted geographic area, there may be opportunities for expansion into new markets.

### 2. Dependence on Specific Suppliers:

- Over-reliance on a few suppliers can pose a risk in the event of disruptions or changes in supplier relationships.

### 3. Technology Vulnerabilities:

- Dependency on technology can be a weakness if the systems are not robust or if there is a lack of contingency plans for technological failures.

### 4. High Operating Costs:

- The distribution industry often incurs significant operating costs. Identifying and managing these costs is critical for profitability.

### 5. Limited Product Innovation:

- If the company is slow to adapt to changing market trends or lacks innovation in its product offerings, it may lose out to competitors.

## Opportunities:

### 1. E-commerce Growth:

- The increasing trend of online shopping provides opportunities for the distribution company to expand its e-commerce capabilities and reach a broader customer base.

### 2. Global Expansion:

- Exploring opportunities for international expansion to tap into new markets and increase revenue streams.

### 3. Technology Upgrades:

- Investing in and adopting new technologies can improve efficiency, reduce costs, and enhance overall competitiveness.





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#### 4. Strategic Partnerships:

- Forming strategic partnerships with suppliers or other businesses in the supply chain to create synergies and streamline operations.

#### 5. Diversification of Services:

- Offering additional services, such as value-added services or specialty distribution, to meet evolving customer needs.

#### Threats:

##### 1. Competition:

- Intense competition from other distribution companies, especially those with lower operating costs or stronger market presence.

##### 2. Economic Downturn:

- Economic recessions can impact consumer spending, leading to decreased demand for products and potential financial challenges for the distribution company.

##### 3. Regulatory Changes:

- Changes in regulations, especially those related to transportation, can impact operations and increase compliance costs.

##### 4. Supply Chain Disruptions:

- Events like natural disasters, geopolitical issues, or pandemics can disrupt the supply chain, affecting the availability and movement of products.

##### 5. Rapid Technological Changes:

- Failure to keep up with technological advancements may result in decreased competitiveness and operational efficiency.

This SWOT analysis provides a snapshot of the internal and external factors that can impact a distribution company. Regularly updating and reassessing the analysis helps the company stay proactive in addressing challenges and capitalizing on opportunities in the dynamic business environment





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## PRODUCT PROFILE

### 2 PRODUCT PROFILE

Wholesale  
Dealers of  
**ITC**



(Source: <https://www.aswani.in/>)

The ITC Distribution business is the group's backbone. We cover through our team of 200 plus staff, close to 15000 outlets spanning Convenience, Grocery, HoReCa & Modern trade formats. Virtually every outlet where FMCG products are sold to the end consumer be it a Bakery, Fancy store or Chemist outlet are target outlets for our distribution business. To provide individual focus and forge strong relationships with the trade we have set up 4 points in the following areas:

- Ernakulam: to cater to the main town market
- Nettoor: which reaches out to Tripunithura, Kakkannad and up-country markets such as Puthencruz, Kolenchery, Piravom, Pampakuda.
- Fort Kochi: which caters to Wellington Island, Fort Kochi and Mattancherry.
- Vaikom: which caters to Arayankavu, Thaloyalaparambu, Vaikom regions.





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-Modern trade: A specialized point which caters to local, regional & national key accounts such as Supplyco, Big Bazar, Margin Free, Lulu Hypermarket, Bismi Hypermarket, Kalyan Hypermarket etc

With a professionally managed team, we are one of the largest distributors for ITC products in the country. Its longevity and success traces back to the relations forged with trade by respected Mr. Lachmandas Aswani the founding promoter. His dynamism, efforts coupled with a human touch have sowed the seeds for a business which is currently in its 3rd Generation stage. Mr. Deepak L Aswani has been instrumental in taking the business to new horizons and we have been fortunate to receive brilliant support from the company and its members in growing, improving the business





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(Source; <https://www.aswani.in/>)

The Group has 4 exclusive stores of "The Raymond Shop" (TRS) in the city of Kochi, located at M.G Road, Marine Drive, Lulu Mall and Thrippunithura. The Raymond Shops are a premium retail store offering complete wardrobe solutions for men which includes top-of-the-line brands - Raymond (Fabrics), Raymond (Ready-To-Wear), Park Avenue, ColorPlus & Parx. The Raymond Shops constantly sets new standards and creates environments that make shopping a pleasure. The Raymond Shops are a virtual paradise for the fashion-conscious customers of Kochi. Besides getting to choose from the latest fashions and designs from a range of readymade brands and Raymond Fabrics, you can also choose the finest accessories and personal grooming products from Park Avenue. The Raymond Fabrics product range includes pure wools, wool blended with exotic fibres like camel hair, cashmere and angora and innovative blends of wool with polyester, linen and silk. The showroom offers suiting and trouser fabric and apparel for all occasions and needs. Consistent focus on cutting-edge research and technology has resulted in pioneering new products, which have set new benchmarks. What's more, the Raymond Shops also offers superior custom tailoring services for that perfect fit in the current styles. It is so very convenient getting all your clothing stitched to perfection at one place itself

Trust, Excellence, Quality, these are some of the abiding values that have been associated with Raymond over the years. Consistent focus on cutting-edge research and technology







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(Source:<https://www.aswani.in/>)

The Aswani Lachmandas Group has also recently opened an exclusive retail store of Jockey, next to the Info park & Smart-city in Kakkanad, Kochi. This spacious store stocks a wide range of Innerwear, Performance Sports Wear, Leisure wear, Towels and Socks for Men, Women and Kids in a high quality ambience at an upcoming premium catchment area of the city.







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(Source: <https://www.aswani.in/>)

Besides ITC, the Group also distributes the entire range of FMCG Products from other leading companies such as Hershey's, McCormack (Kohinoor), Adani Wilmar (Fortune), Dr.Oetker FunFoods, Rakyam Beverages (Raw Pressery), Wingreens Farms, Weikfield, Milklane, 24 Mantra etc., across various channels in not only Kochi City/ Ernakulam Region, but has also recently expanded servicing to include these and more leading Ambient, Chilled and Frozen Products across other Central Kerala Districts ( i.e Thrissur, Alleppey & Kottayam districts, in addition to Ernakulam District) as well. The group has also recently launched its own proprietary application "Wazzup Interactive Kiosk" to enable customers to shop for all the leading FMCG Products under one roof.

**"Discover & Shop for a wide-range of innovative products from leading FMCG brands!"**

Wazzup Interactive Kiosk ([www.wazzup.co](http://www.wazzup.co)) is an experiential digital solution to enable customers to discover new, innovative & popular products in the Indian FMCG (Fast-Moving Consumer Goods) space. Now you can seamlessly experience and shop for the most exciting FMCG products conveniently through the intuitive and engaging interface of "Wazzup Interactive Kiosk" (Web App, Android App & iOS App available), with free next day-delivery in Kochi City for orders above Rs.499





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(Source;<https://www.aswani.in/>)

The Aswani Lachmandas Group is associated with the E-commerce Giant Amazon as its Multi Seller Flex operator in Cochin and as a Prione (Amazon subsidiary company) Franchisee. When Amazon was looking for a reliable partner to provide Fulfillment services to its sellers in Kerala, this tie-up materialized and we were able to provide local Kerala based sellers with valuable services. Sellers wishing to take their brand Online can seek a perfect partner to support their pursuit. Our team assists sellers in making the decision to go online, provide them with Onboarding, Cataloguing ,Account Management services. Since there is no Fulfillment centre of Amazon in Cochin, Sellers now have an option to inward their products into the Cochin Multi Seller Flex warehouse run by the Aswani Lachmandas Group. They can then immediately get the PRIME Tag which boosts their visibility on Amazon and provides confidence to millions of consumers. We further provide them with Picking, Packing, Storage and Returns management services which ensures that they can focus on the Core marketing of their products and leave the rest to us to our experienced and specialized team. We currently process between 500-700 orders and have delighted over 350+ local Kerala based sellers.



*Mendula Menon*  
**Mrudula Menon V.**  
**Principal-in-Charge**  
**The Cochin College**



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(Source:<https://www.aswani.in/>)

The Aswani Lachmandas Group partnered with [www.firstcry.com](http://www.firstcry.com) in 2016 as their All Kerala Stockists. With this foray into E-commerce, a new chapter commenced. Firstcry is renowned as one of the leading portals for baby care & mother care products. They have an Omni-channel presence and have over 50 Brick and mortar stores in Kerala currently. Our duty as a stockiest is to cater to their Online B2C Orders and B2B Orders. This business has grown multifold in the last 4 to 5 years.

We currently have 2 branches in Cochin and Trivandrum respectively and process close to 1000 B2C Orders a day. Same day delivery, Next day delivery options are catered to and the dedicated First cry team makes every effort to pick, pack and ship orders in time so that consumers and franchisees get their requirements fulfilled On time and in Full.





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(Source: <https://www.aswani.in/>)

**And so the wait is over! Kerala's first Naturals Signature Salon has now been opened at MG Road, Kochi by the Aswani Lachmandas Group!**

Experience styling like never before : Our commitment to quality emanates from a luxurious salon experience encompassing pleasing interiors, cutting-edge products and bespoke services ( including, **skin, body spa & beauty ( make-up & bridal )** services of the highest standards of excellence )

So, what are you waiting for? Visit us today and be a part of our journey, where Kochi is all set to get more beautiful !

**Location : Metro Pillar No. 668, Above The Raymond Shop, 3rd Floor, Sahyadri Building, MG Road, Ernakulam**

**Phone: 8714772804**



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## 3 INDUSTRY PROFILE

### 3 INDUSTRY PROFILE

#### 3.1 OVERVIEW

Distribution and logistics companies are the backbones of economies - moving goods from one point to another as quickly as possible. Simply put, a distribution company refers to a company that purchases products from one company, usually the manufacturer, and moves the goods to wholesalers and retailers. Browse our list of the best distribution companies across the globe. Filter by location, budget, reviews and more!

#### 3.2 KEY COMPONENTS

- **Producer:** Producers combine labor and capital to create goods and services for consumers.
- **Agent:** Agents commonly act on behalf of the producer to accept payments and transfer the title of the goods and services as it moves through distribution.
- **Wholesaler:** A person or company that sells large quantities of goods, often at low prices, to retailers.
- **Retailer:** A person or business that sells goods to the public in small quantities for immediate use or consumption.
- **End Consumer:** A person who buys a product or service.







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### 3.3 CURRENT STATUS

#### 1. Just-in-time practices won't return

Just-in-time (JIT) orders used to be the norm, and for good reason. They allowed manufacturers to match production to consumer demand, saving both time and money. But since the pandemic began, consumer demand has been unpredictable. Now, distributors need far more flexibility in their production systems than JIT gives them, better ways of predicting consumer demand, and the ability to clear inventory when demand shifts. 2023 isn't the year JIT practices return.

#### 2. The worker shortage will get worse without action

For years, the distribution industry has been grappling with a labor shortage. The difference is that this shortage is now at a critical level. It doesn't help that companies have been competing with each other for existing craftsmen and truck drivers instead of attracting new talent into the field. In 2023, distributors need to employ more creative strategies to recruit and retain employees while managing rising labor costs.

#### 3. Distributors will demand increased transparency and alignment

The need for flexibility is going to drive distributors' demand for greater visibility into their supply chains — everything from raw material acquisition to last-mile transportation. This will require greater insight into and strategic alignment with their partners' businesses. Instead of shrinking the supply chain to tighten control during periods of instability, distributors are expanding their networks and partnerships to protect against potential service gaps.

#### 4. Distributors will invest in higher-speed digital transformations

Digital was important before the pandemic. Now, it's essential. Distributors that planned certain innovations into two or three-year roadmaps are now fast-tracking these innovations in order to build resiliency. Many are investing in data and analytics, which





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can help them identify the next disruption and give them more time and greater flexibility in their response.

Distributors are also prioritizing technology that can help them address current challenges and constraints. Technology is an excellent way to supplement human production and allow workers to focus on higher value activities, which includes strategic decision-making. Firms are implementing predictive tools to help determine demand and make more informed decisions. And as cybercrime continues to rise — and grow more sophisticated — they're also looking for information security tools to protect their assets.

## 5. Digital transformation will come with a steep learning curve

Distributors are pursuing digital transformation projects, but they aren't doing it alone. To build essential capabilities, they're making outside investments and working with third parties on the planning, implementation and change management necessary to make digital transformation a success. They're investing in the training their employees need to interpret data and make strategic decisions. They're investing in the time needed to help line managers, shop floor workers and drivers understand the why of the new technology and processes so they actually adopt them.

## 6. Inflation, tax changes and other wild cards will stay in the news

Inflation was a huge topic in the latter half of 2021, and tax policies have been consistently in the news ever since the presidential race. These two subjects, along with regulations and consumer demand, will stay in the news and "up in the air" in 2023. Distributors should watch for changes in the market and prepare flexible, contingency-based plans that allow them to pivot quickly and strategically





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### 3.4 GROWTH OF DISTRIBUTION INDUSTRY

in January 2023, the growth of the distribution industry in India has been influenced by various factors, and the industry has shown positive trends in recent years. However, keep in mind that economic conditions and industry trends can change, so it's essential to verify with the latest sources for the most up-to-date information. Here are some factors that have historically contributed to the growth of the distribution industry in India

1. **Economic Growth:** India has experienced steady economic growth, and a growing economy often leads to increased consumption and demand for distribution services.
2. **E-commerce Boom:** The rise of e-commerce has significantly impacted the distribution industry. The increasing trend of online shopping has spurred the demand for efficient and reliable distribution networks.
3. **Infrastructure Development:** Ongoing infrastructure development projects, including improvements in transportation and logistics, have positively influenced the distribution industry by making supply chains more efficient.
4. **Government Initiatives:** Government initiatives such as the Goods and Services Tax (GST) implementation have aimed to simplify the tax structure and streamline logistics and distribution processes, contributing to industry growth.
5. **Rapid Urbanization:** The urbanization trend in India has led to changes in consumption patterns, with a concentration of consumers in urban areas driving the need for effective distribution networks.
6. **Consumer Demands:** Changing consumer preferences and an increasing focus on timely delivery and quality service have driven distribution companies to enhance their capabilities and expand their reach.
7. **Globalization:** Integration into the global economy has increased international trade, necessitating efficient distribution networks to move goods across borders.
8. **Technological Advancements:** Adoption of technology in supply chain management, including tracking and automation, has improved the efficiency of distribution processes.







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9. **Retail Sector Growth:** The growth of the retail sector, both organized and unorganized, has contributed to the expansion of distribution networks to meet the demand for a wide range of products.
10. **Economic Policies:** Favorable economic policies and regulatory frameworks have played a role in supporting the growth of the distribution industry.

### 3.5 MAJOR FIRMS IN DISTRIBUTION INDUSTRY

The distribution industry is diverse and encompasses various sectors, including logistics, supply chain management, wholesale, and retail. In India, there are several major firms that play significant roles in different segments of the distribution industry. Keep in mind that the landscape may evolve, and new companies may emerge. As of my last knowledge update in January 2023 here are some major firms in the distribution industry in India

1. **Blue Dart Express Ltd:** A leading logistics and express courier company in India, providing domestic and international delivery services.
2. **Gait Ltd:** Gait is a logistics and supply chain solutions provider with a strong presence in express distribution and cold chain logistics.
3. **Tata Steel Distribution Network:** Tata Steel has a vast distribution network for its steel products, contributing to its position as one of the leading steel distribution companies in India.
4. **DLF Brands:** DLF Brands is involved in the distribution of international retail brands in India, covering sectors such as fashion, food, and beauty.
5. **Future Group:** Future Group is a major player in the Indian retail sector, with a presence in various segments, including hypermarkets, supermarkets, and fashion.
6. **Reliance Retail:** A subsidiary of Reliance Industries, Reliance Retail is one of the largest and fastest-growing retail chains in India, operating across various formats.
7. **Amazon India:** As a leading e-commerce platform, Amazon plays a crucial role in the distribution of a wide range of products across the country.





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8. **Flipkart:** Another prominent e-commerce player in India, Flipkart is involved in the distribution of a diverse range of goods, including electronics, fashion, and household items.
9. **Adani Logistics:** Adani Logistics is involved in providing integrated logistics and distribution services, including port management, warehousing, and transportation.
10. **Mahindra Logistics:** Mahindra Logistics offers end-to-end logistics solutions, including transportation, warehousing, and distribution services.

### 3.6 LEVEL OF COMPETITION

The level of competition in a distribution company can be influenced by various factors, and assessing this competition involves considering both internal and external dynamics.

Here are key aspects to examine:

#### 1. Industry Structure:

- Analyze the structure of the distribution industry. Consider whether it is highly concentrated with a few dominant players or fragmented with many small to medium-sized companies.
- Evaluate entry barriers for new competitors, such as the need for significant capital, established networks, or regulatory hurdles.

#### 2. Number and Strength of Competitors:

- Identify and assess the number of competitors in the distribution industry. Consider their size, market share, and geographical reach.
- Evaluate the financial strength, capabilities, and reputation of key competitors. Strong competitors may have a significant impact on the level of competition.

#### 3. Market Share and Positioning:

- Determine the distribution company's market share and its position in comparison to competitors. A company with a larger market share may have a competitive advantage but could also face higher scrutiny.





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#### 4. Product and Service Differentiation:

- Assess the extent to which distribution companies differentiate their products or services. Companies offering unique value propositions or specialized services may face lower direct competition.

