

VIKRAMA SIMHAPURI UNIVERSITY  
NELLORE – 524324 (A.P), INDIA



Dr. P. THRIVENI M.Sc., Ph.D.,

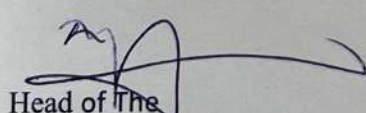
Department of Chemistry  
Vikrama Simhapuri University  
Nellore – 524324, INDIA

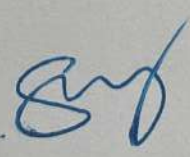
Mobile: 9110581934  
E- mail:pthriveni@vsu.ac.in

Certificate

This is to certify that the project work entitled *2-((3-methyl pyridine-2-yl)methylthio)-1H-benzo[d]imidazole* is the bonafide work done by GUNJI. VENKATESWARULU (220401001032) Department of Chemistry in partial fulfillment of the requirement for the award of Master of Science degree in Chemistry by Vikrama Simhapuri University, Nellore during fourth semester of the academic year (2023-2024) under my guidance.

This project is his original work done under my supervision and has not been submitted to any university or institutions for award of any Degree or Diploma.

  
Head of The  
Department

  
P. Thriveni  
Project Supervisor  
Dr. P. THRIVENI



**VIKRAMA SIMHAPURI UNIVERSITY**  
**NELLORE – 524324 (A.P), INDIA**

**Dr. P. THRIVENI, M.Sc., Ph.D.,**

Associate professor

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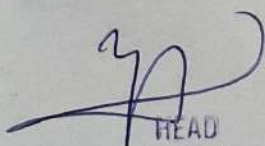
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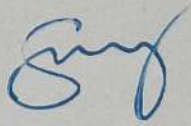
Email: [Pthriveni@vsu.ac.in](mailto:Pthriveni@vsu.ac.in)

**Certificate**

This is to certify that the project work entitled "**An Efficient Synthesis of 4-(4-Hydroxyphenyl) piperazin-1-yl) phenyl)-2-propyl-2H-1,2,4-triazol-3-(4H)-one**" is the bonafide work done by **PITTA VENKATESH** (220401001016), **ELIGJALA. VENKATA RAM** (220401001023) Department of Chemistry in partial fulfillment of the requirement for the award of Master of Science degree in Chemistry by Vikrama Simhapuri University, Nellore during fourth semester of the academic year (2022-2024) under my guidance.

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HEAD  
Department of Chemistry  
VIKRAMA SIMHAPURI UNIVERSITY  
KAKUTUR, NELLORE-524 320 (A.P.)

  
P. Thriveni  
Dr.P. THRIVENI  
Project Supervisor  
(Dr. S. Alinarayana Reddy)  
External examiner



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Certificate

This is to certify that the project work entitled *2-((3-methyl pyridine-2-yl)methylthio)-1H-benzo[d]imidazole* is the bonafide work done by UPPU. RAVI TEJA (220401001028), GUNJI. VENKATESWARULU (220401001032) Department of Chemistry in partial fulfillment of the requirement for the award of Master of Science degree in Chemistry by Vikrama Simhapuri University, Nellore during fourth semester of the academic year (2023-2024) under my guidance.

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Head of The  
Department

P. Thriveni  
Project Supervisor  
Dr. P. THRIVENI

(Dr. S. Adinarayana Reddy)  
External examiner





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**Dr. P. THRIVENI, M.Sc., Ph.D.,**  
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Nellore – 524324, INDIA

**Mobile : 9110581934**  
E-mail: pthriveni@vsu.ac.in

**Certificate**

This is to certify that the project work entitled **An Efficient Synthesis of 1-(tert-butoxycarbonyl)-5-(methoxycarbonyl)pyrrolidin-3-yl methanesulfonate** is the bonafide work done by **VEERAMASINA.**

**SRIVARDHAN (220401001019)** in the department of chemistry in partial fulfillment of the requirement for the award of Master of Science degree in Chemistry by Vikrama Simhapuri University, Nellore during fourth semester of the academic year (2022-2024) under my guidance.

