



**Bharath**  
INSTITUTE OF HIGHER EDUCATION AND RESEARCH  
(Declared as Deemed - to - be - University under section 3 of UGC Act 1956)

## FACULTY OF ARTS & SCIENCE

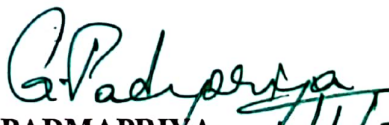
83/3, New Agaram Main Road, Tiruvanchery, Selaiyur, Chennai – 600 126

### DEPARTMENT OF CHEMISTRY

#### BONAFIDE CERTIFICATE

This is to certify that the project entitled “**SYNTHESIS AND CHARACTERIZATION OF CU[III] DITHIOCARBAMATE COMPLEXES AND THEIR UTILITY FOR SENSING ANIONS**” is original record work done by E..AKASH **U20CIO01.**, under my guidance and supervision for the partial fulfillment of award of degree in B.Sc Chemistry as per syllabus prescribed by the Faculty of Arts & Science, Bharath Institute of Higher Education and Research, Selaiyur, Chennai.

  
PROJECT GUIDE

  
Dr. G. PADMAPRIYA  
HEAD OF THE DEPARTMENT  
Department of Chemistry  
Faculty of Arts & Science  
BHARATH INSTITUTE OF HIGHER EDUCATION & RESEARCH  
(Declared as Deemed to be University U/S 3 of UGC Act  
Chennai-600 126. INDIA.

Submitted for Viva-Voce examination held on 1/06/23 at Department of Chemistry,  
Faculty of Arts & Science, Bharath Institute of Higher Education Research, Chennai.

  
INTERNAL EXAMINER

  
EXTERNAL EXAMINER



# Bharath

**INSTITUTE OF HIGHER EDUCATION AND RESEARCH**


(Declared as deemed to be university under section 3 of UGC Act 1956, vide notification No.F.9-5/2000-U.3)

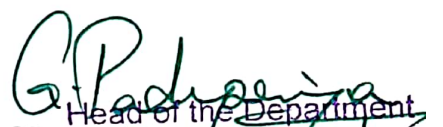
**FACULTY OF ARTS & SCIENCE**

**DEPARTMENT OF CHEMISTRY**

**BONAFIDE CERTIFICATE**

This is to certify that the project entitled "COLORIMETRIC NAKED EYE DETECTION OF PICRIC ACID USING METHYLENE BLUE AS SENSOR PROBE IN MICRO MOLAR LEVE" is original record work done by T. ARUNKUMAR, REG NO: U20CI003, under my guidance and supervision for the partial fulfillment of award of degree in B.Sc as per syllabus prescribed by the Faculty of Arts & Science, Bharath Institute of Higher Education and Research, Selaiyur, Chennai.

  
PROJECT GUIDE

  
HEAD OF THE DEPARTMENT  
Department of Chemistry  
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Chennai-600 126. INDIA.

Submitted for Viva-Voce examination held on 01-06-23 at Department of Chemistry, Faculty of Arts & Science, Bharath Institute of Higher Education Research, Chennai.

  
INTERNAL EXAMINER

  
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## FACULTY OF ARTS & SCIENCE

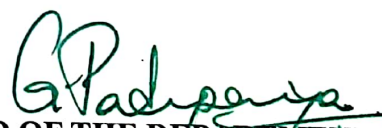
833, New Agaram Main Road, Tiruvanchery, Selaiyur, Chennai – 600126

### DEPARTMENT OF CHEMISTRY

#### BONAFIDE CERTIFICATE

This is to certify that this project entitled “**Synthesis and Characterization of Mixed ligands Cu(II) Complexes from Schiff Base and polypyridyl Ligands and their studies**” is original record work done by **Mr. T. DILIP KUMARR**, Reg. No: U20CI005, under my guidance and supervision for the partial fulfillment of award of degree in B.Sc. Chemistry as per syllabus prescribed by the Faculty of Arts & Science, Bharath Institute of Higher Education and Research, Selaiyur, Chennai.