#### 5. Price Competition:

- Evaluate the level of price competition in the industry. Consider whether companies compete primarily on price or if there are other factors, such as service quality or speed of delivery, that play a significant role.

#### 6. Technological Advancements:

- Consider the impact of technology on competition. Companies that leverage advanced technologies in their distribution processes may gain a competitive edge in terms of efficiency and customer satisfaction.

#### 7. Strategic Alliances and Partnerships:

- Analyze whether distribution companies form strategic alliances or partnerships. Collaborations with suppliers, manufacturers, or other distribution entities can enhance competitiveness.

#### 8. Regulatory Environment:

- Consider the regulatory environment and how it influences competition. Regulatory barriers or requirements can affect the ease with which companies can enter or operate in the distribution industry.

#### 9. Customer Loyalty and Switching Costs:

- Assess the level of customer loyalty within the industry. High switching costs or strong customer relationships can create a barrier to entry for new competitors.

#### 10. Globalization:

- Examine whether the distribution industry is affected by globalization. Companies that operate on a global scale may face different competitive challenges compared to those that focus on specific regional markets.





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## 11. Economic Factors:

- Consider economic conditions and their impact on competition. Economic downturns may intensify competition as companies vie for a smaller pool of business, while economic growth may create more opportunities for expansion.

### 3.7 KEY DRIVERS OF DISTRIBUTION INDUSTRY

The distribution industry is influenced by various factors, and key drivers shape its growth, dynamics, and overall performance. These drivers can vary based on economic conditions, technological advancements, and changes in consumer behavior. As of my last update in January 2023, here are some key drivers of the distribution industry:

1. **E-commerce Growth:** The continued expansion of e-commerce has been a significant driver for the distribution industry. As consumers increasingly turn to online shopping, the demand for efficient and reliable distribution and logistics services has risen.
2. **Globalization and International Trade:** The growth of international trade and globalization has increased the need for effective distribution networks to move goods across borders. Companies are expanding their reach to serve global markets.
3. **Technological Advancements:** Advances in technology, such as automation, artificial intelligence, and data analytics, play a crucial role in optimizing distribution processes. These technologies enhance efficiency, reduce costs, and improve overall supply chain management.
4. **Customer Expectations:** Changing consumer preferences and expectations, including the desire for faster delivery, real-time tracking, and personalized experiences, drive innovation in the distribution industry.
5. **Supply Chain Visibility:** The importance of real-time visibility into the supply chain has grown. Companies are investing in technologies that provide end-to-end visibility, allowing better decision-making and responsiveness to changes in demand.





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6. **Infrastructure Development:** Reliable and efficient infrastructure, including transportation networks and warehousing facilities, is essential for the smooth functioning of the distribution industry. Infrastructure development projects can have a direct impact on the industry's growth.
7. **Regulatory Changes:** Changes in regulations and trade policies can affect the distribution industry. Companies need to adapt to new regulatory requirements and compliance standards.
8. **Sustainability Initiatives:** Growing awareness of environmental issues has led to an increased focus on sustainable practices in the distribution industry. Companies are adopting eco-friendly packaging, optimizing transportation routes, and reducing their carbon footprint.
9. **Demand for Last-Mile Delivery:** Last-mile delivery services have become crucial as consumers expect faster and more convenient delivery options. Companies are investing in last-mile logistics solutions to meet this demand.
10. **Integration of Omni channel Strategies:** The integration of Omni channel strategies, where companies seamlessly connect online and offline sales channels, requires a well-coordinated distribution network to fulfill orders efficiently.
11. **Market Trends and Consumer Behavior:** Adapting to changing market trends and understanding consumer behavior is vital. Companies need to anticipate and respond to shifts in demand and preferences.
12. **Collaboration and Partnerships:** Collaboration between different stakeholders in the supply chain, including suppliers, manufacturers, and distributors, is essential for a streamlined and efficient distribution process.





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### 3.8 PROSPECTS IN DISTRIBUTION INDUSTRY

The distribution industry continues to offer promising prospects due to various factors that contribute to its growth and evolution. As of my last knowledge update in January 2023, here are some key prospects in the distribution industry:

1. **E-commerce Expansion:** The ongoing growth of e-commerce presents significant opportunities for the distribution industry. As more consumers turn to online shopping, the demand for efficient and reliable distribution and logistics services continues to rise.
2. **Global Supply Chain Integration:** With the globalization of markets, companies are increasingly looking to integrate their supply chains on a global scale. This requires robust distribution networks to facilitate the movement of goods across borders.
3. **Technological Advancements:** Continued advancements in technology, including automation, artificial intelligence, and the Internet of Things (IoT), provide opportunities for increased efficiency, cost reduction, and enhanced visibility within distribution processes.
4. **Last-Mile Innovation:** Innovations in last-mile delivery solutions, such as drone deliveries, autonomous vehicles, and smart lockers, present opportunities for companies to improve the speed and efficiency of delivering products to end consumers.
5. **Sustainability Initiatives:** Growing awareness of environmental concerns is driving companies in the distribution industry to adopt sustainable practices. This includes eco-friendly packaging, energy-efficient transportation, and overall supply chain sustainability.
6. **Omnichannel Integration:** The integration of omnichannel strategies, where companies seamlessly connect online and offline sales channels, creates opportunities for distribution companies to provide flexible and efficient order fulfillment services.
7. **Data Analytics and Predictive Analytics:** The use of data analytics and predictive analytics enables distribution companies to make informed decisions, optimize supply chain processes, and forecast demand more accurately.







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8. **Healthcare and Pharmaceutical Distribution:** The distribution of healthcare and pharmaceutical products is expected to see increased demand, driven by factors such as population growth, aging demographics, and global health concerns.
9. **Cross-Border E-commerce:** The rise of cross-border e-commerce presents opportunities for distribution companies to facilitate the movement of goods between countries and cater to international consumer markets.
10. **Collaborative Supply Chains:** Collaboration and partnership models within the supply chain offer prospects for streamlining processes, reducing costs, and enhancing overall efficiency.
11. **Customization and Personalization:** Consumer preferences for customized and personalized products are creating opportunities for distribution companies to adapt their processes to meet individualized demands.
12. **Resilience Planning:** The importance of building resilient supply chains and distribution networks has become evident, particularly in the face of disruptions such as the COVID-19 pandemic. Companies are likely to invest in strategies that enhance resilience and mitigate risks.

### 3.9 CHALLENGES IN DISTRIBUTION INDUSTRY

The distribution industry faces several challenges that can impact operational efficiency, customer satisfaction, and overall business success. As of my last knowledge update in January 2023, here are some common challenges in the distribution industry:

1. **E-commerce Disruption:** While e-commerce presents opportunities, it also poses challenges for traditional distribution models. Distribution companies need to adapt to the changing landscape, including the demand for faster and more flexible delivery options.
2. **Last-Mile Delivery Challenges:** The last mile of delivery is often the most expensive and complex part of the distribution process. Issues such as traffic congestion, delivery delays, and the need for precise scheduling can pose challenges.





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3. **Supply Chain Disruptions:** Events such as natural disasters, geopolitical tensions, and global health crises (e.g., pandemics) can disrupt the entire supply chain. Building resilience and risk management strategies are crucial in addressing such challenges.
4. **Technology Integration Costs:** While technology advancements offer opportunities, the initial costs of implementing new technologies, such as warehouse automation and data analytics, can be substantial. Companies may face challenges in balancing investment costs with potential returns.
5. **Sustainability Pressures:** Increasing awareness of environmental sustainability places pressure on distribution companies to adopt eco-friendly practices. This includes reducing carbon emissions, optimizing transportation routes, and minimizing packaging waste.
6. **Complex Regulatory Environment:** Distribution companies operate in a complex regulatory environment that involves compliance with various rules and regulations, including customs, trade, and safety standards. Staying updated on regulatory changes and ensuring compliance can be challenging.
7. **Inventory Management:** Balancing inventory levels to meet demand without overstocking or understocking is a constant challenge. Efficient inventory management is crucial for minimizing carrying costs and meeting customer expectations.





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## 4 EXPERIENCE

### 4 .EXPERIENCE

#### INTERNSHIP DEPARTMENTAL FUNCTIONAL AREA: ACCOUNTING

##### 4.1 OVER VIEW OF JOB PROFILE AS AN INTERN:

##### 1. Financial Record Keeping:

- Maintain accurate and up-to-date financial records.
- Record financial transactions in accounting software or ledgers.

##### 2. Bookkeeping:

- Handle day-to-day bookkeeping tasks, including recording income and expenses.
- Reconcile bank statements and other financial documents.

##### 3. Accounts Payable:

- Process and verify invoices from suppliers.
- Prepare and process payments to vendors.
- Manage the organization's payable accounts.

##### 4. Accounts Receivable:

- Generate and send out invoices to clients or customers.
- Monitor and follow up on overdue payments.
- Record and track incoming payments.

##### 5. Payroll Processing:

- Calculate and process employee salaries and wages.
- Deduct and withhold appropriate taxes and benefits.
- Ensure compliance with payroll regulations

##### 6. Financial Reporting:

- Prepare financial statements, including balance sheets, income statements, and cash flow statements.
- Generate financial reports for management or external stakeholders.





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## 7. Budgeting and Forecasting:

- Assist in the development of budgets and financial forecasts.
- Monitor actual financial performance against budgeted figures.

## 8. Financial Analysis:

- Analyze financial data and trends.
- Provide insights and recommendations based on financial analysis.

## 9. Tax Compliance:

- Prepare and file various tax returns, such as income tax and sales tax.
- Stay informed about changes in tax regulations.

## 10. Audit Support:

- Assist in the preparation for external or internal audits.
- Provide necessary documentation and explanations during audits.

## 11. Financial Software Management:

- Use accounting software to perform various financial tasks.
- Stay current with updates and new features in accounting software.

## 12. Compliance:

- Ensure compliance with accounting principles, standards, and regulations.
- Implement and follow internal control procedures.

## 13. Financial Planning and Strategy:

- Contribute to financial planning and strategic decision-making.
- Provide financial insights to support business objectives.

## 14. Expense Management:

- Monitor and control company expenses.
- Analyze and report on variances in budgeted versus actual expenses.

## 15. Cash Flow Management:

- Manage and forecast cash flow.
- Implement strategies to optimize cash flow.





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## 16. Communication:

- Communicate financial information to various stakeholders, including management, investors, and regulatory authorities.

## 17. Ad Hoc Financial Projects:

- Contribute to special financial projects, such as system implementations or process improvements.

## 4.2 DEPARTMENT-FUNCTIONAL AREA OF THE INTERN

Accounting encompasses various functional areas, each serving a specific purpose within the broader financial management of an organization. Here are some key functional areas as intern

### Financial Accounting:

- **Objective:** To provide external stakeholders with accurate and standardized financial information about the organization's performance.
- **Tasks:**
  - Preparation of financial statements (income statement, balance sheet, cash flow statement).
  - Recording and summarizing financial transactions.
  - Ensuring compliance with Generally Accepted Accounting Principles (GAAP) or International Financial Reporting Standards (IFRS).





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## 4.3 MAJOR DUTIES ASSIGNED

### FIRST CRY.COM ACCOUNTS:

#### RECORDING SALES:

Stockist.brainbees.com is the site used to generate sales report. The report in Excel format. Download those report to system. Using uploading sheet to export to tally. Excel sheet which is maintained by company for one year. Add those generated report of sales to Excel sheet. We need to make some editing like manually add invoice number and date etc. Edited Excel sheet transferred to uploading sheet, which will be in those format we can easily export to tally.

#### RECORDING PURCHASE:

Purchases are recorded using a software named COREHOUSE. Each purchase made in a day will send a copy of bill to mail id of company. Download bill from mail and print it (Hard copy). Copy paste the reference number in g-mail to get bill of correspondent purchase in order to print out the purchase bill. Individually check all bill. Cross check all data with hard copy bill. Then copy paste into purchase Excel maintained by company yearly basis. In Excel we have to manually add reference Id, entry date, invoice date, invoice number, party name. Bill open by clicking "WH ACCOUNT" option under the head Action. In bill we have to check Base Cost, which will be available in site. If any mismatch found edit the data, option for editing available in system.

By clicking "export" option in the site it is move to an excel, from that copy paste to company Excel-sheet. And add above data. In comment section we write "ok" then set approval. After clicking "set approval" we transferred to excel sheet. Click "export" icon near total records. Finally uploading to tally pivot.







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## RECOILATION STATEMENT:

- To reconcile the statements ,first check company tally opening balance, if it is correct then enter correspondent month closing balance
- Check vendor ledger account and also entre that month closing balance
- E.g.: Sabari –sales / LTC –purchase
- Bill transit check whether it is of previous reconciliation statement
- Add “bill transit amount” which not in purchase section of company but in sales section of vendor.
- Check company payment with Receipt or collection of vendor
- Difference show under the head” payment not accounted by Sabari”

### Four steps in accounts

#### 1 In process done by warehouse department

#### 2 In done

#### 3 Purchase Approval

#### 4 Weekly payment done

**1In process:** In process work done by warehouse department. They cross check the stocks, when it comes to Godown.

**2 in done:** It is the second stage done by accounting department. Accounting Department check whether it is tally or not.

**3 Purchase approval:** In this stage purchase approval are given. By accounting department by checking base cost.

**4 Weekly payment schedule:** Weekly payment schedules are prepared by accounting department all the outstanding s are recorded in this schedule, are made within a week by preparing this weekly payment schedule according department ensuring the regular payment off credits. For the purpose of this payment an excel sheet maintained by the accountant.





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### Checking the bills have issues:

Purchases which is not get approval will be in the debit note excel sheet maintained by the company and also it can be noted software called “core house” under the head WH account option shows “price differences” Open core house software, Enter the reference number, Invoice charters shows “indone ” Instead of purchase approval in case of bill those have issues. Copy paste those indone transactions and WH account will display the purchase transaction with invoice number and inform the issue in core house site. The issue will be resolved by the first cry.

### OPS

OPS related to cash inflow and outflow. When the credit purchases are made the due date will be mentioned .when the payment is made it will be removed from the excel maintained by the company. Sales amount paid in once in a week first cry has only one seller that is

“Digital age”, they are also a purchaser too. So after deducting the purchase amount from the sale receipt are formed. Purchase balance is cross check with the tally Ledger (vendor name). Ops uploaded every day at evening after Recording all transaction related to sales and purchase.

### ITC ACCOUNTS:

#### SALES:

All data related to sales and purchase bill be send to the Gmail ID of company by warehouse department. Open tally upload sheet. It is an excel sheet which contains multiple excels including sales return collections both cash and cheque, credit note. 2 uploading sheet have prepared every month due to large volume of transactions. Open the file sales gstr, Copy paste the data from sale gstr to uploading sheet. If any item found to be new which indicate not applicable. Select all note applicable item and put into “product sheet” then assigned code to them. In tally any Ledger shows not applicable which means a new Ledger forms. Select new Ledger add make a duplicate, then copy paste into “mapping sheet”. Select last 3 column from “map” and paste into ‘mapping sheet’. This selected columns are ‘customer ID’, ‘customer name’,





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'salesman'. Select 'sales pivot sheet' then click refresh and add a date. And check the total is same by checking sale pivot sheet and GSTR sheet. Select Invoice number from sales pivot copy paste into 'ekm sales sheet'. Open sales return excel sheet and select all under the head date. Open folder JoJin folder open ekm sales sheet then open ekm sales return sheet then paste here. Remove All Blacks and the formula format by clicking 'phase special'. Then delete all data and from the server imported to tally.

#### Credit note:

Check credit note excel sheet from Gmail, if any credit note are there, make necessary adjustments.

#### Collection sheet:

Document type → credit note amount select amount column shows zero vale adding filter delete all amount shows zero. By one amount indicate "-“and other “+”. “-“indicate credit note, “+” indicate invoices delete that row.

Extra collection sheet and additional amount column should be zero. If any amount found, add those amount to amount column or total column. By checking cash and cheque amount to be zero, if not zero add that amount to amount column or total amount column. Select cash column and paste into cash data sheet. Open cash pivot sheet click refresh and add date. Customer name column shows sampling. Delete those customers of Lachmandas Company. Open mail cash statement excel. Company using SIFFY application for billing. Cross check the cash counter date with SIFFY enter date difference shows in yellow color. Ignore minor differences. Cross the salesman amount in collection pivot sheet with Gmail. Upload work book which include cash amount, SIFFY amount party name, staff name who enter SIFFY data.





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## 5 CONCLUSION

### 5 CONCLUSION

#### 5.1 CRITICAL APPRAISAL OF THE ORGANISATION

##### 1. Supply Chain Management:

- Efficiency and effectiveness of our the company's supply chain well. Efficiently manages procurement, production, and distribution processes.
- Considering the responsiveness of the distribution networkers to changes make in demand and the ability to adapt to market fluctuations.

##### 2. Technology Integration:

- Use technology in distribution processes. Considering the leverages advanced technologies for inventory management, order fulfillment, and logistics.
- Company using effective technology solutions in improving overall efficiency.

##### 3. Customer Service:

- Company's customer service practices is well. Responsiveness to customer inquiries, order accuracy, and the efficiency of the returns process are on time
- Considering customer satisfaction, conducting surveys and feedback to gauge the level of customer satisfaction with the distribution services.