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**HEAD**  
Department of Chemistry  
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KAKUTUR, NELLORE-524 324 (A.P.)

(Dr. S. Adi Narayana Reddy)  
External Examiner

**Dr. P. THRIVENI**  
Project Supervisor





**VIKRAMA SIMHAPURI UNIVERSITY  
NELLORE – 524324 (A.P), INDIA**

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**Dr. P. THRIVENI, M.Sc., Ph.D.,**

Associate professor  
Department of Chemistry  
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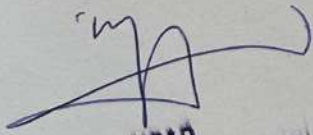
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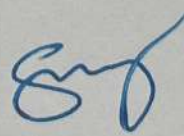
*Certificate*

This is to certify that the project work entitled **An Efficient Synthesis of silyl protected oxy acetyl cyclo penta(a)phenanthrene-3-one** is the bonafide work done by GUDDALA NURESH BABA (220401001006), BATTULA SRAVANI (220401001004), ALIMILLI SWAPNA (220401001003) Department of Chemistry in partial fulfilment of the requirement for the award of Master of Science degree in Chemistry by Vikrama Simhapuri University, Nellore during fourth semester of the academic year (2022-2024) under my guidance.

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*P. Thriveni*  
Dr.P. THRIVENI  
Project Supervisor

  
HEAD  
Department of Chemistry  
VIKRAMA SIMHAPURI UNIVERSITY  
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(Dr. S. Adinarayana Reddy)  
External examiner



## VIKRAMA SIMHAPURI UNIVERSITY

(Accredited with NAAC 'A' Grade with CGPA 3.23)

Nellore- 524 324, AP, India

**Dr. P. THRIVENI, M.Sc., Ph.D.,**

Associate professor

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E-Mail: pthriveni@vsu.ac.in

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### Certificate

This is to certify that the project work entitled, **SYNTHESIS OF ISOXAZOLE DERIVATIVES** is the bonafide work done by **JALLI ANJALI (220401001008)** and **GARNDIVEMULA RAMADEVI (220401001005)** of the Department of Chemistry, in partial fulfillment of the requirement for the award of Master of Science degree in Chemistry by Vikrama Simhapuri University, Nellore during the fourth semester of the academic year (2023-2024), under my guidance. This project is her original work conducted under my supervision and has not been submitted to any university or institution for the award of any Degree or Diploma.

HEAD

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P. THRIVENI

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Associate professor

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(Dr. S. Adinarayana  
Reddy)

External Examiner





# VIKRAMA SIMHAPURI UNIVERSITY

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Nellore- 524 324, AP, India

**Dr. P. THRIVENI, M.Sc., Ph.D.,**

Associate professor


Department of Chemistry

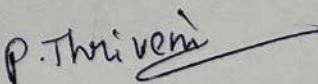
E-Mail: pthriveni@vsu.ac.in

Mobile: +91 9110581934

## Certificate

This is to certify that the project work entitled, **SYNTHESIS OF PYRAZOLE DERIVATIVES** is the bonafide work done by Ms. **POTLURIJYOTHI (220401001027)** **MUSULURU NANDINI (220401001026)** of the Department of Chemistry, in partial fulfillment of the requirement for the award of Master of Science degree in Chemistry by Vikrama Simhapuri University, Nellore during the fourth semester of the academic year (2023-2024), under my guidance. This project is her original work conducted under my supervision and has not been submitted to any university or institution for the award of any Degree or Diploma.