  
PROJECT GUIDE 01/06/23

  
HEAD OF THE DEPARTMENT  
Head of the Department  
Department of Chemistry  
Faculty of Arts & Science 01/06/23

BHARATH INSTITUTE OF HIGHER EDUCATION & RESEARCH  
(Declared as Deemed to be University U/S 3 of UGC Act.  
Chennai-600 126. INDIA.

Submitted for Viva-Voce examination held on 01-06-23 at Department of Chemistry,  
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INTERNAL EXAMINER 01/06/23

  
EXTERNAL EXAMINER



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FACULTY OF ARTS & SCIENCE

DEPARTMENT OF CHEMISTRY

## BONAFIDE CERTIFICATE

This is to certify that the project entitled "Single pot in-situ synthesis and characterization of Schiff base  $[Zn(Anth-oFD)_2]$  metal complex" is original record work done by Mr. U. DINESH (Reg. No. U20CI006) under my guidance and supervision for the partial fulfillment of award of degree in B.Sc., as per syllabus prescribed by the Faculty of Arts & Science, Bharath Institute of Higher Education and Research, Selaiyur, Chennai.

PROJECT GUIDE

HEAD OF THE DEPARTMENT  
Department of Chemistry  
Faculty of Arts & Science

BHARATH INSTITUTE OF HIGHER EDUCATION & RESEARCH  
(Declared as Deemed - to - be - University under section 3 of UGC Act, 1956)

Submitted for Viva-Voce examination held on 01/06/23 at Department of Chemistry, Faculty of Arts & Science, Bharath Institute of Higher Education Research, Chennai.

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## FACULTY OF ARTS & SCIENCE


K.V. New Agaram Main Road, Tiruvanchery, Selaiyur, Chennai - 600 126

### DEPARTMENT OF CHEMISTRY

#### BONAFIDE CERTIFICATE

This is to certify that the project entitled "**SYNTHESIS AND CHARACTERIZATION OF CU(II) DITHIOCARBAMATE COMPLEXES AND THEIR UTILITY FOR SENSING ANIONS**" is original record work done by **E.DIVAKAR, U20CIO07.**, under my guidance and supervision for the partial fulfillment of award of degree in B.Sc Chemistry as per syllabus prescribed by the Faculty of Arts & Science, Bharath Institute of Higher Education and Research, Selaiyur, Chennai.

  
PROJECT GUIDE

  
Dr. G. PADMAPRIYA  
HEAD OF THE DEPARTMENT  
Department of Chemistry  
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(Declared as Deemed to be University U/S 3 of UGC Act. 1956)  
Chennai-600 126. INDIA.

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INTERNAL EXAMINER

  
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## FACULTY OF ARTS & SCIENCE

83/3, New Agaram Main Road, Tiruvanchery, Selaiyur, Chennai – 600 126

### DEPARTMENT OF CHEMISTRY

#### BONAFIDE CERTIFICATE

This is to certify that the project entitled “**PREPARATION OF NEEM SOAP WITH USING NEEM EXTRACT**” is original record work done by **HARIPRASANTH V (Reg No: U20CI009)**., under my guidance and supervision for the partial fulfillment of award of degree in B.Sc Chemistry as per syllabus prescribed by the Faculty of Arts & Science, Bharath Institute of Higher Education and Research, Selaiyur, Chennai.

*G. Padmapriya*  
11/6/23

*G. Padmapriya*  
Dr. G. PADMAPRIYA  
Project Guide  
Head of the Department  
Department of Chemistry  
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Chennai-600 126. INDIA.

Submitted for Viva-Voce examination held on 01-06-23 at Department of Chemistry, Faculty of Arts & Science, Bharath Institute of Higher Education Research, Chennai.