##### 4. Cost Management:

- Company ensuring Cost-effectiveness in distribution processes. Considering all costs including transportation costs, warehousing expenses, and overall operational costs.
- Company in a position to optimize costs without compromising the quality and speed of distribution.

##### 5. Risk Management:

- Company adopt different approach to risk management. Well it handles disruptions in the supply chain, manages inventory risks, and plans for unexpected events.





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## 6. Environmental Sustainability:

- Company has commitment to environmental sustainability in distribution operations. Efforts are taking to reduce carbon emissions, optimize transportation routes, and minimize packaging waste.
- Company Considering, initiatives related to environmental responsibility.

## 7. Regulatory Compliance:

- Company complies with relevant regulations and industry standards. This includes transportation regulations, product safety standards, and any other legal requirements related to distribution.

## 8. Financial Performance:

- Financial health of the company is well. Company is able to generate positive cash flow and sustain long-term growth.

## 9. Employee Management:

- Company's approach towards human resource management, including training programs, employee satisfaction, and overall workforce efficiency are good.
- Considering the impact of employee engagement on the quality of distribution services.

## 10. Innovation and Adaptability:

- Company take all effort to adapt with changes in the market. Considering whether it embraces new technologies and implements best practices in distribution.

## 11. Collaborations and Partnerships:

- Company's collaborations and partnerships with suppliers, manufacturers, or other entities in the supply chain are well. These relationships contribute to overall efficiency of our organization.

## 12. Community and Social Responsibility:

- Company has active involvement in community and social responsibility initiatives. Considering its impact on local communities and overall corporate citizenship.





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## 5.2 CONCLUSION

The distribution channel means the chain of businesses or intermediaries through which a good or service passes until it reaches the end consumer" A distribution channel can include wholesalers, retailers, distributors and even the internet. Channels are broken into direct and indirect forms, with a "direct" channel allowing the consumer to buy the good from the manufacturer and an "indirect" channel allowing the consumer to buy the good from a wholesaler. From the project we can conclude that a distribution channel is important factor for sales their product in a good way. So, every company should maintain a good distribution channel. A company distribution channels decision directly affects every other marketing decision. The company sales force communication decision depends on how much training, motivation and support its channel partners need. A company develops or acquires certain new product and may depend on how well those products fit the capabilities of its channel members.

## 6 BIBLIOGRAPHY

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Mrudula Menon V.  
Principal-in-Charge  
The Cochin College



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REPORT ON

**BANKING OPERATIONS OF  
THE FORT KOCHI CO-OPERATIVE SOCIETY LTD.**

**A dissertation submitted to Mahatma Gandhi University in partial  
fulfilment of the requirements for the Internship Project in  
Master of Commerce and Management**

By

**ROHIL. R**

Reg. No: 220011010277

Under the Guidance of

**Dr. ANU L**



**THE COCHIN COLLEGE**

**Cochin – 682002**





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## DECLARATION

I, Mr. ROHIL. R Reg. No. 220011010277 do hereby declare that the dissertation titled "**BANKING OPERATIONS OF THE FORT KOCHI CO-OPERATIVE SOCIETY LTD.**" is bonafide record done by me under the supervision of Dr. ANU. L, Assistant Professor, Post Graduate and Research Department of Commerce, The Cochin College, and is submitted to the Mahatma Gandhi University in partial fulfilment of the requirement of the award of the Degree Of Master of Commerce and Management.

I also declare that this project has not been previously formed the basis for the award of any other academic qualification, fellowship or other similar title of any other university or board.

Date:

Place:

ROHIL. R

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**Mrudula Menon V.**  
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### CERTIFICATE

This is to certify that the project work entitled “**Banking Operations of the Fort Kochi Co-operative Society Ltd.** “ has been carried out by **Rohil. R** under the supervision of **Dr. Anu L** in the partial fulfilment of the requirement of the completion of Internship Project during the academic year 2022-2023. The internship was undertaken at **Fort Kochi Co-operative Society Ltd.** for a period of 15 days.

Signature of the Internal Mentor:

Name of the Internal Mentor: **Dr. ANU L**

Signature of the Head of the Department:

Name of the Head of the Department: **Dr. REKHA P G**





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## ACKNOWLEDGEMENT

I acknowledge my sincere gratitude to my project guide Dr. Anu L, Department of commerce, The Cochin College.

First, I would thank God with all my heart for providing me with strength and wisdom to complete the study and prepare this report on time.

Without the support, patience and guidance of the following people, my project would not have been completed. It is to them; I owe my deepest gratitude.

I express my heartfelt thanks to Dr. Geetha M, Principal, Cochin College, Kochi and Dr. Rekha P G, Head of the department of commerce, The Cochin College, Kochi for the valuable help and guidance rendered to me and for the strenuous and continuous effort she has put in by being with me during every stage of the work. Also take privilege to extend my hearty thanks to the entire faculty members of the department of the Commerce for their solid support and blessing.

I also thank all the respondents for their kind cooperation in answering patiently. Last but not least, the support from my parents and classmates enabled me to finish up the project successfully and also made it a worthwhile experience.

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REPORT ON

INDUSTRIAL TRAINING

CATAMARAN ENTERPRISES LLP  
MEMBER OF THOMAS COOK GOLD CIRCLE

Internship Report Submitted to Mahatma Gandhi University in Partial Fulfilment of the Requirements  
for the Degree of Master of Commerce in Management

BY

SAHADIYA A.Y  
(Reg No: 220011010278)

Under the Guidance of

Dr. HARIPRIYA B.B  
ASSISTANT PROFESSOR

POST GRADUATE AND RESEARCH DEPARTMENT OF COMMERCE



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## CERTIFICATE

This is to certify that the Internship report at Catamaran Enterprises member of Thomas cook gold circle has been carried out by SAHADIYA A.Y under the supervision of Dr. HARIPRIYA B.B in the partial fulfilment of the requirement of the completion of the Internship Project during the academic year 2023-2024. The internship was undertaken at CATAMARAN ENTERPRISES LLP for a period of 14TH October 2023 to 28TH October 2023.

Signature of the Internal Mentor:

Name of the Internal Mentor: Dr. Haripriya B B

Signature of the Head of the Department:

Name of the Head of the Department:





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WHOMSOEVER IT MAY CONCERN

This is certify that **MS. Sahadiya. A .Y** d/o **MR. A.K. Yousuf**, student of **Cochin College Cochin, Master of commerce and management** has successfully completed her internship study from 14TH October, 2023 to 28th October,2023.

During this period of her internship program, she had been exposed to different processes and hereby stated that she was good on her work and assignments to the best of our knowledge.

We wish her every success in life.

Warms regards

**MR. ANEEZ ABDUL SATHAR**

MANAGER

Catamaran Enterprises LLP.





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## REPORT ON INTERNSHIP

ISF CHITIN AND MARINE PRODUCTS LLP

Submitted to Mahatma Gandhi University in Partial Fulfillment of the Requirements for  
the Degree of Master of Commerce and Management

By

SAMUEL ROY

(Reg. No: 220011010279)

Under the Guidance of

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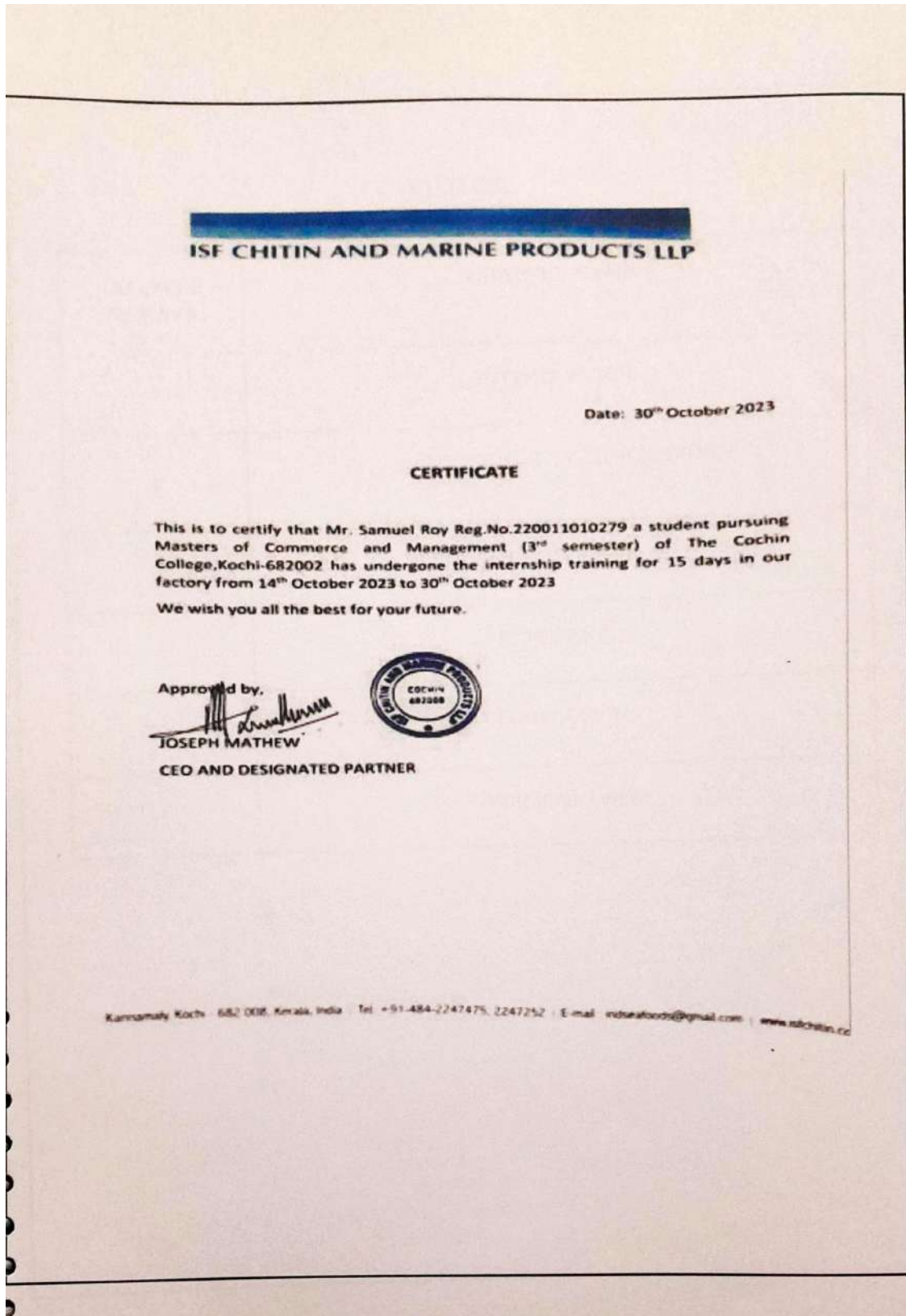
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ISF CHITIN AND MARINE PRODUCTS LLP

Date: 30<sup>th</sup> October 2023

### CERTIFICATE

This is to certify that Mr. Samuel Roy Reg.No.220011010279 a student pursuing Masters of Commerce and Management (3<sup>rd</sup> semester) of The Cochin College, Kochi-682002 has undergone the internship training for 15 days in our factory from 14<sup>th</sup> October 2023 to 30<sup>th</sup> October 2023

We wish you all the best for your future.

Approved by,

JOSEPH MATHEW

CEO AND DESIGNATED PARTNER



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Estd: 1919

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*His performance and conduct are good. We wish him all the best in future career.*

Palluruthy  
01.11.2023

  
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*His performance and conduct are good. We wish him all the best in future career.*

Palluruthy

01.11.2023



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### 1.3.2 List of students who undertook Internship work from the Department of Chemistry (UG and PG) during the year 2023-24

SL NO	PROGRAMME NAME	NAME OF STUDENT	PROJECT WORK/ FIELD/INTERNSHIP
1	BSc Chemistry	Devi Nandana K	INTERNSHIP
2	BSc Chemistry	Manu C P	INTERNSHIP
3	BSc Chemistry	ARYA RAJAN	INTERNSHIP
4	BSc Chemistry	Shaham T C	INTERNSHIP
5	BSc Chemistry	AKHIL RATHEESH KAVUNGAL	INTERNSHIP
6	BSc Chemistry	Elizabeth Aleena M M	INTERNSHIP
7	BSc Chemistry	Gayathry sudheer v	INTERNSHIP
8	BSc Chemistry	Athulya Mol	INTERNSHIP
9	BSc Chemistry	Anagha Anil	INTERNSHIP
10	BSc Chemistry	NANDITHA T B	INTERNSHIP
11	BSc Chemistry	Amrutha Rajesh	INTERNSHIP
12	BSc Chemistry	DHAYA SANTHOSH	INTERNSHIP
13	BSc Chemistry	ANAGHA UNNI	INTERNSHIP
14	BSc Chemistry	ASWATHY S	INTERNSHIP
15	BSc Chemistry	Amrutha Rajesh	INTERNSHIP
16	BSc Chemistry	AMAL.K.A	INTERNSHIP
17	BSc Chemistry	Fausiya vs	INTERNSHIP
18	BSc Chemistry	Anzalna basheer	INTERNSHIP
19	BSc Chemistry	JITHIN JOHNY	INTERNSHIP
20	BSc Chemistry	APARNA PRADEEP	INTERNSHIP





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21	BSc Chemistry	MEENAKSHI KRISHNAN	INTERNSHIP
22	BSc Chemistry	GOWRY K R	INTERNSHIP
23	BSc Chemistry	Jimcy Antony M.A	INTERNSHIP
24	BSc Chemistry	ROSHNA SHAJI	INTERNSHIP
25	BSc Chemistry	Ashna N N	INTERNSHIP
26	BSc Chemistry	Albin Antony	INTERNSHIP
27	BSc Chemistry	Anjana.K.A	INTERNSHIP
28	BSc Chemistry	Thameeza Fathima P.N	INTERNSHIP
29	BSc Chemistry	Amrithesh ng	INTERNSHIP
30	BSc Chemistry	Fidha fathima KH	INTERNSHIP
31	BSc Chemistry	Rinshad v s	INTERNSHIP
32	BSc Chemistry	JAYADEVAN C M	INTERNSHIP
33	BSc Chemistry	Nayana Mukund C	INTERNSHIP
34	BSc Chemistry	Nirmal Prince	INTERNSHIP
35	BSc Chemistry	Digma Antony abrao	INTERNSHIP
36	BSc Chemistry	NANDANA UNNIKRISHNAN	INTERNSHIP
37	BSc Chemistry	Muhammed Sahal.A.S	INTERNSHIP
38	BSc Chemistry	ANJITHA C A	INTERNSHIP
39	BSc Chemistry	Prannay p kumar	INTERNSHIP
40	BSc Chemistry	Adwaith Bhaskar J	INTERNSHIP
41	BSc Chemistry	Alan T Anas	INTERNSHIP
42	BSc Chemistry	ASLAM ES	INTERNSHIP
43	MSc Chemistry	Abhinav Krishna .U	INTERNSHIP
44	MSc Chemistry	Abhiram Anand .P	INTERNSHIP
45	MSc Chemistry	Ahina James Mathew	INTERNSHIP







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46	MSc Chemistry	Althaf M. S	INTERNSHIP
47	MSc Chemistry	Annmol Jaison	INTERNSHIP
48	MSc Chemistry	Arun P. V	INTERNSHIP
49	MSc Chemistry	Farzana Faisal	INTERNSHIP
50	MSc Chemistry	Faseela A. K	INTERNSHIP
51	MSc Chemistry	Mary Lidiya	INTERNSHIP
52	MSc Chemistry	Muhammed Ashid .N	INTERNSHIP
53	MSc Chemistry	Noyal Jos D. J	INTERNSHIP
54	MSc Chemistry	Shalu .S	INTERNSHIP
55	MSc Chemistry	Shuhaib K. H	INTERNSHIP
56	MSc Chemistry	Stephania Mendez	INTERNSHIP





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## CERTIFICATE

This is to certify that Mr. **ABHINAVKRISHNA .U.**, Reg.No.220011012990 has carried out the project work entitled "DENSITY FUNCTIONAL THEORY STUDIES ON ENERGY LEVEL TUNING IN PHENYLPHENAZINE ISOMERS." at the Department of Chemistry, Government College for Women, Thiruvananthapuram under my supervision.

*Retheesh K.*  
**Dr. RETHEESH K.**  
 Assistant Professor of Chemistry  
 Govt. College for Women  
 Vazhuthacaud, Thiruvananthapuram - 695 014

Place: *Thiruvananthapuram*

Dr. Retheesh K.

Date: *19/07/2016*

Assistant professor

Department of Chemistry

Govt. Collage for women





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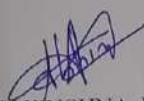
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## DECLARATION

I hereby declare that the work "*DENSITY FUNCTIONAL THEORY STUDIES ON ENERGY LEVEL TUNING IN PHENYLPHENAZINE ISOMERS.*" embodied in the report is an authentic record of the project work carried out as a part of my M.Sc. studies under the guidance of Dr. Rethesh K, Assistant professor, Department of Chemistry, Government College for Women, Thiruvananthapuram.

  
ABHINAV KRISHNA .U.

M Sc. Chemistry

Department of Chemistry

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DENSITY FUNCTIONAL THEORY STUDIES ON  
ENERGY LEVEL TUNING IN PHENYLPHENAZINE  
ISOMERS.