  
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**P.THRIVENI**

Project Supervisor

Associate professor

Department of Chemistry

Vikrama Simhapuri University

Nellore-524 324, AP, India



(Dr. S. Adi Narayana Reddy)  
External examiner



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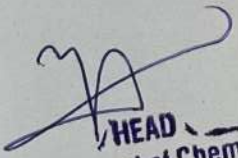
**Dr. P. THRIVENI, M.Sc., Ph.D.,**  
Associate professor  
Department of Chemistry  
Vikrama Simhapuri University  
Nellore – 524324, INDIA

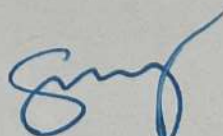
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E-mail: pthriveni@vsu.ac.in

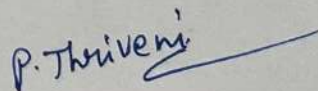
**Certificate**

This is to certify that the project work entitled **An Efficient Synthesis of methyl 4-(N-phenylpropionamido)-1-benzylpiperidine-4-carboxylate** is the bonafide work done by **PUJARI HYMAVATHI (220401001030)** in the department of chemistry in partial fulfillment of the requirement for the award of Master of Science degree in Chemistry by Vikrama Simhapuri University, Nellore during fourth semester of the academic year (2022-2024) under my guidance.

This project is her original work done under my supervision and has not been submitted to any university or institutions for award of any Degree or Diploma.

  
**HEAD**  
Department of Chemistry  
VIKRAMA SIMHAPURI UNIVERSITY  
KAKUTUR, NELLORE-524 320 (A.P.)

  
(Dr. S. Adinarayana Reddy)  
External Examiner

  
Dr.P. THRIVENI  
Project Supervisor





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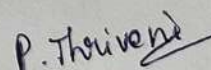
**Dr. P. THRIVENI, M.Sc., Ph.D.,**  
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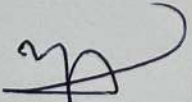
*Certificate*

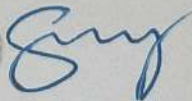
This is to certify that the project work entitled **“An Efficient Synthesis of Decahydro-17-hydroxy-17-(2-ethyl-2-ethoxy-1,3-dioxan-5-one)-10,13-dimethyl-6H-cyclopenta[a]phenanthrene-3(10H)-one (Clascoterone by product)”** is the bonafide work done by **POTLA PUNYABALA DURGA BABU (220401001017)**, **KALASAPATI VENKATESH (220401001025)**, **BUDAMA SRAVANI (220401001002)**, Department of Chemistry in partial fulfillment of the requirement for the award of Master of Science degree in Chemistry by Vikrama Simhapuri University, Nellore during fourth semester of the academic year (2022-2024) under my guidance.

This project is his original work done under my supervision and has not been submitted to any university or institutions for award of any Degree or Diploma.

  
Dr.P. THRIVENI

Project Supervisor

  
HEAD  
Department of Chemistry  
VIKRAMA SIMHAPURI UNIVERSITY  
KAKUTUR, NELLORE-524 320 (A.P.)

  
(Dr. S. Adinarayana Reddy)  
External examiner



VIKRAMA SIMHAPURI UNIVERSITY  
NELLORE – 524324 (A.P), INDIA




**Dr. P. THRIVENI, M.Sc., Ph.D.,**

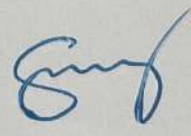
Associate professor  
Department of Chemistry  
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E-mail:pthriveni@vsu.ac.in

Certificate

This is to certify that the project work entitled “An efficient synthesis of 7-[4-(4-fluorophenyl)-6-isopropyl-2-(N-methylmethylsulfonamido)pyrimidin-5-yl]-5-hydroxyhepta-2,6-dienoic acid sodium (Rosuvastatin byproduct)” is the bonafide work done by KUDUMULA SUJATHA (220401001010), PIDUGU HARSHITHA (220401001014), TALAMALA ANUSHAGRACE (220401001018) Department of Chemistry in partial fulfillment of the requirement for the award of Master of Science degree in Chemistry by Vikrama Simhapuri University, Nellore during fourth semester of the academic year (2022-2024) under my guidance. This project is there original work done under my supervision and has not been submitted to any university or institutions for award of any Degree or Diploma.