*G. Padmapriya*  
INTERNAL EXAMINER  
11/6/23

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EXTERNAL EXAMINER  
11/6/23



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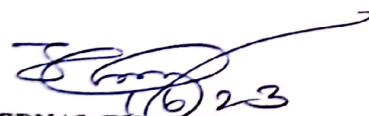
**BONAFIDE CERTIFICATE**

This is to certify that the project entitled "Single pot in-situ synthesis and characterization of Schiff base  $[Zn(Anil-oPD)_4]$  metal complex" is original record work done by Mr. V. IYYAPPAN (Reg. No. U20CI010) under my guidance and supervision for the partial fulfillment of award of degree in B.Sc., as per syllabus prescribed by the Faculty of Arts & Science, Bharath Institute of Higher Education and Research, Selaiyur, Chennai.

  
11/6/23  
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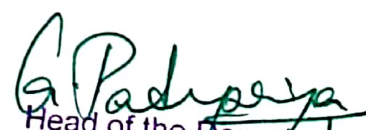
833, New Agaram Main Road, Tiruvanchery, Selaiyur, Chennai – 600 126

### DEPARTMENT OF CHEMISTRY

#### BONAFIDE CERTIFICATE

This is to certify that the project entitled “BIOSYNTHESIS OF ECO-FRIENDLY SILVER NANOPARTICLES FROM SIDA RHOMBIFOLIA LEAF EXTRACT AND ITS LARVICIDAL ACTIVITY” is original record work done by V. KABILAN , (Reg. No. : U20CI011) under my guidance and supervision for the partial fulfillment of award of degree in B.Sc Chemistry as per syllabus prescribed by the Faculty of Arts & Science, Bharath Institute of Higher Education and Research, Selaiyur, Chennai.

  
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HEAD OF THE DEPARTMENT  
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83/3, New Agaram Main Road, Tiruvanchery, Selaiyur, Chennai – 600 126

### DEPARTMENT OF CHEMISTRY

#### BONAFIDE CERTIFICATE

This is to certify that the project entitled “**SYNTHESIS AND CHARACTERIZATION OF CU(II) DITHIOCARBAMATE COMPLEXES AND THEIR UTILITY FOR SENSING ANIONS**” is original record work done by D. KISHORE U20CIO13., under my guidance and supervision for the partial fulfillment of award of degree in B.Sc Chemistry as per syllabus prescribed by the Faculty of Arts & Science, Bharath Institute of Higher Education and Research, Selaiyur, Chennai.

  
PROJECT GUIDE

  
Dr. G. PADMAPRIYA  
HEAD OF THE DEPARTMENT

Department of Chemistry  
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Chennai-600 126. INDIA.

Submitted for Viva-Voce examination held on 01.06.23 at Department of Chemistry,  
Faculty of Arts & Science, Bharath Institute of Higher Education Research, Chennai.

  
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## FACULTY OF ARTS & SCIENCE

833, New Agaram Main Road, Tiruvanchery, Selaiyur, Chennai – 600 126

### DEPARTMENT OF CHEMISTRY

#### BONAFIDE CERTIFICATE

This is to certify that the project entitled “**PRAWN WASTE SHELL MANAGEMENT**” is original record work done by **R. LAKSHMI**, (REG.NO. U20CI014) under my guidance and supervision for the partial fulfillment of award of degree in M.Sc Chemistry as per syllabus prescribed by the Faculty of Arts & Science, Bharath Institute of Higher Education and Research, Selaiyur, Chennai.

*G. Padupaiya*  
PROJECT GUIDE  
11/6/23

*G. Padupaiya*  
HEAD OF THE DEPARTMENT  
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(Declared as Deemed to be University U/S 3 of UGC Act. 1956)

Submitted for Viva-Voce examination held on 01/06/23 at Department of Chemistry, Faculty of Arts & Science, Bharath Institute of Higher Education Research, Chennai.