A dissertation submitted to  
MAHATMA GANDHI UNIVERSITY  
in partial fulfillment of the requirements for the award of degree of  
MASTER OF SCIENCE IN CHEMISTRY

SUBMITTED BY  
ABHINAV KRISHNA .U.  
Reg. No. 220011012990



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Under the supervision of  
Dr. Rethesh K.



Department of Chemistry  
Government College for Women,  
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1





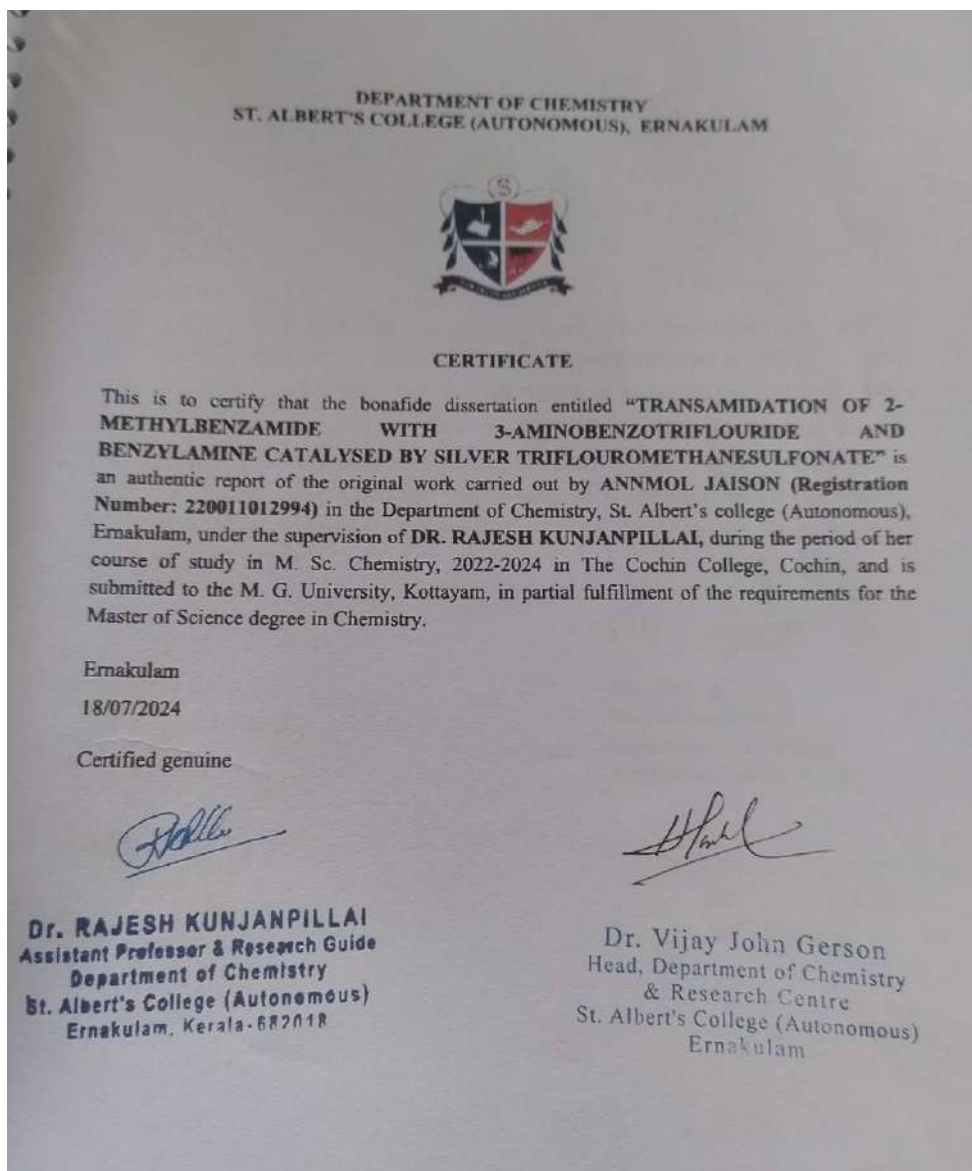
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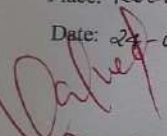
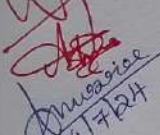

  
 CERTIFICATE

This is to certify that the dissertation titled 'TRANSAMIDATION OF 2-METHYLBENZAMIDE WITH 3-AMINO BENZOTRIFLOURIDE AND BENZYLAMINE CATALYSED BY SILVER TRIFLOUROMETHANESULFONATE' is an authentic and original work conducted by ANNMOL JAISON (Registration Number: 220011012994) in the Department of Chemistry, St. Albert's college (Autonomous), Ernakulam, during the academic year 2023-2024. This dissertation is submitted to M. G. University, Kottayam, in partial fulfillment of the requirements for the Master of Science degree in Chemistry

Place: Kochi  
Date: 24-07-2024

For, Nov 24  
 Mrs. Vidhya Joseph  
 Head of Department  
 Department of Chemistry  
 The Cochin College, Kochi

Examiners

1. 
2. 
3.   
24/7/24

Head  
 PG Department of Chemistry  
 The Cochin College  
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## DECLARATION

I, ANNMOL JAISON, a final-year M. Sc. Chemistry student, solemnly declare that the project work titled 'TRANSAMIDATION OF 2-METHYLBENZAMIDE WITH 3-AMINOBENZOTRIFLOURIDE AND BENZYLAMINE CATALYSED BY SILVER TRIFLOUROMETHANESULFONATE' is a genuine and original work accomplished by me under the expert guidance of DR. RAJESH KUNJANPILLAI, Assistant Professor of Chemistry, St. Albert's College (Autonomous), Ernakulam. This work has not been submitted or included in any other report for the purpose of obtaining any academic degree or qualification.

Ernakulam

  
ANNMOL JAISON

Reg No: 220011012994







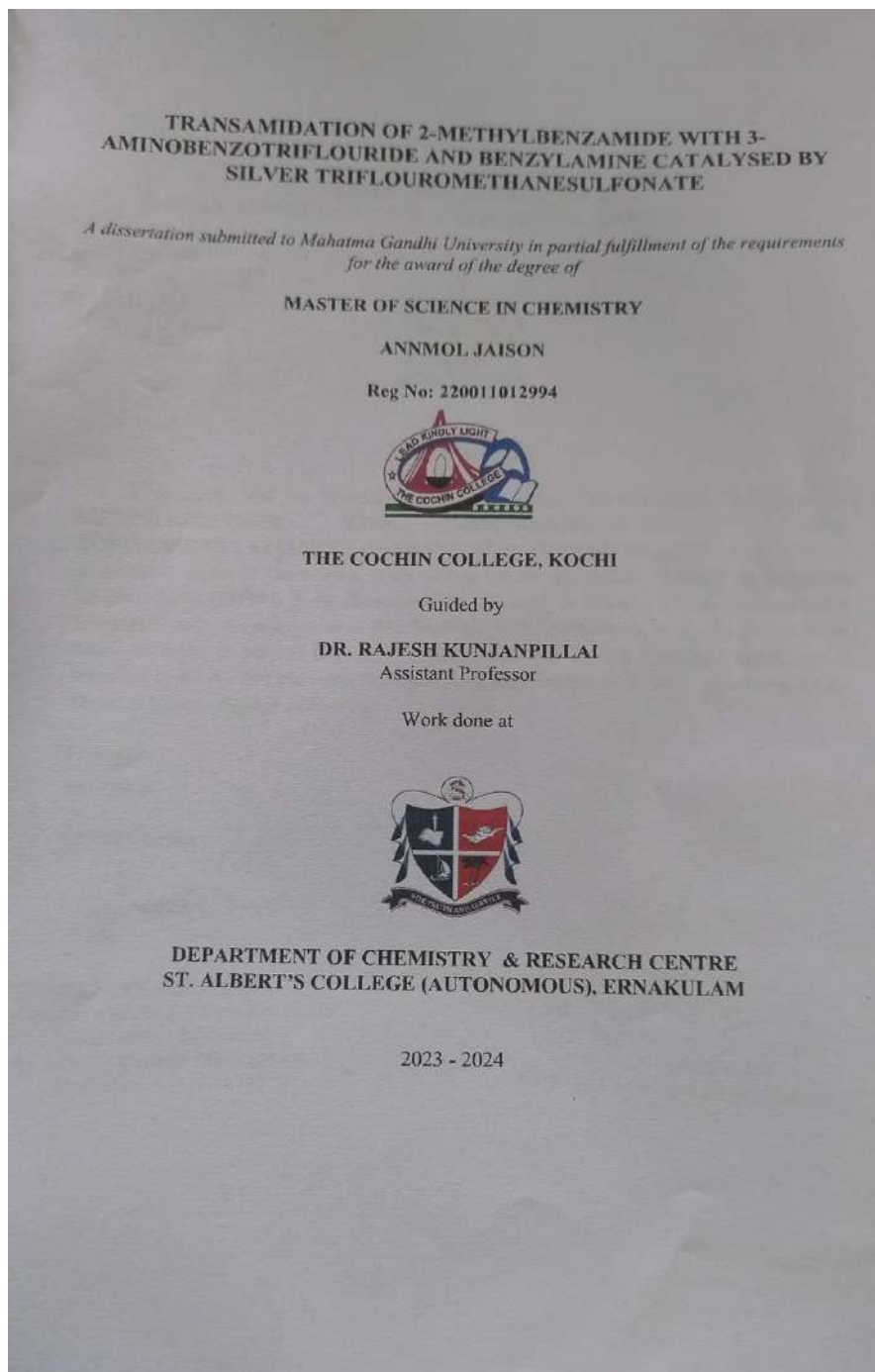
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Synthesis and study of surface stability of anthracene coated silica nanoparticles

*A dissertation submitted to Mahatma Gandhi University in partial fulfillment of the requirements for the award of the degree of*

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STEPHANIA MENDEZ

Reg No: 220011013003



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Guided by

**Dr. SHANTHIL M.**

**Assistant Professor**

**Department of Chemistry,**

**Government Victoria College, Palakkad**

Work done at



RESEARCH DEPARTMENT OF CHEMISTRY

GOVERNMENT VICTORIA COLLEGE

PALAKKAD

2023-2024





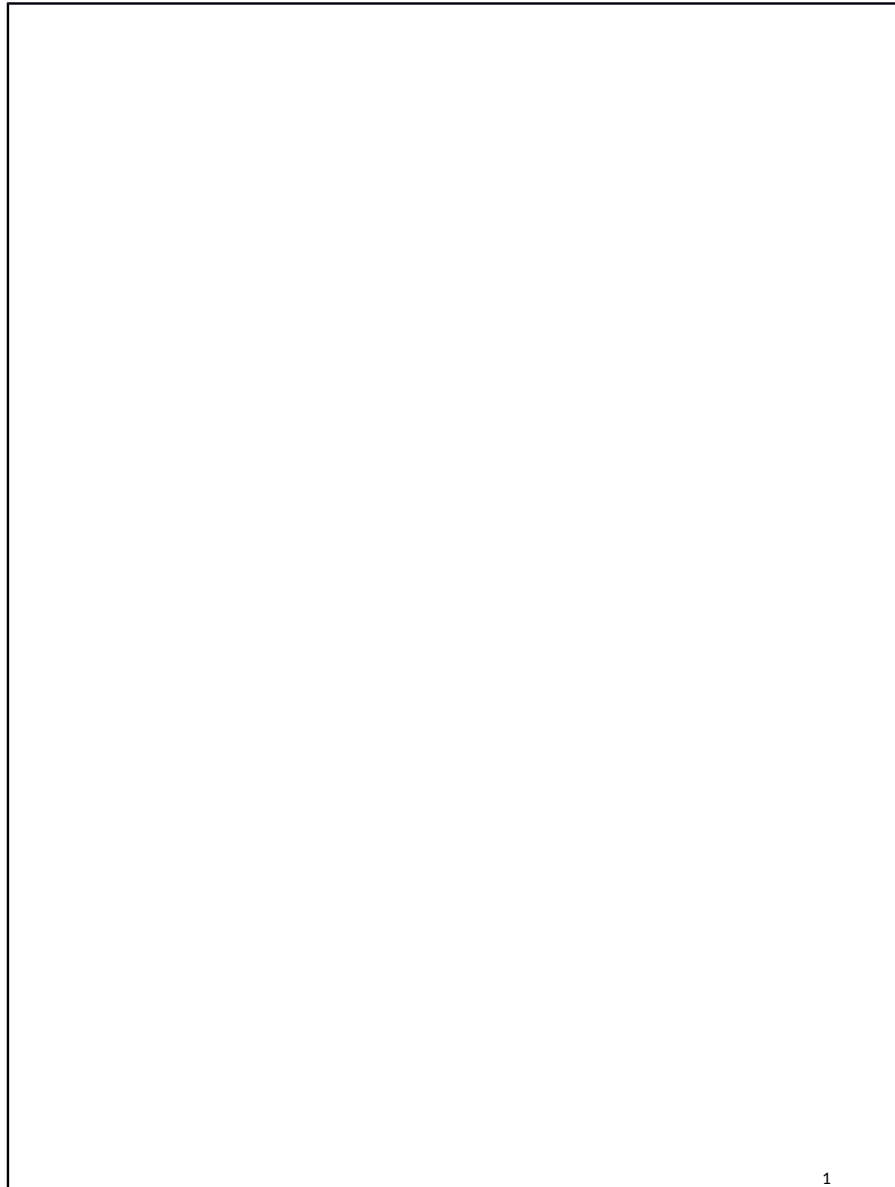
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**SYNTHESIS, CHARACTERIZATION, AND CATALYTIC  
APPLICATION OF COPPER TRIAZINE-BASED POROUS  
ORGANIC POLYMER**

*A dissertation submitted to Mahatma Gandhi University in partial fulfillment of the  
requirements for the award of the degree of*

**MASTER OF SCIENCE IN CHEMISTRY**

By

SHUHAIB K H

**Reg no: 220011013002**



**THE COCHIN COLLEGE, KOCHI**

Under the guidance of

**Dr. Kala R**

**DEPARTMENT OF APPLIED CHEMISTRY**

**COCHIN UNIVERSITY OF SCIENCE AND TECHNOLOGY**

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TRANSAMIDATION OF 4-METHOXYBENZAMIDE WITH  
3-METHYLANILINE AND BENZYLAMINE CATALYSED BY SILVER  
TRIFLOUROMETHANESULFONATE

*A dissertation submitted to Mahatma Gandhi University in partial fulfillment of the requirements  
for the award of the degree of*

MASTER OF SCIENCE IN CHEMISTRY

SHALU S

Reg No: 220011013001



THE COCHIN COLLEGE, KOCHI

Guided by

DR. RAJESHKUNJANPILLAI  
Assistant Professor

Work done at



DEPARTMENT OF CHEMISTRY & RESEARCH CENTRE  
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2023- 2024





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ST. ALBERT'S COLLEGE (AUTONOMOUS), ERNAKULAM



## CERTIFICATE

This is to certify that the bonafide dissertation entitled "TRANSAMIDATION OF 4-METHOXYBENZAMIDE WITH 3-METHYLANILINE AND BENZYLAMINE CATALYSED BY SILVER TRIFLOUROMETHANESULFONATE" is an authentic report of the original work carried out by SHALU S (Reg. No: 220011013001) in the Department of Chemistry, St. Albert's college (Autonomous), Ernakulam, under the supervision of DR. RAJESH KUNJANPILLAI, during the period of her course of study in M. Sc. Chemistry, 2022-2024 in The Cochin College, Cochin, and is submitted to the M. G. University, Kottayam, in partial fulfillment of the requirements for the Master of Science degree in Chemistry.

Ernakulam

18/07/2024

Certified genuine

**Dr. RAJESH KUNJANPILLAI**  
Assistant Professor & Research Guide  
Department of Chemistry  
St. Albert's College (Autonomous)  
Ernakulam, Kerala-682018

**Dr. Vijay John Gerson**  
Head, Department of Chemistry  
& Research Centre  
St. Albert's College (Autonomous)  
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Examiners:

- 1.
- 2.
- 3.

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*For* *[Signature]*

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## DECLARATION

I, SHALU S, a final-year M. Sc. Chemistry student, solemnly declare that the project work titled "TRANSAMIDATION OF 4-METHOXYBENZAMIDE WITH 3-METHYLANILINE AND BENZYLAMINE CATALYSED BY SILVER TRIFLOUROMETHANE SULFONATE" is a genuine and original work accomplished by me under the expert guidance of DR. RAJESH KUNJANPILLAI, Assistant Professor of Chemistry, St. Albert's College (Autonomous), Ernakulam. This work has not been submitted or included in any other report for the purpose of obtaining any academic degree or qualification.

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## ACKNOWLEDGEMENT

I would like to express my heartfelt gratitude to several individuals who contributed to the successful completion of my project.

First and foremost, I thank GOD Almighty for his blessings throughout my journey.

I owe a profound debt of gratitude to my project guide, Dr. Rajesh Kunjanpillai, Assistant Professor of Chemistry, St. Albert's College (Autonomous), Ernakulam, whose invaluable guidance and advice were instrumental in the completion of my work .