  
HEAD  
Department of Chemistry  
VIKRAMA SIMHAPURI UNIVERSITY  
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Dr. P. THRIVENI  
Project Supervisor  
(Dr. S. Adinarayana Reddy)  
External examiner



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Dr. P. THRIVENI, M.Sc., Ph.D.,

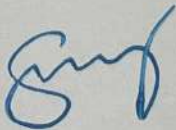
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Mobile: 9110581934  
E- mail:[Pthriveni@vsu.ac.in](mailto:Pthriveni@vsu.ac.in)

Certificate

This is to certify that the project work entitled “**An Efficient Synthesis of 4-[ 2-hydroxy -3-[(1-methylethyl)amino] propoxy] benzeneacetamide (Atenolol byproduct)**” is the bonafide work done by PIGILAM. AMANI (220401001015), CHEEKATI. KRUPA KEERTHI(220401001020), Department of Chemistry in partial fulfillment of the requirement for the award of Master of Science degree in Chemistry by Vikrama Simhapuri University, Nellore during fourth semester of the academic year (2022-2024) under my guidance. This project is her original work done under my supervision and has not been submitted to any university or institutions for award of any Degree or Diploma.

  
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Department of Chemistry  
VIKRAMA SIMHAPURI UNIVERSITY  
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Dr.P. THRIVENI  
Project Supervisor

(Dr. S. Ardi Narayana Reddy)  
External Examiner





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**Dr. P. THRIVENI, M.Sc., Ph.D.,**

Associate professor

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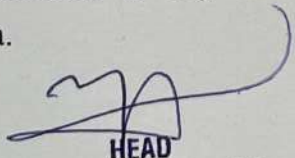
Vikrama Simhapuri University

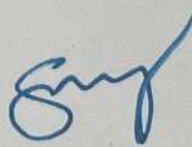
Nellore 524324, INDIA

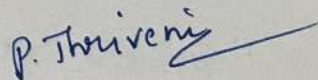
## Certificate

This is to certify that the project work entitled **SYNTHESIS OF 2,3 - DIHYDROXYPROPYL OCTADECA 9,12-DIENOATE (TRILINOLEIN BYPRODUCT)** is the bonafide work done by **KOMERA ROHINI (2204010011009), DEVARAPALLI RAJIYA (2204010011011), MALLISRILATHA (220401001012)** Department of Chemistry in partial fulfilment of the requirement for the award of Master of Science degree in Chemistry by Vikrama Simhapuri University, Nellore during fourth semester of the academic year (2022-2024) under my guidance.

This project is their original work done under my supervision and has not been submitted to any university or institutions for award of any Degree or Diploma.

  
HEAD  
Department of Chemistry  
VIKRAMA SIMHAPURI UNIVERSITY  
KAKUTUR, NELLORE-524 320 (A.P.)

  
(Dr. S. Adinarayana Reddy)  
External examiner

  
Dr.P. THRIVENI  
Project Supervisor



VIKRAMA SIMHAPURI UNIVERSITY  
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**Dr. P. THRIVENI, M.Sc., Ph.D.,**  
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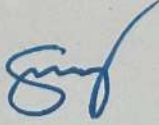
Mobile: 9110581934  
E- mail: [Pthriveni@vsu.ac.in](mailto:Pthriveni@vsu.ac.in)

Certificate

This is to certify that the project work entitled  
“AN EFFICIENT SYNTHESIS OF METHYL CIS-4-[[[(4-METHYLPHENYL)  
SULFONYL]OXY]METHYL]CYCLOHEXANE CARBOXYLATE (TRANEXAMIC ACID BY  
PRODUCT)” is the bonafide work done by VAVILAPALLI DAMODARA RAO (220401001021)  
,KOMATIGUNTLA MADHU (220401001022),GUDDETI BHAGYA SREE (220401001007),  
ADDANKI ESWARAMMA (220401001001) Department of Chemistry in partial fulfillment of  
the requirement for the award of Master of Science degree in Chemistry by Vikrama Simhapuri  
University, Nellore during fourth semester of the academic year (2022-2024) under my guidance.