*G. Padupaiya*  
INTERNAL EXAMINER  
11/6/23

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EXTERNAL EXAMINER



## FACULTY OF ARTS & SCIENCE

833, New Agaram Main Road, Tiruvanchery, Selaiyur, Chennai – 600 126

### DEPARTMENT OF CHEMISTRY

#### BONAFIDE CERTIFICATE

This is to certify that the project entitled “**PREPARATION OF NEEM SOAP WITH USING NEEM EXTRACT**” is original record work done by **LAKSHMI V (Reg No: U20CI015)**, under my guidance and supervision for the partial fulfillment of award of degree in B.Sc Chemistry as per syllabus prescribed by the Faculty of Arts & Science, Bharath Institute of Higher Education and Research, Selaiyur, Chennai.

*G. Padma*  
11/6/23

*G. Padma*  
Dr. G. PADMA  
Head of the Department  
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Faculty of Arts & Science  
HEAD OF THE DEPARTMENT  
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Chennai-600 126. INDIA.

Submitted for Viva-Voce examination held on 01/06/2023 at Department of Chemistry, Faculty of Arts & Science, Bharath Institute of Higher Education Research, Chennai.

*G. Padma*  
INTERNAL EXAMINER  
11/6/23

*11/6/23*  
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## FACULTY OF ARTS & SCIENCE


83/3, New Agaram Main Road, Tiruvanchery, Selaiyur, Chennai – 600126

### DEPARTMENT OF CHEMISTRY

#### BONAFIDE CERTIFICATE

This is to certify that this project entitled “**Synthesis and Characterization of Symmetrical / Unsymmetrical Cu(II) Complexes derived from Schiff Base and 8-Hydroxy Quinoline Ligands and their studies**” is original record work done by Miss **P. MANJUPRIYA** Reg. No: **U20CI016**, under my guidance and supervision for the partial fulfillment of award of degree in B.Sc. Chemistry as per syllabus prescribed by the Faculty of Arts & Science, Bharath Institute of Higher Education and Research, Selaiyur, Chennai.

  
01/06/23  
PROJECT GUIDE

  
HEAD OF THE DEPARTMENT  
Department of Chemistry  
Faculty of Arts & Science  
BHARATH INSTITUTE OF HIGHER EDUCATION & RESE  
(Declared as Deemed to be University U/S 3 of UGC Act. 1  
Chennai-600 126. INDIA.

Submitted for Viva-Voce examination held on 01-06-23 at Department of Chemistry,  
Faculty of Arts & Science, Bharath Institute of Higher Education Research, Chennai.

  
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833, New Agaram Main Road, Tiruvanchery, Selaiyur, Chennai – 600 126

### DEPARTMENT OF CHEMISTRY

#### BONAFIDE CERTIFICATE

This is to certify that the project entitled “**ULTRASOUND ASSISTED PREPARATION OF BENZYL ETHER UNDER TRI-SITE PHASE TRANSFER CATALYSIS CONDITION**” is original record work done by **D. MEENA**, (Reg. No. : U20CI017) under my guidance and supervision for the partial fulfillment of award of degree in B.Sc Chemistry as per syllabus prescribed by the Faculty of Arts & Science, Bharath Institute of Higher Education and Research, Selaiyur, Chennai.

  
PROJECT GUIDE

  
HEAD OF THE DEPARTMENT  
Department of Chemistry  
Faculty of Arts & Science  
BHARATH INSTITUTE OF HIGHER EDUCATION & RESEARCH  
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Chennai-600 126. INDIA.

Submitted for Viva-Voce examination held on 01.06.23 at Department of Chemistry,  
Faculty of Arts & Science, Bharath Institute of Higher Education Research, Chennai.