I am deeply grateful to Dr. Vijay John Gerson, Head of the Department of Chemistry, St. Albert's College (Autonomous), Ernakulam, for granting me permission to conduct my project at the college and for her encouragement.

I also thank Ms. Meenu M. S., CSIR-SRF, Department of Chemistry, St. Albert's College (Autonomous), Ernakulam, for her whole hearted support and guidance throughout the project..

I extend my sincere thanks to Ms. Vidya Joseph, Head of the Department of Chemistry, The Cochin College, Kochi, for her wholehearted support.

I am also thankful to my esteemed teachers, Prof. K. J. Jerly, Ms. Noufiya T. N and Ms. Georgina, Department of Chemistry, The Cochin College, Cochin, for their valuable advice, support, and guidance throughout my project.

Last but not least, I thank my loving parents and dear friends for their unwavering love and support.

SHALU S





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A STUDY ON NATURAL RUBBER/LAYERED DOUBLE HYDROXIDE (LDH)  
SYSTEM

Dissertation submitted to

MAHATMA GANDHI UNIVERSITY

In partial fulfilment of the requirement for the award of the degree

MASTER OF SCIENCE IN CHEMISTRY

SUBMITTED BY

NOYAL JOS D. J.

Reg. No. 220011013000



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GUIDED BY

Dr. ANEESA P



School of Chemical Sciences

Mahatma Gandhi University

Kottayam

2022-2024





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DEPARTMENT OF CHEMISTRY

**CERTIFICATE**

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For, *Nouba*  
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 Head of Department  
 Department of Chemistry  
 The Cochin College, Kochi

Place: Kochi  
 Date: 24-07-2024

Head  
 PG Department of Chemistry  
 The Cochin College  
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Examiners:

1. *Pepini Joseph*
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3. *Anusree K.U*







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Dr. ANEESA P  
Assistant Professor  
School of Chemical Sciences

23<sup>rd</sup> July 2024

## Certificate

This is to certify that the dissertation entitled "A STUDY ON NATURAL RUBBER/LAYERED DOUBLE HYDROXIDE (LDH) SYSTEM" submitted by Mr. Noyal Jos D. J, in partial fulfilment for the award of degree of Master of Science in Chemistry to The Cochin College, Kochi (Affiliated to M. G University, Kottayam), is an authentic and bonafide record of work carried out under my supervision at the School of Chemical Sciences, Mahatma Gandhi University, Kottayam.

With Warm Regards

*Aneesa*  
23/07/24

Dr. ANEESA P

Dr. ANEESA P  
Assistant Professor  
School of Chemical Sciences  
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## DECLARATION

I hereby declare that the work entitled "A STUDY ON NATURAL RUBBER/LAYERED DOUBLE HYDROXIDE (LDH) SYSTEM" submitted to Mahatma Gandhi University in partial fulfillment for the award of the Degree of Master of Science in Chemistry is a record of original project work done by me at School of Chemical Science, MG University, Kottayam, during the period of study (2022-2024) under the guidance of Dr. ANEESA P, Assistant professor, School of Chemical Science, MG University, Kottayam. This project has not been submitted for the award of any other degree of any other University or Institute earlier.

NOYAL JOS D J

REG NO: 220011013000

Place : Kochi

Date : 24/7/2024







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**"Synthesis, characterization and antibacterial studies of dihydrazone ligand and their metal complexes"**

*A dissertation submitted to Mahatma Gandhi University in partial fulfillment of the requirements for the award of the degree of*

MASTER OF SCIENCE IN CHEMISTRY

2022 - 2024



By

MUHAMMED ASHID N

Reg No: 220011012999

Under the guidance of

Asst. Prof. Georgina Grace T W

POST GRADUATE DEPARTMENT OF CHEMISTRY

THE COCHIN COLLEGE, COCHIN-2





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## CERTIFICATE



This is to certify that the bonafide dissertation entitled “**Synthesis, characterization and antibacterial studies of dihydrazone ligand and their metal complexes**” is an authentic report of the original work of **MUHAMMED ASHID N (Reg No: 220011012999)**, carried out in partial fulfillment of the requirements for the award of the degree of MSc. in Chemistry of M. G. University under the guidance of **Georgina Grace T W**, Assistant Professor, PG Department of Chemistry, The Cochin College, Cochin – 2.

Place: Kochi

Date: 24/07/2024

### Examiners

1. *Devin Joseph*
  2. *Ashna R*
  3. *Anusree K. U*
- 24/07/24*  
*Anusree*  
*24/7/24*

For, *NSJ*

Mrs. Vidya Joseph

Head of Department

PG Department of Chemistry

The Cochin College, Cochin-2

Head

PG Department of Chemistry

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1





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## CERTIFICATE



This is to certify that the bonafide dissertation entitled “**Synthesis, characterization and antibacterial studies of dihydrazone ligand and their metal complexes**” is an authentic report of the original work of **MUHAMMED ASHID N(Reg No: 220011012999)**, carried out in partial fulfillment of the requirements for the award of the degree of MSc. in Chemistry of M. G. University under my guidance. This project work is original and not submitted earlier for the award of any degree / diploma or assistantship of any other university / institution.

Place: *Kochi*Date: *24/07/2024*

Georgina Grace T W

Assistant Professor

PG Department of Chemistry

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## DECLARATION

I, MUHAMMED ASHID N of final year M.Sc. Chemistry, hereby declare that the project work entitled "Synthesis, characterization and antibacterial studies of dihydrazone ligand and their metal complexes" is an authentic record of the original work done by me under the guidance of Georgina Grace T W, Asst. Professor of Chemistry, The Cochin College, Cochin - 2. This work has not been included any other report for the award of any degree.

24/07/2024

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Reg No: 220011012999

Muhammed Ashid N

1





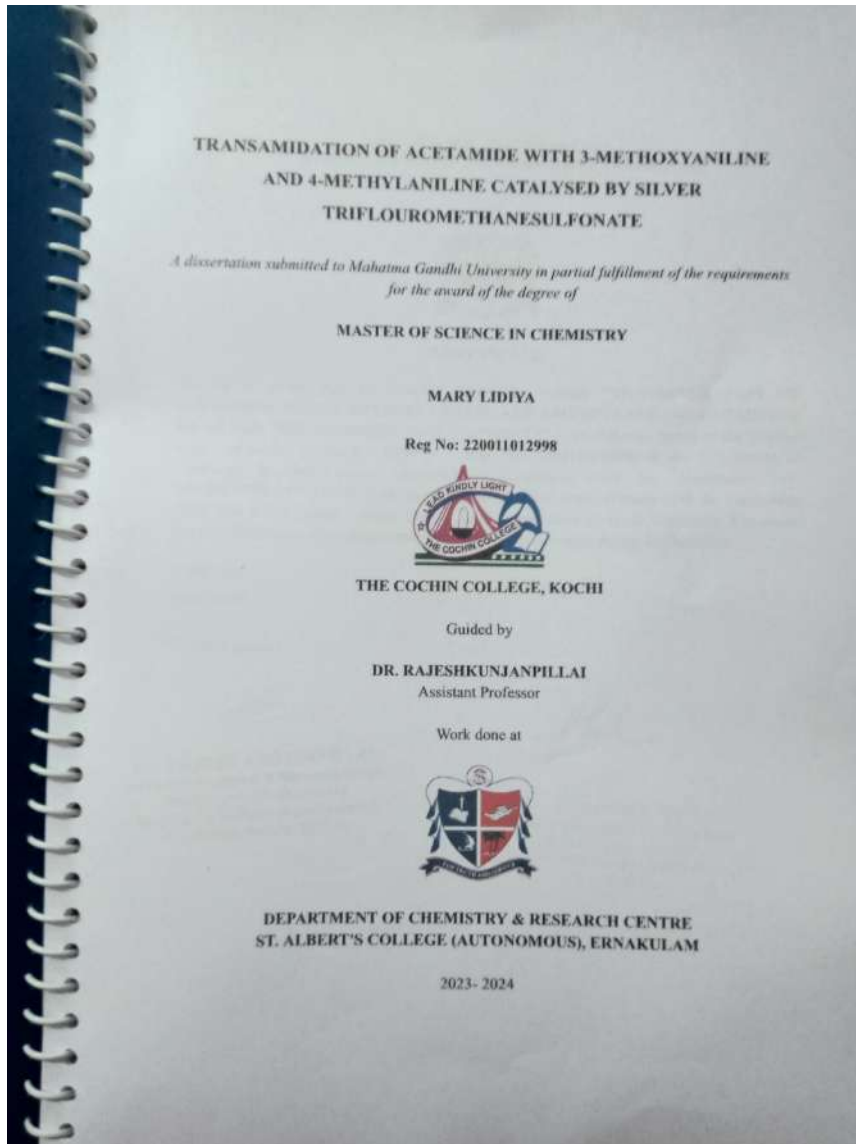
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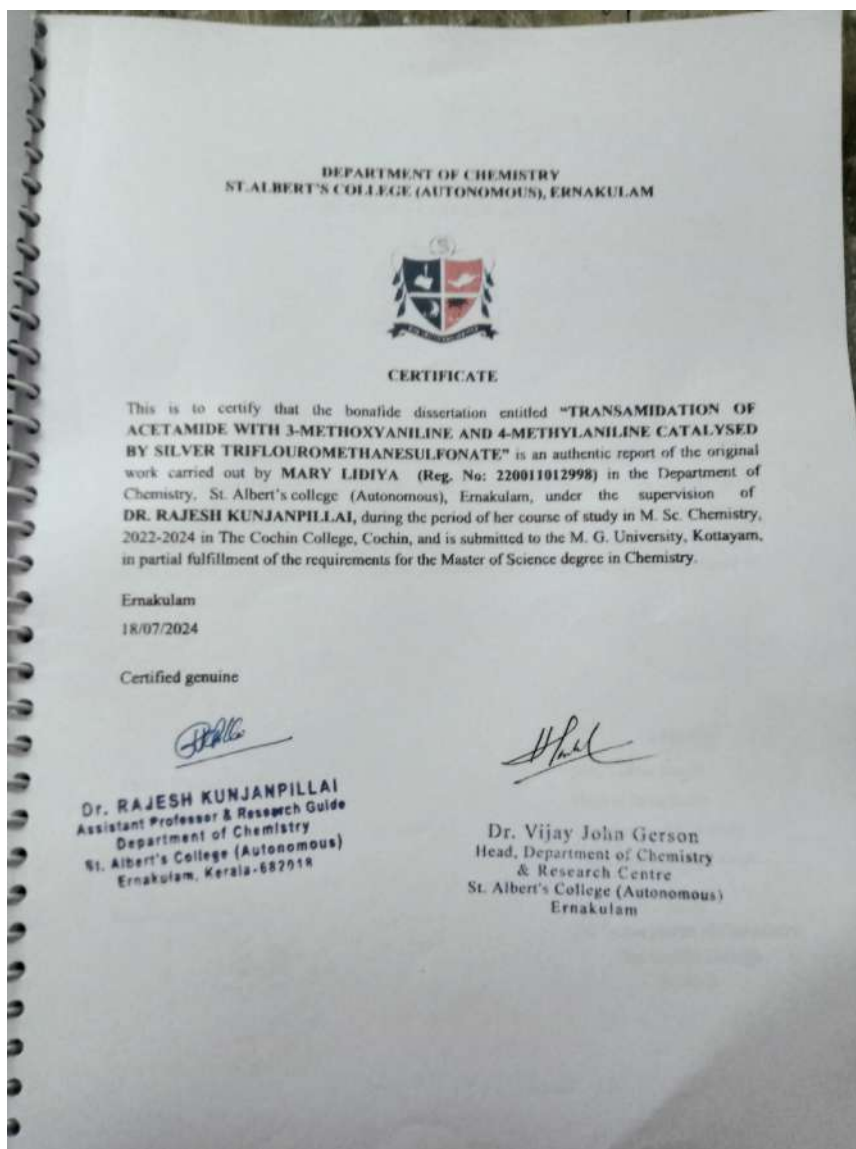
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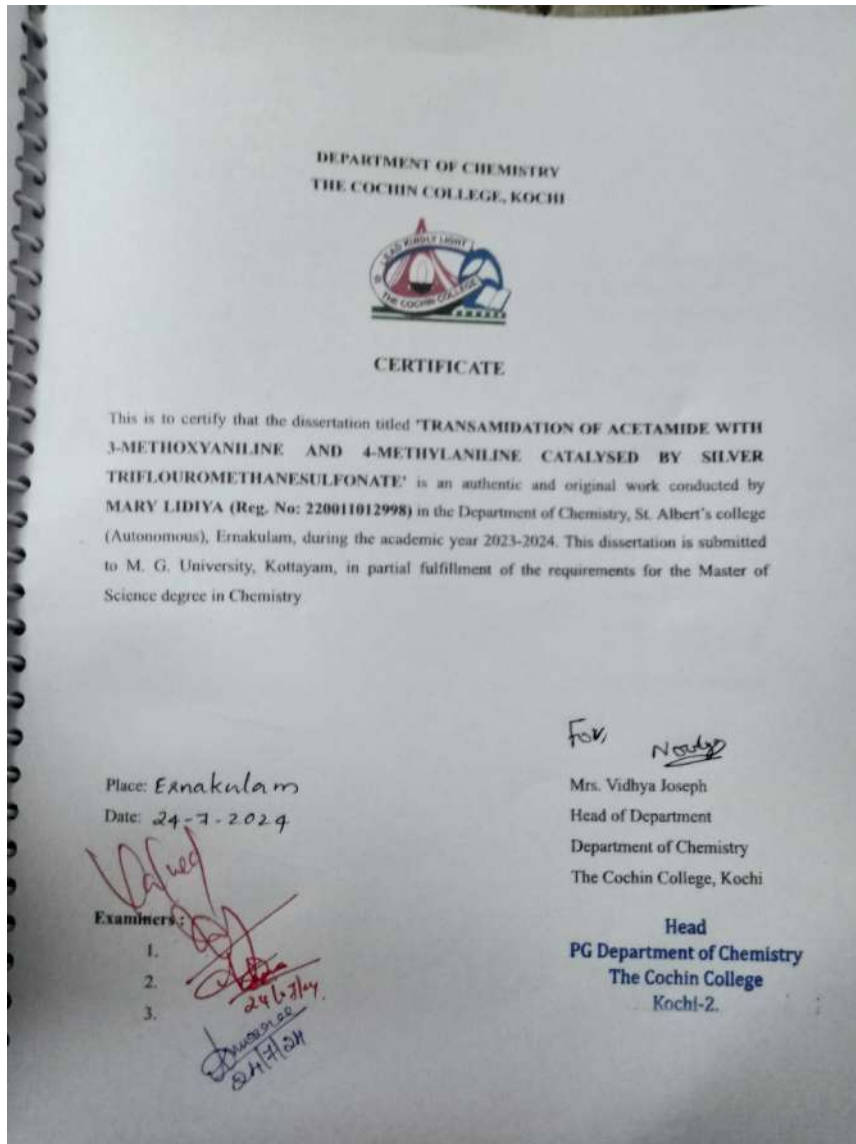
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email: [email@thecochincollege.edu.in](mailto:email@thecochincollege.edu.in)

## DECLARATION

I, MARY LIDIYA, a final-year M. Sc. Chemistry student, solemnly declare that the project work titled 'TRANSAMIDATION OF ACETAMIDE WITH 3-METHOXYANILINE AND 4-METHYLANILINE CATALYSED BY SILVER TRIFLOUROMETHANE SULFONATE' is a genuine and original work accomplished by me under the expert guidance of DR. RAJESH KUNJANPILLAI, Assistant Professor of Chemistry, St. Albert's College (Autonomous), Ernakulam. This work has not been submitted or included in any other report for the purpose of obtaining any academic degree or qualification.