This project is his original work done under my supervision and has not been submitted to  
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HEAD  
Department of Chemistry  
VIKRAMA SIMHAPURI UNIVERSITY  
KAKUTUR, NELLORE-524 320 (A.P.)

  
Dr.P. THRIVENI  
Project Supervisor  
(Dr. S. Adinayana Reddy)  
External examiner



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**Dr. P. THRIVENI, M.Sc., Ph.D.,**  
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E-mail: pthriveni@vsu.ac.in

*Certificate*

This is to certify that the project work entitled **An Efficient Synthesis of 1-(4-(6-azido hexyloxy)butyl)benzene** is the bonafide work done by **GANGAPURAM KUSUMA (20401001029)** in the department of chemistry in partial fulfillment of the requirement for the award of Master of Science degree in Chemistry by Vikrama Simhapuri University, Nellore during fourth semester of the academic year (2022-2024) under my guidance.

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*P. Thriveni*  
**Dr.P. THRIVENI**  
Project Supervisor

*(Dr. S. Adi Narayana Reddy)*  
external examiner.





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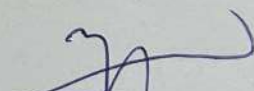
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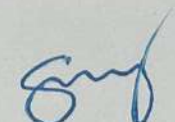
**Mobile : 9110581934**  
E-mail: pthriveni@vsu.ac.in

**Certificate**

This is to certify that the project work entitled **An Efficient Synthesis of 2-[[3,5-bis[[2-hydroxy-1-(hydroxymethyl)ethyl]carbamoyl]-2,4,6-triiodophenyl]amino]-1-methyl-2-oxoethyl acetate** is the bonafide work done by **KOMATI REDDY RAMYASREE(220401001031)** in the department of chemistry in partial fulfillment of the requirement for the award of Master of Science degree in Chemistry by Vikrama Simhapuri University, Nellore during fourth semester of the academic year (2022-2024) under my guidance.

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**HEAD**  
Department of Chemistry  
**VIKRAMA SIMHAPURI UNIVERSITY**  
KAKATUR, NELLORE-524 320 (A.P.)

  
**Dr. P. THRIVENI**  
Project Supervisor  
**(Dr. S. Anarayana Reddy)**  
External examiner





## CERTIFICATE

This is to certify that the Project Report entitled 'ANALYSIS OF WATER QUALITY PARAMETERS IN KAKUTURU VILLAGE' that is being submitted by

**K. SRAVYA (220404001009)**

In partial fulfillment of the requirement for the award of DEPARTMENT OF CHEMISTRY IN VIKRAMA SIMHAPURI UNIVERSITY NELLORE

Is a bonafide record of a water analysis parameters confide work carried out by them under our guidance and supervision. The results embodied in this report have not been submitted to any other university.

Signature of the Project Guide  
Prof. T.VEERA REDDY  
Professor

Signature of Head of the Department  
Dr. Y.VIJAYA  
Department of Chemistry  
VIKRAMA SIMHAPURI UNIVERSITY  
Associate Professor and HOD  
KAKUTUR, NELLORE-524 320 (A.P.)

Examiner:

Date: 18/08/2024





## CERTIFICATE

This is to certify that the Project Report entitled 'ANALYSIS OF WATER QUALITY PARAMETERS IN KAKUTURU VILLAGE' that is being submitted by

**B.PRUDHVI RAJ (220404001007)**

In partial fulfillment of the requirement for the award of DEPARTMENT OF CHEMISTRY IN VIKRAMA SIMHAPURI UNIVERSITY NELLORE

Is a bonafide record of a water analysis parameters confide work carried out by them under our guidance and supervision. The results embodied in this report have not been submitted to any other university.

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Signature of the Project Guide  
Prof. T.VEERA REDDY  
Professor

Signature of Head of the Department  
Dr. Y.VIJAYA  
Associate Professor and  
HEAD  
Department of Chemistry  
VIKRAMA SIMHAPURI UNIVERSITY  
KAKUTUR, NELLORE-524 320 (A.P.)