  
INTERNAL EXAMINER

  
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(Declared as deemed to be university under section 3 of UGC Act 1956, vide notification No.F.9-5/2000-U.3)


**FACULTY OF ARTS & SCIENCE**

**DEPARTMENT OF CHEMISTRY**


**BONAFIDE CERTIFICATE**

This is to certify that the project entitled "COLORIMETRIC NAKED EYE DETECTION OF PICRIC ACID USING FAST GREEN AS SENSOR PROBE IN MICRO MOLAR LEVE" is original record work done by K. PRAKASH, REG NO: U20CI018, under my guidance and supervision for the partial fulfillment of award of degree in B.Sc as per syllabus prescribed by the Faculty of Arts & Science, Bharath Institute of Higher Education and Research, Selaiyur, Chennai.

  
PROJECT GUIDE  
1/6/23

  
HEAD OF THE DEPARTMENT  
Head of the Department  
Department of Chemistry  
Faculty of Arts & Science  
1/6/23  
BHARATH INSTITUTE OF HIGHER EDUCATION & RESEARCH  
(Declared as Deemed to be University 1/5 of UGC Act, 1956)  
Chennai-600 125 INDIA.

Submitted for Viva-Voce examination held on 1-06-23 at Department of Chemistry,  
Faculty of Arts & Science, Bharath Institute of Higher Education Research, Chennai.

  
INTERNAL EXAMINER  
1/6/23

  
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## FACULTY OF ARTS & SCIENCE

83/3, New Agaram Main Road, Tiruvanchery, Selaiyur, Chennai – 600 126


### DEPARTMENT OF CHEMISTRY

#### BONAFIDE CERTIFICATE

This is to certify that the project entitled “BIOSYNTHESIS OF ECO-FRIENDLY SILVER NANOPARTICLES FROM SIDA RHOMBIFOLIA LEAF EXTRACT AND ITS LARVICIDAL ACTIVITY” is original record work done by M. PRAVEEN (Reg. No. : U20CI019) under my guidance and supervision for the partial fulfillment of award of degree in B.Sc., Chemistry as per syllabus prescribed by the Faculty of Arts & Science, Bharath Institute of Higher Education and Research, Selaiyur, Chennai.

  
11/6/23

PROJECT GUIDE

  
HEAD OF THE DEPARTMENT  
Department of Chemistry  
Faculty of Arts & Science  
11/6/23  
BHARATH INSTITUTE OF HIGHER EDUCATION & RESEARCH  
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Chennai-600 126. INDIA.

Submitted for Viva-Voce examination held on 1/6/23 at Department of Chemistry,  
Faculty of Arts & Science, Bharath Institute of Higher Education Research, Chennai.

  
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FACULTY OF ARTS & SCIENCE

DEPARTMENT OF CHEMISTRY

BONAFIDE CERTIFICATE

This is to certify that the project entitled "Room temperature in-situ synthesis and characterization of Schiff base for metal sensor" is original record work done by Miss. A. PREETHI (Reg. No. U20CI020) under my guidance and supervision for the partial fulfillment of award of degree in B.Sc., as per syllabus prescribed by the Faculty of Arts & Science, Bharath Institute of Higher Education and Research, Selaiyur, Chennai.

PROJECT GUIDE

Head of the Department  
HEAD OF THE DEPARTMENT  
Department of Chemistry  
Faculty of Arts & Science  
BHARATH INSTITUTE OF HIGHER EDUCATION & RESEARCH  
(Declared as Deemed to be University U/S 3 of UGC Act. 1956)  
Chennai-600 126. INDIA.

Submitted for Viva-Voce examination held on 01-06-23 at Department of Chemistry, Faculty of Arts &

Science, Bharath Institute of Higher Education and Research, Selaiyur, Chennai.



