

SYNTHESIS AND SENSING STUDIES ON NOVEL SALICYLALDEHYDE BASED LIGAND

A Project report submitted for partial fulfillment of the requirement
for the degree of

MASTER OF SCIENCE IN CHEMISTRY

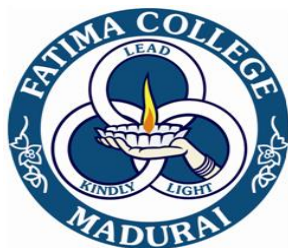
By

O.BAGAVATHI

(Register No: 2019MSCC03)

Under the guidance of

Dr. M. Priyadharsani, M.Sc., M.Phil., SET, Ph.D



DEPARTMENT OF CHEMISTRY

FATIMA COLLEGE (AUTONOMOUS)

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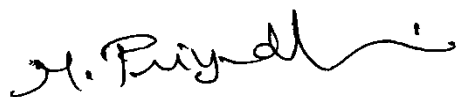
74th Rank in india ranking 2020 (NIRF) by MHRD

Mary land, Madurai

April - 2021

BONAFIDE CERTIFICATE

This is to certify that the project work entitled “ **SYNTHESIS AND SENSING STUDIES ON NOVEL SALICYLALDEHYDE BASED LIGAND**” submitted to Fatima college, Madurai in partial fulfillment for the award of the degree of master of science in chemistry is a Bonafide record of the work has carried out by Ms.O.BAGAVATHI (Reg no:2019MSCC03) under the supervision of Dr. M. Priyadharsani, M.Sc., M.Phil , Ph.D, Fatima college, Madurai, for the academic year 2021. This dissertation or part there of has not been submitted elsewhere for the award of any other degree.



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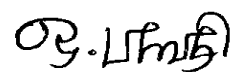


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DECLARATION

I do here by declare that this dissertationentitled “**SYNTHESIS AND SENSING STUDIES ON NOVEL SALICYLALDEHYDE BASED LIGAND**”submitted to Fatima College, in partial fulfillment of requirement for the award of MASTER OF SCIENCE IN CHEMISTRY, is a record of original research work done by me during the academic year 2020-2021, under the guidance of Dr. M. Priyadharsani, M.Sc., M.Phil , Ph.D, Fatima College,Madurai. I also declare that this dissertation or part of work has not been published earlier elsewhere in any manner.



(O . BAGAVATHI)

Place :Madurai

Date : 16.04.2021

(Register number : 2019MSCC03)

SYNTHESIS AND CHARACTERIZATION OF NOVEL O-VANILLIN BASED LIGAND

A Project report submitted for partial fulfilment of the requirement

For the degree of

MASTER OF SCIENCE IN CHEMISTRY

Submitted By

P. BEULA ESTHER

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FATIMA COLLEGE (AUTONOMOUS)

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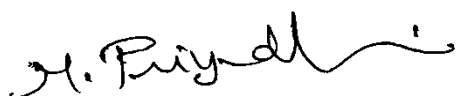
74th Rank in India Ranking 2020 (NIRF) by MHRD

Mary Land – Madurai

April-2021

CERTIFICATE

This is to certify that the project report “**SYNTHESIS AND CHARACTERIZATION OF NOVEL O-VANILLIN BASED LIGAND**” was carried out by **Mrs. P. Beula Esther (Reg. No. 2019MSCC04)**, under the guidance of **Dr. M. Priyadharsani, Assistant professor, Department of chemistry, Fatima college, Madurai** and submitted to Department of Chemistry, **FATIMA COLLEGE(AUTONOMOUS), Madurai**, in partial fulfilment of the requirements for the award of the Degree of **MASTER OF SCIENCE** in chemistry, during the academic year 2020-2021.



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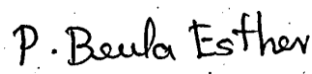
Madurai-625 018.

