

**ANOVEL TURN-OFF FLUORESENCE SENSOR PROBE FOR Cu (II) RECOGNITION  
Via STATIC QUENCHING USING SCHIFF BASE DERIVED FROM L-TRYPTOHAN  
AND NITROBENZALGEHYDE**

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

**MASTER OF SCIENCE IN CHEMISRY**

**Submitted by**

**Ms. A. SUMITHRA DEVI  
[Reg. No. 2019MSCC26]**



**FATIMA COLLEGE (AUTONOMOUS)**

Re- Accredited with 'A' Grade by NAAC(3<sup>rd</sup> cycle)

College with potential fir excellence (2004-2019)

74<sup>th</sup> Rank in India Ranking 2020 (NIRF by MHRO)

**DEPARTMENT OF CHEMISTRY**

**Mary land**

**MADURAI -625 018**

**Under the External guidance of**

**Dr. A. JEEVIKA**



**Department of Chemistry**

**Thiagarajar College**

**Madurai – 625 009.**

**APRIL -2021**



# Thiagarajar College, Madurai-9

(An Autonomous Institution affiliated of the Madurai Kamaraj University)

Re-Accredited with 'A<sup>++</sup>' Grade by NAAC, Ranked 22<sup>nd</sup> in NIRF

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Dr. A. Jeevika

15-04-2021

Assistant Professor

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## CERTIFICATE

This is to certify that the M.Sc project work entitled **“A NOVEL TURN-OFF FLUORESCENCE SENSOR PROBE FOR CU (II) RECOGNITION USING SCHIFF BASE DERIVED FROM L-TRYPTOPHAN AND NITROBENZALDEHYDE”** submitted by **Ms. A. SUMITHRA DEVI (Reg. No. 2019MSCC26)**, for the partial fulfillment of the award of **MASTER OF SCIENCE in CHEMISTRY** is a record of project work done under my supervision during the period of 21<sup>st</sup> January 2021 till 15<sup>th</sup> April 2021. Further, it is also certified that the dissertation has not been reproduced elsewhere for partial fulfillment of degree or diploma.

[Dr. A. Jeevika]

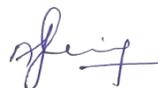
## CERTIFICATE

This is to certify that the project report “**A NOVEL TURN-OFF FLUORESCENCE SENSOR PROBE FOR CU (II) RECOGNITION USING SCHIFF BASE DERIVED FROM L-TRYPTOPHAN AND NITROBENZALDEHYDE**” was carried out by **Ms. A. SUMITHRA DEVI (Reg. No. 2019MSCC26)**, under the guidance of **Dr. R. Sarika** and submitted to Department of Chemistry, **FATIMA COLLEGE (AUTONOMOUS), MADURAI**, in a partial fulfillment of the requirements for the award of the Degree of **MASTER OF SCIENCE** in Chemistry, during the academic year 2019-2021.



### **INTERNAL GUIDE**

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### **EXTERNAL GUIDE**

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### **HEAD OF THE DEPARTMENT**

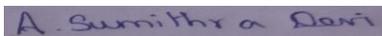
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### **EXTERNAL EXAMINER**

## **DECLARATION**

I hereby declare that this project work entitled “**A NOVEL TURN-OFF FLUORESCENCE SENSOR PROBE FOR Cu (II) RECOGNITION Via STATIC QUENCHING USING SCHIFF BASE DERIVED FROM L-TRYPTOHAN AND NITROBENZALGEHYDE**” has been originally carried out by me in PG Chemistry department laboratory during the academic year 2019-2020, under the guidance of **Dr. A. Jeevika Assistant Professor of Chemistry, Thiagarajar College, Madurai -09**, and this work or any part of this has not been submitted elsewhere for any other degree.

**Place: Madurai**



**Signature of the Candidate**

**Date: 15/04/2021**

**(A. SUMITHRA DEVI)**