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## FACULTY OF ARTS & SCIENCE

83/3, New Agaram Main Road, Tiruvanchery, Selaiyur, Chennai – 600126

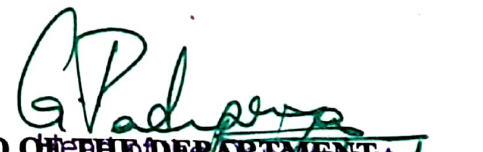
### DEPARTMENT OF CHEMISTRY

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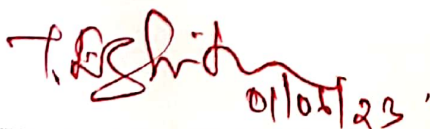
This is to certify that this project entitled “**Synthesis and Characterization of Symmetrical / Unsymmetrical Cu(II) Complexes derived from Schiff Base and 8-Hydroxy Quinoline Ligands and their studies**” is original record work done by **Mr. M.PUGAZHARASAN** Reg. No: U20CI021, under my guidance and supervision for the partial fulfillment of award of degree in B.Sc. Chemistry as per syllabus prescribed by the Faculty of Arts & Science, Bharath Institute of Higher Education and Research, Selaiyur, Chennai.

  
01/06/23

PROJECT GUIDE

  
HEAD OF THE DEPARTMENT  
Department of Chemistry  
Faculty of Arts & Science  
BHARATH INSTITUTE OF HIGHER EDUCATION & RESEARCH  
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Chennai-600 126. INDIA.  
01/06/23

Submitted for Viva-Voce examination held on 01-06-23 at Department of Chemistry, Faculty of Arts & Science, Bharath Institute of Higher Education Research, Chennai.

  
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83/3, New Agaram Main Road, Tiruvanchery, Selaiyur, Chennai – 600126

### DEPARTMENT OF CHEMISTRY

#### BONAFIDE CERTIFICATE

This is to certify that this project entitled “**Synthesis and Characterization of Mixed ligands Cu(II) Complexes from Schiff Base and polypyridyl Ligands and their studies**” is original record work done by **Mr. K. RAGHUL**, Reg. No: **U20C1022**, under my guidance and supervision for the partial fulfillment of award of degree in B.Sc. Chemistry as per syllabus prescribed by the Faculty of Arts & Science, Bharath Institute of Higher Education and Research, Selaiyur, Chennai.

*T. F. Ghidini*  
01/06/23  
PROJECT GUIDE

*G. Padmanabhan*  
HEAD OF THE DEPARTMENT  
Department of Chemistry  
Faculty of Arts & Science  
BHARATH INSTITUTE OF HIGHER EDUCATION & RESEARCH  
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*T. F. Ghidini*  
01/06/23  
INTERNAL EXAMINER

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DEPARTMENT OF CHEMISTRY**


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This is to certify that the project entitled "COLORIMETRIC NAKED EYE DETECTION OF PICRIC ACID USING MELACHITE GREEN AS SENSOR PROBE IN MICRO MOLAR LEVE" is original record work done by P. RAMYA, REG NO: U20CI023, under my guidance and supervision for the partial fulfillment of award of degree in B.Sc as per syllabus prescribed by the Faculty of Arts & Science, Bharath Institute of Higher Education and Research, Selaiyur, Chennai.

  
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DEPARTMENT OF CHEMISTRY**

## BONAFIDE CERTIFICATE

This is to certify that the project entitled "COLORIMETRIC NAKED EYE DETECTION OF PICRIC ACID USING MELACHITE GREEN AS SENSOR PROBE IN MICRO MOLAR LEVE" is original record work done by K. SAKTHI PARTHASARATHY, REG NO: U20CI024, under my guidance and supervision for the partial fulfillment of award of degree in B.Sc as per syllabus prescribed by the Faculty of Arts & Science, Bharath Institute of Higher Education and Research, Selaiyur, Chennai.

PROJECT GUIDE  
1/16/23

HEAD OF THE DEPARTMENT

Head of the Department  
Department of Chemistry  
Faculty of Arts & Science

BHARATH INSTITUTE OF HIGHER EDUCATION & RESEARCH  
(Declared as Deemed to be University U/S 3 of UGC Act. 1956)  
Chennai-600 126. INDIA.