DECLARATION

I hereby declare that this project work entitled “**SYNTHESIS AND CHARACTERIZATION OF NOVEL O-VANILLIN BASED LIGANDS**” has been originally carried out by me in PG Chemistry department laboratory during the academic year 2020-2021, under the guidance of **Dr. M. Priyadharsani, Assistant professor, Department of chemistry, Fatima college, Madurai** and this work or any part of this has not been submitted elsewhere for any other degree.

Place: Madurai

Date: 16.04.2021



Signature of the Candidate

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ANTIMICROBIAL STUDIES ON O-VANILLIN BASED LIGAND

*A Project report submitted for partial fulfilment of the requirement
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MASTER OF SCIENCE IN CHEMISTRY

By

A. IRUTHAYA ANTONY AUXILIYA

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Mary land, Madurai

April-2021

BONAFIDE CERTIFICATE

This is to certify that the project work entitled “**ANTIMICROBIAL STUDIES ON OVANILLIN BASED LIGAND**” submitted to Fatima College, Madurai in partial fulfilment for the award of the degree of Master of Science in Chemistry is a Bonafide record of the work has carried out by Ms. A. IRUTHAYA ANTONY AUXILIYA (Reg.No. 2019MSCC14) under the supervision of **Dr. V. ARUL DEEPA, M.Sc., M.Phil. Ph.D**, Fatima college, Madurai, for the academic year 2021. This dissertation or part thereof has not been submitted elsewhere for the award of any other degree.



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DECLARATION

I do hereby declare that this dissertation entitled “**ANTIMICROBIAL STUDIES ON OVANILLIN BASED LIGAND**” submitted to Madurai Kamaraj University in partial fulfilment of requirement for the award of **MASTER OF SCIENCE IN CHEMISTRY**, is a record of original research work done by me during the academic year 2021, under the guidance of **Dr. V. ARUL DEEPA, M.Sc., M.Phil.Ph.D.**, Fatima college, Madurai. I also declare that this dissertation or part of work has not been published earlier elsewhere in any manner.



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Date: 16.04.2021

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STUDIES ON NOVEL DICHLORO SALICYLALDEHYDE BASED LIGAND

*A project report submitted for partial fulfillment of the requirement
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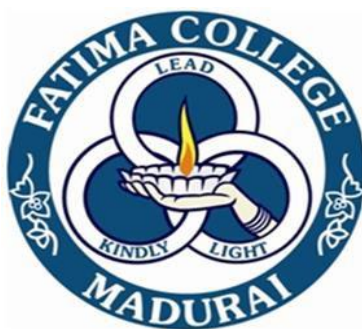
MASTER OF SCIENCE IN CHEMISTRY

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(Register No: 2019MSCC15)

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College with potential for excellence (2004-2021)

74th Rank in India Ranking 2020(NIRF) by MHRD

Mary Land Madurai,

April - 2021

BONAFIDE CERTIFICATE

This is to certify that the project work entitled “**STUDIES ON NOVEL DICHLORO SALICYALDEHYDE BASED LIGAND**” submitted to Fatima college, Madurai in partial fulfilment for the award of the degree of Master of Science in Chemistry is a Bonafide record of the work has carried out by Ms.A. JENCY (Register No:2019MSCC15) under the supervision of **Dr. V. ARUL DEEPA, M.Sc., M. Phil, Ph.D.**, Fatima college, Madurai, for the academic year 2020- 2021. This dissertation or part thereof has not been submitted elsewhere for the award of any other degree.



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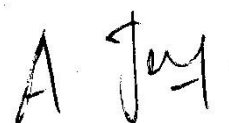
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DECLARATION

I do hereby declare that this dissertation entitled “**STUDIES ON NOVEL DICHLORO SALICYLALDEHYDE BASED LIGAND**” submitted to Madurai Kamaraj University in partial fulfillment of requirement for the award of MASTER OF SCIENCE IN CHEMISTRY, is a record of original research work done by me during the academic year 2020-2021, under the guidance of **Dr. V. ARUL DEEPA, M.Sc., M.Phil., Ph.D.** Fatima college, Madurai. I also declare that this dissertations or part of work has not been published earlier elsewhere in any manner.



