

## CERTIFICATE

This is to certify that the work presented in the project work entitled “A REVIEW ON CARDIOVASCULAR DRUGS” is an authentic record of literature review carried out by Akshatha, a student of M.Sc. (IV Sem.) Chemistry, as a partial fulfillment for the award of Masters of Science in Chemistry, Mangalore University. This work has been carried out under the guidance of Dr. Jagadeesh Prasad D, Professor and Chairman, Department of Chemistry, Mangalore University.



Dr. Jagadeesh Prasad D

Professor and Chairman,  
Department of chemistry,  
Mangalore University,

Mangalagangothri-574199

**CHAIRMAN**

**Department of Studies in Chemistry  
Mangalore University  
MANGALAGANGOTHRI- 574 199**

## CERTIFICATE

This is to certify that the work presented in the project work entitled “A REVIEW ON ANTIVIRAL DRUGS” is an authentic record of literature review carried out by Akshatha K., a student of M.Sc. (IV Sem.) Chemistry, as a partial fulfillment for the award of Masters of Science in Chemistry, Mangalore University. This work has been carried out under the guidance of Dr. Jagadeesh Prasad D, Professor and Chairman, Department of Chemistry, Mangalore University.



Dr. Jagadeesh Prasad D.  
Professor and Chairman,  
Department of chemistry,  
Mangalore University,  
Mangalagangothri-574199

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Department of Studies in Chemistry  
Mangalore University  
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## CERTIFICATE

This is to certify that the work presented in the project work entitled “A REVIEW ON ANTIDEPRESSANT DRUGS” is an authentic record of literature review carried out by Akshatha K. P., a student of M.Sc. (IV Sem.) Chemistry, as a partial fulfillment for the award of Masters of Science in Chemistry, Mangalore University. This work has been carried out under the guidance of Dr. Jagadeesh Prasad D, Professor and Chairman, Department of Chemistry, Mangalore University.




Dr. Jagadeesh Prasad D.  
Professor and Chairman,  
Department of chemistry,  
Mangalore University,  
Mangalagangothri-574199

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Department of Studies in Chemistry  
Mangalore University  
MANGALAGANGOTHRI- 574 199

## CERTIFICATE

This is to certify that the work presented in the project work entitled “**A REVIEW ON ANTICANCER DRUGS**” is an authentic record of literature review carried out by Anusha S.H., a student of M.Sc. (IV Sem.) Chemistry, as a partial fulfilment for the award of Masters of Science in Chemistry, Mangalore University. This work has been carried out under the guidance of Dr. Jagadeesh Prasad D, Professor and Chairman, Department of Chemistry, Mangalore University.



  
Dr. Jagadeesh Prasad D.  
Professor and Chairman,  
Department of chemistry,  
Mangalore University,  
Mangalagangothri-574199

**CHAIRMAN**  
Department of Studies in Chemistry  
Mangalore University  
MANGALAGANGOTHRI- 574 199

## CERTIFICATE

This is to certify that this project report on the topic “**COLOR SENSORS FOR THE DETECTION OF Hg<sup>2+</sup>**” was carried out by Ms.Apoorva.L.K, student of M.Sc. IV Semester Chemistry in partial fulfilment for the award of degree of Master of Science in Chemistry, Mangalore University.

The project work was carried out under the guidance of Dr. B Narayana, Department of Chemistry, Mangalore University, Mangalagangothri.



Dr. B Narayana

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Department of Chemistry

Mangalore University

Mangalagangothri-574199

Dr. Jagadeesh Prasad D

Chairman

Department of Chemistry

Mangalore University

Mangalagangothri- 574199

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Mangalore University  
MANGALAGANGOTHRI- 574 199

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This is to certify that this project report on the topic “**COLOR SENSORS FOR THE DETECTION OF COPPER**” was carried out by Ms.Archana A N student of M.Sc. IV Semester Chemistry in partial fulfilment for the award of degree of Master of Science in Chemistry, Mangalore University, Mangalagangothri.

Dr. B Narayana

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Department of Chemistry

Mangalore University

Mangalagangothri-574199



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Chairman

Department of Chemistry

Mangalore University

Mangalagangothri-574199

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Mangalore University  
MANGALAGANGOTHRI- 574 199**

## CERTIFICATE

This is to certify that this project report on the topic “**COLOR SENSORS FOR THE DETECTION OF HYPOCHLORITE**” was carried out by Ms. Asha H E, a student of M.Sc. IV Semester Chemistry in partial fulfillment for the award of degree of Master of Science in Chemistry, Mangalore University.

Dr. B. Narayana

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Department of Chemistry

Mangalore University

Mangalagangothri –574199



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Chairman

Department of Chemistry

Mangalore University

Mangalagangothri-574199

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Mangalore University  
MANGALAGANGOTHR- 574 199**

# CERTIFICATE

This is to certify that this project report on the topic “**COLOR SENSORS FOR THE DETECTION OF NITRITES**” was carried out by Ms. Bhavya. G, student of M.Sc. IV Semester Chemistry in partial fulfilment for the award of degree of Master of Science in Chemistry, Mangalore University.

The project work was carried out under the guidance of Dr. B Narayana, Department of Chemistry, Mangalore University, Mangalagangothri.

Dr. B Narayana

Project Guide

Department of Chemistry

Mangalore university

Mangalagangothri- 574199



Dr. Jagadeesh Prasad D

Chairman

Department of Chemistry

Mangalore university

Mangalagangothri- 574199

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**Department of Studies in Chemistry**

**Mangalore University**

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## CERTIFICATE

This is to certify that the work presented in the project work entitled "GUAR GUM BASED HYDROGELS AS ADSORBENT MATERIALS FOR WATER PURIFICATION" is an authentic record of the work carried out by Chethana of M.Sc Chemistry, as a partial fulfillment for the award of Masters of Science in Chemistry, Mangalore University. This work has been carried out under the guidance of Prof.B.Vishalakshi, Department of Chemistry, Mangalore University.



Prof.B.Vishalakshi  
Department of Chemistry  
Mangalore University  
Mangalagangothri-574199



Chairperson  
Department of chemistry  
Mangalore University  
Mangalagangothri-574199

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Mangalore University  
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CERTIFICATE

This is to certify that the work presented in the project entitled “GUM GHATTI BASED HYDROGELS AS ABSORBENT MATERIAL FOR WATER PURIFICATION ” is an authentic record,of the work carried out by Deeksha B II year M.Sc.Chemistry, This work has been carried out under the guidance of Prof.B.Vishalakshi , Department of Chemistry, Mangalore University as a part of her academic year 2019-2020 in the partial fulfillment of the requirement for the award of the degree of Master of Science in Chemistry.



Prof.B.Vishalakshi  
Department of chemistry  
Mangalore University  
Mangalagangothri-574199



Prof. Jagadeesh Prasad Dasappa  
Chairperson  
Department of Chemistry  
Mangalore University  
Mangalagangothri-574199



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Department of Studies in Chemistry  
Mangalore University  
MANGALAGANGOTHI- 574 199

## CERTIFICATE

This is to certify that the work presented in the project work entitled 'XANTHAN GUM BASED HYDROGELS AS ADSORBENT MATERIAL FOR WATER PURIFICATION' is an authentic record, of the work carried out by Deepika K P of M.Sc. Chemistry, Mangalore University. This work has been carried out under the guidance of Prof.B.Vishalakshi, Department of chemistry, Mangalore University.