Submitted for Viva-Voce examination held on 1/16/23 at Department of Chemistry,  
Faculty of Arts & Science, Bharath Institute of Higher Education Research, Chennai.

INTERNAL EXAMINER

EXTERNAL EXAMINER



# Bharath

INSTITUTE OF HIGHER EDUCATION AND RESEARCH  
(Declared as Deemed - to - be - University under section 3 of UGC Act 1956)

## FACULTY OF ARTS & SCIENCE

83/3, New Agaram Main Road, Tiruvanchery, Selaiyur, Chennai – 600126

### DEPARTMENT OF CHEMISTRY

#### BONAFIDE CERTIFICATE

This is to certify that this project entitled “**Synthesis and Characterization of Symmetrical / Unsymmetrical Cu(II) Complexes derived from Schiff Base and 8-Hydroxy Quinoline Ligands and their studies**” is original record work done by **Mr. S. SANJAY KUMAR, Reg. No: U20CI025**, under my guidance and supervision for the partial fulfillment of award of degree in B.Sc. Chemistry as per syllabus prescribed by the Faculty of Arts & Science, Bharath Institute of Higher Education and Research, Selaiyur, Chennai.

*T. Ghidini*  
01/06/23

PROJECT GUIDE

*G. Padmanabha*  
01/06/23  
HEAD OF THE DEPARTMENT  
Department of Chemistry  
Faculty of Arts & Science

BHARATH INSTITUTE OF HIGHER EDUCATION & RESEARCH  
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Submitted for Viva-Voce examination held on 01/06/23 at Department of Chemistry, Faculty of Arts & Science, Bharath Institute of Higher Education Research, Chennai.

*T. Ghidini*  
01/06/23  
INTERNAL EXAMINER

*Pr* 01/06/23  
EXTERNAL EXAMINER



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**FACULTY OF ARTS & SCIENCE  
DEPARTMENT OF CHEMISTRY**

**BONAFIDE CERTIFICATE**

This is to certify that the project entitled "COLORIMETRIC NAKED EYE DETECTION OF PICRIC ACID USING BRILLIANT GREEN AS SENSOR PROBE IN MICRO MOLAR LEVE" is original record work done by SARATHI. S REG NO: U20CI027, under my guidance and supervision for the partial fulfillment of award of degree in B.Sc as per syllabus prescribed by the Faculty of Arts & Science, Bharath Institute of Higher Education and Research, Selaiyur, Chennai.

  
PROJECT GUIDE

  
HEAD THE DEPARTMENT  
Head of the Department  
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Faculty of Arts & Science  
BHARATH INSTITUTE OF HIGHER EDUCATION & RESEARCH  
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Chennai-600 126. INDIA.  
11/6/23

Submitted for Viva-Voce examination held on 01/06/23 at Department of Chemistry, Faculty of Arts & Science, Bharath Institute of Higher Education Research, Chennai.

  
INTERNAL EXAMINER

  
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## FACULTY OF ARTS & SCIENCE


83/3, New Agaram Main Road, Tiruvanchery, Selaiyur, Chennai – 600 126

### DEPARTMENT OF CHEMISTRY

### BONAFIDE CERTIFICATE

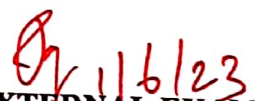
This is to certify that the project entitled “**ULTRASOUND ASSISTED PREPARATION OF BENZYL ETHER UNDER TRI-SITE PHASE TRANSFER CATALYSIS CONDITION**” is original record work done by **S. SATHYA**, (Reg. No. : U20CI028) under my guidance and supervision for the partial fulfillment of award of degree in B.Sc Chemistry as per syllabus prescribed by the Faculty of Arts & Science, Bharath Institute of Higher Education and Research, Selaiyur, Chennai.

