

Annai College of Arts & Science
Quality Education for Today & Tomorrow
Kovilacheri, Kumbakonam. 612 503. Ph: 0435 2453007
Accredited by NAAC with "B" Grade

CERTIFICATE

I hereby certify that the thesis entitled "Biosynthesis and Characterization of Copper Nanoparticles using *Clerodendrum inerme* and their Antimicrobial Activity" submitted to University, for the award of degree of Master of Science in of Biotechnology embodies the result of bonafide research work carried out by

KRISHNAVENI.P
(Reg. No: P15440604)

Under my guidance and supervision in the Annai College of Arts & Science Kovilacheri, Kumbakonam (Affiliated to Bharathidasan University, Tiruchirapalli). I further certify that under such help or source of information have been availed in this connection is duly acknowledged and that no part of the thesis has been submitted anywhere else for any other degree, diploma, fellowship or their similarities.

Signature,

Head of the Department

Dr. P. MANI, M.Sc., M.Phil., Ph.D.,

Asst. Professor & Head,

Dept. of Biotechnology,

Submitted for Viva Voce Examination held on

KOVILACHERI, Kumbakonam - 612 503.

Signature of the Guide

Dr. S. ANANTH, M.Sc., M.Phil., PGDCA., Ph.D.

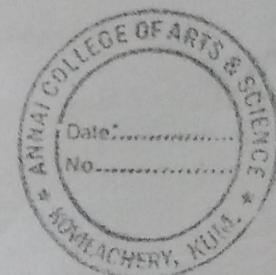
PRINCIPAL

Annai College of Arts & Science

Kovilacheri, Kumbakonam 612 503.

Examiners: 1. _____

2. _____



CERTIFICATE

I hereby certify that the thesis entitled , “**EVALUATION OF LARVICIDAL ACTIVITY OF SYNTHESIZED NANOPARTICLES OF *Clerodendrum inerme* AGAINST DENGUE VECTOR *Aedes aegypti*”**”, submitted to Bharathidasan University, for the award of degree of Master of Science in Biotechnology, embodies the result of bona fide research work carried out by

N.NASRATH BANU

(Reg.No:P15440607)

under my guidance and supervision, in the Annai College of Arts & Science, Kovilacheri, Kumbakonam. I further certify that any help or source of information, have been availed in this connection, is duly acknowledged and that no part of the thesis has been submitted anywhere else, for any other degree, diploma, fellowship or their similarities.

N. Nasrath

Signature of the candidate

[Signature]
Signature of the Guide
Dr. S. ANANTHAKRISHNAN, M.A., M.Sc., M.Phil., Ph.D.
PRINCIPAL

Annai College of Arts & Science
Kovilacheri, Kumbakonam - 612 503.

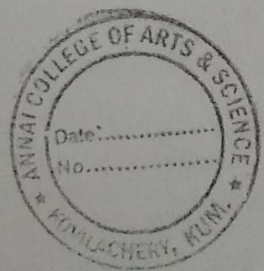
[Signature]
22.03.12

Signature of the HOD

Dr. P. MANI, M.Sc., M.Phil., Ph.D.,
Asst. Professor & Head,
Dept. of Biotechnology,
Annai College of Arts & Science,
KOVILACHERI, Kumbakonam - 612 503.

Examiners

- 1. *[Signature]*
- 2.





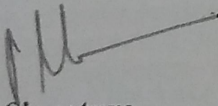
Annai College of Arts & Science
Quality Education for Today & Tomorrow
Kovilacheri, Kumbakonam. 612 503. Ph: 0435 2453007
Accredited by NAAC with "B" Grade

CERTIFICATE

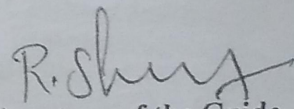
I hereby certify that the thesis entitled "Phytochemical Screening and Antimicrobial Activity of *Syzygiumcumini* (L.) (Myrtaceae) Leaves Extracts" submitted to University, for the award of degree of Master of Science in of Biotechnology embodies the result of bonafide research work carried out by

H.SAMEERA BANU
(Reg. No: P15440610)

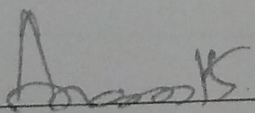
Under my guidance and supervision in the Annai College of Arts & Science Kovilacheri, Kumbakonam (Affiliated to Bharathidasan University, Tiruchirapalli). I further certify that under such help or source of information have been availed in this connection is duly acknowledged and that no part of the thesis has been submitted anywhere else for any other degree, diploma, fellowship or their similarities.

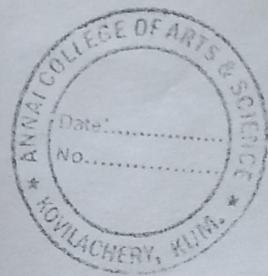
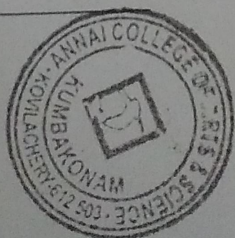

Signature

D. P. MANI, M.Sc., M.Phil., Ph.D.,
Asst. Professor & Head,
Dept. of Biotechnology,
Annai College of Arts & Science,
KOVILACHERI, Kumbakonam


Signature of the Guide

Submitted for Viva Voce Examination held on 22.03.2017

Examiners: 1. 
2. _____





Annai College of Arts & Science
Quality Education for Today & Tomorrow
Kovilacheri, Kumbakonam. 612 503. Ph: 0435 2453007
Accredited by NAAC with "B" Grade

CERTIFICATE

I hereby certify that the thesis entitled "STUDIES ON THE ANTIFUNGAL POTENTIALITY OF *Eichhornia crassipes* (Kunth.) AGAINST ORAL CANDIDIASIS" submitted to University, for the award of degree of Master of Science in of Biotechnology embodies the result of bonafide research work carried out by

S.MATHAN

REG.NO: P15440605

Under my guidance and supervision in the Annai College of Arts & Science Kovilacheri, Kumbakonam (Affiliated to Bharathidasan University, Tiruchirapalli). I further certify that under such help or source of information have been availed in this connection is duly acknowledged and that no part of the thesis has been submitted anywhere else for any other degree, diploma, fellowship or their similarities.