Prof. B. Vishalakshi

Department of chemistry

Mangalore University

Mangalagangothri-574199



Chairperson

Department of chemistry

Mangalore University

Mangalagangothri-574199



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Department of Studies in Chemistry  
Mangalore University  
MANGALAGANGOTHRI- 574 199

## CERTIFICATE

This is to certify that the work presented in the project work entitled 'PECTIN BASED HYDROGELS AS ADSORBENT MATERIAL FOR WATER PURIFICATION' is an authentic record, of the work carried out by Dhanushree K of M.Sc. Chemistry, Mangalore University. This work has been carried out under the guidance of Prof.B.Vishalakshi, Department of chemistry, Mangalore University.



Prof. B. Vishalakshi  
Department of chemistry  
Mangalore University  
Mangalagangothri-574199



Chairperson  
Department of chemistry  
Mangalore University  
Mangalagangothri-574199



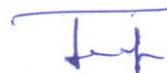
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Mangalore University  
MANGALAGANGOTHR- 574 199

## CERTIFICATE

This is to certify that the work presented in the project report entitled "A LITERATURE REVIEW ON SYNTHESIS AND APPLICATIONS ON COUMARIN DERIVATIVES" is an authentic record of literature review carried out by Ms. Divyashree.H.N , a student of M.Sc. (IV Sem) Chemistry, as a partial fulfilment for the award of Masters of Science in Chemistry, Mangalore University. This work has been carried out under the guidance of Dr. Boja Poojary, Professor, Department of Chemistry, Mangalore University.



Dr. Boja Poojary  
Professor  
Department of Chemistry  
Mangalore University  
Mangalagangothri-574199.

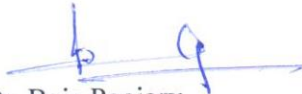


Dr. Jagadeesh Prasad D.  
Professor and Chairman  
Department of Chemistry  
Mangalore University  
Mangalagangothri-574199.

**CHAIRMAN**  
Department of Studies in Chemistry  
Mangalore University  
MANGALAGANGOTHR- 574 199

## CERTIFICATE

This is to certify that the work presented in the Project Report entitled, “**LITERATURE REVIEW ON SYNTHESIS AND APPLICATIONS OF COUMARIN DERIVATIVES**” is an authentic record of literature review carried out by Ms. Gayathri B. S., a student of M.Sc.(IV Sem) Chemistry, as a partial fulfillment for the award of degree of Masters of Science in Chemistry, Mangalore University. This work has been carried out under the guidance of Dr. Boja Poojary, Professor, Department of Chemistry, Mangalore University.

  
Dr. Boja Poojary

Professor

Department of Chemistry

Mangalore University

Mangalagangothri – 574199.



  
Dr. Jagadeesh Prasad D.

Professor and Chairman

Department of Chemistry

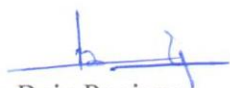
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Mangalagangothri – 574199.

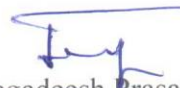
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Department of Studies in Chemistry  
Mangalore University  
MANGALAGANGOTHRI- 574 199

## CERTIFICATE

This is to certify that the work presented in the Project Report entitled “A LITERATURE REVIEW ON SYNTHESIS AND APPLICATIONS ON COUMARIN DERIVATIVES” is an authentic record of literature review carried out by Greeshma K.G, a student of M.Sc. (IV Sem.) Chemistry, as a partial fulfilment for the award of Masters of Science in Chemistry, Mangalore University. This work has been carried out under the guidance of Dr. Boja Poojary, Professor, Department of Chemistry, Mangalore University.



Dr. Boja Poojary  
Professor  
Department of Chemistry  
Mangalore University  
Mangalagangothri-574199.



Dr. Jagadeesh Prasad D.  
Professor and Chairman  
Department of Chemistry  
Mangalore University  
Mangalagangothri-574199

**CHAIRMAN**  
Department of Studies in Chemistry  
Mangalore University  
MANGALAGANGOTHRİ- 574 199

## CERTIFICATE

This is to certify that the work presented in the Project Report entitled, “**A LITERATURE REVIEW ON SYNTHESIS AND APPLICATIONS OF CHROMONE DERIVATIVES**” is an authentic record of literature review carried out by Mr. Gururaj., a student of M.Sc. (IV Sem.) Chemistry, as a partial fulfilment for the award of Master of Science in Chemistry, Mangalore University. This work has been carried out under the guidance of Dr. Boja Poojary, Professor, Department of Chemistry, Mangalore University.



**Dr. Boja Poojary**

Professor, Department of Chemistry  
Mangalore University  
Mangalagangothri-574199.



**Dr. Jagadeesh Prasad D.**

Professor and Chairman  
Department of Chemistry  
Mangalore University  
Mangalagangothri-574199.

**CHAIRMAN**

**Department of Studies in Chemistry  
Mangalore University  
MANGALAGANGOTHRI- 574 199**



## CERTIFICATE

This is to certify that a Dissertation on project entitled '**POLYMER/HALLOYSITE NANOTUBE NANOCOMPOSITE FOR BIOLOGICAL APPLICATION**' has been satisfactorily carried out at Mangalore University by **Harshitha K**, student of MSc Chemistry, as a partial fulfilment for the award of degree of **Master of Science in Chemistry**, Mangalore University, Mangalagangothri. This work has been carried out under the guidance of **Dr.G.K.Nagaraja**, Department of Chemistry, Mangalore University, Mangalagangothri.



  
Dr. Jagadish Prasad D

The Chairman

Mangalore University,

Mangalangothri

**CHAIRMAN**

Department of Studies in Chemistry  
Mangalore University  
MANGALAGANGOTTHRI- 574 199

## CERTIFICATE

This is to certify that a Dissertation on project entitled '**POLYMER/HALLOYSITE NANOTUBE NANOCOMPOSITE FOR BIOLOGICAL APPLICATIONS**' submitted to the Mangalore University in partial fulfilment of the requirements for the award of degree of Master of Science in Chemistry during the IV semester of 2020-21. This independent project work done by **Ms. K R Shreevidya, Reg. No. 193092018**, under the guidance of Dr. G.K.Nagaraja, Department of Chemistry, Mangalore University during the period of 2020-2021.



**Dr. Jagadeesh Prasad D**  
Professor and Chairman  
Department of Chemistry  
Mangalore University  
Mangalagangothri  
Mangalore - 574199

**CHAIRMAN**  
Department of Studies in Chemistry  
Mangalore University  
MANGALAGANGOTTHRI- 574 199

## CERTIFICATE

This is to certify that the work presented in the project work entitled “**Polymer/ halloysite nanotube nanocomposite for biological application**” has been satisfactorily carried out at Mangalore University by **Miss K Sushma**, student of M.Sc Chemistry, as a partial fulfilment for the award of the degree of **Master of Science in Chemistry**, Mangalore University, Mangalagangothri. This work has been carried out under the guidance of Dr. G K Nagaraja, Department of Chemistry, Mangalore University.