  
PROJECT GUIDE

  
Head of the Department  
**HEAD OF THE DEPARTMENT**  
Department of Chemistry  
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Chennai-600 126. INDIA.

Submitted for Viva-Voce examination held on 01.06.23 at Department of Chemistry, Faculty of Arts & Science, Bharath Institute of Higher Education Research, Chennai.

  
INTERNAL EXAMINER

  
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## FACULTY OF ARTS & SCIENCE

83/3, New Agaram Main Road, Tiruvanchery, Selaiyur, Chennai – 600 126

### DEPARTMENT OF CHEMISTRY

#### BONAFIDE CERTIFICATE

This is to certify that the project entitled “**PRAWN WASTE SHELL MANAGEMENT**” is original record work done by **SHAIK KHAJA MOHIDDIN** , (REG.NO. U20CI029) under my guidance and supervision for the partial fulfillment of award of degree in M.Sc Chemistry as per syllabus prescribed by the Faculty of Arts & Science, Bharath Institute of Higher Education and Research, Selaiyur, Chennai.

*G. Padupera*  
PROJECT GUIDE  
11/6/23

*G. Padupera*  
HEAD OF THE DEPARTMENT  
Head of the Department  
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11/6/23  
BHARATH INSTITUTE OF HIGHER EDUCATION & RESEARCH  
(Declared as Deemed to be University U/S 3 of UGC Act, 1956)  
CHENNAI 600 126, INDIA.

Submitted for Viva-Voce examination held on 11/06/23 at Department of Chemistry, Faculty of Arts & Science, Bharath Institute of Higher Education Research, Chennai.

*G. Padupera*  
INTERNAL EXAMINER  
11/6/23

*Ar 11/6/23*  
EXTERNAL EXAMINER



# Bharath

INSTITUTE OF HIGHER EDUCATION AND RESEARCH  
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## FACULTY OF ARTS & SCIENCE


83/3, New Agaram Main Road, Tiruvanchery, Selaiyur, Chennai – 600 126

### DEPARTMENT OF CHEMISTRY

#### BONAFIDE CERTIFICATE

This is to certify that the project entitled “**SYNTHESIS AND CHARACTERIZATION OF CU(II) DITHIOCARBAMATE COMPLEXES AND THEIR UTILITY FOR SENSING ANIONS**” is original record work done by **T.SUNILKUMAR , U20CIO30.**, under my guidance and supervision for the partial fulfillment of award of degree in B.Sc Chemistry as per syllabus prescribed by the Faculty of Arts & Science, Bharath Institute of Higher Education and Research, Selaiyur, Chennai.

  
PROJECT GUIDE

  
Dr. G. PADMAPRIYA  
HEAD OF THE DEPARTMENT  
Department of Chemistry  
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Chennai-600 126. INDIA.

Submitted for Viva-Voce examination held on 01/06/23 at Department of Chemistry,  
Faculty of Arts & Science, Bharath Institute of Higher Education Research, Chennai.

  
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**FACULTY OF ARTS & SCIENCE**

**DEPARTMENT OF CHEMISTRY**

**BONAFIDE CERTIFICATE**

This is to certify that the project entitled "Room temperature in-situ synthesis and characterization of Schiff base for metal sensor" is original record work done by Mr. S. VETRIVEL (Reg. No. U20CI032) under my guidance and supervision for the partial fulfillment of award of degree in B.Sc., as per syllabus prescribed by the Faculty of Arts & Science, Bharath Institute of Higher Education and Research, Selaiyur, Chennai.

**PROJECT GUIDE**

Head of the Department  
Department of Chemistry  
**HEAD OF THE DEPARTMENT**  
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Chennai-600 126. INDIA.

Submitted for Viva-Voce examination held on 01/06/23 at Department of Chemistry, Faculty of Arts & Science, Bharath Institute of Higher Education Research, Chennai.

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