Ernakulam

18-07-2024

*Mary Lidiya*

MARY LIDIYA

Reg No: 220011012998





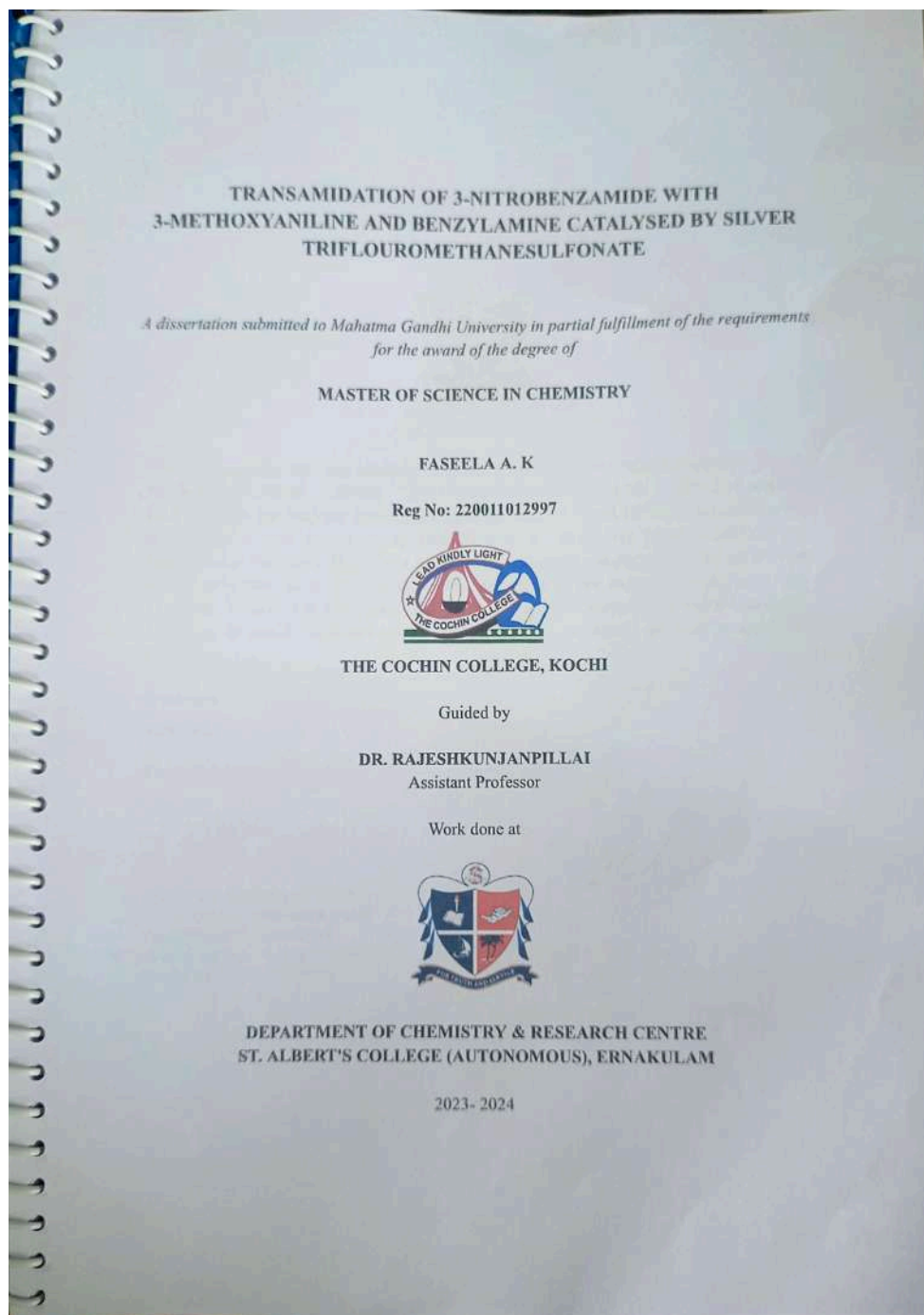
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DEPARTMENT OF CHEMISTRY  
THE COCHIN COLLEGE, KOCHI



## CERTIFICATE

This is to certify that the dissertation titled 'TRANSAMIDATION OF 3-NITROBENZAMIDE WITH 3-METHOXYANILINE AND BENZYLAMINE CATALYSED BY SILVER TRIFLOUROMETHANESULFONATE' is an authentic and original work conducted by FASEELA A. K (Registration Number: 220011012997) in the Department of Chemistry, St. Albert's college (Autonomous), Emakulam, during the academic year 2023-2024. This dissertation is submitted to M. G. University, Kottayam, in partial fulfillment of the requirements for the Master of Science degree in Chemistry

Place: Kochi  
Date: 24-07-2024

Examiners:

- 1.
- 2.
- 3.

24/07/24  
Dr. Anusree  
24/7/24

For: *N. Vidhya*

Mrs. Vidhya Joseph  
Head of Department  
Department of Chemistry  
The Cochin College, Kochi

Head  
PG Department of Chemistry  
The Cochin College  
Kochi-2.





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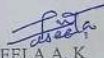
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## DECLARATION

I, FASEELA A. K, a final-year M. Sc. Chemistry student, solemnly declare that the project work titled 'TRANSAMIDATION OF 3-NITROBENZAMIDE WITH 3-METHOXYANILINE AND BENZYLAMINE CATALYSED BY SILVER TRIFLOUROMETHANESULFONATE' is a genuine and original work accomplished by me under the expert guidance of DR. RAJESH KUNJANPILLAI, Assistant Professor of Chemistry, St. Albert's College (Autonomous), Ernakulam. This work has not been submitted or included in any other report for the purpose of obtaining any academic degree or qualification.

Ernakulam

  
FASEELA A. K

18-07-2024

Reg No: 220011012997





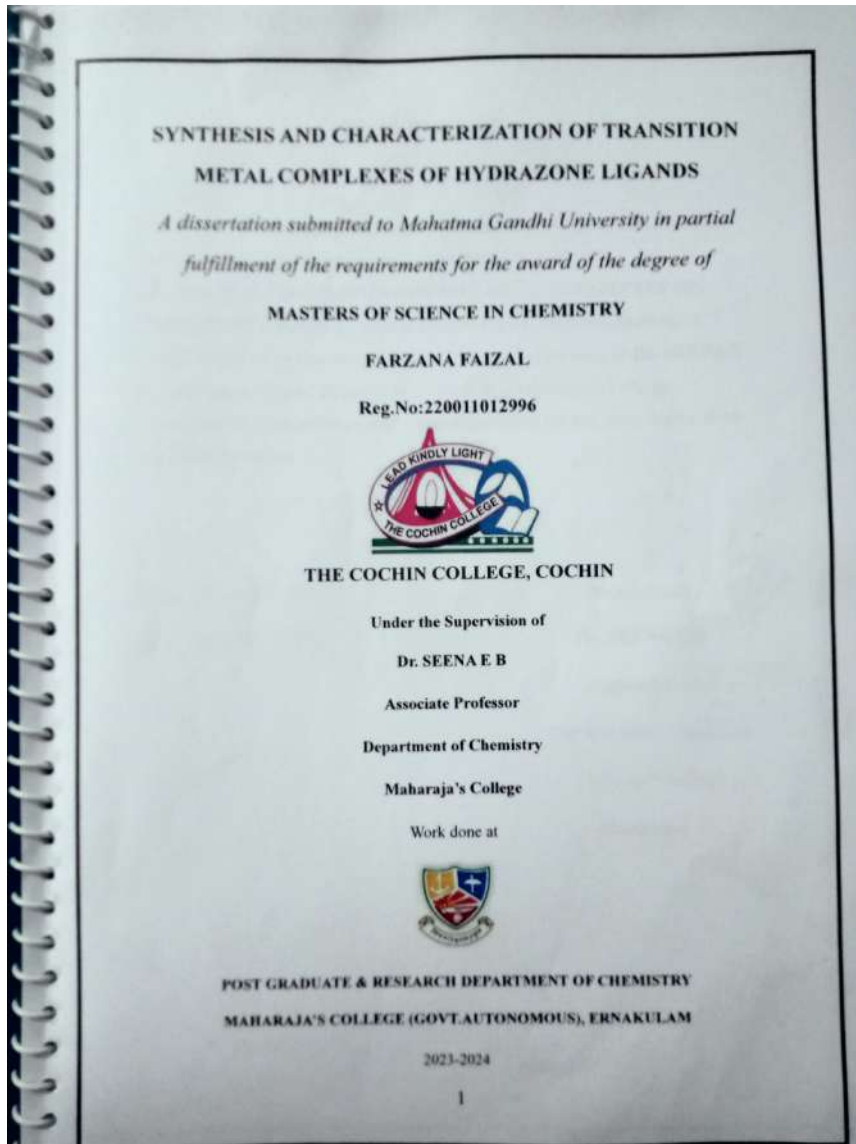
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email: [email@thecochincollege.edu.in](mailto:email@thecochincollege.edu.in)

**CERTIFICATE**

This is to certify that Ms. FARZANA FAIZAL, Reg.No. 220011012996 has carried out the project work entitled "*SYNTHESIS AND CHARACTERIZATION OF TRANSITION METAL COMPLEXES OF HYDRAZONE LIGANDS*" done at Department of chemistry, Maharaja's college of Mahatma Gandhi university. Under the supervision of **Dr. SEENA E B**, Assistant professor, Department of chemistry, Maharaja'S College Ernakulam. No part of this report has been presented for any other degree from any other institution

Place: *Ernakulam* Project Guide *[Signature]*  
 Date: *22/09/2024* **Dr. SEENA E B**  
 Assistant Professor **Dr. SEENA E. B.**  
 Associate Professor **OPEN - 514980**  
 Department of Chemistry **Department of Chemistry**  
 Maharaja's college  
 Ernakulam

2







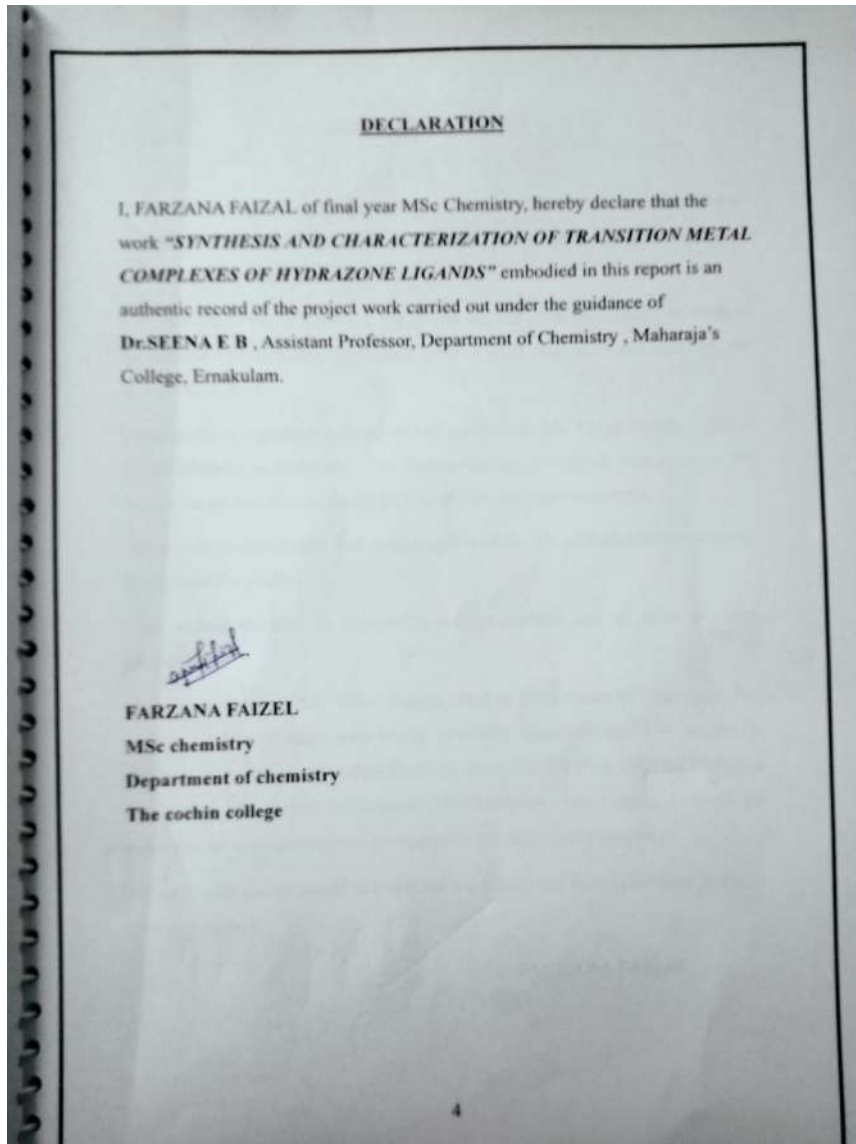
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ECO FRIENDLY ANTIOXIDANT CHITOSAN-ESSENTIAL OIL  
BIODEGRADABLE FILMS FOR FOOD PACKAGING  
APPLICATIONS

A dissertation submitted to Mahatma Gandhi University in partial  
fulfilment of the requirements for the award of the degree of

**MASTER OF SCIENCE IN CHEMISTRY**

ARUN P V

Reg no: 220011012995



The Cochin college, Cochin

Under the supervision of

Dr. VENUGOPAL B

Associate professor

Department of chemistry

Maharajas' college, Ernakulam



POST GRADUATE DEPARTMENT OF CHEMISTRY,  
MAHARAJA'S COLLEGE ERNAKULAM

(2023-2024)

1





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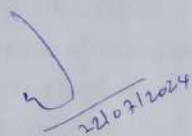
email: [email@thecochincollege.edu.in](mailto:email@thecochincollege.edu.in)

## CERTIFICATE

This is to certify that the bonafide dissertation entitled "ECO FRIENDLY ANTIOXIDANT CHITOSAN-ESSENTIAL OIL BIODEGRADABLE FILMS FOR FOOD PACKAGING APPLICATIONS" is an authentic report of the original work of ARUN P V (Reg No: 220011012995), carried out in partial fulfillment of the requirements for the award of the degree of MSc. In Chemistry of M. G. University under the guidance of Dr. VENUGOPAL B, Assistant Professor, PG Department of Chemistry, Maharajas college Ernakulam.

Place: Ernakulam

Date: 22/07/2024

  
22/07/2024  
Dr. VENUGOPAL B

Assistant professor

Department of chemistry

Maharaja's college Ernakulam

**Dr. Venugopal B.**  
(PEN - 593007)  
Associate Professor  
Department of Chemistry  
Maharaja's College,  
Ernakulam-682 011

2





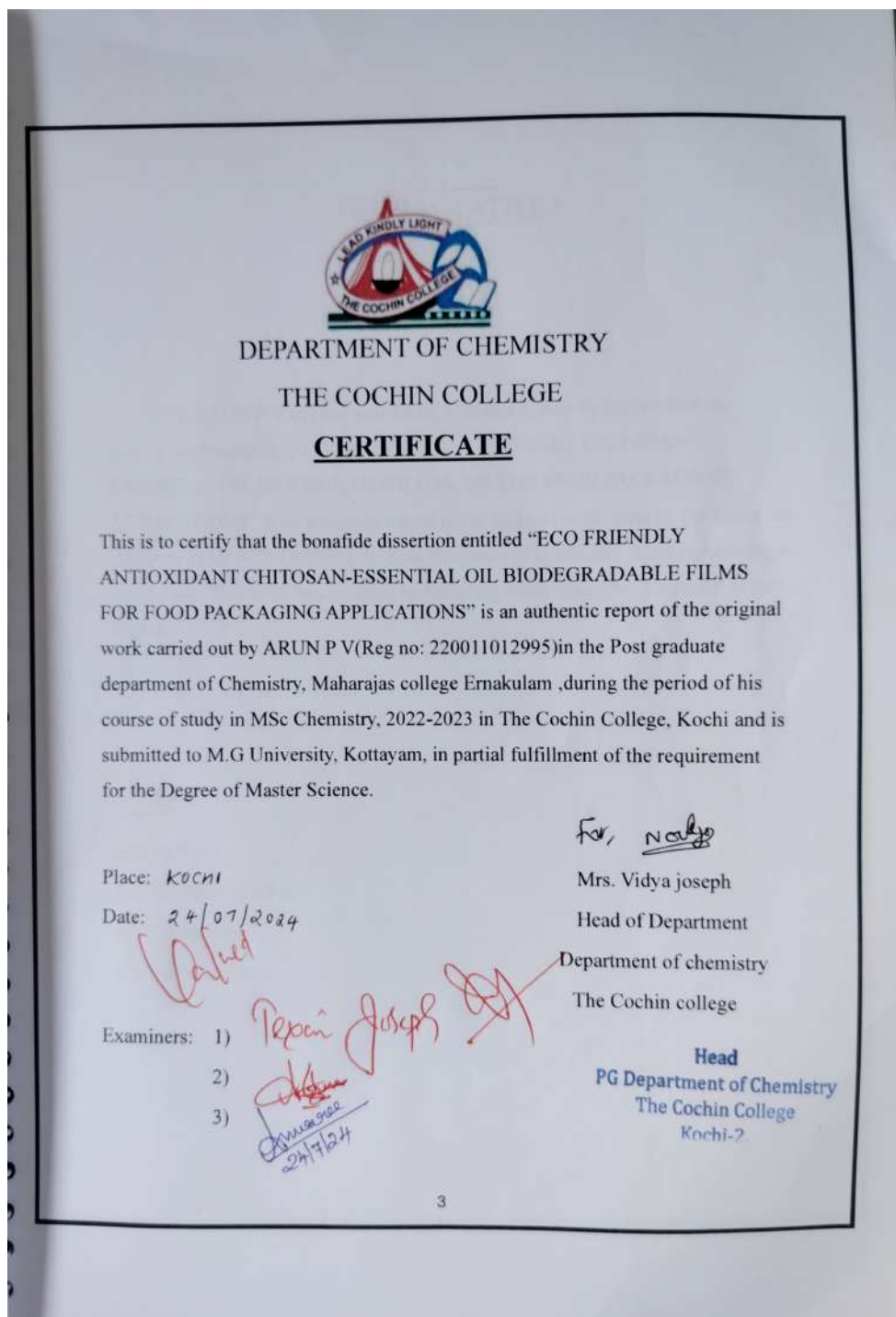
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email: [email@thecochoincollege.edu.in](mailto:email@thecochoincollege.edu.in)

## DECLARATION

I, ARUN P V of final year M.Sc. Chemistry, hereby declare that the project work entitled "ECO FRIENDLY ANTIOXIDANT CHITOSAN- ESSENTIAL OIL BIODEGRADABLE FILMS FOR FOOD PACKAGING APPLICATIONS" is an authentic record of the original work done by me under the guidance of Dr. VENUGOPAL B, Asst. Professor of Chemistry, Maharajas college Ernakulam. This work has not been included any other report for the award of any degree.