Dr. Jagadish Prasad D

The Chairman

Mangalore University,

Mangalagangothri



**CHAIRMAN**  
Department of Studies in Chemistry  
Mangalore University  
MANGALAGANGOTHR- 574 199

## CERTIFICATE

This is to certify that the work presented in the work entitled “**Polmer/ Halloysite nanotube nanocomposite foe biological alication**” is an authentic record of literature review carried out ,Krithina student of M.Sc. (IV Sem.)Chemistry, as a partial fulfilment for the award of Masters of Science in Chemistry, Mangalore University. This work has been carried out under the guidance of Dr,G.K Nagaraja Professor in Chemistry, Department of Chemistry, Mangalore University.



Dr. Jagadish Prasad D.

The Chairman

Mangalore University

Mangalagangothri

Mangalore- 574199



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Department of Studies in Chemistry  
Mangalore University  
MANGALAGANGOTHRI- 574 199

## CERTIFICATE

This is to certify that this project report on the topic “**REVIEW ON NON-STEROIDAL HORMONES**” was carried out by Ms MADHURA P K, a student of M.Sc. IV Semester Chemistry, under the guidance of Prof. Jagadeesh Prasad D, the Chairman, Department of Chemistry, Mangalore University, Mangalagangothri in partial fulfilment for the award of degree of Master of Science in Chemistry, Mangalore University.



Prof. Jagadeesh Prasad D

The Chairman

Department of chemistry

Mangalore University

Mangalagangothri-574199

**CHAIRMAN**

**Department of Studies in Chemistry**

**Mangalore University**

**MANGALAGANGOTTHRI- 574 199**

## CERTIFICATE

This is to certify that this project report on the topic “**LITERATURE REVIEWS ON SYNTHESIS AND BIOLOGICAL ACTIVITY STUDIES OF SOME ANTIHYPERTENSIVE DRUGS**” was carried out by Ms. MADHUSHRI, a student of M.Sc. IV Semester chemistry, under the guidance of Prof. Jagadeesh Prasad, the Chairman, Department of Chemistry, Mangalore University, Mangalagangothri in the partial fulfilment for the award of degree of Master of Science in Chemistry, Mangalore University.



**Prof. Jagadeesh Prasad**

The Chairman

Department of Chemistry

Mangalore University

Mangalagangothri-574199

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Mangalore University  
MANGALAGANGOTHRU- 574 199

## CERTIFICATE

This is to certify that the work presented in the Project Report entitled, “**A LITERATURE REVIEW ON ANTICANCER DRUG**” is an authentic record of literature review carried out by Ms. Nishchitha M N., a student of M.Sc. (IV Sem.) Chemistry, as a partial fulfilment for the award of Master of Science in Chemistry, Mangalore University. This work was carried out under the guidance of Dr. Jagadeesh D Prasad, Professor, Department of Chemistry, Mangalore University.



**Dr. Jagadeesh D Prasad**

Professor and Chairman

Department of Chemistry

Mangalore University

Mangalagangothri-574199.

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## CERTIFICATE

This is to certify that the work presented in the project work entitled “ A literature Review on Antituberculosis Drugs” is an authentic record of literature review carried out by Prameela Timma Moger, a student of M.Sc. (IV semester) Chemistry, as a partial fulfillment for the award of Master of Science in Chemistry, Mangalore University. This work was carried out under the guidance of Prof. Jagadeesh Prasad D., Department of Chemistry, Mangalore University.



A handwritten signature in blue ink, appearing to be "Jagadeesh Prasad D.", written over a horizontal line.

Prof. Jagadeesh Prasad D.  
Professor & Chairman

Department of Chemistry

Mangalore University

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Department of Studies in Chemistry  
Mangalore University  
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## CERTIFICATE

This is to certify that the work presented in the dissertation entitled “**Synthesis of Heterocyclic Compounds from Enaminones**” is an authentic record of literature review carried out by **Ms. Priya**, a student of M.Sc. (IV semester) Chemistry, in partial fulfillment of the requirements for the award of the degree of Masters of Science in Chemistry. This work has been carried out under the guidance of Dr. M. R. Maddani, Assistant Professor, Department of Chemistry, and Mangalore University.

  
**Dr. M. R. Maddani**

Assistant Professor

Department of Chemistry

Mangalore University

Mangalagangothri-574199



  
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Chairman

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Mangalore University

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Department of Studies in Chemistry

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## CERTIFICATE

This is to certify that the work presented in the dissertation entitled “**C-H Functionalization of Enaminones**” is an authentic record of literature review carried out by **Ms. Puneetha K.D.**, a student of M.Sc. (IV Semester) Chemistry, in partial fulfillment of the requirements for the award of the degree of Masters of Science in Chemistry. This work has been carried out under the guidance of Dr. M. R. Maddani, Assistant professor, Department of chemistry, Mangalore University, Mangalagangothri.

  
18/11/2021.

**Dr. M. R. Maddani**

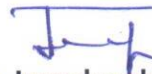
Assistant Professor

Department of Chemistry

Mangalore University

Mangalagangothri-574199





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Chairman

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Mangalore University


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## CERTIFICATE

This is to certify that the work presented in the dissertation entitled “**SYNTHESIS OF 5 AND 6 MEMBERED N-CONTAINING HETEROCYCLIC COMPOUNDS**” is an authentic record of literature review carried out by **Ms. Rajani**, a student of M.Sc. (IV Semester) Chemistry, in partial fulfillment of the requirements for the award of the degree of Master of Science in Chemistry. The work has been carried out under the guidance of Dr. M. R. Maddani, Assistant Professor, Department of Chemistry, Mangalore University, Mangalagangothri.

  
18/11/2021

**Dr. M. R. Maddani**

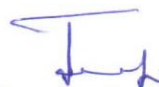
Assistant Professor

Department of Chemistry

Mangalore University

Mangalagangothri-574199





**Prof. Jagadeesh Prasad D.**

Chairman

Department of Chemistry

Mangalore University

Mangalagangothri-574199

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**Mangalore University**

**MANGALAGANGOTHRI- 574 199**

## CERTIFICATE

This is to certify that the work presented in the dissertation entitled “**SYNTHESIS OF 5 AND 6 MEMBERED N-CONTAINING HETEROCYCLIC COMPOUNDS**” is an authentic record of literature review carried out by **Ms. Rakshitha**, a student of M.Sc. (IV Semester) Chemistry, in partial fulfillment of the requirements for the award of the degree of Master of Science in Chemistry. The work has been carried out under the guidance of Dr. M. R. Maddani, Assistant Professor, Department of Chemistry, Mangalore University, Mangalagangothri.

  
18/11/2021

**Dr. M. R. Maddani**

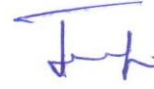
Assistant Professor

Department of Chemistry

Mangalore University

Mangalagangothri-574199





**Prof. Jagadeesh Prasad D.**

Chairman

Department of Chemistry

Mangalore University

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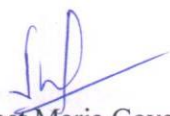
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## CERTIFICATE

This is to certify that this project report on the topic “**COLOR SENSORS FOR THE DETECTION OF THE FLUORIDE ION**” was carried out by Ms. Rakshitha K, a student of M.Sc. IV Semester Chemistry in partial fulfillment for the award of degree of Master of Science in Chemistry, Mangalore University.



Dr. Janet Maria Goveas

Project Guide

Department of Chemistry

Mangalore University

Mangalagangothri-574199



Dr. Jagadeesh Prasad D

Chairman

Department of Chemistry

Mangalore University

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Mangalore University  
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## CERTIFICATE

This is to certify that this project report on the topic “**COLOR SENSORS FOR THE DETECTION OF CYANIDE (CN<sup>-</sup>) ION**” was carried out by Ms. Ria Beena Dsouza, a student of M.Sc. IV Semester Chemistry in partial fulfillment for the award of degree of Master of Science in Chemistry, Mangalore University.