Examiner:

Date: 18/08/24



## CERTIFICATE

This is to certify that the Project Report entitled 'ANALYSIS OF WATER QUALITY PARAMETERS IN KAKUTURU VILLAGE' that is being submitted by

**M.DIVYA TEJA (220404001010)**

In partial fulfillment of the requirement for the award of DEPARTMENT OF CHEMISTRY IN VIKRAMA SIMHAPURI UNIVERSITY NELLORE

Is a bonafide record of a water analysis parameters confide work carried out by them under our guidance and supervision. The results embodied in this report have not been submitted to any other university.

Signature of the Project Guide  
Prof. T.VEERA REDDY  
Professor

Signature of Head of the Department  
Dr. Y.VIJAYA  
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VIKRAMA SIMHAPURI UNIVERSITY  
KAKUTUR, NELLORE-524 320 (A.P.)

Examiner:

Date: 18/08/24

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**A.DEEPTHI (220404001001)**

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Examiner:

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## CERTIFICATE

This to certify that the project work presented in this dissertation entitled "A STUDY ON WATER PURIFICATION BY CHITOSAN BASED SORBENTS". That is being Submitted by **M.DURGA ARAVIND(220404001022)**, **S.JAREENA(220404001023)**, **U.SAI (220404001024)** Department of chemistry in Vikrama Simhapuri University, Nellore and that no part of the project has been presented for any degree, diploma or similar title of this or any other university.

Signature of the project guide

Dr. Y. VIJAYA (Associate professor)

Place: Nellore

Date:

signature of head of the department

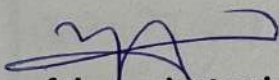
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(Dr. Y. VIJAYA)  
Department of Chemistry  
VIKRAMA SIMHAPURI UNIVERSITY  
KAKUTUR, NELLORE-524 320 (A.P.)



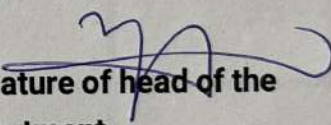


## CERTIFICATE

This to certify that the project work presented in this dissertation entitled "EFFICIENT AND HIGHLY SELECTIVE ADSORPTION OF NICKEL(II) FROM AQUEOUS ENVIRONMENT BY MODIFIED CHITOSAN SORBENTS". That is being Submitted by **R. GANESH, (220404001026), V. POOJITHA (220404001025), N. MAHENDRA (220404001026)** Department of chemistry in Vikrama Simhapuri University, Nellore and that no part of the project has been presented for any degree, diploma or similar title of this or any other university.

  
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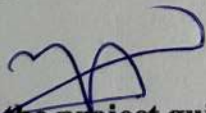
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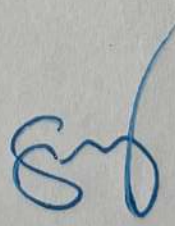
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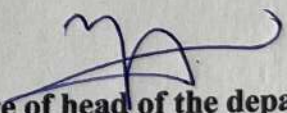
This to certify that the project work presented in this dissertation entitled **“EFFECT OF TEMPERATURE FOR THE REMOVAL OF NICKEL FROM WATER”**. That is being Submitted by **V.GANESH (220404001018), Y.LAXMANA RAO (220404001019), K.SUSHMA (220404001020), P.SRINU (220404001021)** Department of chemistry in Vikrama Simhapuri University, Nellore and that no part of the project has been presented for any degree, diploma or similar title of this or any other university.

  
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# CONTENTS



I INTRODUCTION

II MATERIALS AND

## CERTIFICATE

This to certify that the project work presented in this dissertation entitled **“EFFECT OF pH ON BIOSORPTION OF NICKEL FROM AQUEOUS ENVIRONMENT”**. That is being Submitted by **CH.PRIYANKA (220404001014), R.NANI (220404001015), V.KAVYA (2204-04001016), V.DEVA RAJ (220404001017)** Department of chemistry in Vikrama Simhapuri University, Nellore and that no part of the project has been presented for any degree, diploma or similar title of this or any other university.

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