Arun

ARUN P V

Reg no: 220011012995

MSC chemistry

The Cochin college

4







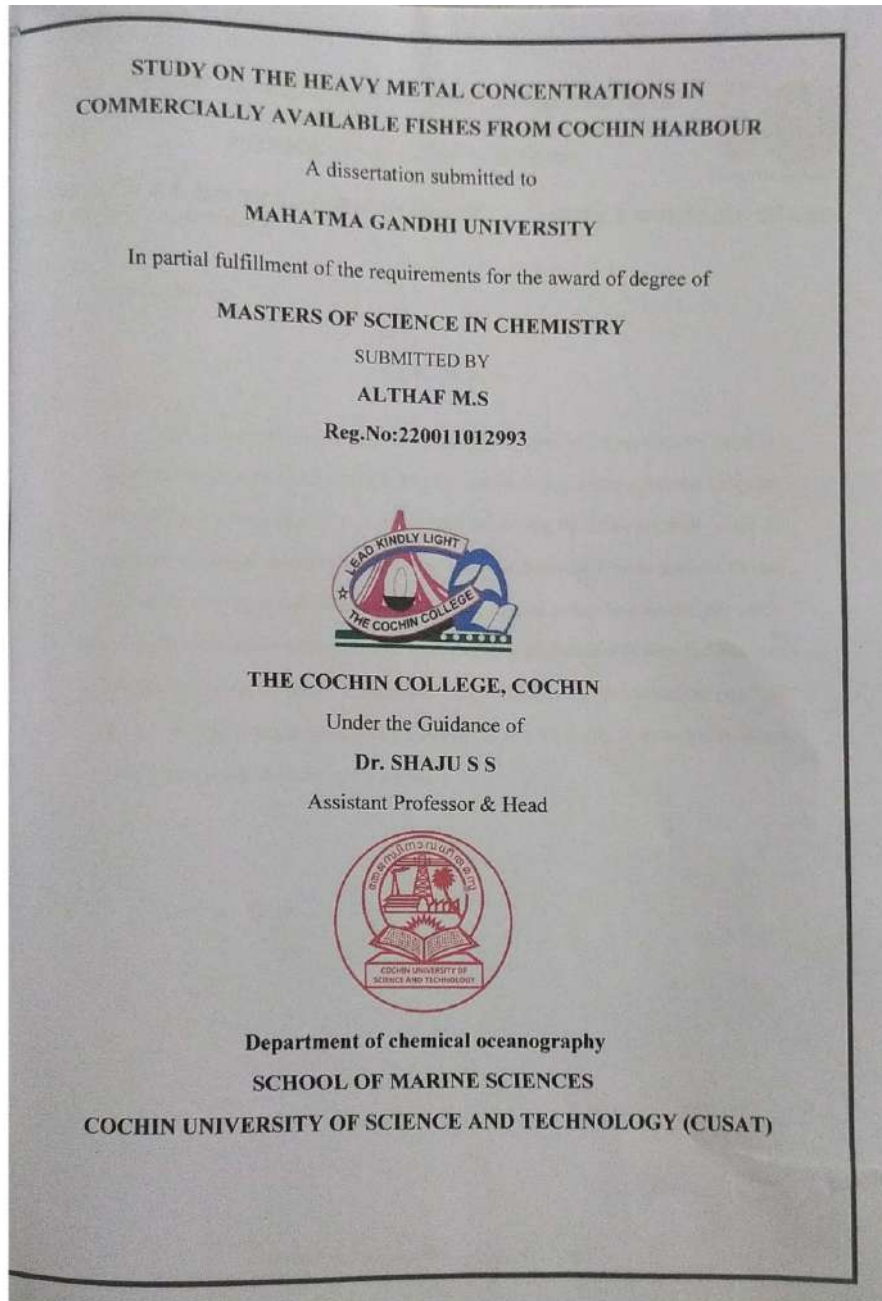
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*Mendula Menon V.*  
Mrudula Menon V.  
Principal-in-Charge  
The Cochin College





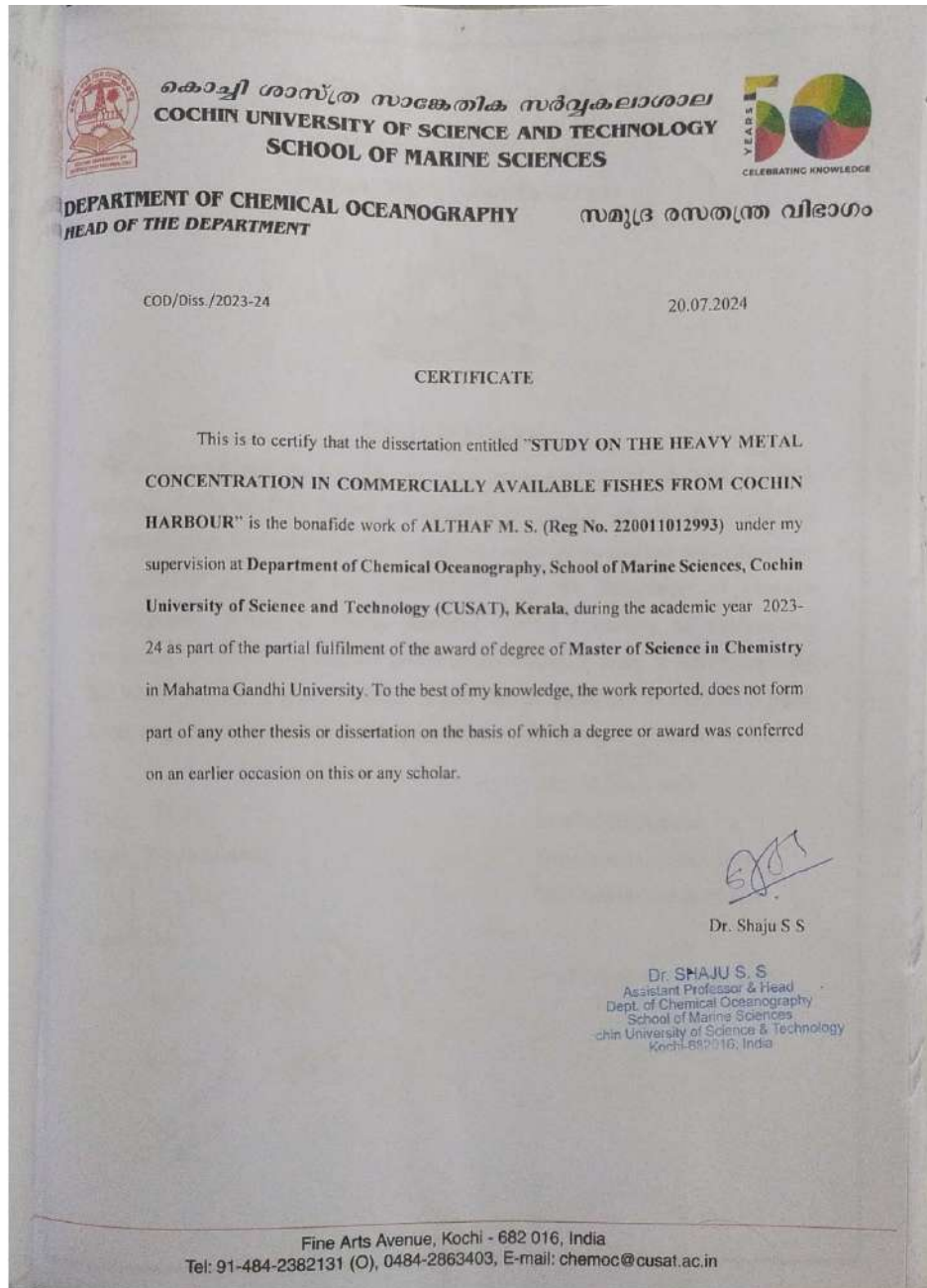
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**Mrudula Menon V.**  
**Principal-in-Charge**  
**The Cochin College**



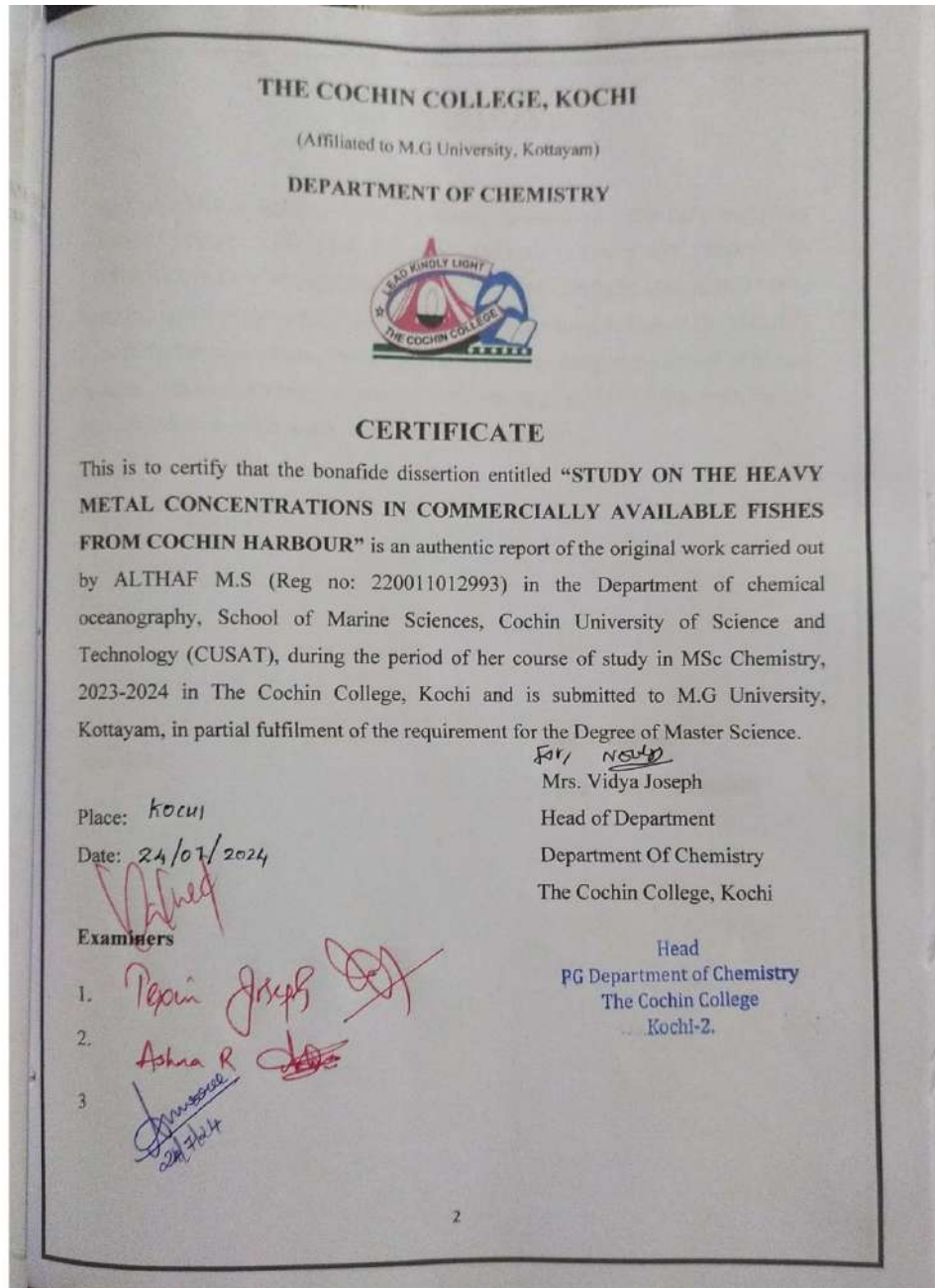
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email: [email@thecochincollege.edu.in](mailto:email@thecochincollege.edu.in)

DECLARATION

I, ALTHAF M.S of final year M.Sc. Chemistry, hereby declare that the project work entitled "STUDY ON THE HEAVY METAL CONCENTRATIONS IN COMMERCIALY AVAILABLE FISHES FROM COCHIN HARBOUR" is an authentic record of the original work done by me under the guidance of Dr. SHAJU S S, Asst. Professor and Head, Department of chemical oceanography, School of Marine Sciences, Cochin University of Science and Technology (CUSAT). This work has not been included any other report for the award of any degree.

  
 ALTHAF M.S  
 Reg No: 220011012993

Ernakulam

3

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## TRANSAMIDATION OF 3-METHYLBENZAMIDE WITH 3-METHYLANILINE AND BENZYLAMINE CATALYSED BY SILVER TRIFLOUROMETHANESULFONATE

*A dissertation submitted to Mahatma Gandhi University in partial fulfillment of the requirements for the award of the degree of*

**MASTER OF SCIENCE IN CHEMISTRY**

**AHINA JAMES MATHEW**

**Reg No: 220011012992**



**THE COCHIN COLLEGE, KOCHI**

Guided by

**DR. RAJESH KUNJANPILLAI**  
Assistant Professor

Work done at



**DEPARTMENT OF CHEMISTRY & RESEARCH CENTRE  
ST. ALBERT'S COLLEGE (AUTONOMOUS), ERNAKULAM**

2023 - 2024





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DEPARTMENT OF CHEMISTRY  
THE COCHIN COLLEGE, KOCHI



## CERTIFICATE

This is to certify that the dissertation titled 'TRANSAMIDATION OF 3-METHYLBENZAMIDE WITH 3-METHYLANILINE AND BENZYLAMINE CATALYSED BY SILVER TRIFLOUROMETHANESULFONATE' is an authentic and original work conducted by AHINA JAMES MATHEW (Registration Number: 220011012992) in the Department of Chemistry, St. Albert's College (Autonomous), Ernakulam, during the academic year 2023-2024. This dissertation is submitted to M. G. University, Kottayam, in partial fulfillment of the requirements for the Master of Science degree in Chemistry

Place: *Kochi*

Date: *24-07-2024*

Examiners

1.

2.

3.

*Amma*  
*24/7/24*

*For, Nidya*

Mrs. Vidhya Joseph  
Head of Department  
Department of Chemistry  
The Cochin College, Kochi

**Head**

PG Department of Chemistry  
The Cochin College  
Kochi-2.





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## DECLARATION

I, AHINA JAMES MATHEW, a final-year M. Sc. Chemistry student, solemnly declare that the project work titled '**TRANSAMIDATION OF 3-METHYLBENZAMIDE WITH 3-METHYLANILINE AND BENZYLAMINE CATALYSED BY SILVER TRIFLOUROMETHANESULFONATE**' is a genuine and original work accomplished by me under the expert guidance of **DR. RAJESH KUNJANPILLAI**, Assistant Professor of Chemistry, St. Albert's College(autonomous), Ernakulam. This work has not been submitted or included in any other report for the purpose of obtaining any academic degree or qualification.

Ernakulam

18/07/2024

  
AHINA JAMES MATHEW

Reg No: 220011012992







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**CsPbBr<sub>3</sub> PEROVSKITE NANOCRYSTALS COATED PAPER  
SUBSTRATE AS A COST-EFFECTIVE SENSOR FOR THE  
DETECTION OF AMMONIA IN URINE**

Dissertation submitted to

**MAHATMA GANDHI UNIVERSITY**

In partial fulfillment of the requirement for the award of the degree of

**MASTER OF SCIENCE IN CHEMISTRY**

SUBMITTED BY

ABHIRAM ANAND P

Reg. no: 220011012991



**THE COCHIN COLLEGE, KOCHI**

GUIDED BY

**DR. K. SANDEEP**



POST GRADUATE AND RESEARCH DEPARTMENT OF CHEMISTRY GOVERNMENT  
VICTORIA COLLEGE, PALAKKAD

2022-2024

**GOVT. VICTORIA COLLEGE, PALAKKAD**

1





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email: [email@thecochoincollege.edu.in](mailto:email@thecochoincollege.edu.in)



## CERTIFICATE

This is to certify that the project entitled "*CsPbBr<sub>3</sub> PEROVSKITE NANOCRYSTALS COATED PAPER SUBSTRATE AS A COST-EFFECTIVE SENSOR FOR THE DETECTION OF AMMONIA IN URINE*" is an original work conducted by ABHIRAM ANAND P (Reg. No: 220011012991) under the supervision and guidance of Dr. Sandeep K., Assistant Professor, Department of chemistry, Govt. Victoria College, Palakkad in partial fulfilment of the requirements for the award of degree of master of science in pure chemistry under the faculty of the Cochin College, Kochi affiliated to Mahatma Gandhi University, during the academic year 2022-2024.

Dr. SANDEEP K.

Dr. K. Sandeep  
Assistant Professor  
Department of Chemistry  
Government Victoria College  
Govt. Victoria College, Palakkad





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## DECLARATION

I ABHIRAM ANAND P (Reg. No: 220011012991) hereby declare that the project work "CsPbBr<sub>3</sub> PEROVSKITE NANOCRYSTALS COATED PAPER SUBSTRATE AS A COST-EFFECTIVE SENSOR FOR THE DETECTION OF AMMONIA IN URINE" submitted to Mahatma Gandhi University for the partial fulfilment of the requirement for the award of degree of master of science in chemistry during the period of 2022-2024, is a bonafide record of the work done by me under the guidance of Dr. K. Sandeep, Assistant Professor, Department of Chemistry, Government Victoria College, Palakkad and I further declare that this report has not been submitted to any other university or institution for awarding any degree.