Dr. Janet Maria Goveas

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Mangalore University

Mangalagangothri-574199



Dr. Jagadeesh Prasad D

Chairman

Department of Chemistry

Mangalore University

Mangalagangothri-574199

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**Department of Studies in Chemistry  
Mangalore University  
MANGALAGANGOTHRI- 574 199**

## CERTIFICATE

This is to certify that this project report on the topic “**COLOR SENSORS FOR THE DETECTION OF CYANIDE (CN<sup>-</sup>) ION**” was carried out by Ms. Ria Beena Dsouza, a student of M.Sc. IV Semester Chemistry in partial fulfillment for the award of degree of Master of Science in Chemistry, Mangalore University.

Dr. Janet Maria Goveas

Project Guide

Department of Chemistry

Mangalore University

Mangalagangothri-574199

Dr. Jagadeesh Prasad D

Chairman

Department of Chemistry

Mangalore University

Mangalagangothri-574199

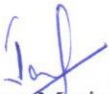


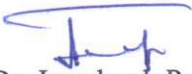
**CHAIRMAN**

**Department of Studies in Chemistry  
Mangalore University  
MANGALAGANGOTTHRI- 574 199**

## CERTIFICATE

This is to certify that this project report on the topic “**COLOR SENSORS FOR THE DETECTION OF ACETATE (CH<sub>3</sub>COO<sup>-</sup>) ION**” was carried out by Ms. Sannidhi N R, a student of M. Sc. IV Semester Chemistry in partial fulfillment for the award of degree of Master of Science in Chemistry, Mangalore University.

  
Dr. Janet Maria Goveas  
Project Guide  
Department of Chemistry  
Mangalore University  
Mangalagangothri-574199

  
Dr. Jagadeesh Prasad D  
Chairman  
Department of Chemistry  
Mangalore University  
Mangalagangothri-574199




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Department of Studies in Chemistry  
Mangalore University  
MANGALAGANGOTHRI- 574 199




## CERTIFICATE

This is to certify that this project report on the topic "Colour sensor for detection of  $\text{HSO}_4^-$ " was carried out by Ms. Shaithya P, a student of M.Sc.IV Semester Chemistry in partial fulfilment for the award of degree of Master of Science in Chemistry, Mangalore University.

The project work was carried out under the guidance of Dr. Janet Maria Goveas, Guest Faculty, Department of Chemistry, Mangalore University, Mangalagangothri.

  
Dr. Janet Maria Goveas  
Project Guide  
Department of Chemistry  
Mangalore University  
Mangalagangothri-574199



  
Prof. Dr. Jagadeesh Prasad D  
Chairman  
Department of Chemistry  
Mangalore University  
Mangalagangothri-574199


**CHAIRMAN**  
Department of Studies in Chemistry  
Mangalore University  
MANGALAGANGOTTHRI- 574 199

## Certificate

This is to certify that this dissertation on the topic “Biosynthesis, Characterization and Applications of Silver Nanoparticles” was submitted by Ms. Sharanya D. K., a student of M.Sc. IV Semester Chemistry in partial fulfilment for the award of degree of Master of Science in Chemistry, Mangalore University.

The project work was carried out under the guidance of Dr. Chaithra P., Department of Chemistry, Mangalore University, Mangalagangothri.

I further certify that this dissertation in full or parts has not previously formed the basis for the award of any degree, diploma, fellowship or other similar title.

  
Dr. Chaithra P. 18/11/2021

Project Guide

Department of Chemistry

Mangalore University

Mangalagangothri – 574199





Prof. Dr. Jagadeesh Prasad D.

Chairman

Department of Chemistry

Mangalore University

Mangalagangothri – 574199

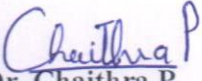
**CHAIRMAN**

**Department of Studies in Chemistry  
Mangalore University  
MANGALAGANGOTHRI- 574 199**


## CERTIFICATE

This is to certify that the project entitled **Synthesis and Characterization of Iron(Fe) Nanoparticles From Plant Extracts** the bonafide work carried out by Shivaraj S Jawoormath II year (4<sup>th</sup> semester) M.Sc.Chemistry, under the guidance of Dr. Chaithra P, Guest faculty, Department of Chemistry, Mangalore University, Mangalagangothri as a part of his academic year 2020-2021 for the award of the degree of Master of Science in Chemistry. I further declare that the work presented in this report is a genuine and bonafide work and it has not previously been formed the basis for the award of any degree, diploma, or other similar title.



  
Dr. Chaithra P 19/11/2021

Project Guide  
Department of Chemistry  
Mangalore University  
Mangalagangothri



Prof. Jagadeesh Prasad Dasappa  
Chairman  
Department of Chemistry  
Mangalore University  
Mangalagangothri

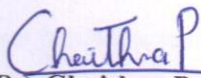
**CHAIRMAN**  
Department of Studies in Chemistry  
Mangalore University  
MANGALAGANGOTHRI- 574 199

## Certificate

This is to certify that this dissertation on the topic “**Synthesis and characterization of Silica Nanoparticles by Sol Gel method** “ was submitted by **Ms. Shwetha H .C. ,** a student of M.Sc. IV Semester Chemistry for the award of degree of Master of science in Chemistry , Mangalore University.

The project work was carried out under the guidance of Dr. Chaithra P., Department of Chemistry, Mangalore University, Mangalagangothri.

I further certify that this dissertation in full or parts has not previously formed the basis for the award of any degree, diploma, fellowship, or other similar title.

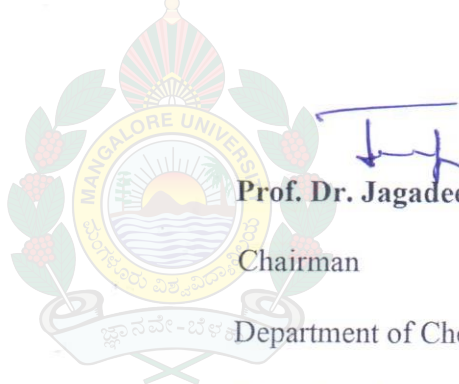
  
Dr. Chaithra P. 19/11/2021

Guest Faculty

Department of Chemistry

Mangalore University

Mangalagangothri -574199



Prof. Dr. Jagadeesh Prasad Dasappa.

Chairman

Department of Chemistry

Mangalore University

Mangalagangothri -574199

**CHAIRMAN**  
Department of Studies in Chemistry  
Mangalore University  
MANGALAGANGOTHRI- 574 199

## CERTIFICATE

This is to certify that the work presented in the project work entitled '**Synthesis Silver Nanoparticles From Plant Extracts**' is an authentic record, of the work carried out by Shwetha S Rai of M.Sc. Chemistry, Mangalore University. This work has been carried out under the guidance of Dr Chaithra P, Department of chemistry, Mangalore University. I also affirm that this work is original and has not been submitted in part or full for any other degree or diploma or to any other university or institutions.



  
Dr. Chaithra P 19/4/2021

Guest faculty

Department of chemistry

Mangalagangothri-574199



Prof. Jagadeesh Prasad D.