Place: Madurai
Date: 16.04.2021

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**SYNTHESIS OF DIHYDROPYRIMIDINTHIONES *via* DRY
MEDIAMELT REACTION METHODOLOGY**

*A project report submitted for
partial fulfillment of the requirement for the award of degree of*

MASTER OF SCIENCE IN CHEMISTRY

Submitted by

Ms. J. VENUS MARY

[Reg. No. 2019MSCC28]



FATIMA COLLEGE (AUTONOMOUS)

Re-Accredited with 'A' Grade by NAAC (3rd Cycle)

College with Potential for Excellence (2004-2019)

74 rank in India Ranking 2020 (NIRF) by MHRD

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CERTIFICATE

This is to certify that the project report “**SYNTHESIS OF DIHYDROPYRIMIDINTHIONES via DRY MEDIA MELT REACTION METHODOLOGY**” was carried out by **Ms. J. VENUS MARY (Reg.No.2019MSCC28)**, under the guidance of **Dr. R. K. SUBIMOL, Assistant Professor, Department of Chemistry, Fatima College, Madurai** and submitted to Department of Chemistry, **FATIMA COLLEGE (AUTONOMOUS), Madurai**, in partial fulfillment of the requirements for the award of the Degree of **MASTER OF SCIENCE** in Chemistry, during the academic year 2020-2021.



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EXTERNAL EXAMINER

DECLARATION

I hereby declare that this project work entitled **“SYNTHESIS OF DIHYDROPYRIMIDINTIONES *via* DRY MEDIA MELT REACTION METHODOLOGY”** has been originally carried out by me in PG Chemistry Department laboratory during the academic year 2020-2021, under the guidance of **Dr. R. K. SUBIMOL**, Assistant Professor of Chemistry, Fatima College, Madurai -625 018 and this work or any part of this has not been submitted elsewhere for any other degree.

J. Venus Mary.

Place: Madurai

Date:

Signature of the Candidate

(J. VENUS MARY)

SYNTHESIS OF DIHYDROPYRIMIDINONES *via* DRY MEDIA

MELT REACTION METHODOLOGY

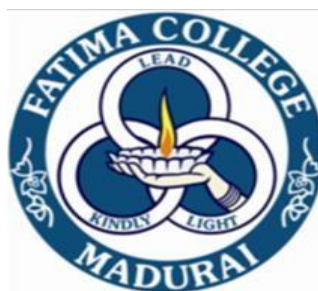
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Submitted by

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FATIMA COLLEGE (AUTONOMOUS)

Re-Accredited with 'A' Grade by NAAC (3rd Cycle)
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Place: Madurai

Signature of the Candidate

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SYNTHESIS AND CHARACTERIZATION OF PHOTO-LUMINESCENT Au NANOCCLUSERS

A project report submitted for
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Submitted by

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[Reg No. 2019MSCC30]



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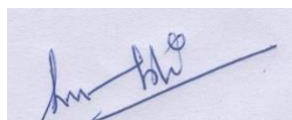
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Guide

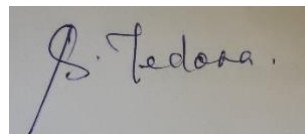
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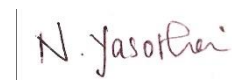
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EXTERNAL EXAMINER

DECLARATION

I hereby declare that this project work entitled “**SYNTHESIS AND CHARACTERIZATION OF PHOTO-LUMINESCENT GOLD NANOCCLUSERS**” has been originally carried out by me in PG Chemistry department laboratory during the academic year 2020-2021, under the guidance of **Dr. K. R. Subimol, Assistant professor, Department of chemistry, Fatima college, Madurai** and this work or any part of this has not been submitted elsewhere for any other degree.



Place: Madurai

Date: 15.04.2021

Signature of the Candidate

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