ABHIRAM ANAND P

Place: Kochi

Date: 24/07/2024

4





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email: [email@thecochincollege.edu.in](mailto:email@thecochincollege.edu.in)

## Certificate of Completion

This is to certify that 42 students of III B.Sc. Chemistry, Batch 2023-24 have successfully completed internships in various laboratories and industries. This internship program has provided them with practical experience and enhanced their knowledge and skills in the field of chemistry.

We commend their dedication and hard work during this period.

Dr. Zafna Rasheed  
HOD, Dept. of Chemistry





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## List of students

SL No	Name
1	MUHAMMED SAHAL A S
2	ADWAITH BHASKAR J
3	ALBIN ANTONY
4	AMRITESH N G
5	AMRUTHA RAJESH
6	APARNA PRADEEP
7	ASHNA N N
8	ASWATHY S
9	ATHULYA MOL
10	DHAYA SANTHOSH
11	ELIZABETH ALEENA M M
12	FIDHA FATHIMA K H
13	GAYATHRY SUDHEER V
14	GOWRY K R
15	JAYADEVAN C M
16	NANDANA UNNIKRISHNAN
17	NIRMAL PRINCE
18	RINSHAD V S
19	ROSHNA SHAJI
20	SHAHAM T C
21	THAMEEZA FATHIMA P N
22	AKHIL RATHEESH KAVUNGAL
23	ALAN T ANAS
24	ANAGHA ANIL
25	ANAGHA UNNI
26	ANJANA K A
27	ANJITHA C A
28	ANZALNA BASHEER
29	ARYA RAJAN
30	ASLAM E S
31	DEVI NANDANA K
32	DIGMA ANTONY ABRAO
33	FAUSIYA V S
34	JITHIN JOHNY
35	MANU C P
36	MEENAKSHI KRISHNAN
37	NANDITHA T B
38	NAYANA MUKUND C
39	PRAJITHA J PAI
40	PRANNAY P KUMAR
41	AMAL K A
42	JIMCY ANTONY M A







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## ISF CHITIN AND MARINE PRODUCTS LLP

Date: 22<sup>nd</sup> March 2024

### CERTIFICATE

This is to certify that following students

- Amal K A - 210021026803
- Anzalna Basheer - 210021026789
- Fausiya V S - 210021026794
- Jithin Johny - 210021026795
- Nayana Mukund C - 210021026800
- Prannay P Kumar - 210021026802

Of BSc. Chemistry from The Cochin College, Kochi has successfully completed their project on the topic preparation of activated charcoal based chitosan in our factory during the month of January 2024.

We wish you all the best for your future.

Approved by,



MANU MATHEW

DESIGNATED PARTNER

Kannamaly, Kochi - 682 008, Kerala, India | Tel: +91-484-2247475, 2247252 | E-mail : [indseafoods@gmail.com](mailto:indseafoods@gmail.com) | [www.isfchitin.com](http://www.isfchitin.com)







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## ISF CHITIN AND MARINE PRODUCTS LLP

Date: 22<sup>nd</sup> March 2024

### CERTIFICATE

This is to certify that following students

- Dhaya Santhosh - 210021026769
- Aswathy S - 210021026767
- Anagha Unni - 210021026786
- Nanditha T B - 210021026799
- Amrutha Rajesh - 210021026763
- Anjitha C A - 210021026788

Of BSc. Chemistry from The Cochin College, Kochi has successfully completed their project on the topic Comparison of molecular weight of chitosan using U-tube Viscometer and Brookfield viscometer in our factory during the month of January 2024.

We wish you all the best for your future.

Approved by,



MANU MATHEW

DESIGNATED PARTNER



*Mrudula Menon V.*  
Mrudula Menon V.  
Principal-in-Charge  
The Cochin College



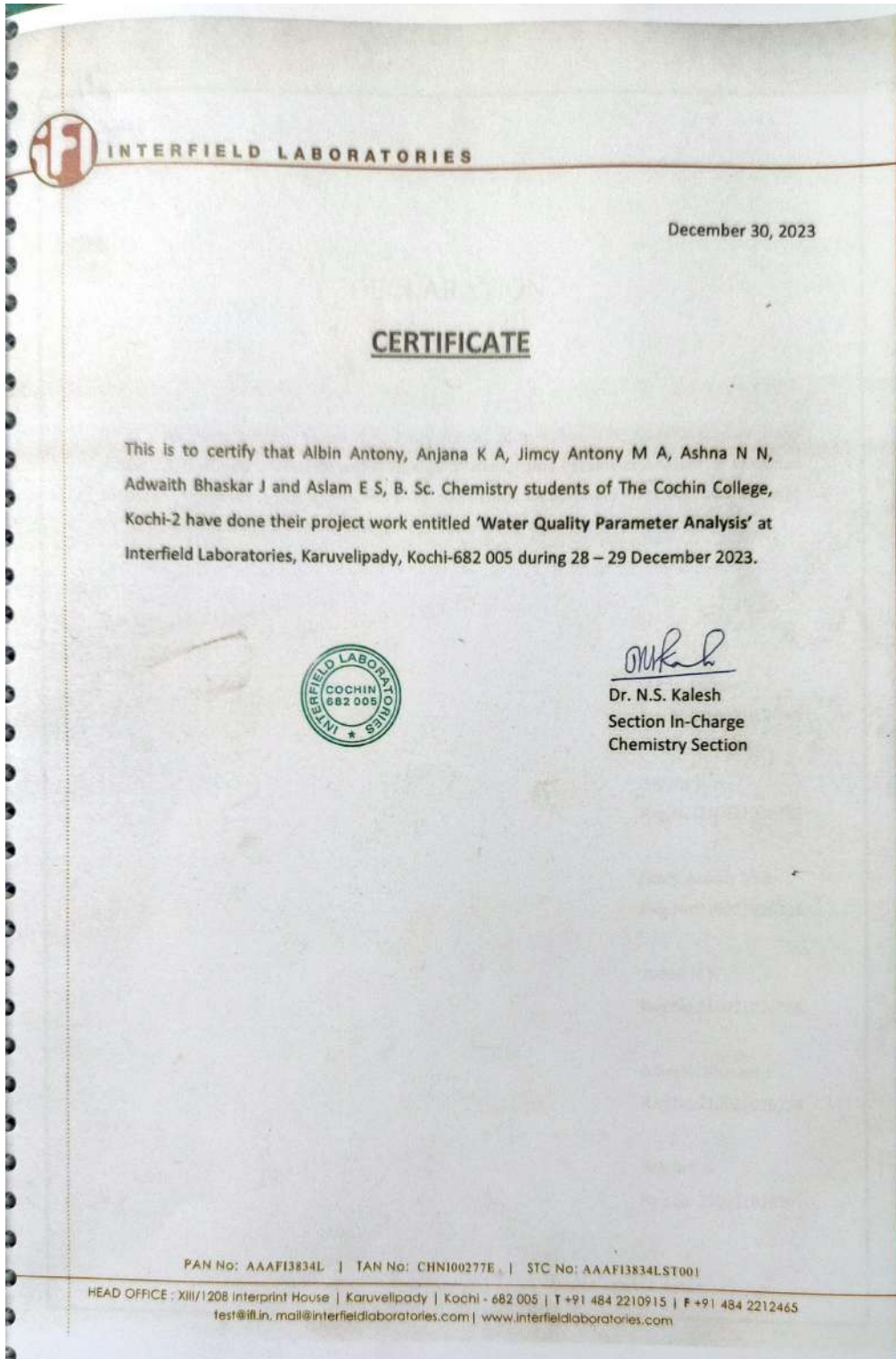
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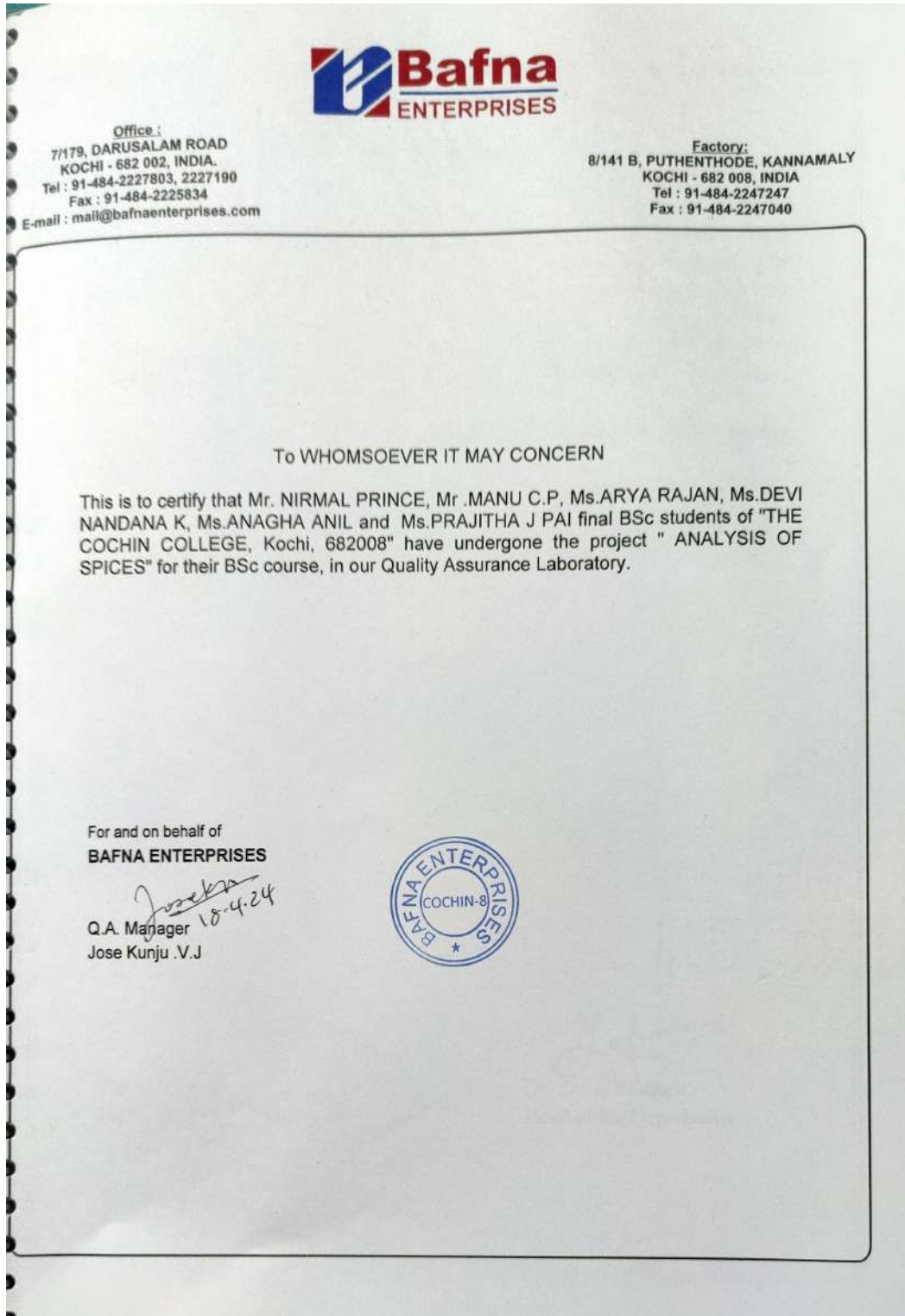
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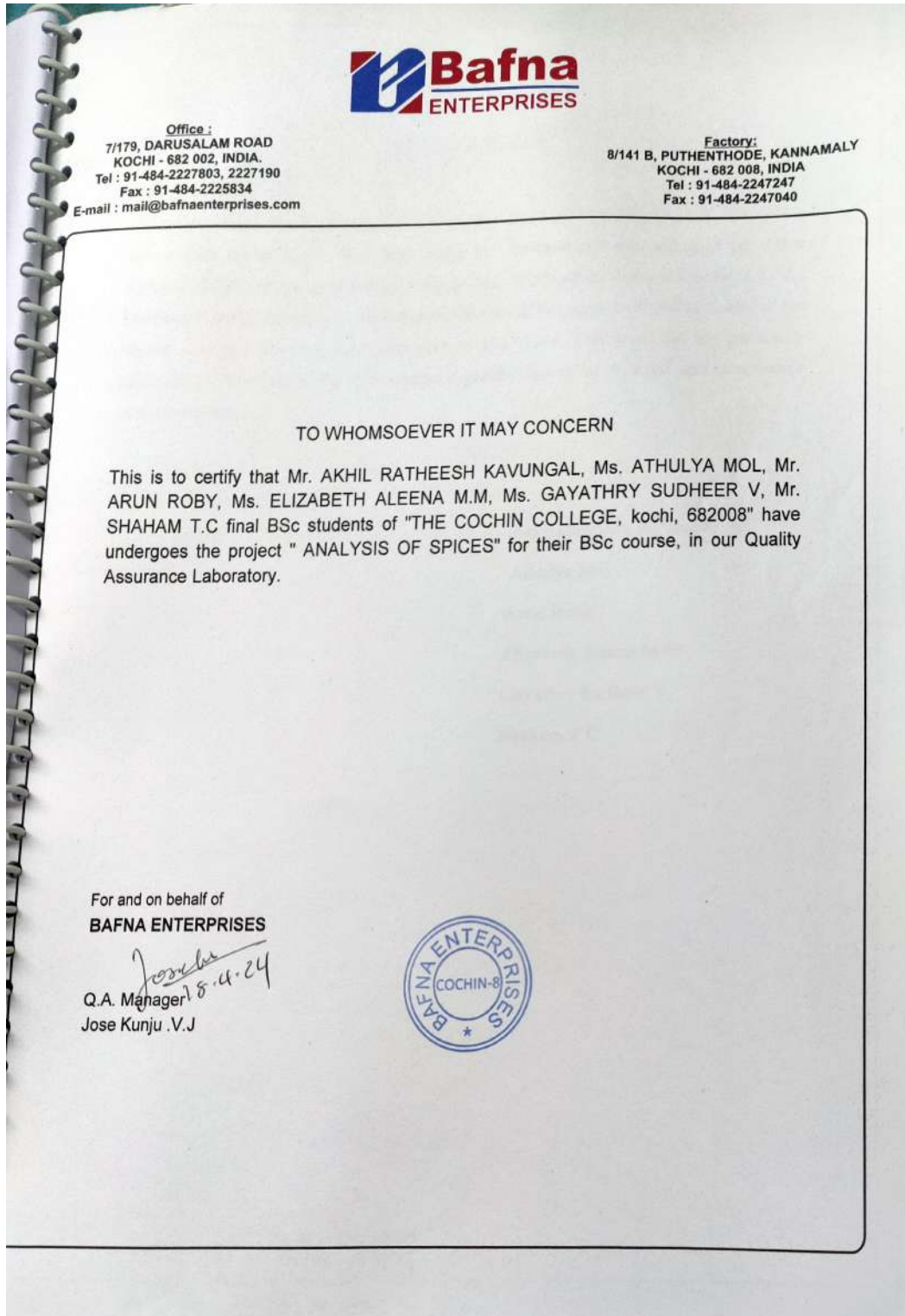
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TO WHOMSOEVER IT MAY CONCERN

This is to certify that Mr. AKHIL RATHEESH KAVUNGAL, Ms. ATHULYA MOL, Mr. ARUN ROBY, Ms. ELIZABETH ALEENA M.M, Ms. GAYATHRY SUDHEER V, Mr. SHAHAM T.C final BSc students of "THE COCHIN COLLEGE, kochi, 682008" have undergoes the project " ANALYSIS OF SPICES" for their BSc course, in our Quality Assurance Laboratory.

For and on behalf of  
**BAFNA ENTERPRISES**

*Jose Kunju*  
Q.A. Manager 28.4.24  
Jose Kunju .V.J





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## ISF CHITIN AND MARINE PRODUCTS LLP

Date: 29<sup>th</sup> APRIL 2024

### CERTIFICATE

This is to certify that following students

- Thameeza Fathima P N - 210021026781
- Fidha Fathima K H - 210021026771
- Alan T Anas - 210021026784
- Amrithesh N G - 210021026762
- Jayadevan C M - 210021026774
- Rinshad V S - 210021026777

Of BSc. Chemistry from The Cochin College, Kochi has successfully completed their project on the topic determination of degree of deacetylation by different methods in our factory during the month of January 2024.

We wish you all the best for your future.

Approved by,

JOSEPH MATHEW

CEO & DESIGNATED PARTNER



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## ISF CHITIN AND MARINE PRODUCTS LLP

Date: 29<sup>th</sup> APRIL 2024

### CERTIFICATE

This is to certify that following students

- Digma Antony Abrao - 210021026793
- Gowry K R - 210021026773
- Nandana Unnikrishnan - 210021026775
- Aparna Pradeep - 210021026764
- Meenakshi Krishnan - 210021026798
- Roshna Shaji - 210021026778

Of BSc. Chemistry from The Cochin College, Kochi has successfully completed their project on the topic Comparison of molecular weight and films of chitosan and carboxymethyl chitosan in our factory during the month of January 2024.

We wish you all the best for your future.

Approved by,



JOSEPH MATHEW

CEO & DESIGNATED PARTNER

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