Chairman

Department of Chemistry

Mangalagangothri-574199

**CHAIRMAN**  
Department of Studies in Chemistry  
Mangalore University  
MANGALAGANGOTHRI- 574 199

## CERTIFICATE

This is to certify that this project report entitled “APPLICATION OF NATURAL DYE ON SYNTHETIC FABRICS” was carried out by Ms. SNEHA J, a student of M.Sc. IV Semester Chemistry in partial fulfilment for the award of degree of Master of Science in Chemistry.

The project work was carried out under the guidance of Dr. Hemashree K, Department of Chemistry, Mangalore University, Mangalagangothri.



*Hemashree K*  
18/4/2021

Dr. Hemashree K  
Project Guide  
Department of Chemistry  
Mangalore University  
Mangalagangothri-574199

*Jagadeesh Prasad D*

Dr. Jagadeesh Prasad D  
Professor and Chairman  
Department of Chemistry  
Mangalore University  
Mangalagangothri-574199

**CHAIRMAN**  
Department of Studies in Chemistry  
Mangalore University  
MANGALAGANGOTHRI- 574 199

## CERTIFICATE

This is to certify that this project report on the topic “ADSORPTION OF DYES ON ACTIVATED CHARCOAL PREPARED FROM PLANT RESIDUES” was carried out by Ms. SNEHA P, a student of M.Sc. IV Semester Chemistry in partial fulfillment for the award of degree of Master of Science in Chemistry, Mangalore University.

The project work was carried out under the guidance of Dr. K Hemashree, Department of Chemistry, Mangalore University, Mangalagangothri



*[Handwritten Signature]*  
17/11/2021

Dr. Hemashree K  
Project Guide  
Department of Chemistry  
Mangalore University  
Mangalagangothri-574199


*[Handwritten Signature]*

Prof. Dr. Jagadeesh Prasad D  
Chairman  
Department of Chemistry  
Mangalore University  
Mangalagangothri-574199


**CHAIRMAN**  
Department of Studies in Chemistry  
Mangalore University  
MANGALAGANGOTHRI- 574 199

## CERTIFICATE

This is to certify that this project report on the topic “A STUDY ON THE EFFECT OF ARECA FLOWER EXTRACT AS CORROSION INHIBITOR” was carried out by Ms.Sumalatha.M, a student of M.Sc. IV Semester chemistry in partial fulfillment for the award of degree of Master of Science in Chemistry, Mangalore University.

  
18/11/2021  
Dr. Hemashree K  
Project Guide  
Department of Chemistry  
Mangalore University  
Mangalagangothri – 574199



  
Prof. Jagadeesh Prasad D  
The Chairman  
Department of Chemistry  
Mangalore University  
Mangalagangothri - 574199

**CHAIRMAN**  
Department of Studies in Chemistry  
Mangalore University  
MANGALAGANGOTTHRI- 574 199



## CERTIFICATE

This is to certify that this project report on the topic “**Effect of Green leafy Vegetable Extracts as corrosion inhibitors**” was carried out by Ms. Supreetha, a student of M.Sc. IV Semester Chemistry in partial fulfillment for the award of degree of Mater of Science in Chemistry, Mangalore University.

  
18/11/2021

Dr.Hemashree .K  
Project guide  
Department of Chemistry  
Mangalore University  
Mangalagangothri 574199





Dr. Jagadeesh Prasad D  
Chairman and Professor  
Department of Chemistry  
Mangalore University  
Mangalagangothri 574199

**CHAIRMAN**  
Department of Studies in Chemistry  
Mangalore University  
MANGALAGANGOTHRI- 574 199

## CERTIFICATE

This is to certify that this project report on the topic “**REVIEW ON SYNTHESIS OF MUSCLE RELAXANTS**” is an authentic record of literature review carried out by Ms Sushma K N ., a student of M.Sc.(IV semester) Chemistry, as a partial fulfilment for the award of Masters of Science in Chemistry, Mangalore University. This work has been carried out under the guidance of Dr. Jagadeesh Prasad D, professor and chairman, Department of Chemistry, Mangalore University.



Dr. Jagadeesh Prasad D

Professor and Chairman

Department of chemistry

Mangalore University

Mangalagangothri-574199

**CHAIRMAN**

**Department of Studies in Chemistry**

**Mangalore University**

**MANGALAGANGOTHRI- 574 199**

## CERTIFICATE

This is to certify that the work presented in the project work entitled "A LITERATURE REVIEW ON SYNTHESIS AND APPLICATIONS ON CHROMONE DERIVATIVES" is an authentic record of literature review carried out by Swathi S G, a student of M.Sc. (IV Sem.) Chemistry, as a partial fulfilment for the award of Masters of Science in Chemistry, Mangalore University. This work has been carried out under the guidance of Dr. Boja Poojary, Professor in Chemistry, Department of Chemistry, Mangalore University.



Dr. Boja Poojary  
Professor  
Department of Chemistry  
Mangalore University  
Mangalagangothri-574 199



Dr. Jagadeesh Prasad D.  
Professor and Chairman  
Department of Chemistry  
Mangalore University  
Mangalagangothri-574 199

**CHAIRMAN**  
Department of Studies in Chemistry  
Mangalore University  
MANGALAGANGOTHRI- 574 199

## CERTIFICATE

This is to certify that the work presented in the project work entitled “A LITERATURE REVIEW ON SYNTHESIS AND APPLICATIONS ON CHROMONE DERIVATIVES” is an authentic record of literature review carried out by Swathi S G, a student of M.Sc. (IV Sem.) Chemistry, as a partial fulfilment for the award of Masters of Science in Chemistry, Mangalore University. This work has been carried out under the guidance of Dr. Boja Poojary, Professor in Chemistry, Department of Chemistry, Mangalore University.

Dr. Boja Poojary  
Professor  
Department of Chemistry  
Mangalore University  
Mangalagangothri-574 199



Dr. Jagadeesh Prasad D.  
Professor and Chairman  
Department of Chemistry  
Mangalore University  
Mangalagangothri-574 199  
**CHAIRMAN**  
Department of Studies in Chemistry  
Mangalore University  
MANGALAGANGOTHRI- 574 199

## CERTIFICATE

This is to certify that the work presented in the project work entitled “**A LITERATURE REVIEW ON ANTIMALARIAL DRUGS**” is an authentic record of literature review carried out by Thanushree, a student of M.Sc. (IV Sem.) Chemistry, as a partial fulfilment for the award of Masters of Science in Chemistry, Mangalore University. This work was carried out under the guidance of Dr. Jagadeesh Prasad D. Professor in Chemistry, Department of Chemistry Mangalore University



Dr. Jagadeesh Prasad D.

Professor and Chairman

Department of Chemistry

Mangalore University

Mangalagangothri- 574199



**CHAIRMAN**

**Department of Studies in Chemistry**

**Mangalore University**

**MANGALAGANGOTHR- 574 199**

## CERTIFICATE

This is to certify that the work presented in the dissertation entitled "**Synthetic Methods and Biological Activities of Thiazoles**" is an authentic record of literature review carried out by **Ms. Thanushree** a student of MSc (IV Semester) Chemistry, in partial fulfillment of the requirements for the award of the degree of Masters of Science in Chemistry. This work has been carried out under the guidance of Dr. M. R. Maddani, Assistant Professor, Department of Chemistry, Mangalore University.