P.M. 22.03.17

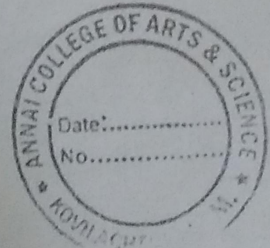
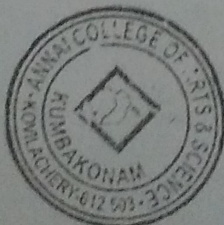
Head of the Department
Dr. P. MANI, M.Sc., M.Phil., Ph.D.
Asst. Professor & Head,
Dept. of Biotechnology,
Annai College of Arts & Science,
KOVILACHERI, Kumbakonam - 612 503.

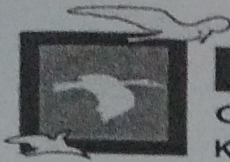
Signature of the Guide
Dr.S.ASOKAN, M.Sc., Ph.D.,
Assistant Professor,
Dept. of Microbiology,
Annai College of Arts & Science
Kovitacheri-612 503
Kumbakonam

Submitted for Viva Voce Examination held on _____

Examiners: 1. _____

2. _____






Annai College of Arts & Science
Quality Education for Today & Tomorrow
Kovilacheri, Kumbakonam. 612 503. Ph: 0435 2453007
Accredited by NAAC with "B" Grade

CERTIFICATE

I hereby certify that the thesis entitled "Biosynthesis and Characterization of Copper Nanoparticles using *Clerodendrum inerme* and their Antimicrobial Activity" submitted to University, for the award of degree of Master of Science in of Biotechnology embodies the result of bonafide research work carried out by

KRISHNAVENI.P
(Reg. No: P15440604)

Under my guidance and supervision in the Annai College of Arts & Science Kovilacheri, Kumbakonam (Affiliated to Bharathidasan University, Tiruchirapalli). I further certify that under such help or source of information have been availed in this connection is duly acknowledged and that no part of the thesis has been submitted anywhere else for any other degree, diploma, fellowship or their similarities.


22.03.12

Signature,

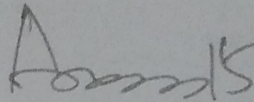
Head of the Department

Dr. P. MANI, M.Sc., M.Phil., Ph.D.,
Asst. Professor & Head,

Dept. of Biotechnology

Submitted for Viva Voce Examination held on

Annai College of Arts & Science,
KOVILACHERI, Kumbakonam - 612 503.

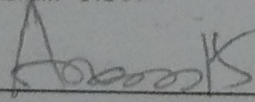


Signature of the Guide

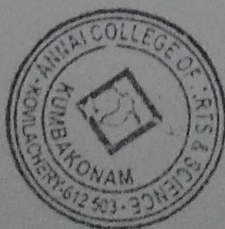
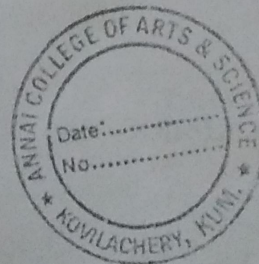
Dr. S. ANANTH, M.Sc., M.Phil., PGDCA, Ph.D.

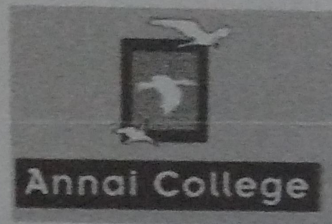
PRINCIPAL

Annai College of Arts & Science
Kovilacheri, Kumbakonam - 612 503.

Examiners: 1. 

2. _____



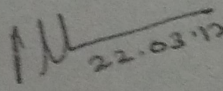


DR. P.MANI

Assistant Professor and Head,
Department of Biotechnology,
Annai College Of Arts & Science
Kumbakonam

CERTIFICATE

I certify that the thesis entitled "**PURIFICATION AND CHARACTERIZATION OF NOVEL ALKALINE ,THERMOSTABLE CELLULASE FROM *Bacillus subtilis* AND ITS APPLICATION ON DETERGENTS**" submitted for the degree of Master of Science (M.Sc) by Ms. M. JEMSIRA PARVEEN is the record of research work carried out by him during the period from **2015 to 2017** under the guidance of Dr.P.MANI,,M.Sc., M.Phil., PGDBI, Ph.D., and has not formed the basis for the award of any Degree, Diploma, Associate ship, Fellowship, Titles in this university or any other similar University institutions of Higher Learning .


22.03.17
Research Guide

(DR. P.Mani)

Place: Kumbakonam

Date: 22.03.2017

**Dr. P. MANI, M.Sc., M.Phil., Ph.D.,
Asst. Professor & Head,
Dept. of Biotechnology,
Annai College of Arts & Science,
KOVILACHERI, Kumbakonam - 612 503.**