**Dr. M. R. Maddani**  
Assistant Professor  
Department of Chemistry  
Mangalore University  
Mangalagangothri-574199




**Prof. Jagadeesh Prasad D.**  
Chairman  
Department of Chemistry  
Mangalore University  
Mangalagangothri-574199

**CHAIRMAN**  
Department of Studies in Chemistry  
Mangalore University  
MANGALAGANGOTHRI- 574 199

## CERTIFICATE

This is to certify that the work presented in the project work entitled “**A LITERATURE REVIEW ON SYNTHESIS AND BIOLOGICAL ACTIVITY OF PYRROLE, FURAN AND THIOPHENE DERIVATIVES**” is an authentic record of literature review carried out by Thejaswini U K , a student of M.Sc. (IV Sem.) Chemistry, as a partial fulfilment for the award of Masters of Science in Chemistry, Mangalore University. This work has been carried out under the guidance of Mrs. Thejaswini, Department of Chemistry Mangalore University.

  
Mrs. Thejaswini

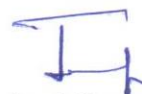
Guest faculty

Department of Chemistry

Mangalore University

Mangalagangothri-574199.





Dr. Jagadeesh Prasad D.

Professor and Chairman

Department of Chemistry

Mangalore University

Mangalagangothri-574199.

**CHAIRMAN**

**Department of Studies in Chemistry**

**Mangalore University**

**MANGALAGANGOTHRI- 574 199**

## CERTIFICATE

This is to certify that the work presented in the project work entitled “A LITERATURE REVIEW ON SYNTHESIS AND BIOLOGICAL IMPORTANCE OF FIVE MEMBERED HETEROCYCLES-PYRROLE, FURAN AND OXAZOLE DERIVATIVES” is an authentic record of literature review carried out by Veekshitha J.R. a student of M.Sc.(IV Sem.) Chemistry, as a partial fulfilment for the award of Masters of Science in Chemistry, Mangalore University. This work has been carried out under the guidance of Mrs.Thejaswini, Professor in Chemistry, Department of Chemistry, Mangalore University.

*Thejaswini*  
19/11/2021

Mrs.Thejaswini  
Guest faculty in Chemistry  
Department of Chemistry  
Mangalore University  
Mangalagangothri-574199.



*Jagadeesh Prasad D.*

Dr. Jagadeesh Prasad D.  
Professor and Chairman  
Department of Chemistry  
Mangalore University  
Mangalagangothri-574199.

**CHAIRMAN**  
Department of Studies in Chemistry  
Mangalore University  
MANGALAGANGOTHRI- 574 199

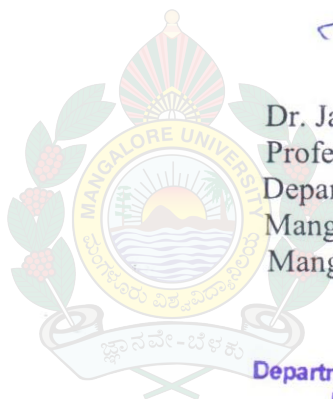


## CERTIFICATE

This is to verify that the work presented in the project work entitled “A LITERATURE REVIEW ON SYNTHESIS AND BIOLOGICAL ACTIVITY OF SUBSTITUTED QUINOLINE DERIVATIVES” is an authentic record of literature review carried out by Vijeth, a student of M.Sc. (IV Sem.) Chemistry, as a partial fulfilment for the award of Masters of Science in Chemistry, Mangalore University. This work was carried out under the guidance of Mrs. Thejaswini, Guest faculty, Department of Chemistry Mangalore University.

*Thejaswini*  
13/11/2021

Mrs. Thejaswini  
Guest Faculty  
Department of Chemistry  
Mangalore University  
Mangalagangothri-574199.



*J. Prasad D.*

Dr. Jagadeesh Prasad D.  
Professor and Chairman  
Department of Chemistry  
Mangalore University  
Mangalagangothri-574199.

**CHAIRMAN**  
Department of Studies in Chemistry  
Mangalore University  
MANGALAGANGOTHRI- 574 199

## CERTIFICATE

This is to certify that the work presented in the project work entitled “**LITERATURE REVIEW ON SYNTHESIS AND BIOLOGICAL ACTIVITY OF 1,2,4 -TRIAZOLE DERIVATIVES**” is an authentic record of project work carried out by Ms. Vinutha a student of M.Sc. (IV Sem.) Chemistry, as a partial fulfilment for the award of Masters of Science in Chemistry, Mangalore University. This work was carried out under the guidance of Mrs. Thejaswini, Guest faculty in Chemistry, Department of Chemistry Mangalore University.

*Thejaswini*  
18/11/2021

Mrs. Thejaswini  
Guest faculty in Chemistry  
Department of Chemistry  
Mangalore University  
Mangalagangothri - 574199.



*Jagadeesh Prasad D.*


Dr. Jagadeesh Prasad D.  
Professor and Chairman  
Department of Chemistry  
Mangalore University  
Mangalagangothri - 574199.

**CHAIRMAN**  
Department of Studies in Chemistry  
Mangalore University  
MANGALAGANGOTHRI- 574 199

## CERTIFICATE

This is to certify that the work presented in the project work entitled “**A LITERATURE REVIEW ON ANTIFUNGAL DRUGS**” is an authentic record of literature review carried out by VRINDA T V a student of M.Sc.(IV Sem.) Chemistry, as a partial fulfilment for the award of Masters of Science in Chemistry, Mangalore University. This work has been carried out under the guidance of Dr. Jagadeesh Prasad ,Professor in Chemistry, Department of Chemistry, Mangalore University.



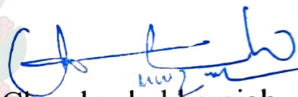
  
Dr. Jagadeesh Prasad  
Professor and Chairman  
Department of Chemistry  
Mangalore University  
Mangalagangothri-574199.

**CHAIRMAN**  
Department of Studies in Chemistry  
Mangalore University  
MANGALAGANGOTHR- 574 199



## CERTIFICATE

This is to certify that the project report entitled “**Green synthesis of Ag NPs using Palm Fruit Juice as reducing agent and its application in colorimetric sensing of Hg (II) ions**” is an authentic work done by **Albi Jack (Register No: 193262001)** student studying in M.Sc. (IV<sup>th</sup> semester) Department of Chemistry Jnana Kaveri PG Centre, Mangalore University under the guidance of Ms. Nagma Banu H. A. , (Faculty, Dept. of Chemistry) in partial fulfilment of the requirement for the award of Master of Science in Chemistry of Mangalore University in the academic year 2019-2021.

  
Dr. Chandrashekharaiah  
Co-Ordinator  
Coordinator

Department Of Chemistry  
Mangalore University  
Jnana Kaveri, Post Graduate Centre, Chikka Aluvara - 571224  
Kodagu District  
Somwarpet (Tq), Kodagu (District)

Mangalore University

Jnana Kaveri PG Centre

# CERTIFICATE

This is to certify that the project report entitled "The review of DDQ and synthesis of some heterocyclic derivatives" is an authentic work done by **Anagha Vinayan (Register No: 193262002)** student studying in M.Sc. (IV semester) Department of Chemistry Jnana Kaveri PG Centre, Mangalore University under the guidance of Ms. Nagma Banu H.A, (Faculty, Dept. of Chemistry) in partial fulfilment of the requirement for the award of Master of Science in Chemistry of Mangalore University in the academic year 2019-2021.



Dr. Chandrashekharaiiah

Co-Ordinator  
Department of Chemistry  
Mangalore University  
Department of Chemistry  
Mangalore University  
Jnana Kaveri PG Centre  
P.B.No19, Kushalnagar (Post)  
Tal: Kodaluru, District: Dakshin Kannada  
Jnana Kaveri PG Centre  
Mangalore University  
Jnana Kaveri PG Centre





## CERTIFICATE

This is to certify that the project report entitled “**Green synthesis of Ag NPs using Palm Fruit Juice as reducing agent and its application in colorimetric sensing of Hg (II) ions**” is an authentic work done by **Anaswara T (Register No: 193262003)** student studying in M.Sc. (IV<sup>th</sup> semester) Department of Chemistry Jnana Kaveri PG Centre, Mangalore University under the guidance of Ms. Nagma Banu H. A. , (Faculty, Dept. of Chemistry) in partial fulfilment of the requirement for the award of Master of Science in Chemistry of Mangalore University in the academic year 2019-2021.

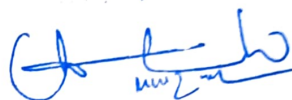
Dr. Chandrashekharaiiah  
Coordinator

Co-Ordinator  
Department of Chemistry  
Mangalore University  
Post Graduate Centre, Chukka  
P.O. No. 575 002  
Somwarpet (Tq) Kodagu

Mangalore University  
Jnana Kaveri PG Centre

## CERTIFICATE

This is to certify that the project report entitled "The review of DDQ and synthesis of some heterocyclic derivatives" is an authentic work done by **Ashwini S (Register No: 193262004)** student studying in M.Sc. (IV semester) Department of Chemistry Jnana Kaveri PG Centre, Mangalore University under the guidance of Ms. Nagma Banu H.A, (Faculty, Dept. of Chemistry) in partial fulfilment of the requirement for the award of Master of Science in Chemistry of Mangalore University in the academic year 2019-2021.



Dr. Chandrashekharaiiah  
**Co-Ordinator**

Department of Chemistry  
Mangalore University

Jnana Kaveri, Post Graduate Centre, Chikka Akkara-575 211,  
Kannur, Karnataka (India)

Department of Chemistry  
Somnathpet (Tq, Kollada District)

Mangalore University  
Jnana Kaveri PG Centre





## CERTIFICATE

This is to certify that the project report entitled “THE REVIEW ON PYRAZOLE AND SYNTHESIS OF 3-METHYL-1-PHENYL-5-(P-TOLYLOXY)-1H-PYRAZOLE-4-CARBALDEHYDE” is an authentic work done by **BHOOMIKA B V (Register No: 193262006)** student studying in M.Sc. (IV<sup>th</sup> semester) Department of Chemistry Jnana Kaveri PG Centre, Mangalore University under the guidance of Ms. Nagma Banu H. A. , (Faculty, Dept. of Chemistry) in partial fulfilment of the requirement for the award of Master of Science in Chemistry of Mangalore University in the academic year 2019-2021.



Dr. Chandrashekharaiah  
Co-Ordinator

Department of Chemistry  
Mangalore University

Jnana Kaveri PG Centre  
Chikkaluvvara



## CERTIFICATE

This is to certify that the project report entitled “A Review on Triazoles and Synthesis of 5-(3-nitrophenyl)-3-(4-(prop-2-yn-1-yloxy)phenyl)-4,5-dihydro-1H-pyrazole-1-carbothioamide” is an authentic work done by Athmika K P (Register No: 193262005) student studying in M.Sc. (IV semester) Department of Chemistry Jnana Kaveri PG Centre, Mangalore University under the guidance of MS. Mohana Kumari D S , (Faculty, Dept. of Chemistry) in partial fulfilment of the requirement for the award of Master of Science in Chemistry of Mangalore University in the academic year 2019-2021.



Dr. Chandrashekharaiah

Coordinator

Department of Chemistry

Mangalore University

Jnana Kaveri PG Centre





## CERTIFICATE

This is to certify that the project report entitled "THE REVIEW ON PYRAZOLE AND SYNTHESIS OF 3-METHYL-1-PHENYL-5-(P-TOLYLOXY)-1H-PYRAZOLE-4-CARBALDEHYDE" is an authentic work done by **DEEPIKA K B (Register No: 193262007)** student studying in M.Sc. (IV<sup>th</sup> semester) Department of Chemistry Jnana Kaveri PG Centre, Mangalore University under the guidance of Ms. Nagma Banu H. A. , (Faculty, Dept. of Chemistry) in partial fulfilment of the requirement for the award of Master of Science in Chemistry of Mangalore University in the academic year 2019-2021.



Dr. Chandrashekharaiyah  
**Co-Ordinator**

Department Of Chemistry  
Mangalore University

Jnana Kaveri, Post Graduate Centre, Chikka Aluvuru,  
P.B.No.103, Kushanagara (Post)


Somwarpet (Tq), Kodagu (District)  
Mangalore University

Jnana Kaveri PG Centre

Chikkaluvara

## CERTIFICATE

This is to certify that the project report entitled “A Review on Triazoles and Synthesis of 5-(3-nitrophenyl)-3-(4-(prop-2-yn-1-yloxy)phenyl)-4,5-dihydro-1H-pyrazole-1-carbothioamide” is an authentic work done by Drishya K P (Register No: 193262008) student studying in M.Sc. (IV semester) Department of Chemistry Jnana Kaveri PG Centre, Mangalore University under the guidance of MS. Mohana Kumari D S , (Faculty, Dept. of Chemistry) in partial fulfilment of the requirement for the award of Master of Science in Chemistry of Mangalore University in the academic year 2019-2021.



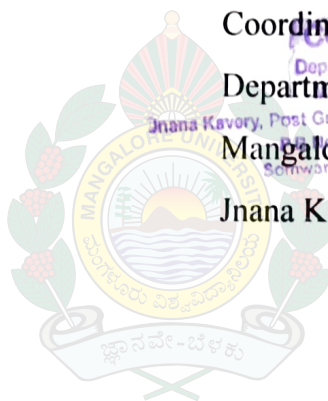
Dr. Chandrashekharaiiah

Coordinator

Department of Chemistry

Mangalore University

Jnana Kaveri PG Centre



Coordinator  
Department of Chemistry  
Jnana Kaveri, Post Graduate Centre, Chikka Alwarra- 571232  
P.O. No.19, Kurthnagar (Post)  
Schwarpet (Tal), Kollada (District)

## CERTIFICATE

This is to certify that the project report entitled “A Review on Triazoles and Synthesis of 5-(3-nitrophenyl)-3-(4-(prop-2-yn-1-yloxy)phenyl)-4,5-dihydro-1H-pyrazole-1-carbothioamide” is an authentic work done by Mithun B D (Register No: 193262009) student studying in M.Sc. (IV semester) Department of Chemistry Jnana Kaveri PG Centre, Mangalore University under the guidance of MS. Mohana Kumari D S , (Faculty, Dept. of Chemistry) in partial fulfilment of the requirement for the award of Master of Science in Chemistry of Mangalore University in the academic year 2019-2021.



Dr. Chandrashekharaiiah

(Co-Ordinator  
Coordinator

Department of Chemistry

Mangalore University

Jnana Kaveri PG Centre





## CERTIFICATE

This is to certify that the project report entitled "THE REVIEW ON PYRAZOLE AND SYNTHESIS OF 3-METHYL-1-PHENYL-5-(P-TOLYLOXY)-1H-PYRAZOLE-4-CARBALDEHYDE" is an authentic work done by NIMMITHA MURALI (Register No: 193262010) student studying in M.Sc. (IV<sup>th</sup> semester) Department of Chemistry Jnana Kaveri PG Centre, Mangalore University under the guidance of Ms. Nagma Banu H. A. , (Faculty, Dept. of Chemistry) in partial fulfilment of the requirement for the award of Master of Science in Chemistry of Mangalore University in the academic year 2019-2021.



Dr. Chandrashekharaiah

Coordinator

Co-Ordinator

Department of Chemistry

Mangalore University

Jnana Kaveri PG Centre

Chikkaluvara

## CERTIFICATE

This is to certify that the project report entitled “**A Review on Triazoles and Synthesis of 5-(3-nitrophenyl)-3-(4-(prop-2-yn-1-yloxy)phenyl)-4,5-dihydro-1H-pyrazole-1-carbothioamide**” is an authentic work done by **Priyanka J (Register No: 193262011)** student studying in M.Sc. (IV semester) Department of Chemistry Jnana Kaveri PG Centre, Mangalore University under the guidance of **MS. Mohana Kumari D S**, (Faculty, Dept. of Chemistry) in partial fulfilment of the requirement for the award of Master of Science in Chemistry of Mangalore University in the academic year 2019-2021.



Dr. Chandrashekharaiyah

Coordinator

Department Of Chemistry

Department of Chemistry

Jnana Kaveri, Post Graduate Centre, Chikka Ajuvára- 571232

P.B.No.19, Kuzhalnagar (Post)

Mangalore University  
Jnana Kaveri PG Centre





## CERTIFICATE

This is to certify that the project report entitled “**Green synthesis of Ag NPs using Palm Fruit Juice as reducing agent and its application in colorimetric sensing of Hg (II) ions**” is an authentic work done by **Renjith V (Register No: 193262012)** student studying in M.Sc. (IV<sup>th</sup> semester) Department of Chemistry Jnana Kaveri PG Centre, Mangalore University under the guidance of Ms. Nagma Banu H. A. , (Faculty, Dept. of Chemistry) in partial fulfilment of the requirement for the award of Master of Science in Chemistry of Mangalore University in the academic year 2019-2021.

Dr. Chandrashekharaiah

Coordinator

Department of Chemistry

Mangalore University

Jnana Kaveri PG Centre

## CERTIFICATE

This is to certify that the project work titled **“THE REVIEW ON THIAZOLE AND THE SYNTHESIS OF 3-NITRO AND 4-METHOXY SUBSTITUTED CHALCONE DERIVATIVES”** is the result of work carried out by **ROSHINI K H** Reg. No.: **193262013** at Mangalore university, Jnana kaveri post graduation center, Chikkaluvara, Kodagu as a part of the M.Sc. IV Semester course in **CHEMISTRY** (2020-2021) under the guidance of Ms.Yashika P B.,Faculty, Mangalore university, Jnana kaveri post graduation center, Chikkaluvara, Kodagu and submitted to the Department of **CHEMISTRY**, Mangalore University for evaluation.



Dr.Chandrashekaraiiah

Director(I/O) **Coordinator**

Department Of Chemistry

Mangalore University

Jnana Kaveri, Post Graduate Centre, Chikka Aluvara- 571324

Jnana kaveri PG center

Bommaspet (Tq), Kodagu (Dist)Karnataka

Chikkaluvara



## CERTIFICATE

This is to certify that the project work titled "THE REVIEW ON THIAZOLE AND THE SYNTHESIS OF 3-NITRO AND 4-METHOXY SUBSTITUTED CHALCONE DERIVATIVES" is the result of work carried out by **SACHIN B B** Reg. No.: 193262014 at Mangalore university, Jnana kaveri post graduation center, Chikkaluvara, Kodagu as a part of the M.Sc. IV Semester course in **CHEMISTRY** (2020-2021) under the guidance of Ms.Yashika P B.,Faculty, Mangalore university, Jnana kaveri post graduation center, Chikkaluvara, Kodagu and submitted to the Department of **CHEMISTRY**, Mangalore University for evaluation.



Dr.Chandrashekar  
Co-ordinator  
Department Of Chemistry  
Mangalore University

Mangalore University  
Post Graduate Centre, Chikka Aluvara- 574234  
P.S.Horts, Kullasigar (Post)  
Talukodda (Tq), Kodagu (District)


Jnana kaveri PG center  
Chikkaluvara



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Dr.Chandrashekarajiah

Director(I/C)

Mangalore University

Jnana kaveri PG center

Chikkaluvara



## CERTIFICATE

This is to certify that the project report entitled "THE REVIEW ON PYRAZOLE AND SYNTHESIS OF 3-METHYL-1-PHENYL-5-(P-TOLYLOXY)-1H-PYRAZOLE-4-CARBALDEHYDE" is an authentic work done by **SUMANTH D (Register No: 193262016)** student studying in M.Sc. (IV<sup>th</sup> semester) Department of Chemistry Jnana Kaveri PG Centre, Mangalore University under the guidance of Ms. Nagma Banu H. A. , (Faculty, Dept. of Chemistry) in partial fulfilment of the requirement for the award of Master of Science in Chemistry of Mangalore University in the academic year 2019-2021.



Dr. Chandrashekharaiah

Co-Ordinator  
Department of Chemistry  
Mangalore University

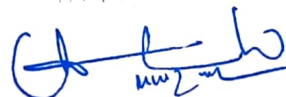
Jnana Kaveri PG Graduate Centre, Chikka Aluvara- 571214  
MELNOR, Karkal Road, Somwarpet (Tq), Kodagu (District)  
Department of Chemistry  
Mangalore University

Jnana Kaveri PG Centre

Chikkaluvara

## CERTIFICATE

This is to certify that the project report entitled "The review of DDQ and synthesis of some heterocyclic derivatives" is an authentic work done by **Swathika Sasi (Register No: 193262017)** student studying in M.Sc. (IV semester) Department of Chemistry Jnana Kaveri PG Centre, Mangalore University under the guidance of Ms. Nagma Banu H.A, (Faculty, Dept. of Chemistry) in partial fulfilment of the requirement for the award of Master of Science in Chemistry of Mangalore University in the academic year 2019-2021.



Dr. Chandrashekharaiiah

(Co-Ordinator)  
Coordinator

Department of Chemistry

Mangalore University

Department of Chemistry

Jnana Kaveri PG Centre

Mangalore University

Jnana Kaveri PG Centre



## CERTIFICATE

This is to certify that the project report entitled "The review of DDQ and synthesis of some heterocyclic derivatives" is an authentic work done by **Vinaykumar C B (Register No: 193262018)** student studying in M.Sc. (IV semester) Department of Chemistry Jnana Kaveri PG Centre, Mangalore University under the guidance of Ms. Nagma Banu H.A, (Faculty, Dept. of Chemistry) in partial fulfilment of the requirement for the award of Master of Science in Chemistry of Mangalore University in the academic year 2019-2021.



Dr. Chandrashekharaiyah

Coordinator

Department of Chemistry

Mangalore University

Jnana Kaveri PG Centre

